

EMERSON ELECTRIC CO.

PERIODIC REVIEW REPORT - REVISED FORMER EMERSON POWER TRANSMISSION, TOMPKINS COUNTY, ITHACA, NEW YORK – SITE NO. 7-55-010

AUGUST 16, 2024





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FORMER EMERSON POWER
TRANSMISSION, TOMPKINS
COUNTY, ITHACA, NEW YORK
– SITE NO. 7-55-010

EMERSON ELECTRIC CO.

PROJECT NO.: US-WSP-31405608.001
DATE: AUGUST 16, 2024

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TABLE OF CONTENTS

1	EXECUTIVE SUMMARY	1
1.1	Site Summary	1
1.2	Effectiveness of the Remedial Program	2
1.2.1	Soil IRM Activities	2
1.2.2	Dual Phase Extraction and Treatment System	3
1.2.3	Non-Aqueous Phase Liquid Recovery	3
1.3	Compliance	3
1.4	Recommendations	3
2	SITE OVERVIEW	4
2.1	Site Location and Description	4
2.2	Site History	4
2.3	Summary of Investigation and Remediation Activities	4
2.3.1	OU-1	5
2.3.2	OU-2	5
2.4	Remedial Objectives	6
2.5	Selected Remedy	7
2.6	Changes to the Selected Remedy	7
3	EVALUATION OF REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS	8
3.1	Soil	8
3.2	DPE and Treatment System	8
3.3	NAPL	8
4	IC/EC PLAN COMPLIANCE REPORT	9
4.1	Requirements and Compliance	9
4.1.1	Institutional Controls	9
4.1.2	Engineering Controls	10
4.2	Generated Wastes	12
4.3	IC/EC Certification	13



5	MONITORING PLAN COMPLIANCE REPORT	14
5.1	Monitoring Plan Components	14
5.2	Monitoring Completed During Reporting Period.....	14
5.2.1	Site-Wide Inspection	14
5.2.2	DPE and Treatment System	14
5.2.3	NAPL Monitoring and Recovery	17
5.2.4	Site-Wide Groundwater Monitoring	18
5.2.5	SPDES Permit Equivalent Outfalls.....	19
5.3	Comparisons with Remedial Objectives.....	21
5.4	Monitoring Deficiencies.....	21
5.5	Conclusions and Recommendations for Changes.....	21
6	O&M PLAN COMPLIANCE REPORT	22
6.1	O&M Plan Components	22
6.1.1	DPE and Treatment System	22
6.1.2	NAPL Recovery	23
6.2	O&M Completed During Reporting Period.....	23
6.2.1	DPE and Treatment System	23
6.2.2	NAPL Recovery	24
6.3	Evaluation of Remedial Systems	24
6.3.1	DPE and Treatment System	24
6.3.2	NAPL Recovery	24
6.4	O&M Deficiencies	24
6.5	Conclusions and Recommendations for Improvements.....	24
7	OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS	25
7.1	Compliance with ISMP.....	25
7.2	Performance and Effectiveness of Remedy	25
7.3	Future PRR Submittals	25

FIGURES

FIGURE 1	SITE LOCATION
FIGURE 2	SITE LAYOUT
FIGURE 3	INSTITUTIONAL CONTROL BOUNDARIES
FIGURE 4	SUB-SLAB SOIL VAPOR, INDOOR AIR, AND OUTDOOR AIR SAMPLING LOCATIONS AND RESULTS – MARCH 2023
FIGURE 5	DPE TREATMENT AREA
FIGURE 6	DISTRIBUTION OF WELLS MONITORING THE B, C, AND D HYDROGEOLOGIC ZONES
FIGURE 7	APRIL 2023 GROUNDWATER DRAWDOWN FIGURE – B-ZONE
FIGURE 8	APRIL 2023 GROUNDWATER DRAWDOWN FIGURE – C-ZONE
FIGURE 9	APRIL 2023 GROUNDWATER DRAWDOWN FIGURE – D-ZONE
FIGURE 10	GROUNDWATER MONITORING WELL LOCATIONS – B ZONE – APRIL 2023
FIGURE 11	GROUNDWATER MONITORING WELL LOCATIONS – C ZONE – APRIL 2023
FIGURE 12	GROUNDWATER MONITORING WELL LOCATIONS – D ZONE – APRIL 2023
FIGURE 13	GROUNDWATER MONITORING WELL LOCATIONS – B ZONE – SEPTEMBER 2023
FIGURE 14	GROUNDWATER MONITORING WELL LOCATIONS – C ZONE – SEPTEMBER 2023
FIGURE 15	GROUNDWATER MONITORING WELL LOCATIONS – D ZONE – SEPTEMBER 2023
FIGURE 16	DISTRIBUTION OF CVOCS IN B HYDROGEOLOGIC ZONE (FIRE WATER RESERVOIR AREA) – APRIL 2023
FIGURE 17	DISTRIBUTION OF CVOCS IN C HYDROGEOLOGIC ZONE (FIRE WATER RESERVOIR AREA) – APRIL 2023
FIGURE 18	DISTRIBUTION OF CVOCS IN D HYDROGEOLOGIC ZONE (FIRE WATER RESERVOIR AREA) – APRIL 2023



TABLES

TABLE 1	AREAS OF CONCERN AND SOIL CLEANUP OBJECTIVES
TABLE 2	VAPOR PHASE EXTRACTION SYSTEM OPERATIONAL TIME
TABLE 3	AQUEOUS PHASE VOC MASS REMOVED
TABLE 4	AQUEOUS PHASE SAMPLING RESULTS
TABLE 5	VAPOR PHASE VOC MASS REMOVED
TABLE 6	VAPOR PHASE SAMPLING RESULTS
TABLE 7	WELL CONSTRUCTION DETAILS AND MONITORING PROGRAM
TABLE 8	APRIL 2023 GROUNDWATER ELEVATION MEASUREMENTS
TABLE 9	SEPTEMBER 2023 GROUNDWATER ELEVATION MEASUREMENTS
TABLE 10	APRIL 2023 GROUNDWATER SAMPLING RESULTS
TABLE 11	SEPTEMBER 2023 GROUNDWATER SAMPLING RESULTS
TABLE 12	HISTORICAL GROUNDWATER SAMPLING RESULTS – CVOCS (ISMP WELLS ONLY)
TABLE 13	HISTORICAL GROUNDWATER SAMPLING RESULTS – BARIUM AND CYANIDE (ISMP WELLS ONLY)
TABLE 14	SPDES PERMIT EQUIVALENT DISCHARGE RESULTS – OUTFALL 01A
TABLE 15	SPDES PERMIT EQUIVALENT DISCHARGE RESULTS – OUTFALL 001
TABLE 16	SPDES PERMIT EQUIVALENT DISCHARGE RESULTS – OUTFALL 009

APPENDICES

APPENDIX A	ENVIRONMENTAL EASEMENT
APPENDIX B	SITE RESPONSIBILITIES
APPENDIX C	NCR SEWER LINE DEED RESTRICTION
APPENDIX D	ANNUAL SITE-WIDE INSPECTION FORMS
APPENDIX E	SPDES PERMIT EQUIVALENT
APPENDIX F	WASTE DISPOSAL DOCUMENTATION
APPENDIX G	INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION FORM
APPENDIX H	LABORATORY ANALYTICAL REPORTS
APPENDIX I	TIME TREND CHARTS
APPENDIX J	DATA USABILITY AND SUMMARY REPORTS
APPENDIX K	MONITORING WELL PURGE FORMS
APPENDIX L	DPE AND TREATMENT SYSTEM O&M FORMS

1 EXECUTIVE SUMMARY

WSP USA Inc. (WSP) is submitting this Periodic Review Report (PRR) on behalf of Emerson Electric Co. (Emerson) for the former Emerson Power Transmission (EPT) site at 620 S. Aurora Street in Ithaca, New York (Site, Figure 1). This PRR has been prepared in accordance with the New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation's (DER's) DER-10 *Technical Guidance for Site Investigation and Remediation*, dated May 2010, the Interim Site Management Plan (ISMP), dated August 19, 2022, and NYSDEC correspondence to Emerson, dated October 7, 2022. This PRR covers the reporting period from January 1, 2023 through December 31, 2023.

The Site is currently in the New York State (NYS) Superfund Program, Site No. 755010, which is administered by NYSDEC. Emerson and EPT entered into an Order on Consent (No. A7-0125-87-09), on July 12, 1987 with the NYSDEC to remediate the Site. Based on results obtained during additional investigations conducted at the Site, the NYSDEC issued a December 1994 Record of Decision (ROD), a June 2009 ROD Amendment, and a 2021 ROD Amendment (AROD). In December 2014, EPT transferred the property to EMERSUB 15, LLC, a wholly-owned subsidiary of Emerson, in anticipation of the sale of its Power Transmissions Solutions business, of which EPT was a part. In connection with this transaction, the Consent Order was amended to make Emerson the sole respondent responsible for the remediation. In addition, in October 2018 the NYSDEC approved a boundary modification for the Site decreasing the Site size from 94.3 acres to approximately 60 acres (includes Operable Unit [OU]– 1 and OU-2). A figure showing the Site location and boundaries of this Site is provided in Figure 2. The boundaries of the Site are more fully described in the metes and bounds site description that is part of the Environmental Easement provided in Appendix A.

The former manufacturing plant complex is referred to as OU-2; the former Fire Water Reservoir (FWR) located immediately west of the main plant is referred to as OU-1 (see Figure 2). The owners of the Site parcels at the time of issuance of this PRR are:

- 1 OU-1 – EMERSUB 15, LLC, a wholly owned subsidiary of Emerson.
- 2 OU-2 – As of December 2022, L ENTERPRISES, LLC or a related entity.

The specific responsibilities of the owner of OU-2 and the Remedial Party with respect to OU-1 are set forth in Appendix B.

1.1 SITE SUMMARY

Investigations documented in the Phase II Supplemental Remedial Investigation Report (SRI) performed at the Site from 1987 through 2017 identified the following:

- Affected soil containing chlorinated volatile organic compounds (CVOCs), barium, chromium, cadmium, copper, nickel, arsenic, lead, mercury, cyanide, polychlorinated biphenyls, polycyclic aromatic hydrocarbons (PAHs)
- Affected groundwater containing CVOCs, barium, and cyanide
- Groundwater seeps containing CVOCs
- Sub-slab vapor and indoor air containing CVOCs
- Non-aqueous phase liquid (NAPL)

The selected remedy described in the 2020 Feasibility Study (FS) required the following actions:

- Site-wide contaminants of concern (COCs) in soil – Source removal and cap/cover installation as Soil Interim Remedial Measures (IRM)
- Site-wide CVOCs in groundwater – Semi-annual groundwater monitoring
- Area of Concern (AOC) 1 CVOCs in groundwater – Expansion of existing DPE System into AOC 1
- Site-wide barium in groundwater – Semi-annual groundwater monitoring
- Site-wide cyanide in groundwater – Semi-annual groundwater monitoring
- Seep COCs – Collection and treatment or rerouting seeps – Building 24, Weir Box Seeps, and Retaining Wall Sump
- Site-wide NAPL – Monitoring and active/passive recovery

- Soil vapor intrusion – Mitigation based on future occupancy of the buildings

Remediation and monitoring activities completed at the Site include the following:

- Soil IRM activities
- Installation and ongoing operation of a Dual Phase Extraction (DPE) and Treatment System for vapor and groundwater in bedrock
- Quarterly monitoring and passive recovery of NAPL

Future remediation activities planned for the Site include the following:

- Expansion of existing DPE and Treatment System to address CVOCs in AOC 1
- Active or passive recovery of Site-wide NAPL
- Rerouting of the three seeps – Building 24, Weir Box Seeps, and Retaining Wall Sump
- Soil vapor intrusion mitigation based on future occupancy of the buildings

Ongoing monitoring activities planned for the Site and documented in the ISMP include the following:

- Semi-annual groundwater monitoring for Site-wide CVOCs in groundwater
- Semi-annual groundwater monitoring for Site-wide barium in groundwater
- Semi-annual groundwater monitoring for Site-wide cyanide in groundwater
- NAPL monitoring in areas of the Site where NAPL has been identified
- DPE and Treatment system monitoring in accordance with the Operations and Maintenance (O&M) Plan

On completion of the activities described above, remaining contamination on the property will consist of the following:

- CVOCs, arsenic, barium, and PAHs in soil onsite
- CVOCs, barium, and cyanide in Site-wide groundwater
- CVOCs in seeps and AOC 1 groundwater
- CVOCs in sub-slab soil gas
- NAPL in Site wells

Institutional Controls and Engineering Controls (ICs and ECs) have been incorporated into the remedy for the Site to control exposure to remaining contamination and ensure protection of public health and the environment. An Environmental Easement (Appendix A) recorded with the Tompkins County Clerk, requires the property owner to comply with the ISMP and all ICs and ECs placed on the Site until the Environmental Easement is extinguished.

1.2 EFFECTIVENESS OF THE REMEDIAL PROGRAM

1.2.1 SOIL IRM ACTIVITIES

Soil IRM activities were performed in 2018 and 2019 in accordance with an IRM Work Plan. Source removal was specified for nine AOCs (AOCs 26, 27, 28, 29, 30, 31, 32, 34, 35A, 35C, 35D, 35G, 35H, 35K and 35L) followed by soil cover installation where soil containing COC concentrations above applicable Soil Cleanup Objectives (SCOs) remained on site (AOCs 28, 29, 30, 31, 32, 34, 35A, 35D, 35H, 35K, and 35L). Source containment (capping) was performed in AOC 1 after source removal to a depth of 3 feet.

The cap and cover system continues to prevent direct contact with contaminated soil, prevent inhalation of contaminants volatilizing from the soil, and prevent migration of contaminants that could result in groundwater or surface water contamination. There were no excavations or penetrations in the cap and cover system during 2023.

1.2.2 DUAL PHASE EXTRACTION AND TREATMENT SYSTEM

Active remediation at the Site consists of operating and maintaining a DPE and Treatment System consisting of 10 wells, 9 are aligned in a north-south direction downgradient of and below the FWR to the west, and 1 well is located just south of the FWR. Four wells were installed in the highly fractured B-zone and the upper C-zone. The remaining six DPE wells were installed in the C-zone primarily to intercept and contain impacted groundwater in the lower portion of the C-zone. Additional investigations in OU-1 found that the high concentrations of CVOCs in groundwater within two bedding plane fractures underlying the reservoir at 550 and 544 feet above mean sea level (amsl) and a deeper bedding plane fracture at 515 feet amsl, were the primary migration pathways for affected groundwater. Based on these findings, three new recovery wells targeting these bedding plane fractures were added to the DEP System in 2015. After one of the recovery wells was abandoned, the DPE and Treatment System currently consists of a total of 12 extraction wells.

The existing DPE System continues to operate to reduce the mass of VOCs in groundwater. Two additional extraction wells, EW-13 and EW-14, were installed in 2023 as part of the DPE System expansion into AOC 1. These wells are planned for connection to the DPE System later in 2024.

1.2.3 NON-AQUEOUS PHASE LIQUID RECOVERY

NAPL monitoring began in December 2009 and recovery began in January 2010. Passive NAPL recovery using absorbents is conducted quarterly for groundwater wells that contain free product. Since initiation approximately 66 gallons of NAPL has been recovered through December 31, 2023. Recovered NAPL and associated sorbent socks are placed in 55-gallon Department of Transportation (DOT) compliant steel drums for offsite disposal. The existing NAPL recovery activities continue to reduce the volume of NAPL present in Site wells.

1.3 COMPLIANCE

No deficiencies were identified with respect to compliance with the ISMP for the Site; therefore, no corrective actions are required at this time.

1.4 RECOMMENDATIONS

WSP does not recommend changing the frequency of PRR submittals. In addition, no modifications are recommended to the ICs and ECs, or the O&M Plan.

2 SITE OVERVIEW

2.1 SITE LOCATION AND DESCRIPTION

The Site is located in Ithaca, Tompkins County, New York and is identified as Section 92 Block 8 and Lot P/O 106.-1-8 and Section 106 Block 1 and Lot 8 on the city of Ithaca Tax Map; and Section 40 Block 3 and Lot 3 on the town of Ithaca Tax Map. The Site is an approximately 60-acre area and is bounded by residential neighborhoods to the north, undeveloped, steep woodlands to the south, South Aurora Street to the east, and undeveloped, steep woodlands and ultimately West Spencer Street to the west (see Figure 2). The former manufacturing plant complex is referred to as OU-2; the former FWR located immediately west of the main plant is referred to as OU-1 (see Figure 2). The boundaries of the Site are more fully described in Appendix A – Environmental Easement. The owners of the Site parcels at the time of issuance of this PRR are:

- 1 OU-1 - EMERSUB 15, LLC, a wholly owned subsidiary of Emerson.
 - 2 OU-2 – As of December 2022, L ENTERPRISES, LLC or a related entity.
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2.2 SITE HISTORY

The facility was founded in 1906 by Morse Industrial Corporation, manufacturer of steel roller chain for the automobile industry. Morse operated the facility until approximately 1928 when it was bought by Borg-Warner Corporation, manufacturer of automotive components and power transmission equipment. In 1983, Emerson acquired Borg-Warner. As a result, the Ithaca facility eventually became part of the former EPT, a wholly owned subsidiary of Emerson and part of Emerson's Power Transmission Solutions business. EPT continued to manufacture industrial roller chain, bearings, and clutching for the power transmission industry until operations ceased in 2009. The facility was subsequently decommissioned and has been vacant since 2011. In December 2014, Emerson transferred the property to EMERSUB 15, LLC, a wholly owned subsidiary of Emerson, in anticipation of the sale of Emerson Power Transmission Solutions business.

Up until the late 1970s, Borg-Warner used trichloroethene (TCE), a common solvent at the time, for cleaning and degreasing metal parts. An estimated 60 metal piercing and clanking machines were in operation from the early 1950s to 1977. Additional operations included metal finishing, plating, pickling, and salt bath quenching utilizing barium chloride and cyanide salts.

2.3 SUMMARY OF INVESTIGATION AND REMEDIATION ACTIVITIES

The following narrative provides a brief summary of the investigation and remediation history for the Site.

In 1987, groundwater containing elevated concentrations of volatile organic compounds (VOCs), specifically CVOCs, was discovered, originating from the FWR (OU-1) in the western portion of the property. Subsequent to reporting these findings to NYSDEC, Emerson and EPT entered into a Consent Order with the NYSDEC (Index No. A7-0125-87-09) requiring Emerson to develop and implement a Remedial Investigation and Feasibility Study (RI/FS) followed by a remedial program to address the release of hazardous substances to the environment. The RI Report was completed by Radian Corporation (later Radian International LLC) in 1990. A groundwater pump and treat system was installed as an IRM to address VOC-affected groundwater near the FWR; operation began in late 1991. In 1994, the FS completed by Radian proposed a dual-phase groundwater extraction and treatment system as the remedial alternative based on testing that indicated such a system would outperform the existing IRM. The alternative was approved by NYSDEC and detailed in the 1994 ROD. The DPE and Treatment system began operating in 1996.

Based on the results of a SRI and Alternatives Analysis performed between 2004 and 2008, NYSDEC issued a ROD Amendment in 2009 addressing three areas presently classified as OUs: the former FWR (OU-1), the remainder of the

property (OU-2), and the South Hill neighborhood to the north (OU-3). The limits of OU-1 and OU-2 are shown in Figure 2. Descriptions of OU-1 and OU-2 and their regulatory status are summarized below. OU-3 is not addressed in this PRR.

2.3.1 OU-1

Subsequent to the 2009 ROD Amendment, a variety of activities have occurred in OU-1 including decommissioning the FWR; evaluating the potential presence of NAPL below the FWR; removal of NAPL since 2010; and upgrading the DPE and Treatment system. EMERSUB 15, LLC retained ownership of that portion of the property coterminous with OU-1.

The existing DPE and Treatment System (as upgraded in 2009) consisted of 10 wells, 9 of which were aligned in a north-south direction downgradient of the FWR to the west, and 1 well was immediately south of the FWR (EW-9-86C). Of the 10 DPE wells, four wells (EW-4-25B, EW-5-25B, EW-7-25B, and EW-10-25B) were installed in the highly fractured B-zone and the upper C-zone. The remaining six DPE wells (EW-1-62C, EW-2-62C, EW-3-60C, EW-6-60C, EW-8-62C, and EW-9-86C) were installed in the C-zone primarily to intercept and contain impacted groundwater in the lower portion of the C-zone. The OU-1 Groundwater DPE and Treatment System is a component of the final remedy for the Site.

Following the 2009 ROD Amendment, several additional investigations were completed in OU-1. The findings indicated that the highest concentrations of CVOCs in groundwater occurred within two bedding plane fractures underlying the reservoir at 550 and 544 feet amsl. These bedding plane fractures, as well as a deeper bedding plane fracture at 515 feet amsl, were identified as the primary migration pathways for affected groundwater. The pre-2009 system largely addressed these same intervals. In June 2015, the DPE and Treatment System was modified and enhanced to remove one and add three additional extraction points, (abandoning EW-9-86C and installing EW-9R-72C, EW-11-43C, and EW-12-45C) targeting the bedding plane fractures. The DPE and Treatment System currently consists of 12 extraction points.

2.3.2 OU-2

OU-2 includes several AOCs, including AOC 1, the Former Department 507 Degreaser in Building 4, where soil and groundwater affected by CVOCs were identified and delineated over the course of several investigations. At the request of NYSDEC, WSP's Phase II SRI Report, dated August 5, 2016, included summary information for this area. Much of the remainder of OU-2 was subject to soil, soil vapor, and groundwater investigations as part of the Phase II SRI. WSP's IRM Work Plan, dated August 8, 2018, was developed to address shallow soil via excavation with offsite disposal in the former degreaser area as well as other AOCs in OU-2 to reduce potential migration of COCs to groundwater. Ownership of OU-2 was conveyed to L ENTERPRISES, LLC in December 2022.

A sanitary sewer line was initially constructed across a portion of the Site to serve the former NCR facility to the south. The line extends approximately 2,700 feet from the southern property boundary to the north-northeast across OU-2 and connects to the main city sewer line on South Aurora Street (Figure 2). The line lies within two easements previously granted to NCR by Morse Chain Company. Another easement for a lateral to the NCR sewer line benefits Ithaca College. The original easements extended 10 feet from the center line, for a total width of 20 feet.

In October 2018, the NYSDEC approved a boundary modification by Emerson to remove 34.34 acres of undeveloped land in the southern portion of the property from the area subject to the Order on Consent, the Administrative ROD, and the Registry of Inactive Hazardous Waste Sites. A condition to the boundary modification was the filing of a deed restriction requiring soil vapor assessments prior to any habitable structures being connected to or being constructed within 40 feet from the centerline on either side of the sewer running from the former NCR property and the Ithaca College lateral (Appendix C). The New York State Department of Health (NYSDOH) requested the restriction to account for potential vapor intrusion. The deed restriction was filed and recorded on September 6, 2018. As shown in Figure 2, the southern portion of the sewer, sewer lateral, and undeveloped land are no longer within the limits of Site No. 755010.

Residual source materials were removed from several sanitary sewer manholes and two trench systems within the buildings in 2017. The cleanout was accomplished by physical means (shovel, breaker bars, scrapers, etc.) followed by final removal by high vacuum. The use of water to remove solid residuals from manholes was minimized by temporary plugging to prevent solid residuals and wash water from being discharged to the sanitary sewer system. As described below, additional sewer line investigation and removal of sewer residuals, sewer lines, and manholes was performed as part of the Soil IRM activities in 2018 and 2019.

The final IRM Work Plan for soils was submitted to and approved by the NYSDEC in August 2018. The primary objectives of the work plan were to remediate soil in OU-2 to meet applicable SCOs and to facilitate future use of the property consistent with L Enterprises, LLC redevelopment plans. The IRM activities were completed in August 2019 and the Soil IRM Construction Completion Report was submitted to NYSDEC in October 2020. The OU-2 Soil IRM is a component of the final remedy for the Site while providing for the removal of sources to groundwater contamination. The AOCs addressed during the Soil IRM activities and the SCOs (direct contact or protection of groundwater [PoG]) are summarized in Table 1.

Approximately 4,550 cubic yards of soil were excavated during the Soil IRM activities. The general components associated with the IRM included the following:

- Site preparation activities (e.g., utility locating, clearing, erosion and sedimentation controls, pavement removal)
- Excavation of affected soil (depths varied depending on the SCOs and depth to bedrock)
- Confirmation and documentation sampling
- Offsite disposal of excavated soil consistent with waste disposal characterization results
- Installation of demarcation layer where affected soil remains
- Backfilling excavations with clean fill from off-site sources
- Installation of an engineered cap at AOC 1 to reduce infiltration through affected soil that will remain in place
- Restoration of the cover consistent with historical cover or in anticipation of future use.

At the request of NYSDEC, the IRM work incorporated actions to further address portions of the sanitary sewer network inside the facility, including:

- investigation of soil conditions below the invert elevations of the sewer pipe at select locations
- removal of sewer lines and manholes in which barium was detected at concentrations above the PoG SCO
- vacuuming of residuals from the exposed bedrock pipe traces and manhole areas
- placing flowable fill in the excavation cavity and the sewer line trench to minimize infiltration.

2.4 REMEDIAL OBJECTIVES

The Remedial Action Objectives (RAOs) for the Site as listed in the AROD dated September 2021 are as follows:

Groundwater

RAOs for Public Health Protection

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

RAOs for Environmental Protection

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

Soil

RAOs for Public Health Protection

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

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

Soil Vapor

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from the potential for soil vapor intrusion into existing or future buildings at the site.

2.5 SELECTED REMEDY

The FS dated August 12, 2020, detailed the selected remedy for the Site that included the following components:

- Site-wide COCs in Soil – Address during execution of the Soil IRM activities by source removal (excavation and offsite disposal) in nine AOCs (AOCs 26, 27, 28, 29, 30, 31, 32, 34, and 35) and source containment (capping) in AOC 1
- Site-wide CVOCs in groundwater – Semi-annual groundwater monitoring
- AOC 1 CVOCs in groundwater – Expansion of existing DPE System into AOC 1
- Site-wide barium in groundwater – Semi-annual groundwater monitoring
- Site-wide cyanide in groundwater – Semi-annual groundwater monitoring
- Seep COCs – Rerouting seeps – Building 24, Weir Box Seeps, and Retaining Wall Sump
- Site-wide NAPL – Monitoring and active/passive recovery
- Soil vapor intrusion – Mitigation based on future occupancy of the buildings

2.6 CHANGES TO THE SELECTED REMEDY

There were no changes to the selected remedy during the reporting period of January 1 through December 31, 2023.

3 EVALUATION OF REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

Remediation at the Site consists of the completed Soil IRM activities and operating and maintaining the DPE and Treatment System and passive NAPL recovery in select monitoring wells. Progress was made toward achieving the RAOs as described in the following sections.

3.1 SOIL

The cap and cover system continue to prevent direct contact with contaminated soil, prevent inhalation of contaminants volatilizing from the soil, and prevent migration of contaminants to groundwater or surface water.

3.2 DPE AND TREATMENT SYSTEM

The existing DPE and Treatment System continues to operate to reduce the mass of VOCs in groundwater:

- From July 1996 to August 27, 2008, the 2-Phase™ extraction system removed approximately 420 pounds of total VOCs.
 - Between January 20, 2009, and December 31, 2022, the DPE and Treatment System removed approximately 192.4 pounds of total CVOCs from the aqueous phase and 4,592.5 pounds of total CVOCs from the vapor phase.
 - During the current reporting period (January 1, 2023, through December 31, 2023), the DPE and Treatment System removed approximately 5.69 pounds of total CVOCs from the aqueous phase and 13.1 pounds of total CVOCs from the vapor phase.
-

3.3 NAPL

The existing NAPL recovery activities continue to reduce the volume of NAPL present in select Site wells:

- Between December 2009 and December 31, 2022, approximately 63 gallons of NAPL were removed from select Site wells.
- During the current reporting period (January 1 through December 31, 2023), approximately 3.6 gallons of NAPL were removed from select Site wells.
 - MW-8B: 0.83 gallons in the reporting period and 21 gallons since inception (August 2016).
 - LBA-MW-35: 0.86 gallons in the reporting period and 15 gallons since inception (October 2018).
 - LBA-MW-39: 0.57 gallons in the reporting period and 8 gallons since inception (October 2018).
 - MW-47A: 1.02 gallons in the reporting period and 2 gallons since inception (September 2022).
 - LBA-MW-08: 0.17 gallons since inception (August 2023).
 - LBA-MW-18: 0.13 gallons since inception (August 2023).
 - HISTWELL-1: 20 gallons between January 2016 and June 2021

4 IC/EC PLAN COMPLIANCE REPORT

4.1 REQUIREMENTS AND COMPLIANCE

Because contamination remains at the Site, ICs and ECs are required to protect human health and the environment. The IC/EC Plan describes the procedures for the implementation and management of all ICs and ECs at the site. The IC/EC Plan is a component of the ISMP and is subject to revision by the NYSDEC project manager.

This plan provides:

- A description of all IC/ECs on the Site;
 - The basic implementation and intended role of each IC/EC;
 - A description of the key components of the ICs set forth in the Environmental Easement;
 - A description of the controls to be evaluated during each required inspection and periodic review;
 - A description of plans and procedures to be followed for implementation of IC/ECs; and
 - Any other provisions necessary to identify or establish methods for implementing the IC/ECs required by the site remedy, as determined by the NYSDEC project manager.
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4.1.1 INSTITUTIONAL CONTROLS

A series of ICs is required by the AROD to: (1) implement, maintain and monitor Engineering Control systems; (2) prevent future exposure to remaining contamination; and (3) limit the use and development of the Site to restricted residential, commercial, and/or industrial uses only. Adherence to these ICs on the Site is required by the Environmental Easement and ISMP. ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement.

- The property may be used for: restricted residential; commercial, and/or industrial uses as outlined on Figure 3;
- All ECs must be operated and maintained as specified in the ISMP;
- All ECs must be inspected at a frequency and in a manner defined in the ISMP;
- The use of groundwater underlying the property is restricted as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or the Tompkins County Department of Health;
- Groundwater and other environmental or public health monitoring must be performed as defined in the ISMP;
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in the ISMP;
- All future activities that will disturb remaining contaminated material must be conducted in accordance with the ISMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the ISMP;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in the ISMP;
- Access to the Site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement;
- The potential for soil vapor intrusion must be evaluated for any occupied buildings, existing or new, within the IC boundaries noted on Figure 4, and any potential impacts that are identified must be monitored or mitigated;
- Vegetable gardens shall be performed in raised beds following approval of the NYSDEC. Farming on the Site is prohibited, unless indoors such as a hydroponic growing operation;
- Should a building foundation or building slab be removed in the future, a cover system will be placed in any areas where the upper two feet of exposed surface soil exceed the applicable SCOs in the restricted residential area of the Site, and the upper 1 foot of exposed soil exceeds the applicable SCO in the commercial and industrial areas of the Site;

- Complete and submit to the NYSDEC a periodic certification of ICs and ECs in accordance with Part 375-1.8 (h)(3); and
- An evaluation shall be performed to determine the need for further investigation and remediation should large scale redevelopment occur, if any of the existing structures are demolished, or if the subsurface is otherwise made accessible. If new areas of contamination are identified after demolition of existing structures and/or removal of building slabs, the nature and extent of contamination in such areas where access was previously limited or unavailable will be immediately and thoroughly investigated pursuant to either an amended Excavation Work Plan or another NYSDEC-approved work plan. Citizen Participation Plan activities will continue, as necessary, through this process. Any required remediation will be completed prior to or in association with redevelopment.

A site-wide inspection was performed on April 11, 2023, to evaluate compliance with the ICs, including site use, to document the general site conditions at the time of the inspection and to evaluate compliance with requirements of the ISMP and the Environmental Easement. The results of the annual inspection are documented on the Annual Site-Wide Inspection Form (Appendix D).

Based on the results of the site inspection, the ICs are in place and have been complied with, including compliance with the Environmental Easement and the ISMP. No deficiencies were identified with respect to the ICs, and no changes to the ICs are recommended at this time.

4.1.2 ENGINEERING CONTROLS

The ECs included in the ISMP for the Site consist of cap and cover systems, DPE and Treatment System, NAPL monitoring and recovery, sub-slab depressurization system(s), and re-routing and monitoring of groundwater seeps.

CAP AND COVER SYSTEMS

A cover system, installed in AOCs where soil remained above direct contact SCOs (restricted residential, commercial, industrial), is comprised of a minimum of 2 feet of clean fill in AOCs designated for future restricted residential use (AOCs 31, 32, 34, 35A, 35D, 35H, 35K, and 35L), and 1 foot of clean fill in AOCs designated for future commercial use (AOCs 28 and 29) and industrial use (AOC 30). The cover system is comprised of imported backfill (NYSDOT Item 4 gravel) installed to a depth of 6 inches below the original ground surface followed by imported topsoil to the original ground surface, with the exception of AOC 29 which did not receive topsoil based on plans for redevelopment as a paved parking lot. A demarcation layer was installed across the base of the excavations that were not excavated to bedrock before backfilling (AOCs 29, 30, 31, 32, 34, 35A, 35D, 35H, 35K, and 35L).

Portions of existing concrete and asphalt roadways serve as cover systems above remaining contamination in several AOCs. In AOCs 29, 31, 32, 34, 35A, and 35H, the asphalt roadway serves as a cover where documentation samples exceeded direct contact SCOs for metals, cyanide, or PAHs. In AOC 35C, the concrete slab in Building 11A serves as a cover where documentation samples exceeded the direct contact SCO for PAHs. In general, no excavation was performed below concrete or asphalt in which soil exceeded restricted residential, commercial, or industrial SCOs.

A low-permeability cap was installed in AOC 1 where soil remained at concentrations above the PoG SCO for CVOCs after excavation to a depth of 3 feet. The cap was designed to minimize infiltration and potential migration of CVOCs in deeper soils that could not be safely excavated during the Soil IRM activities due to the presence of active utilities (water, gas, electric, and storm/sanitary sewers). Following completion of excavation and sampling, a demarcation layer was installed across the base of the excavation in AOC 1 at a depth of 3 feet below ground surface (bgs). The excavation was backfilled with imported backfill (NYSDOT Item 4 gravel) that was placed and compacted to a depth of 1 foot bgs, followed by installation of a low-permeability cap consisting of a geosynthetic clay liner, 6 inches of aggregate base, and a 6-inch thickness of asphalt pavement. The asphalt consisted of 4 inches of asphalt base course and 2 inches of asphalt wearing course separated by a geotextile interlay to minimize the potential for cracking.

During the annual site inspection performed on April 11, 2023, the cap and cover systems were evaluated for continued effectiveness. The results of the annual inspection are documented in Section 2A of the Annual Site-Wide Inspection Form (Appendix D). During the inspection, the topsoil/vegetation, gravel/riprap, and asphalt pavements comprising the cover systems appeared to be in good condition. No cracks or other penetrations were observed in the asphalt that comprises the top layer of the AOC 1 cap. No excavation activities or evidence of other disturbance were observed within the cap or cover system areas during the reporting period. In addition, no excavations or disturbances were observed during subsequent Site visits by WSP staff (i.e., routine site work, groundwater sampling events, etc.) through the end of 2023.

The cap and cover systems continue to perform as designed and remain effective in protecting human health and the environment. No deficiencies were identified with respect to the cap and cover systems and no changes to the cap and cover systems are recommended at this time.

DPE AND TREATMENT SYSTEM

A DPE and Treatment System began operating in OU-1 in January 2009, and was expanded in 2015 as an IRM to remove VOCs from vapor and groundwater below the former FWR (Figure 5). The System was designed to meet the following objectives:

- intercept contaminated groundwater flow from the highly fractured and interconnected bedrock (B-zone) and from the horizontal bedding plane fractures at the base of the C-zone between 515 and 518 feet amsl.
- reduce the concentrations of VOCs in the subsurface by extracting both aqueous and vapor phases for treatment.

The system currently consists of 12 groundwater and vapor extraction wells containing pneumatic pumps to recover groundwater. An air compressor located in the treatment building supplies pressurized air to the pneumatic pumps that facilitates removal of groundwater from the extraction wells. The air exhaust tube is vented to the vapor recovery system within the extraction well. Groundwater pumped from the wells is conveyed to a 1,000-gallon equalization holding tank located inside the treatment building. Once the equalization tank fills to approximately 850 gallons, the water is pumped through a series of six bag filters to eliminate suspended solids. Following the bag filtration units, the water is conveyed to a low-profile tray air stripper equipped with a sump, discharge pump, and blower. After treatment by the low-profile tray air stripper, the water is pumped through two 250-pound liquid phase granular activated carbon (GAC) units. In addition, the vapor stream from the air stripper is treated by two vessels of vapor phase GAC in series before being discharged to the atmosphere. The treated water effluent is then discharged via a 4-inch diameter pipe to the weir box where it combines with Open Ditch 2 water and discharges to existing Outfall No. 001 in accordance with the State Pollutant Discharge Elimination System (SPDES) permit equivalent (Appendix E).

The groundwater remedy for AOC 1 CVOCs consists of additional extraction and expansion of the existing OU-1 DPE and Treatment System into AOC 1. Two B-zone extraction wells (EW-13 and EW-14) were installed in December 2022. A conveyance system, along with other ancillary components, will be installed during the remedial action implementation in 2024.

The results of the annual inspection are documented in Section 2B of the Annual Site-Wide Inspection Form (Appendix D). Overall, the annual inspection and DPE and Treatment System monitoring events indicated that the DPE and Treatment System was performing as designed and appeared to be well-maintained.

NAPL MONITORING AND RECOVERY

Passive free product recovery is performed in wells where NAPL was identified. NAPL monitoring and recovery is performed for groundwater wells that are known to contain free product which include:

- MW-8B: Initiated in August 2016.
- LBA-MW-35 and LBA-MW-39: Initiated in October 2018.
- MW-47A: Initiated September 2022.
- LBA-MW-08 and LBA-MW-18: Initiated in August 2023.

Free product surveillance monitoring in AOC 1 wells MW-47A-AOC-1, MW-48A-AOC-1, and MW-49A-AOC-1 began in October 2019. No free product was detected in these wells until the week of September 19, 2022, when free product was detected in one well, MW-47A-AOC-1, while evaluating water levels. After NYSDEC notification, surveillance monitoring of MW-47A-AOC-1 resumed and passive recovery was initiated using absorbent socks.

In accordance with the Buildings 3 and 4 Non-Aqueous Phase Liquid (NAPL) Observation Well Work Plan (February 2024), four free product observation wells (OW-1, OW-2, OW-3, and OW-4) were installed on February 27 and February 28, 2023 in Building 9, behind the eastern wall of Buildings 3 and Building 4. Free product was monitored weekly for approximately one month on March 1, March 8, March 14, March 20, March 30, April 14, and December 6. During these measurement dates, no measurable free product were observed in any of the observation wells.

SUB-SLAB VAPOR AND INDOOR AIR

Sub-slab soil vapor and indoor air samples were collected in March 2023 from onsite buildings in OU-2. The samples were collected in accordance with the OU-2 *Vapor Intrusion Assessment Work Plan – Revised*, dated March 6, 2023, and approved by NYSDEC on March 8, 2023. The results were provided in the *Onsite Buildings Vapor Intrusion Sampling Results* report dated May 23, 2023. The report provided a summary of the sample collection methods, analytical results, a comparison of the results to the NYSDOH soil vapor intrusion decision matrices, and a comparison to previous sampling results collected between 2005 and 2013. The results of the March 2023 sampling event are provided in Figure 4. In addition, the figure provides an updated status regarding no further action, identify sources and resample, or mitigate; monitor; and mitigate. Additional testing will be conducted in the future based on planned renovation timeframes for each building.

SUB-SLAB DEPRESSURIZATION SYSTEM

While there are no existing active sub-slab depressurization systems operating at the Site, the AROD requires mitigation of impacts from the potential for soil vapor intrusion into existing or future buildings onsite before they become occupied.

The first floor of Building 1 is the only building that was intermittently occupied by the property management and development staff. Based on the results of the vapor intrusion sampling conducted in the basement and first floor of Building 1, it was determined that passive mitigation measures should be implemented. Between September 6 and September 15, 2023, the basement floor in Building 1 was cleaned of debris, and floor cracks were sealed with a polyurethane sealant. In addition, holes in the walls were sealed with an expanding foam spray sealant. An additional round of indoor air sampling to assess the effectiveness of the passive remedy is planned for 2024.

A heating, ventilation, and air conditioning (HVAC) study in Building 1 was planned for the first quarter of 2024 to determine if building pressurization through management of HVAC controls could be an effective tool for vapor intrusion. The results of the HVAC study will be included in the 2024 PRR.

Between January 1 and December 31, 2023, no other buildings were occupied.

GROUNDWATER SEEPS

A pre-design study was performed to develop the final remedy to address the groundwater seeps (Building 24 Seep, Weir Box Seeps, and Retaining Wall Seeps). The pre-design study report dated June 23, 2023 included recommendations for the final remedy as follows.

- Building 24 Seep – provide containment at the point of exit from the building, re-routing underground to CB-03 for subsequent discharge/conveyance to the 30-inch CMP pipe which flows to Open ditch 1, Open ditch 1 Bypass, and Outfall 011.
- Weir Box Seeps – re-route discharge from the seeps to the weir box to combine flow with Outfall 001
- Retaining Wall Sump – re-route discharge from the seeps to the weir box to combine flow with Outfall 001

The selected remedies for the seeps were approved by the NYSDEC in a letter dated September 12, 2023. A Remedial Action Work Plan Addendum is planned for submittal in mid-2024 with remedy implementation planned for the fall of 2024.

4.2 GENERATED WASTES

Waste generated at the Site during this reporting period includes:

- 1 drum of drill cuttings from AOC 1 monitoring and extraction wells
- 16 drums of CVOC well development water from AOC 1 soil borings
- 2 drums of personal protective equipment and plastic tubing from groundwater sampling activities
- 2 drums of spent granular activated carbon from the DPE and Treatment System
- 3 drums of drill cuttings from the OW-1 to OW-4 NAPL observation wells

The hazardous waste manifests and land disposal restriction notification form are included in Appendix F.

4.3 IC/EC CERTIFICATION

The IC/EC Certification Form is provided in Appendix G.

5 MONITORING PLAN COMPLIANCE REPORT

5.1 MONITORING PLAN COMPONENTS

Monitoring activities were completed during the reporting period in accordance with the ISMP, with any exceptions discussed under Section 5.2. A summary of the monitoring program is presented below:

Monitoring Program	Frequency	Monitored
Site-wide Inspection	Annually	Overall Site Conditions and IC and EC Compliance
DPE and Treatment System System Performance Monitoring	Monthly and Quarterly	ISMP Appendix H - O&M on the DPE and Treatment System is performed monthly and the DPE System is sampled quarterly
Groundwater Monitoring	Semiannual and Annual	ISMP Appendix J – Extraction wells sampled annually, and monitoring wells sampled semiannually
NAPL Monitoring and Recovery	Quarterly	MW-8B, LBA-MW-08, LBA-MW-18, LBA-MW-39, LBA-MW-35, MW-47A-AOC-1
Site-wide Groundwater Monitoring	Annual	ISMP Appendix J
SPDES Permit Equivalent Outfalls	Monthly and Quarterly	ISMP Appendix I

5.2 MONITORING COMPLETED DURING REPORTING PERIOD

5.2.1 SITE-WIDE INSPECTION

As discussed under the IC/EC Compliance Report (Section 4 of this PRR), a site-wide inspection was performed on April 11, 2023, to verify compliance with the ICs and to evaluate the continued effectiveness of the ECs. The results of the annual inspection are described under Section 4 of this PRR and are documented on the Annual Site-Wide Inspection Form (Appendix D).

5.2.2 DPE AND TREATMENT SYSTEM

PERFORMANCE MONITORING AND MAINTENANCE

General operation of the DPE and Treatment System is monitored daily by WSP through a remote telemetry system. The remote telemetry system allows WSP to immediately act if there is a System upset condition where non-routine maintenance

is required. In addition, the DPE and Treatment System is maintained monthly by a subcontractor in accordance with the ISMP DPE System O&M Plan. Monthly maintenance activities in 2023 occurred on January 3, February 1, March 2, April 21, May 15, June 9, July 19, August 18, September 21, October 5, November 6, and December 8.

During the annual monitoring event, the DPE and Treatment System was shut down between April 14 and April 17 to measure water levels. This shutdown event accounted for approximately 72 hours of planned shutdown time.

The level of performance of the DPE and Treatment System is determined from the System operations and on the results of influent and effluent water and vapor sampling and analysis. The results of the quarterly performance samples collected on February 24, June 29, August 16, and October 4, 2023 are discussed in the following subsections. Note that influent and effluent vapor samples were not collected during the second quarter event on June 29 due to the System blower being down for replacement. The DPE and Treatment System operational issues and corrective measures implemented during the reporting period are also discussed below.

OPERATING RESULTS

Operational parameters including system uptime and influent and effluent mass loadings are calculated using flow rates, motor hour readings, and sample results. These parameters are used to determine system effectiveness and efficiency. The following bullets summarize system performance for the reporting period of January 1 through December 31, 2023:

- System maintenance was required during the reporting period and the vapor phase portion of the DPE and Treatment System was operational for 62 percent of the reporting period (Table 2).
- The vapor phase portion operated for a total of 5,445 hours with 3,315 hours of downtime for planned/unplanned maintenance and sampling activities during the reporting period (Table 2).
- The system extracted a total of 185,240 gallons of groundwater at an average pumping rate of 0.35 gallons per minute (approximately 506 gallons per day) over the reporting period (Table 3). The total estimated VOC mass removal from the aqueous phase was approximately 5.69 pounds (Table 3) over the reporting period.
- Five site-related CVOCs were detected in influent water samples during the reporting period including 1,1-Dichloroethene (DCE), Vinyl Chloride, TCE, trans-1,2-DCE, and cis-1,2-DCE (Table 4).
- The system extracted an estimated total of 8.58×10^7 standard cubic feet of vapor based on an average system flow capacity of 260 standard cubic feet per minute over the operating duration. The total estimated VOC mass removal from the vapor phase (sum of individual VOC compounds detected in the vapor stream) for this reporting period was approximately 13.1 pounds (Table 5).
- Six site-related CVOCs were detected in the influent vapor samples during the reporting period including 1,1-DCE, Vinyl Chloride, TCE, Tetrachloroethene (PCE), trans-1,2-DCE, and cis-1,2-DCE (Table 6).
- Since the start of the ISMP DPE and Treatment System on October 7, 2022, approximately 19.2 pounds of VOCs have been removed from the combined aqueous and vapor phases. To date, approximately 6.0 pounds have been removed from aqueous phase extraction and 13.2 pounds from vapor phase extraction.
- The analytical laboratory reports are included in Appendix H.

PREVENTATIVE MAINTENANCE

Planned operational shutdowns included routine O&M conducted by subcontractor Groundwater and Environmental Services, Inc. (GES) and WSP which corresponded to a total planned downtime of approximately 21 hours (Table 2).

Between April 21 and April 23, the liquid phase granular activated carbon in the lead carbon vessels was replaced, and the order of the vessels was switched so the new carbon is now the second vessel. The granular activated carbon consists of TIGG™ 5DC 0830 NSF, a virgin liquid phase coconut-based activated carbon. The spent carbon was placed in two drums for offsite disposal (Section 4.2).

Between September 6 and September 15, the extraction well pumps were pulled from each extraction well and serviced. In addition, during this time each extraction well was cleaned and redeveloped. Cleaning of the extraction wells, extraction well redevelopment, and servicing the pumps accounted for 240 hours of planned shutdown.

DPE AND TREATMENT SYSTEM CORRECTIVE MAINTENANCE AND UNPLANNED SHUTDOWNS

During the reporting period, five unplanned shutdown periods to address two corrective maintenance conditions resulted in a total of 2,982 hours of unplanned system downtime (Table 2). GES performed the corrective maintenance under the direction of WSP. The shutdown periods and maintenance activities include:

- On April 12, the SVE blower failed to operate. The DPE and Treatment System was shut down to replace the blower. Due to a longer-than-expected lead time on obtaining a replacement blower, the blower was replaced on July 13, resulting in a total of 2,208 hours of unplanned downtime. The failed blower was repaired and will be used as a replacement to minimize future downtime.
- Between July 21 and July 31, August 11 and August 15, August 19 and September 21, and October 4 and October 7, multiple alarms related to the aqueous phase air compressor oil sensor occurred. The air compressor oil sensor was replaced during the October event. The issue resulted in 774 hours of unplanned downtime.

DPE AND TREATMENT SYSTEM MONITORING RESULTS

AQUEOUS PHASE SAMPLING

Aqueous phase sampling is conducted on a quarterly basis at four locations along the treatment process – system influent, post-air stripper, mid-point between the two carbon vessels, and post-carbon treatment (effluent discharge location). During the PRR reporting period, quarterly events were conducted in February, June, August, and October 2023. Site-related CVOCs detected in influent water samples during the reporting period include 1,1-DCE, Vinyl Chloride, TCE, trans-1,2-DCE, and cis-1,2-DCE (Table 4). Of the five CVOCs detected, the June sample contained the highest concentrations of 1,1-DCE (10.7 µg/l), cis-1,2-DCE (4,680 µg/l), trans-1,2-DCE (83.6 µg/l), and TCE (2,560 µg/l) while the highest concentration of vinyl chloride was detected in the October sample (190 µg/l). Low levels of cis-1,2-DCE were detected in the system effluent (≤ 4.6 µg/l) in all but the June sample. This compound has historically been observed in the DPE and Treatment System effluent samples.

VAPOR PHASE SAMPLING

Vapor phase sampling is conducted on a quarterly basis at two locations along the treatment process – influent and post-carbon treatment. During the reporting period, vapor samples were collected during February, August, and October 2023. No vapor phase sampling was conducted in June 2023 due to the blower failure described above. CVOCs were detected in the DPE and Treatment System vapor emissions as shown in Table 6; however, the emission concentrations were within the allowable NYSDEC emissions guidance (ISMP, Appendix H – O&M Plan, Appendix H – Guidance for Air Emissions Compliance). The site-related CVOCs detected in the influent vapor samples during the reporting period include 1,1-DCE, Vinyl Chloride, TCE, Tetrachloroethene (PCE), trans-1,2-DCE, and cis-1,2-DCE (Table 6). The highest concentrations were detected in the October sampling event.

WSP used the EPA AERSCREEN model following NYSDEC guidance and selected TCE since it has the most stringent emissions controls. Based on the model, TCE emissions must be equal to or less than 4.4 ppmv from the discharge stack of the treatment system (after carbon treatment). Once the between carbon vessel concentration for TCE exceeds 4.4 ppmv, both vapor carbon vessels will be changed out with new virgin granular activated carbon. The carbon shall be immediately changed if the TCE emissions are equal to or greater than 44 ppmv. During the reporting period, the concentrations of TCE were well below the emissions limits.

DPE SYSTEM EFFECTIVENESS GROUNDWATER MONITORING

Samples were collected from the extraction wells (annually) and from select monitoring wells (semi-annually) to monitor DPE System effectiveness in accordance with the ISMP, Appendix J Monitoring and Sampling Plan. The extraction wells were sampled in April 2023, and the monitoring wells were sampled in April and September 2023 and analyzed for VOCs. Table 7 provides a summary of the wells sampled, the analytical parameters, the monitored zone, and the sampling method. It should be noted that the annual sampling event in 2023 was conducted in the spring; however, beginning in 2024 it will be

conducted in the fall as indicated in Table 7. Wells included in the monitoring program are shown on Figure 6. A summary of the groundwater sampling events follows:

- Groundwater depth measurements taken during the April sampling event as well as the calculated groundwater elevations and drawdowns are presented in Table 8, and shown on Figures 7, 8, and 9. Groundwater depth measurements collected in September 2023 are presented in Table 9 (DPE and Treatment System was off).
- Groundwater sample results are presented in Table 10 for the annual event and Table 11 for the semi-annual event and shown on Figures 10, 11, and 12 for the April event and on Figures 13, 14, and 15 for the September event.
- Historical CVOC results are provided in Table 12.
- The distribution of CVOC-affected groundwater is provided in updated plume diagrams on Figures 16, 17, and 18.
- Trend monitoring graphs (i.e., micromoles vs. time) that present CVOC groundwater results before the remedy implementation compared to the most current sampling results are included in Appendix I.
- The analytical laboratory reports are included in Appendix H, the Data Usability and Summary Reports are included in Appendix J, and monitoring well purge records are included in Appendix K.

The results of the April and September 2023 groundwater sampling events to monitor the effectiveness of the DPE System indicate that the plume of CVOC-affected groundwater continues to be captured by the hydraulic containment system as evidenced by the drawdown maps in Figures 7, 8, and 9. Drawdown measurements (i.e., at EXB-07) collected during pumping conditions have historically shown C-zone capture within the C-zone to B-zone discharge area. Results from MW-32B (25 µg/l CVOCs) and MW-31B (13 µg/l CVOCs) indicate that the C-zone groundwater is discharging to the downgradient overlying B-zone. Despite elevated concentrations in the plume area extraction wells, the downgradient B-zone monitoring wells continue to show decreasing trends. Based on the groundwater sampling results, updated plume maps, and the trend analyses in Appendix I, the DPE and Treatment System continues to be an effective remedy for groundwater in the vicinity of the former fire water reservoir.

5.2.3 NAPL MONITORING AND RECOVERY

NAPL thickness measurements were collected on January 17, at the following locations MW-8B, LBA-MW-35, LBA-MW-39, and MW-47A-AOC-1. NAPL measurement and recovery was not completed during the second quarter of 2023.

- MW-8B: No NAPL was detected during the January event, 0.44 gallons of NAPL was recovered.
- LBA-MW-35: No NAPL was detected during the January event, 0.44 gallons of NAPL was recovered.
- LBA-MW-39: No NAPL was detected during the January event, 0.44 gallons of NAPL was recovered.
- MW-47A-AOC-1: No NAPL was detected during the January event, 0.77 gallons of NAPL was recovered.

NAPL thickness measurements were collected on August 17 and December 6, at the following locations MW-8B, LBA-MW-08, LBA-MW-18, LBA-MW-35, LBA-MW-39, and MW-47A-AOC-1.

- MW-8B: NAPL was detected with an apparent thickness of 0.01 feet during the August event, however no NAPL was detected during the December event, 0.39 gallons of NAPL was recovered.
- LBA-MW-08: NAPL was detected with an apparent thickness of 0.04 feet during the August event and 0.02 feet during the December event, 0.17 gallons of NAPL was recovered.
- LBA-MW-18: NAPL was detected with an apparent thickness of 0.01 feet during the August event, however no NAPL was detected during the December event, 0.13 gallons of NAPL was recovered.
- LBA-MW-35: NAPL was detected with an apparent thickness of 0.02 feet during the August and December events, 0.42 gallons of NAPL was recovered.
- LBA-MW-39: NAPL was detected with an apparent thickness of 0.01 feet during the August event, however no NAPL was detected during the December event, 0.13 gallons of NAPL was recovered.
- MW-47A-AOC-1: NAPL was detected with an apparent thickness of 0.01 feet during the August event, however no NAPL was detected during the December event, 0.25 gallons of NAPL was recovered.

Between the period of January 1 and December 31, 2023, a total of 3.6 gallons of NAPL was recovered from the NAPL monitoring wells at the Site.

NAPL was monitored weekly for approximately 1 month on March 1, March 8, March 14, March 20, March 30, plus additional dates of April 14, and December 6, at observation wells OW-1, OW-2, OW-3, and OW-4 in Building 9. During these measurement dates, no measurable free product was observed in any of the wells.

5.2.4 SITE-WIDE GROUNDWATER MONITORING

Groundwater samples were collected for the site-wide monitoring program in April 2023. It should be noted that in 2023, the annual groundwater sampling event occurred in the spring instead of the fall as indicated on Table 7; however, beginning in 2024, groundwater samples will be collected in accordance Tables 2.2 found in Appendix J of the ISMP. Table 7 also provides information for the analytical parameters, the monitored zone, and the sampling method. The ISMP groundwater sampling wells for the site-wide monitoring program are presented in Figure 6.

GROUNDWATER SAMPLING

This section provides the results of the depth-to-water measurements and semi-annual groundwater samples that were collected in April and September 2023.

- Groundwater depth measurements taken during the sampling events as well as the calculated groundwater elevations and drawdowns are presented in Table 8 for the April event, and shown on Figures 7, 8, and 9.
- Groundwater samples were collected on an annual basis to assess CVOC, barium, and cyanide site-wide groundwater quality. Table 10 and Figures 10, 11, and 12 present the analytical results for the April event.
- Historical sampling results for all ISMP Groundwater Monitoring Plan monitoring wells are presented in Tables 12 (CVOCs) and 13 (barium and cyanide).
- Trend monitoring graphs (i.e., micromoles vs. time) that present groundwater results before the remedy implementation to the most current sampling results are included in Appendix I.
- The analytical laboratory reports are included in Appendix H, the Data Usability and Summary Reports are included in Appendix J, and monitoring well purge records are included in Appendix K.

The results for the annual site-wide groundwater quality monitoring show slight increases in CVOC concentrations in MW-40T (2,552 µg/l) and LBA-MW-34N (1,266 µg/l) in the B-zone groundwater and MW-16-100 (88 µg/l) in the D-zone groundwater. No change or decreases in CVOC concentrations were recorded in the remainder of the B-, C-, and D-zone site-wide monitoring well network for CVOCs. The downgradient delineation wells MW-22B and MW-20B did not exceed evaluation criteria for CVOCs.

The barium and cyanide sampling conducted in April 2024 was the first annual monitoring event performed under the ISMP, therefore, no trend analysis has been performed. Barium concentrations exceeded the 1,000 µg/l criterion in B-zone wells LBA-MW-18, LBA-MW-26, LBA-MW-34N, and LBA-MW-35 and in C-zone wells MW-44T, WSP-MW-06C, and LBA-MW-43S. The downgradient B-zone delineation well MW-31B, which also receives C-zone groundwater as previously described, contained 80.1 µg/l (estimated) of barium, well below the 1,000 µg/l evaluation criterion.

Cyanide concentrations exceeded the 0.2 mg/l criterion in B-zone wells WSP-MW-04B, LBA-MW-08, MW-19B, LBA-MW-35, and LBA-MW-43N. Cyanide was not detected above the evaluation criterion the downgradient B-zone delineation well LBA-MW-39 (0.18 mg/l). In the C-zone, cyanide concentrations exceeded the evaluation criteria in well LBA-MW-43S. Cyanide in the downgradient C-zone delineation well MW-44T (0.019 mg/l) was well below the evaluation criterion.

In summary, site-wide CVOC, barium, and cyanide concentrations continue to fluctuate within the onsite plume areas in the B- and C-zone groundwater. Based on the C-zone discharging to B-zone groundwater and the results of the downgradient monitoring wells, the plumes are fully delineated to the evaluation criteria onsite.

LBA-MW-19 REPLACEMENT MONITORING WELL

At the request of NYSDEC, monitoring well LBA-MW-19 (abandoned) was replaced with MW-19B (Figure 2). MW-19B was installed between December 6 and December 8, 2023. The monitoring well was installed to a depth of 15 feet below the ground surface and constructed with a 10-foot screen (15 to 5 feet below the ground surface) and 5 feet of riser pipe. The sand pack around the screen was placed approximately 2 feet above the top of the screen, followed by 2 feet of bentonite

pellets and 1 foot of grout to the surface. The final construction was flush with the building floor. The well was developed after waiting at least 24 hours for the grout to cure. Well MW-19B was sampled on December 27, 2023, for analysis of total cyanide using EPA Method 335.4, and the result was 91.2 mg/l (Table 10). This concentration is over an order of magnitude higher than the next highest concentration detected during the period and is three times higher than the last sample collected from abandoned well LBA-MW-19 in 2013 (0.31 mg/l). WSP believes the 2024 sample was affected by high turbidity.

While outside of the 2023 reporting period, it is important to note that additional samples were collected in early 2024 to assess the unexpected results for groundwater in well MW-19B. In January 2024, additional confirmatory sampling was conducted to assess the effect of turbidity. During the first week of January 2024, MW-19B was purged dry by bailing every day for 2 weeks. Then on January 12, 2024, MW-19B was resampled and analyzed for total cyanide in both a filtered and unfiltered sample by EPA Method 335.4. The results were 58.6 mg/l and 101 mg/l, respectively. A second event was performed in April 2024 to assess future health and safety precautions, to assess potential differences in analytical methods and laboratories, and to determine the types of cyanide present in the groundwater. On April 23, 2024, samples were collected for total cyanide analysis by EPA 335.4 (8.61 mg/l) and ASTM D7511-12 (14.35 mg/l), and for free cyanide by ASTM-D7237-15A (0.146 mg/l). The total cyanide result of 8.6 mg/l is within the expected range for this area of the site. Details of the additional cyanide sampling will be provided in the 2024 PRR.

5.2.5 SPDES PERMIT EQUIVALENT OUTFALLS

Emerson has been complying with the SPDES permit equivalent since September 7, 2022, which is the date when the SPDES permit (NY 0002933) for the Site was terminated by the NYSDEC, Division of Environmental Permits. In compliance with the SPDES permit equivalent (Appendix E), water discharge samples were collected during the reporting period from the following outfalls (Figure 2):

Outfall No.	Description	Dates Sampled During PRR Reporting Period	Constituents Analyzed
01A	Internal outfall where treated groundwater is monitored	January 31, 2023 February 24, 2023 March 29, 2023 April 21, 2023 May 25, 2023 June 12, 2023 July 24, 2023 August 16, 2023 ¹ September 28, 2023 October 23, 2023 November 16, 2023 December 19, 2023	Flow, pH, temperature, PCE, TCE, dichlorobenzenes, bromoform, chlorobenzene, chlorodibromomethane, chloroform, free cyanide, dichlorobromomethane, 1,1-dichloroethane, 1,1-DCE, methylene chloride, 1,1,2,2-tetrachloroethane, toluene, trans-1,2-DCE, cis-1,2-DCE, 1,1,1-trichloroethane, total xylenes, vinyl chloride, benzene
001	Stormwater, groundwater seepage, and treated groundwater	January 31, 2023 February 24, 2023 April 21, 2023 May 25, 2023 July 24, 2023 August 16, 2023 October 23, 2023 November 16, 2023 ²	Flow, pH, total lead, mercury, PCE, TCE Flow, pH, total lead, PCE, TCE

¹ Outfall 01A was sampled for free cyanide on August 18, 2023.

² An additional pH measurement was collected from Outfall 001 on November 28, 2024.

		March 29, 2023 June 12, 2023 September 28, 2023 December 19, 2023	Flow, pH, total lead, PCE, TCE Total barium, mercury, free cyanide
009	Stormwater and groundwater seepage	March 29, 2023 June 12, 2023 October 23, 2023 December 19, 2023	Free cyanide
011	Stormwater and groundwater seepage	No Samples Required to Be Collected	Not applicable

The results for each outfall sampled from January through December 2023 were provided to the NYSDEC in WSP correspondence, dated February 13, March 21, April 14, May 3, June 20, June 29, August 7, September 20, October 17, November 14, and December 5, 2023, and January 9, 2024. Depending on the parameter, samples were analyzed either in the field or by offsite laboratories accredited under the New York State's Environmental Laboratory Approval Program. Analytical methods were approved under Title 40 Code of Federal Regulations Part 136. The sample results for each outfall are summarized in Tables 14 through 16 and discussed below.

OUTFALL 01A

Outfall 01A is an outfall of the groundwater remediation treatment system located inside on the south wall of the treatment building in OU-1 (Figure 2). Treated groundwater is batch discharged to Outfall 01A, which then discharges to Outfall 001 located approximately 150 feet to the south. Monthly discharge samples were collected from Outfall 01A in January through December 2023, and analyzed for flow, pH, temperature, specific VOCs, and free cyanide. No discharge limits were exceeded during the reporting period (Table 14). The only compounds detected in at least one sample collected from Outfall 01A during the reporting period were chloroform, free cyanide, and cis-1,2-DCE.

Chloroform was detected in one sample collected on February 24, 2024, at an estimated concentration of 0.54 µg/l, which is below the discharge limit of 10 µg/l. Free cyanide was detected at a concentration of 27 µg/l in a May 25, 2023, sample and an estimated concentration of 4 µg/l in an October 23, 2023, sample. Currently, there is no discharge limit on free cyanide; the SPDES permit equivalent specifies an interim limit of "Monitor Only" on free cyanide from August 1, 2022, until July 31, 2025. The water quality-based effluent limit of 5.2 µg/l monthly average and 22 µg/l daily maximum for free cyanide will become effective on August 1, 2025. Samples collected from Outfall 01A in January, March, May, and August through December 2023, had concentrations of cis-1,2-DCE ranging from 1.3 µg/l to 4.8 µg/l, which are all below the discharge limit of 10 µg/l.

OUTFALL 001

Outfall 001, which is located in OU-1, receives treated groundwater from Outfall 01A, groundwater seepage from Building 18 via Outfall 004, stormwater from the north central part of the Site, and groundwater seepage via Outfall 005 (Figure 2). Outfall 001 discharges to a storm sewer and then to Six Mile Creek. Monthly discharge samples were collected in January through December 2023, and analyzed for flow, pH, total lead, PCE, and TCE (Table 15). In compliance with the SPDES permit equivalent, samples were also analyzed for free cyanide and total barium in March, June, September, and December 2023, and mercury in January, March, June, September, and December 2023.

No PCE or TCE were detected in any of the samples during the reporting period (Table 15). Barium, which does not have a discharge limit, was detected at estimated concentrations ranging from 75.7 µg/l to 124 µg/l in samples collected in March, June, September, and December 2023. Lead was detected in 7 of 12 samples at concentrations ranging from an estimated concentration of 2.5 µg/l to 6.2 µg/l, which are less than the discharge limit of 7.4 nanograms per liter. Mercury, which does not have a discharge limit, was detected in all five samples collected during the reporting period at estimated concentrations of 0.20 to 3.7 nanograms per liter. Free cyanide, which does not have currently have a discharge limit, was detected at a concentration of 4 µg/l in two of the four samples collected during the reporting period. A water quality-based effluent limit of 5.2 µg/l monthly average and 22 µg/l daily maximum for free cyanide will become effective on August 1, 2025.

During the November 16, 2023, sampling event, two pH measurements were collected at Outfall 001. The pH measurements were 8.6 and 8.7 standard units (SU), which exceed the SPDES permit equivalent maximum pH limit of 8.5 SU. On November 28, 2023, a pH of 8.5 SU was measured at Outfall 001, which met the SPDES permit equivalent maximum limit. The source of the pH exceedance on November 16, 2023, was unknown. No other exceedances of the pH limit occurred during the reporting period.

OUTFALL 009

Outfall 009 is located in OU-2, west of Building 6A (Figure 2). Discharges from Outfall 009 consist of groundwater seepage and stormwater from the south-central part of the Site. Outfall 009 discharges to a storm sewer, then to an unnamed tributary, and then to Six Mile Creek. Quarterly discharge samples were collected from Outfall 009 in March, June, October, and December 2023 that were analyzed for free cyanide (Table 16). No free cyanide was detected in any of the samples during the reporting period.

OUTFALL 011

Outfall 011, which is located in OU-1, receives stormwater from the northeastern part of the Site and groundwater seepage via the “Open Ditch 1 Bypass” (Figure 2). Outfall 011 discharges to a storm sewer and then to Six Mile Creek. In accordance with Schedule of Compliance for Cyanide in the SPDES permit equivalent, three discharge samples were collected from Outfall 011 for free cyanide analysis in September, October, and November 2022. These results were reported in the revised PRR, dated September 1, 2023. Because no free cyanide was detected in the 2022 samples, no sampling of Outfall 011 was required to be conducted during the reporting period. In correspondence, dated January 17, 2023, WSP provided the NYSDEC the 2022 free cyanide results for Outfall 011, which documented that Emerson met the requirements of the Schedule of Compliance for Cyanide and, therefore, no additional sampling of Outfall 011 was required to be conducted.

5.3 COMPARISONS WITH REMEDIAL OBJECTIVES

Evaluation of the performance and groundwater monitoring data indicates the IC/EC has demonstrated progress toward the attainment of the remedial objectives. As the complete achievement of the remedial objectives has not been reached, continued implementation of the IC/ECs will be necessary during 2024.

5.4 MONITORING DEFICIENCIES

No monitoring deficiencies were identified during the reporting period.

5.5 CONCLUSIONS AND RECOMMENDATIONS FOR CHANGES

Based on the monitoring completed during the reporting period, the DPE and Treatment System and NAPL recovery efforts continue to be effective in removing CVOCs and NAPL from the subsurface. Therefore, no changes are recommended to the monitoring plan.

6 O&M PLAN COMPLIANCE REPORT

6.1 O&M PLAN COMPONENTS

6.1.1 DPE AND TREATMENT SYSTEM

DPE and Treatment System O&M consists of routine monthly, quarterly, semi-annual, annual, and biennial maintenance. In addition, specific equipment maintenance is spread throughout the year as preventative measures.

	January	February	March	April	May	June	July	August	September	October	November	December
Routine Monthly Maintenance	X	X	X	X	X	X	X	X	X	X	X	X
Specific Equipment Monthly Maintenance	X	X	X	X	X	X	X	X	X	X	X	X
Routine Quarterly Maintenance	X			X			X			X		
Routine Semi-Annual Maintenance		X						X				
Routine Annual Maintenance			X									
Routine Biennial Maintenance					X							
Specific Equipment Maintenance												
Air Compressor Quarterly			X			X			X			X
Air Compressor Semi-Annual	X						X					
Replace Bag Filters		X			X			X			X	
Vacuum Blower Semi-Annual					X						X	
Vacuum Blower Annual					X							
Equalization Tank Annual		X										
Equalization Tank Biennial		X										
Process and Discharge Flow Meters			X							X		
Clean Bag Filter Housing									X			
Clean Air Stripper Trays and Housing								X				
Well Vault Maintenance						X						
Building and Equipment Cleaning Semi-Annual							X					
Building Cleaning Biennial		X										

6.1.2 NAPL RECOVERY

The NAPL recovery consists of the removal of an oil-only absorbent sock, measurement of NAPL thickness and redeployment of an oil-only absorbent sock in each NAPL monitoring and recovery location, if greater than 0.01-feet of NAPL thickness is measured. If NAPL measures less than 0.01-feet, then a sorbent sock is not deployed in the monitoring well during that specific quarter. NAPL recovery is performed for the following wells:

Location	Monitor	Activity	Frequency
MW-8B	NAPL	Spent Sorbent Removal	Quarterly
MW-8B	NAPL	NAPL Measurement	Quarterly
MW-8B	NAPL	Sorbent Deployment	Quarterly
LBA-MW-08	NAPL	Spent Sorbent Removal	Quarterly
LBA-MW-08	NAPL	NAPL Measurement	Quarterly
LBA-MW-08	NAPL	Sorbent Deployment	Quarterly
LBA-MW-18	NAPL	Spent Sorbent Removal	Quarterly
LBA-MW-18	NAPL	NAPL Measurement	Quarterly
LBA-MW-18	NAPL	Sorbent Deployment	Quarterly
LBA-MW-35	NAPL	Spent Sorbent Removal	Quarterly
LBA-MW-35	NAPL	NAPL Measurement	Quarterly
LBA-MW-35	NAPL	Sorbent Deployment	Quarterly
LBA-MW-39	NAPL	Spent Sorbent Removal	Quarterly
LBA-MW-39	NAPL	NAPL Measurement	Quarterly
LBA-MW-39	NAPL	Sorbent Deployment	Quarterly
MW-47A-AOC-1	NAPL	Spent Sorbent Removal	Quarterly
MW-47A-AOC-1	NAPL	NAPL Measurement	Quarterly
MW-47A-AOC-1	NAPL	Sorbent Deployment	Quarterly

6.2 O&M COMPLETED DURING REPORTING PERIOD

6.2.1 DPE AND TREATMENT SYSTEM

O&M visits were performed during the reporting period on the following dates:

- January 3
- February 1
- March 2
- April 21
- May 15
- June 9
- July 19
- August 18
- September 21
- October 5
- November 6
- December 8

The DPE and Treatment System was operational during the reporting period except when it was turned off to perform maintenance or conduct groundwater monitoring activities, and during unplanned events as described in Section 5.2.2. During each O&M visit, operating parameters associated with the DPE and Treatment System equipment and extractions wells were recorded on an O&M checklist (Appendix L). DPE and Treatment System maintenance was completed in accordance with the ISMP O&M Plan (ISMP Appendix H).

6.2.2 NAPL RECOVERY

O&M visits were performed during the reporting period, to monitor the thickness and perform NAPL recovery at monitoring locations. The NAPL recovery dates included:

- MW-8B: January 17, August 17, and November 17
 - LBA-MW-08: August 17 and November 17
 - LBA-MW-18: August 17 and November 17
 - LBA-MW-35: January 17, August 17, and November 17
 - LBA-MW-39: January 17, August 17, and November 17
 - MW-47-AOC-1: January 17, August 19, and November 17
-

6.3 EVALUATION OF REMEDIAL SYSTEMS

6.3.1 DPE AND TREATMENT SYSTEM

The operating parameters for the DPE and Treatment System equipment and extraction wells were generally consistent with the optimal operating conditions specified in the ISMP O&M Plan. Overall, the DPE and Treatment System operated as designed and continues to be effective.

6.3.2 NAPL RECOVERY

Passive NAPL recovery continues to be effective using oil-only absorbent socks deployed in select monitoring wells. Overall, the NAPL recovery efforts operated as designed and continue to be effective.

6.4 O&M DEFICIENCIES

Minor deficiencies with respect to the O&M plan were documented during the reporting period; however, these deficiencies did not affect the overall performance of the systems.

6.5 CONCLUSIONS AND RECOMMENDATIONS FOR IMPROVEMENTS

The DPE and Treatment System and NAPL monitoring and recovery efforts are performing as designed and continue to be effective. No recommendations for improvements are suggested at this time.

7 OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS

7.1 COMPLIANCE WITH ISMP

Based on the results of the annual site inspection and other data gathered during the reporting period, the requirements of the IC/EC, monitoring, and O&M plans were met.

7.2 PERFORMANCE AND EFFECTIVENESS OF REMEDY

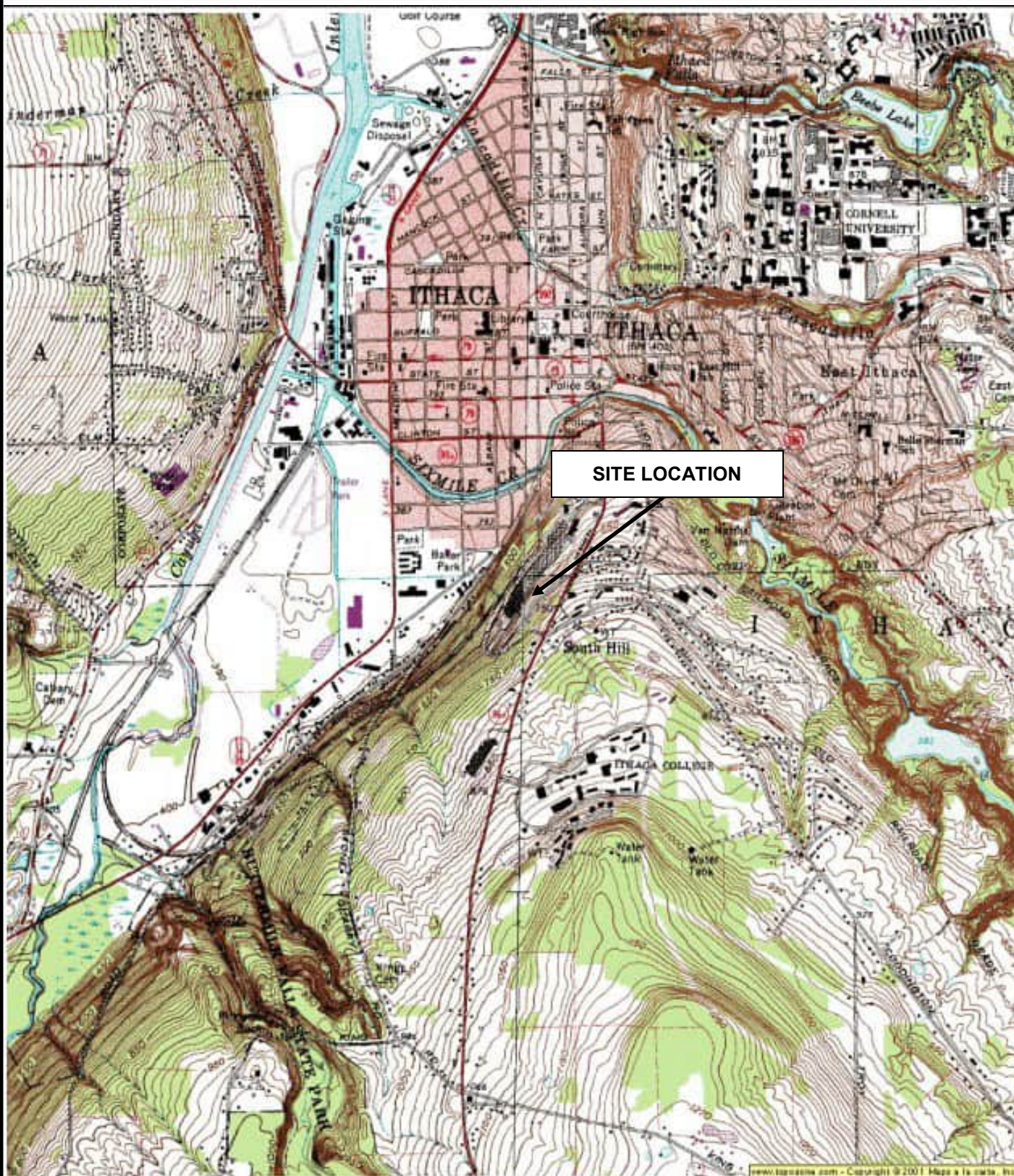
Based on an evaluation of the information gathered during the implementation of the ISMP, the DPE and Treatment System and NAPL monitoring and recovery efforts are performing as designed.

7.3 FUTURE PRR SUBMITTALS

The next PRR will be submitted in May 2025. No changes to the PRR reporting schedule are recommended at this time.

FIGURES

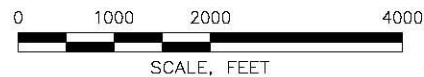
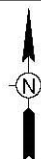




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7.5 MINUTE SERIES TOPOGRAPHIC QUADRANGLE
ITHACA, NEW YORK 1976
SCALE 1:24,000



QUADRANGLE LOCATION



SCALE, FEET



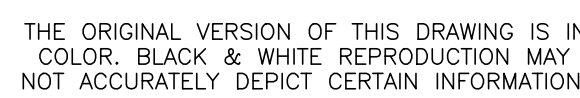
WSP USA Inc.
13530 DULLES TECHNOLOGY DR.
SUITE 300
HERNDON, VA 20171
TEL: +1 703.709.6500

FIGURE 1

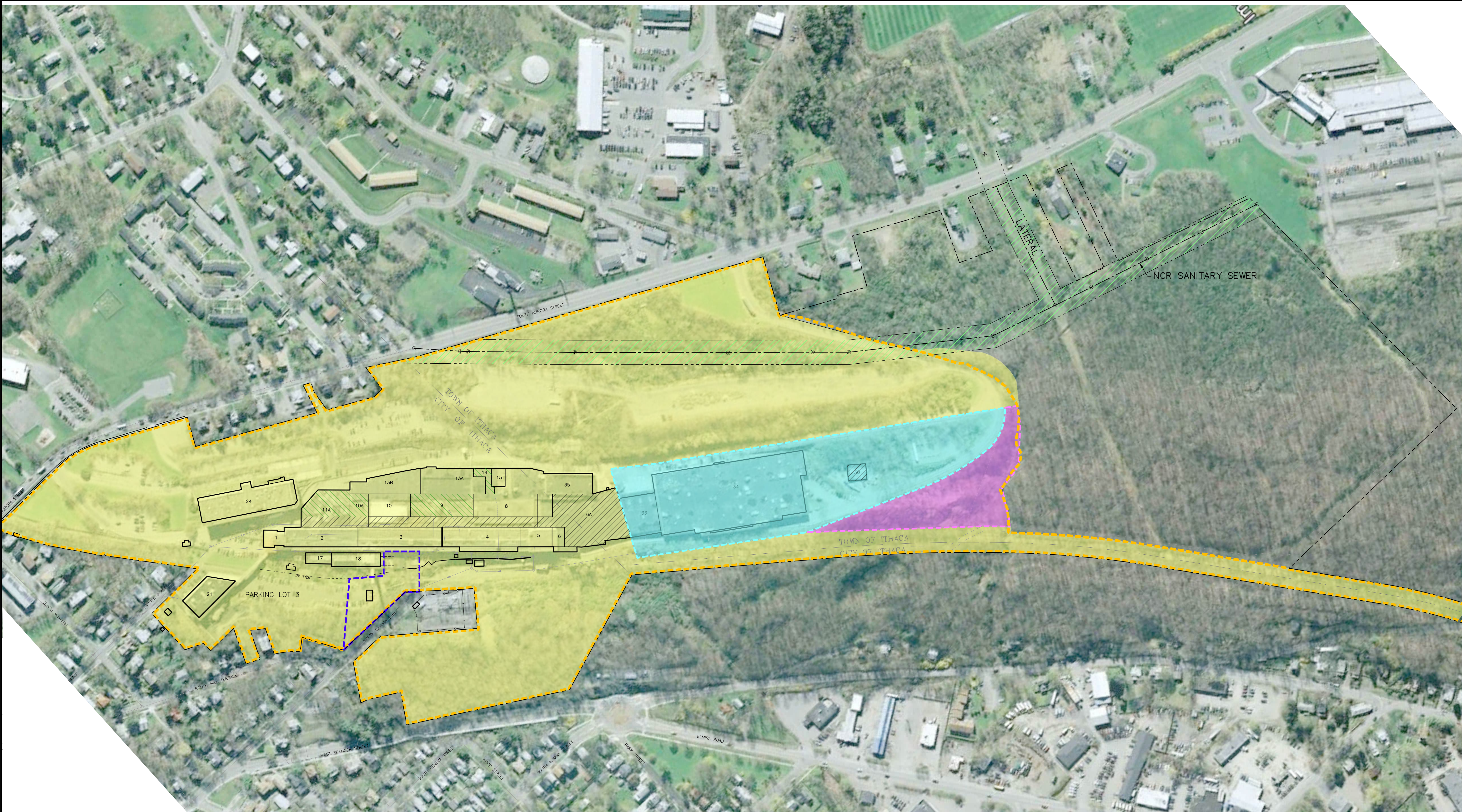
SITE LOCATION

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TRANSMISSION
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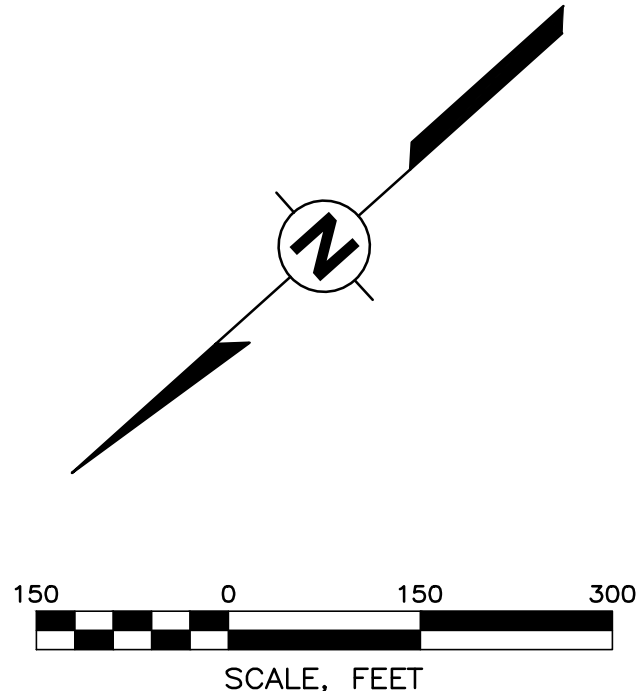


Drawing Number
314P5608.001-E05



- LEGEND**
- 34 BUILDING NUMBER
 - EASEMENT FOR NCR SEWER
 - SANITARY SEWER
 - PROPERTY BOUNDARY
 - BOUNDARY FOR OU-1 (RETAINED PROPERTY)
 - BOUNDARY FOR OU-2

- LEGEND**
- AREA WHERE RESTRICTED RESIDENTIAL USE SOC'S ARE APPLIED
 - AREA WHERE COMMERCIAL USE SOC'S ARE APPLIED
 - AREA WHERE INDUSTRIAL USE SOC'S ARE APPLIED
 - PROPOSED DEMOLITION AREA FOR GREEN SPACE
 - PROPOSED DEMOLITION AREA FOR ROADWAY/PARKING



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ST. LOUIS, MISSOURI



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TEL: +1 412.604.1040

FIGURE 3

Drawing Number

314P5608.001-D23

DRAWN BY **AB CARBONIA**

CHECKED

APPROVED

JRB CARBONIA

JRB CARBONIA

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NYSDOH
SOIL VAPOR / INDOOR AIR MATRICES
MAY 2017

MATRIX A: Trichloroethene (TCE), cis-1,2-Dichloroethene (cis-DCE), 1,1-Dichloroethene (1,1-DCE) Carbon Tetrachloride (CT)

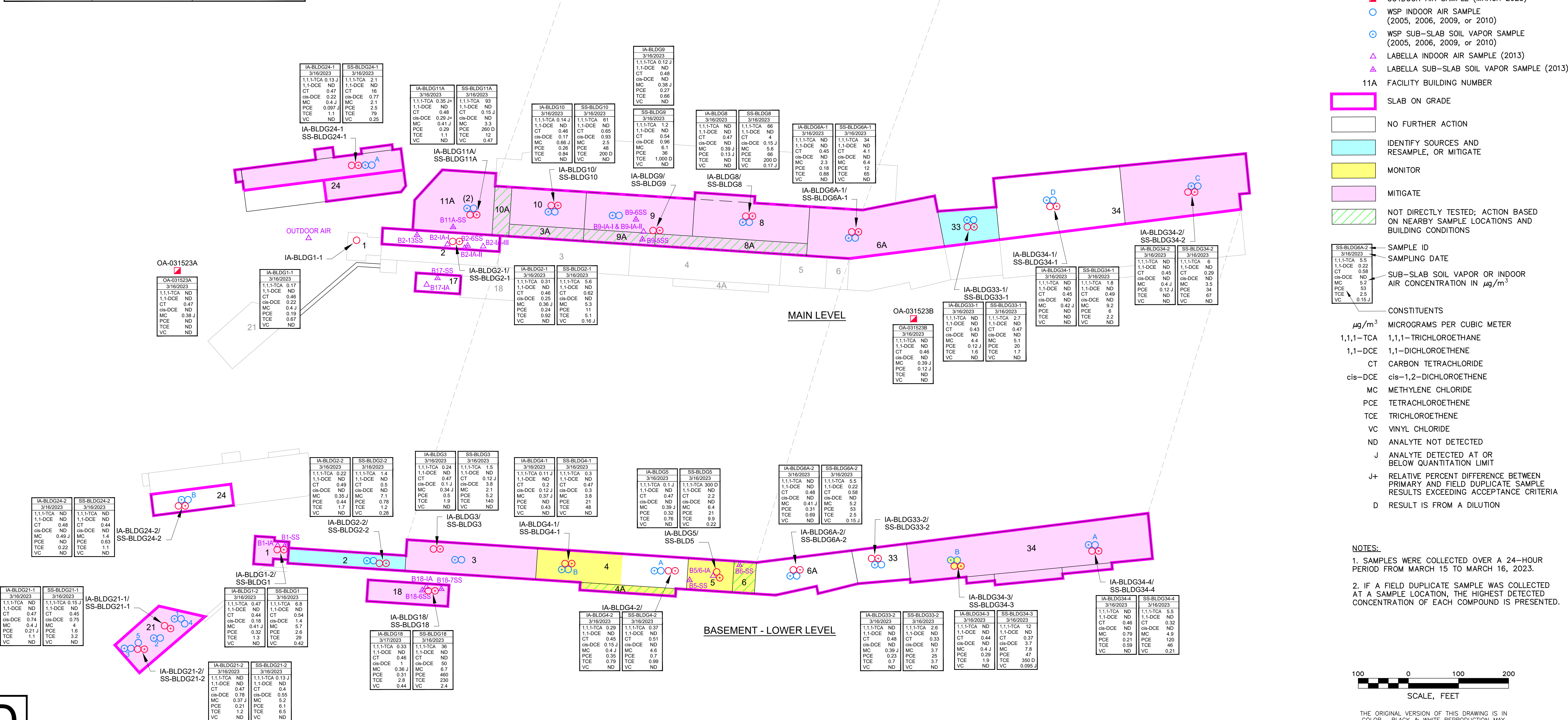
SUB-SLAB VAPOR CONCENTRATION OF COMPOUND ($\mu\text{g}/\text{m}^3$)	INDOOR AIR CONCENTRATION OF COMPOUND ($\mu\text{g}/\text{m}^3$)		
	< 0.2	0.2 to < 1	1 AND ABOVE
< 6	1. NO FURTHER ACTION	2. NO FURTHER ACTION	3. IDENTIFY SOURCE(S) AND RESAMPLE, OR MITIGATE
6 to < 60	4. NO FURTHER ACTION	5. MONITOR	6. MITIGATE
60 AND ABOVE	7. MITIGATE	8. MITIGATE	9. MITIGATE

MATRIX B: Tetrachloroethene (PCE), 1,1,1-Trichloroethene (1,1,1-TCA), Methylene Chloride (MC)

SUB-SLAB VAPOR CONCENTRATION OF COMPOUND ($\mu\text{g}/\text{m}^3$)	INDOOR AIR CONCENTRATION OF COMPOUND ($\mu\text{g}/\text{m}^3$)		
	< 3	3 to < 10	10 AND ABOVE
< 100	1. NO FURTHER ACTION	2. NO FURTHER ACTION	3. IDENTIFY SOURCE(S) AND RESAMPLE, OR MITIGATE
100 to < 1,000	4. NO FURTHER ACTION	5. MONITOR	6. MITIGATE
1,000 AND ABOVE	7. MITIGATE	8. MITIGATE	9. MITIGATE

MATRIX C: Vinyl Chloride (VC)

SUB-SLAB VAPOR CONCENTRATION OF COMPOUND ($\mu\text{g}/\text{m}^3$)	INDOOR AIR CONCENTRATION OF COMPOUND ($\mu\text{g}/\text{m}^3$)	
	< 0.2	0.2 AND ABOVE
< 6	1. NO FURTHER ACTION	3. IDENTIFY SOURCE(S) AND RESAMPLE, OR MITIGATE
6 to < 60	4. MONITOR	4. MITIGATE
60 AND ABOVE	5. MITIGATE	6. MITIGATE



SUB-SLAB SOIL VAPOR, INDOOR AIR, AND
OUTDOOR AIR SAMPLING LOCATIONS
AND RESULTS - MARCH 2023
FORMER EMERSON POWER TRANSMISSION SITE
ITHACA, NEW YORK



WSP USA Inc.
11 STANWIX STREET, SUITE 950
PITTSBURGH, PA 15222
TEL: +1 412.604.1040

FIGURE 4

Drawing Number

314P5608.001-D30

REV	DESCRIPTION	DATE
1	Issue for Review	3/16/2023
2	Issue for Review	3/16/2023
3	Issue for Review	3/16/2023
4	Issue for Review	3/16/2023

DRAWN BY	CHECKED	APPROVED	DATE
RA 04/13/2023	DC 04/13/2023		

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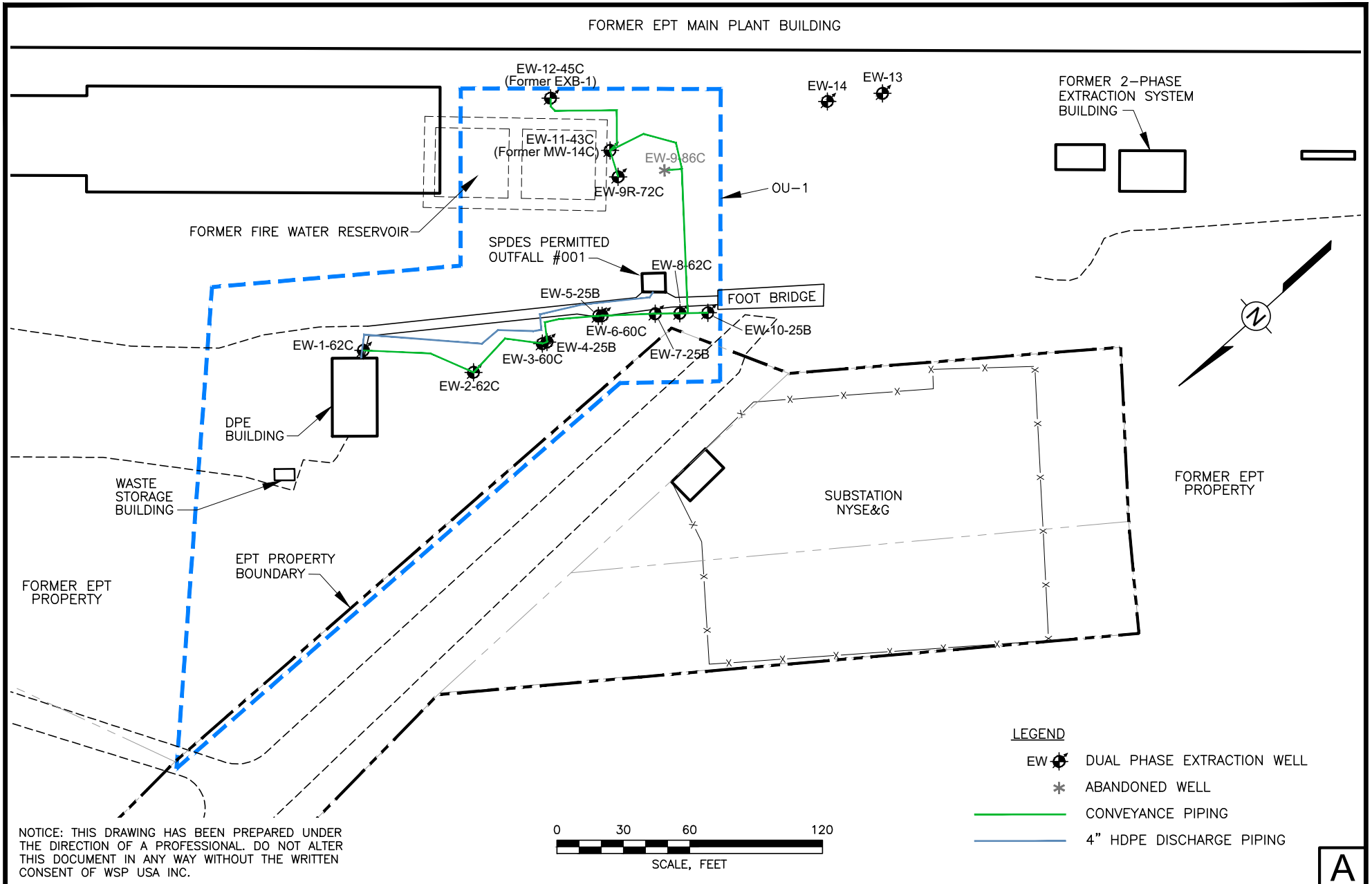


FIGURE 5

DPE TREATMENT AREA

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ITHACA, NEW YORK

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ST. LOUIS, MISSOURI

Drawn By: *RA 02262024*

Checked: *JRB 02262024*

Approved:

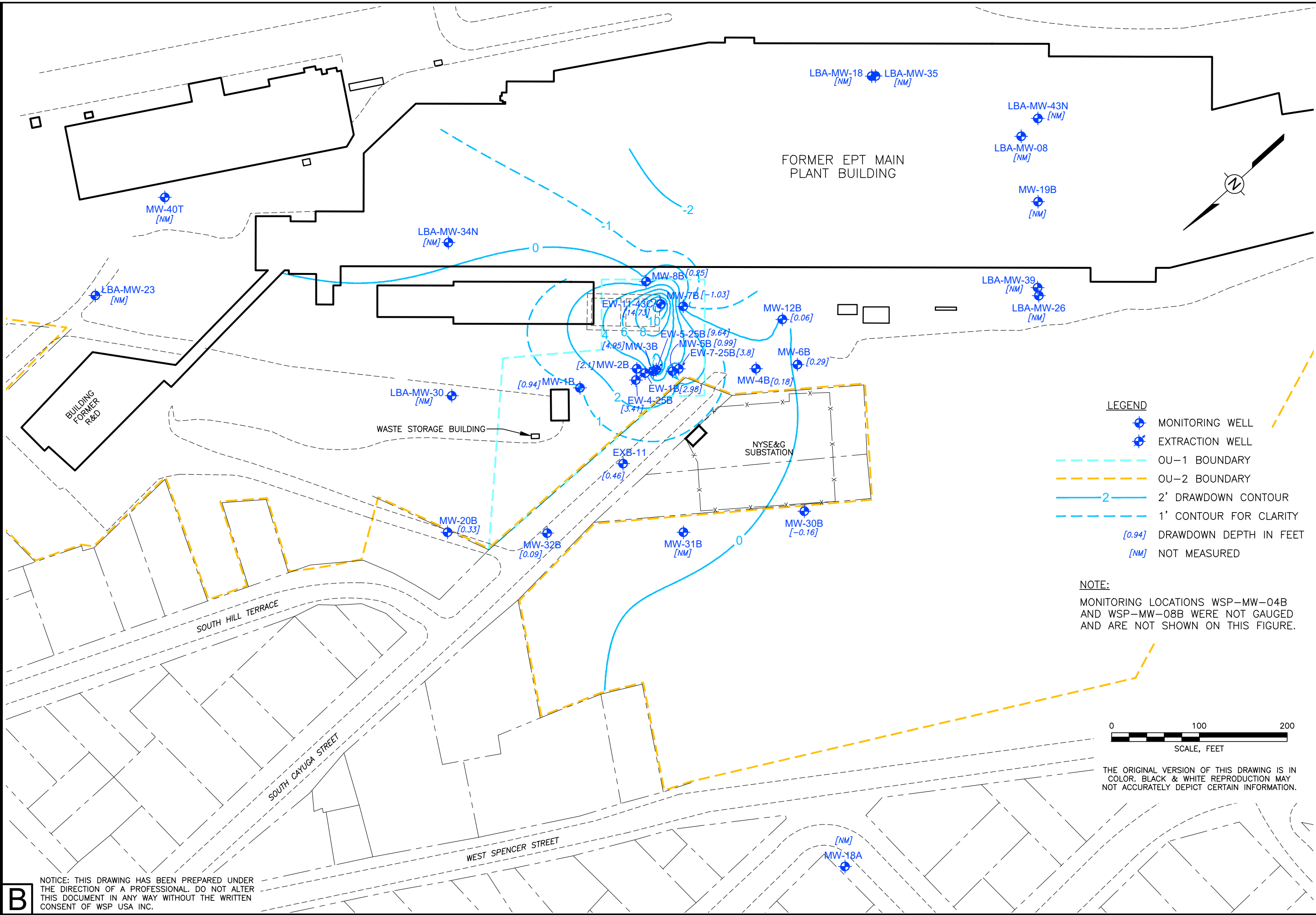
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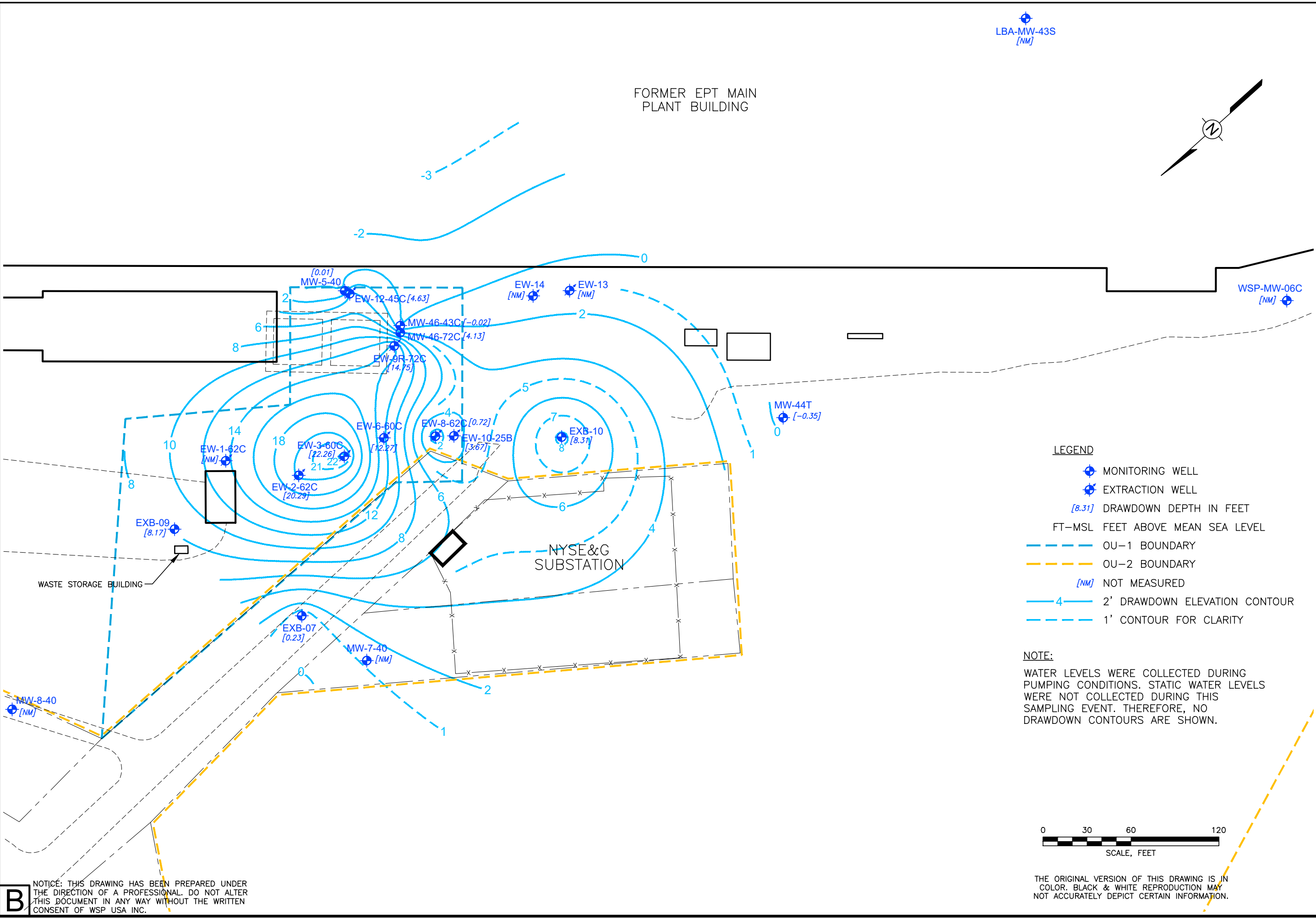


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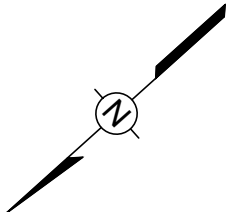
FORMER EMERSON POWER TRANSMISSION ITHACA, NEW YORK	Drawn By: <i>RP 04/17/2024</i>
	Checked: <i>JRB 08/14/2024</i>
PREPARED FOR EMERSON ST. LOUIS, MISSOURI	Approved:
	Dwg Name: 314P5608.001-B16
FIGURE 7	
APRIL 2023	
GROUNDWATER DRAWDOWN FIGURE B-ZONE	
 WSP USA Inc. 11 STANWIX STREET SUITE 950 PITTSBURGH, PA 15222 TEL: +1 412.604.1040	

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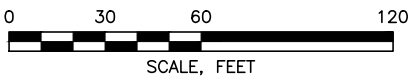
LBA-MW-43S
[NM]



LEGEND

- MONITORING WELL
- EXTRACTION WELL
- [8.31] DRAWDOWN DEPTH IN FEET
- FT-MSL FEET ABOVE MEAN SEA LEVEL
- OU-1 BOUNDARY
- OU-2 BOUNDARY
- [NM] NOT MEASURED
- 2' DRAWDOWN ELEVATION CONTOUR
- 1' CONTOUR FOR CLARITY

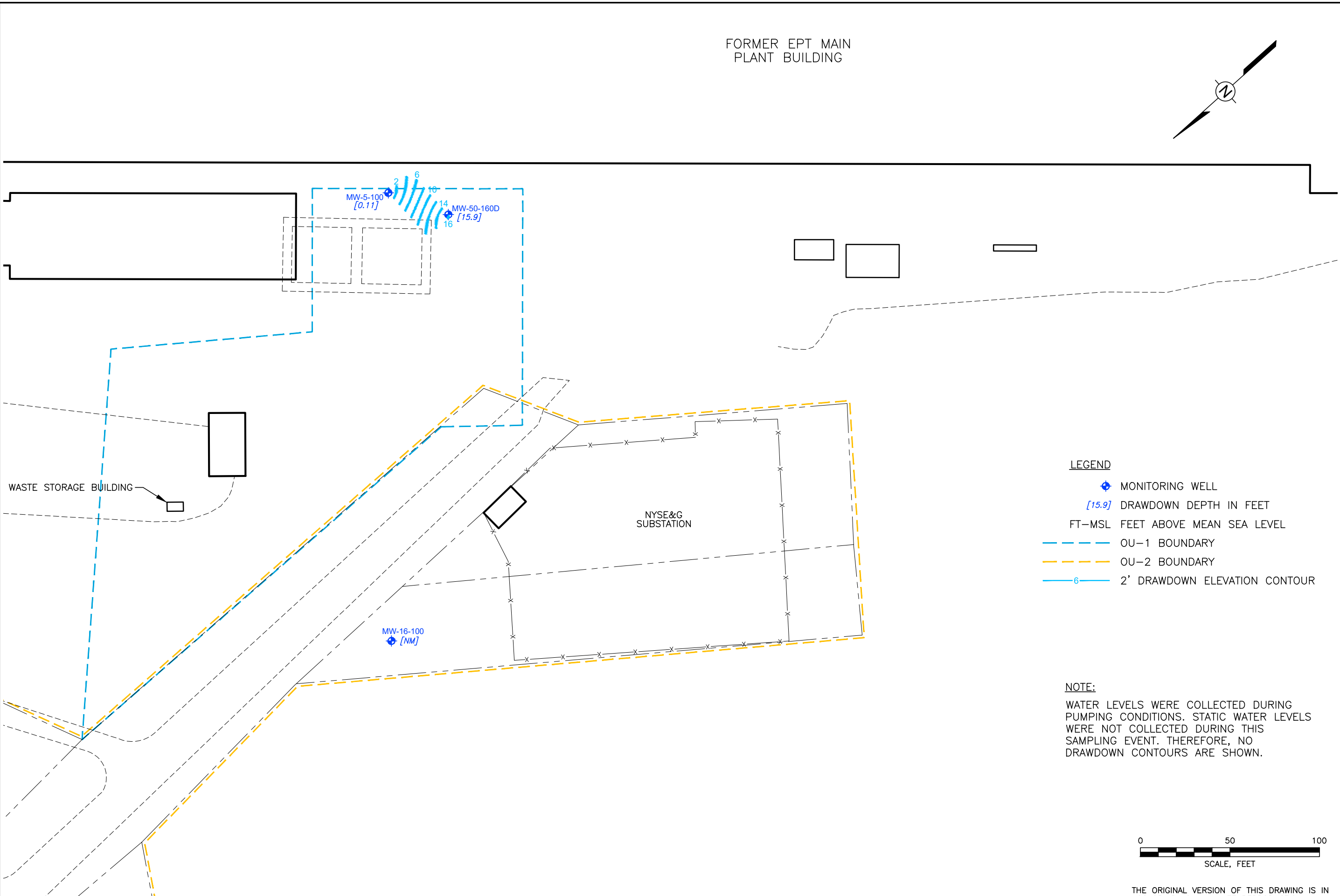
NOTE:
WATER LEVELS WERE COLLECTED DURING PUMPING CONDITIONS. STATIC WATER LEVELS WERE NOT COLLECTED DURING THIS SAMPLING EVENT. THEREFORE, NO DRAWDOWN CONTOURS ARE SHOWN.



THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK & WHITE REPRODUCTION MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.

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Checked: <i>JRB</i> 08/14/2024	
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Dwg Name: 314P5608.001-B17	
FIGURE 8	GROUNDWATER DRAWDOWN FIGURE C-ZONE
WSP USA Inc. 11 STANWIX STREET SUITE 950 PITTSBURGH, PA 15222 TEL: +1 412.604.1040	

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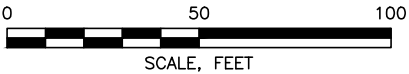


LEGEND

- MONITORING WELL
- DRAWDOWN DEPTH IN FEET
- FT-MSL FEET ABOVE MEAN SEA LEVEL
- OU-1 BOUNDARY
- OU-2 BOUNDARY
- 2' DRAWDOWN ELEVATION CONTOUR

NOTE:

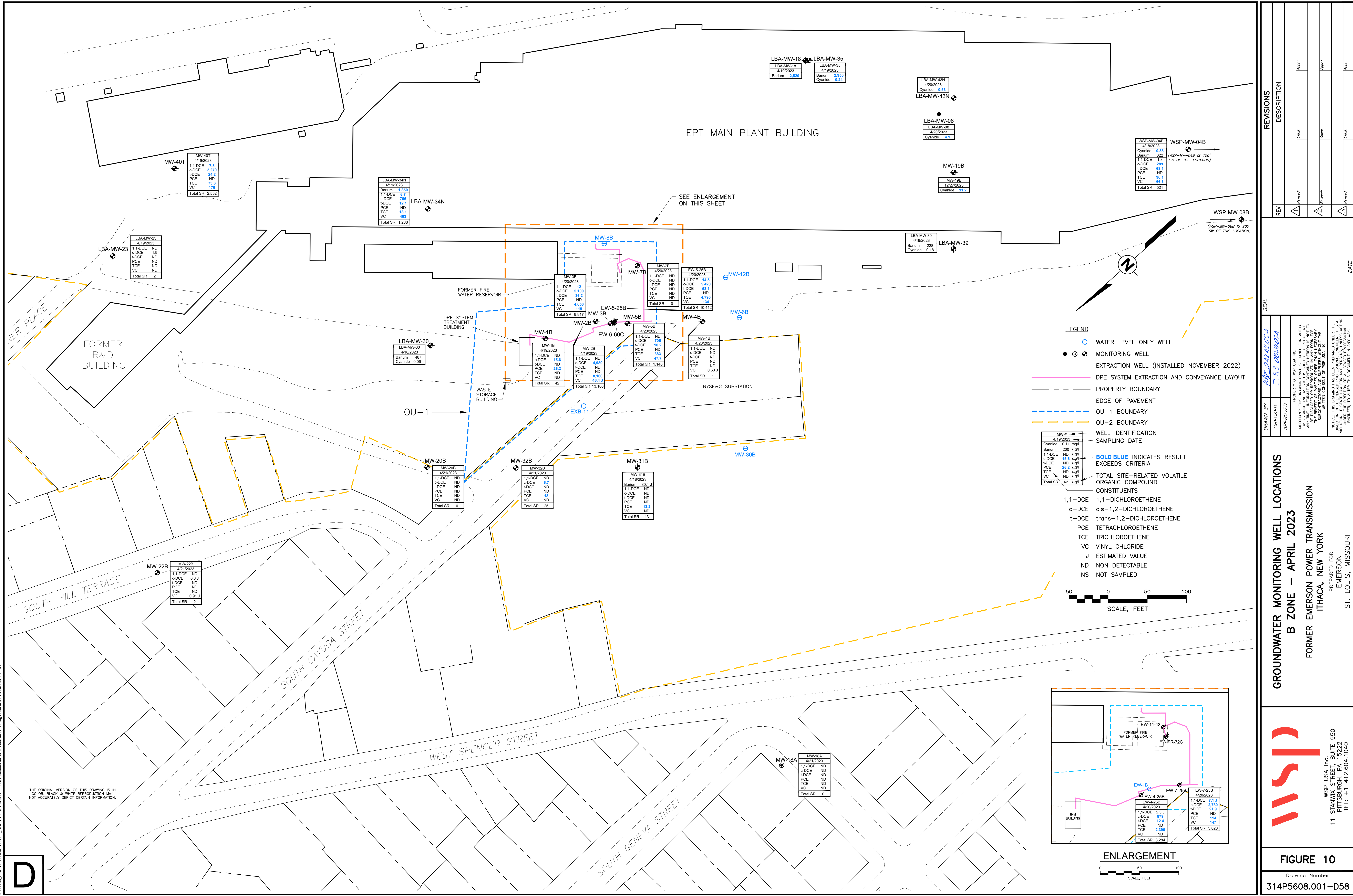
WATER LEVELS WERE COLLECTED DURING PUMPING CONDITIONS. STATIC WATER LEVELS WERE NOT COLLECTED DURING THIS SAMPLING EVENT. THEREFORE, NO DRAWDOWN CONTOURS ARE SHOWN.



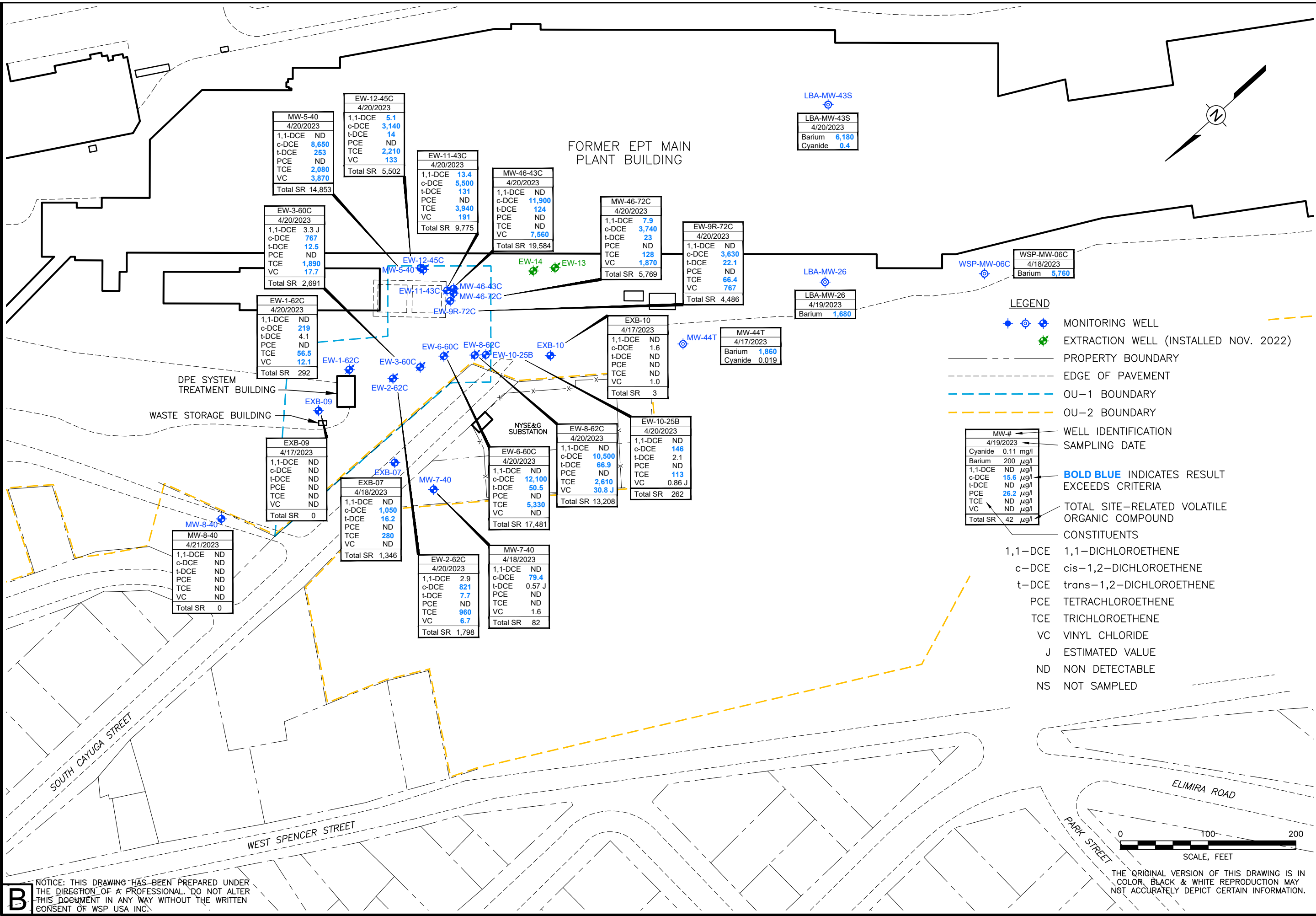
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Drawn By: <i>RP 04252024</i>	FORMER EMERSON POWER TRANSMISSION ITHACA, NEW YORK PREPARED FOR EMERSON ST. LOUIS, MISSOURI	FIGURE 9 APRIL 2023 GROUNDWATER DRAWDOWN FIGURE D-ZONE	 WSP USA Inc. 11 STANWIX STREET SUITE 950 PITTSBURGH, PA 15222 TEL: +1 412.604.1040
Checked: <i>JRB 08142024</i>			
Approved:			
Dwg Name: 314P5608.001-B18			



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0 100 200
SCALE, FEET

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FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

FIGURE 11
GROUNDWATER MONITORING WELL LOCATIONS
C ZONE – APRIL 2023

Drawn By: *RP 04/26/2024*

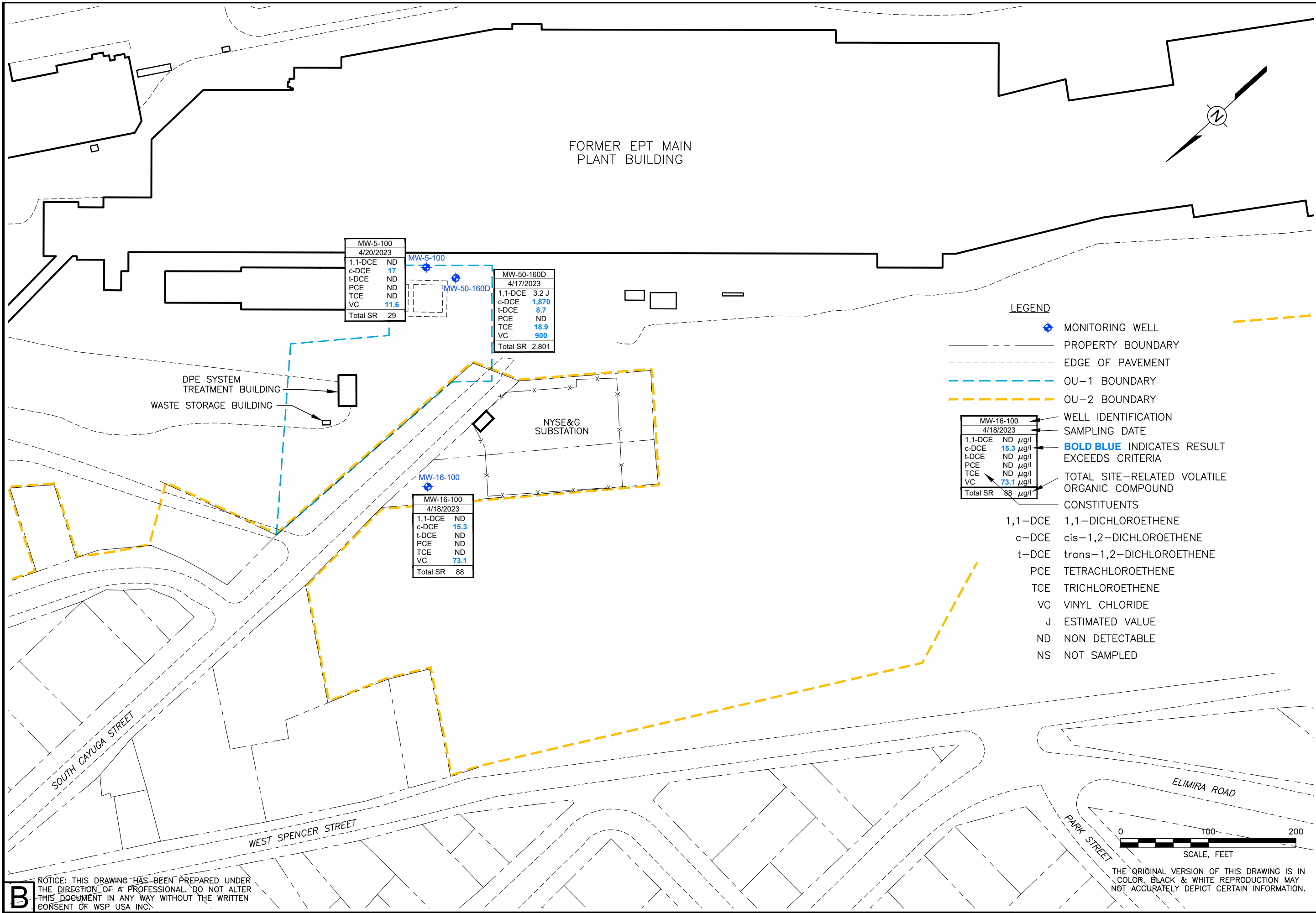
Checked: *JRB 08/13/2024*

Approved:

Dwg Name: 314P5608.001-B22

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ST. LOUIS, MISSOURI

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Checked: *JRB 08/13/2024*

Approved:

Dwg Name: 314P5608.001-B23

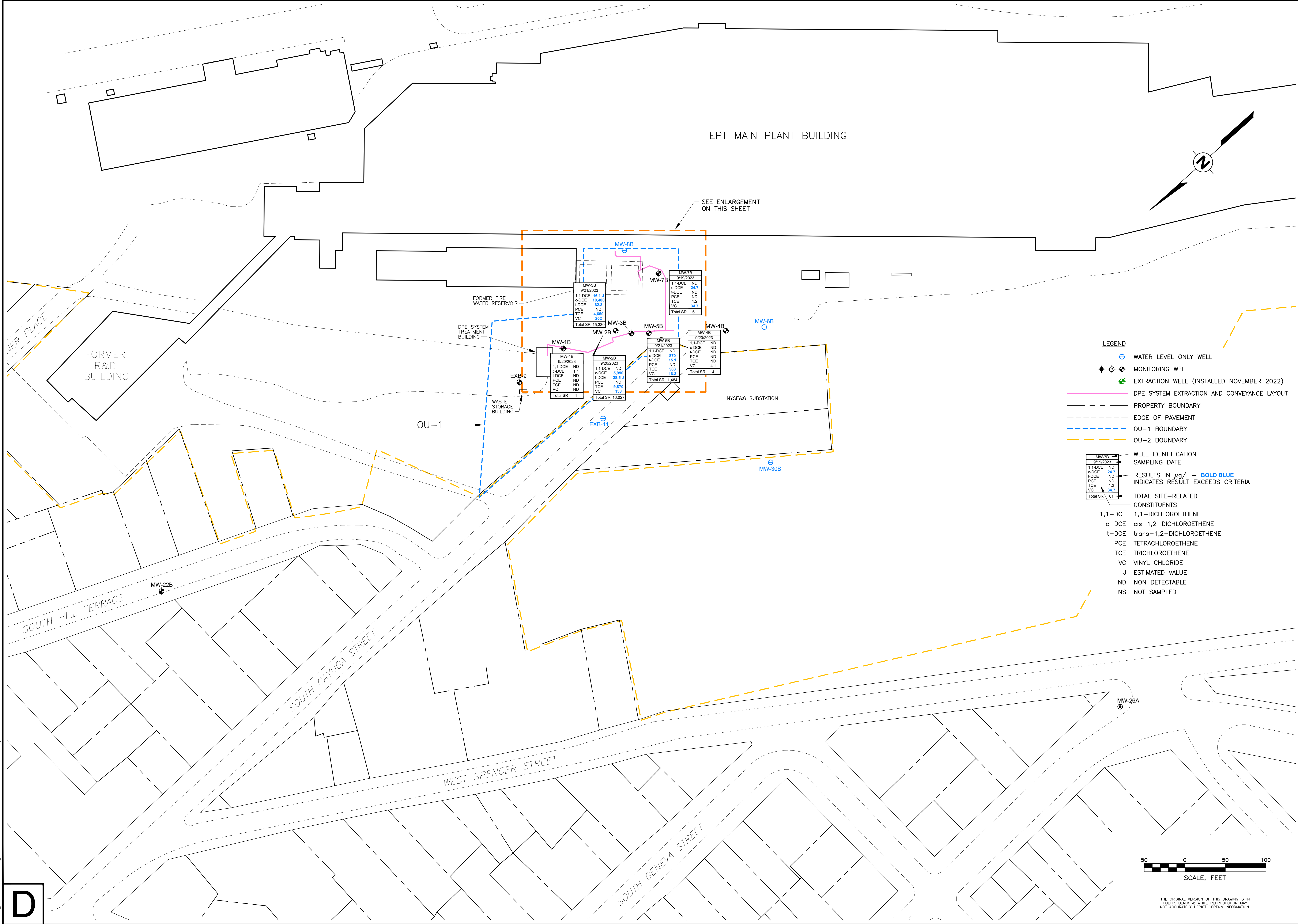
FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

PREPARED FOR
EMERSON
ST. LOUIS, MISSOURI

FIGURE 12

GROUNDWATER MONITORING WELL LOCATIONS
D ZONE - APRIL 2023

 WSP USA Inc.
11 STANWIX STREET
SUITE 950
PITTSBURGH, PA 15222
TEL: +1 412.604.1040



D

LEGEND

- ⊕ WATER LEVEL ONLY WELL
- ⊕ MONITORING WELL
- ⊕ EXTRACTION WELL (INSTALLED NOVEMBER 2022)
- DPE SYSTEM EXTRACTION AND CONVEYANCE LAYOUT
- PROPERTY BOUNDARY
- EDGE OF PAVEMENT
- OU-1 BOUNDARY
- OU-2 BOUNDARY

WELL IDENTIFICATION

SAMPLING DATE

RESULTS IN $\mu\text{g/l}$ - **BOLD BLUE**

INDICATES RESULT EXCEEDS CRITERIA

TOTAL SITE-RELATED CONSTITUENTS

1,1-DCE	1,1-DICHLOROETHENE
c-DCE	cis-1,2-DICHLOROETHENE
t-DCE	trans-1,2-DICHLOROETHENE
PCE	TETRACHLOROETHENE
TCE	TRICHLOROETHENE
VC	VINYL CHLORIDE
J	ESTIMATED VALUE
ND	NON DETECTABLE
NS	NOT SAMPLED

WELL DATA

Well	Date	1,1-DCE	c-DCE	t-DCE	PCE	TCE	VC	Total SR
MW-1B	9/20/2023	ND	1.1	ND	ND	ND	ND	1
MW-2B	9/20/2023	ND	1.1	ND	ND	ND	ND	1
MW-3B	9/21/2023	16.1	10,400	62.3	ND	4,650	202	15,330
MW-5B	9/21/2023	ND	979	16.1	ND	893	16.3	1,451
MW-7B	9/19/2023	ND	24.7	ND	ND	1.2	34.7	61
MW-8B	9/19/2023	ND	24.7	ND	ND	1.2	34.7	61
MW-4B	9/20/2023	ND	ND	ND	ND	4.1	ND	4
MW-30B	9/20/2023	ND	ND	ND	ND	ND	ND	ND

GROUNDWATER MONITORING WELL LOCATIONS

B ZONE - SEPTEMBER 2023

FORMER EMERSON POWER TRANSMISSION

ITHACA, NEW YORK

PREPARED FOR
EMERSON
ST. LOUIS, MISSOURI

FIGURE 13

Drawing Number
314P5608.001-D59

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11 STANWIX STREET, SUITE 950
PITTSBURGH, PA 15222
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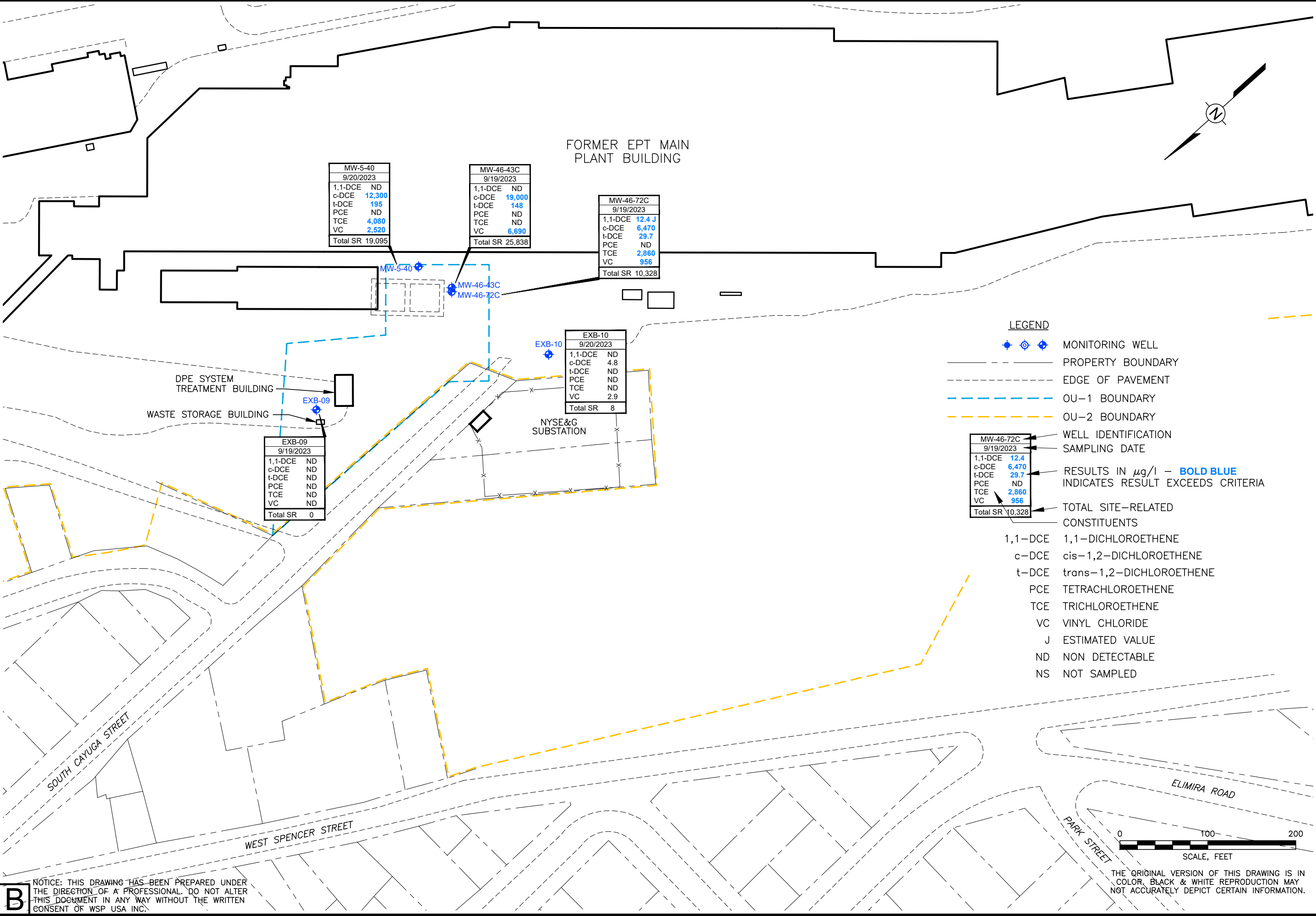
REVISIONS

REV	DESCRIPTION
1	Initial Issue
2	Revised
3	Revised
4	Revised
5	Revised

SEAL

DATE

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Checked: *JRB 08/14/2024*

Approved:

Dwg Name: 314P5608.001-B24

FORMER EMERSON POWER TRANSMISSION

ITHACA, NEW YORK

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ST. LOUIS, MISSOURI

FIGURE 14

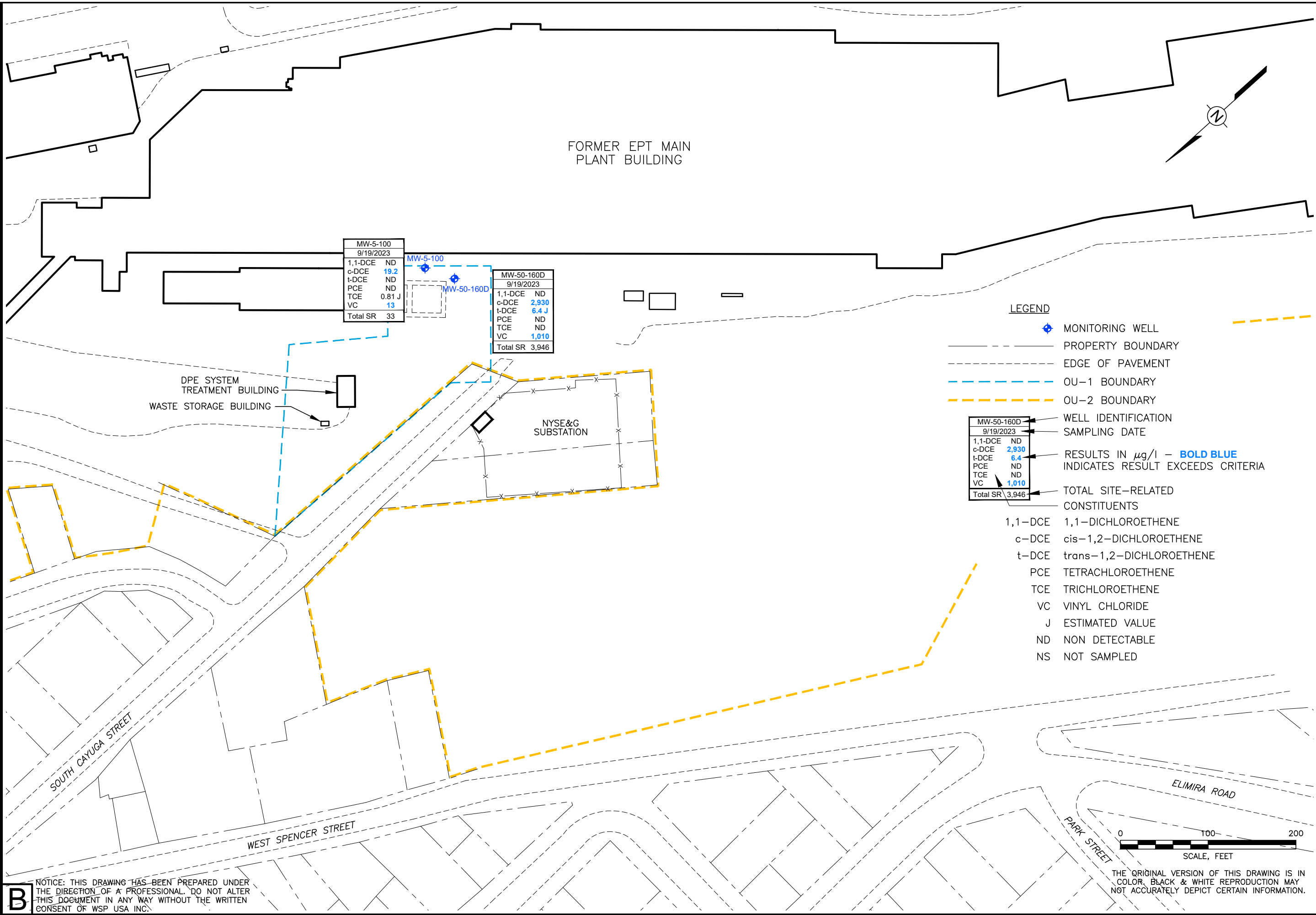
GROUNDWATER MONITORING WELL

LOCATIONS - C ZONE

SEPTEMBER 2023

WSP USA Inc.
11 STANWIX STREET
SUITE 950
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Approved:

Dwg Name: 314P5608.001-B25

FORMER EMERSON POWER TRANSMISSION

ITHACA, NEW YORK

PREPARED FOR
EMERSON

ST. LOUIS, MISSOURI

FIGURE 15

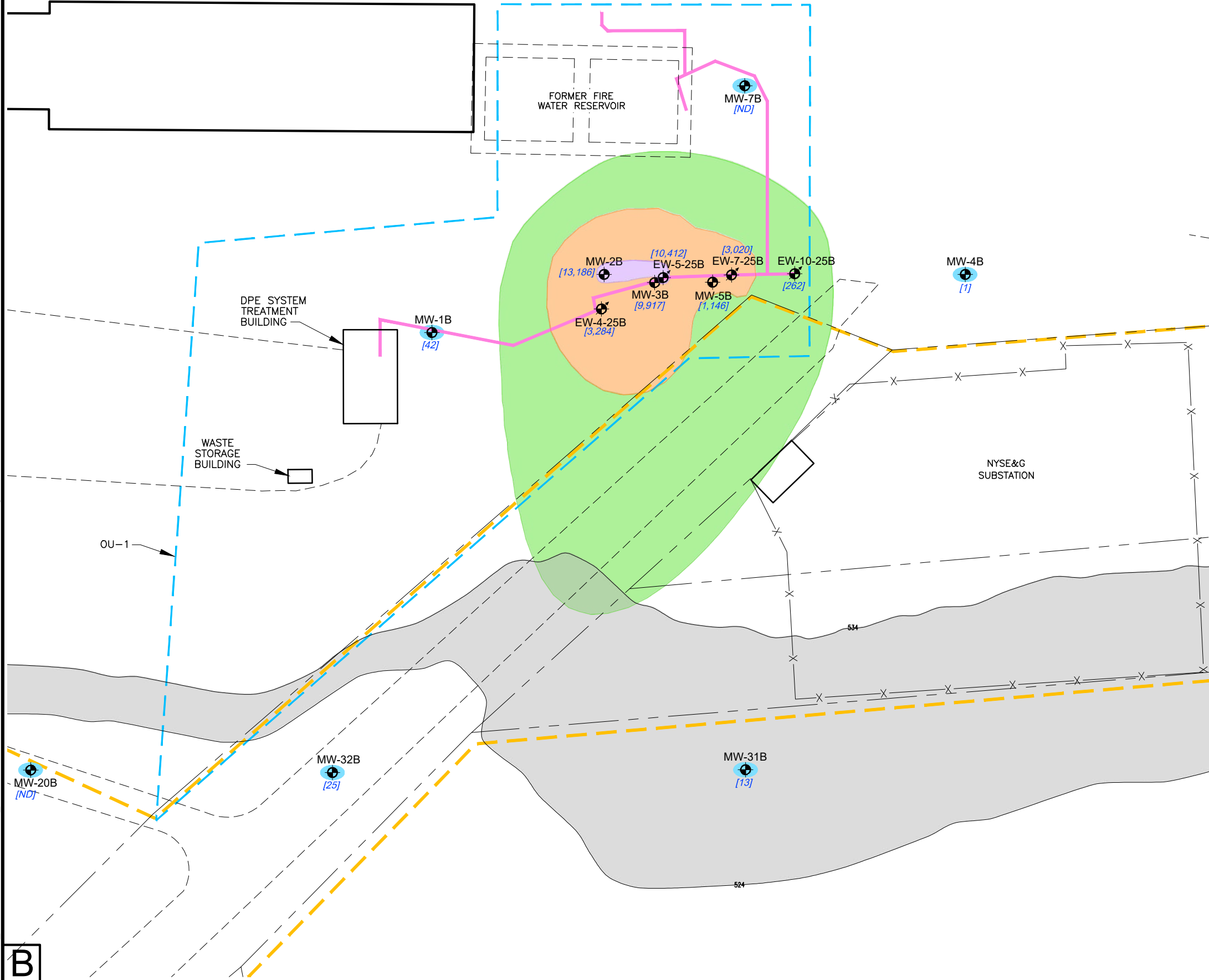
GROUNDWATER MONITORING WELL

LOCATIONS - D ZONE

SEPTEMBER 2023

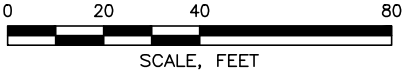
WSP USA Inc.
11 STANWIX STREET
SUITE 950
PITTSBURGH, PA 15222
TEL: +1 412.604.1040

EPT MAIN PLANT BUILDING



LEGEND

- MONITORING WELL
- EXTRACTION WELL
- TOTAL CVOCs
- TOTAL CVOCs <100
- DPE SYSTEM EXTRACTION AND CONVEYANCE LAYOUT
- PROPERTY BOUNDARY
- EDGE OF PAVEMENT
- OU-1 BOUNDARY
- OU-2 BOUNDARY
- C-ZONE TO B-ZONE DISCHARGE ZONE
- TOTAL CVOCs (INCLUDES ALL CVOCs):
 - 100 to 1,000
 - >1,000 to 10,000
 - >10,000
- CVOCs CHLORINATED VOLATILE ORGANIC COMPOUNDS – REPORTED AS MICROGRAMS PER LITER ($\mu\text{g/l}$)
- NS NOT SAMPLED



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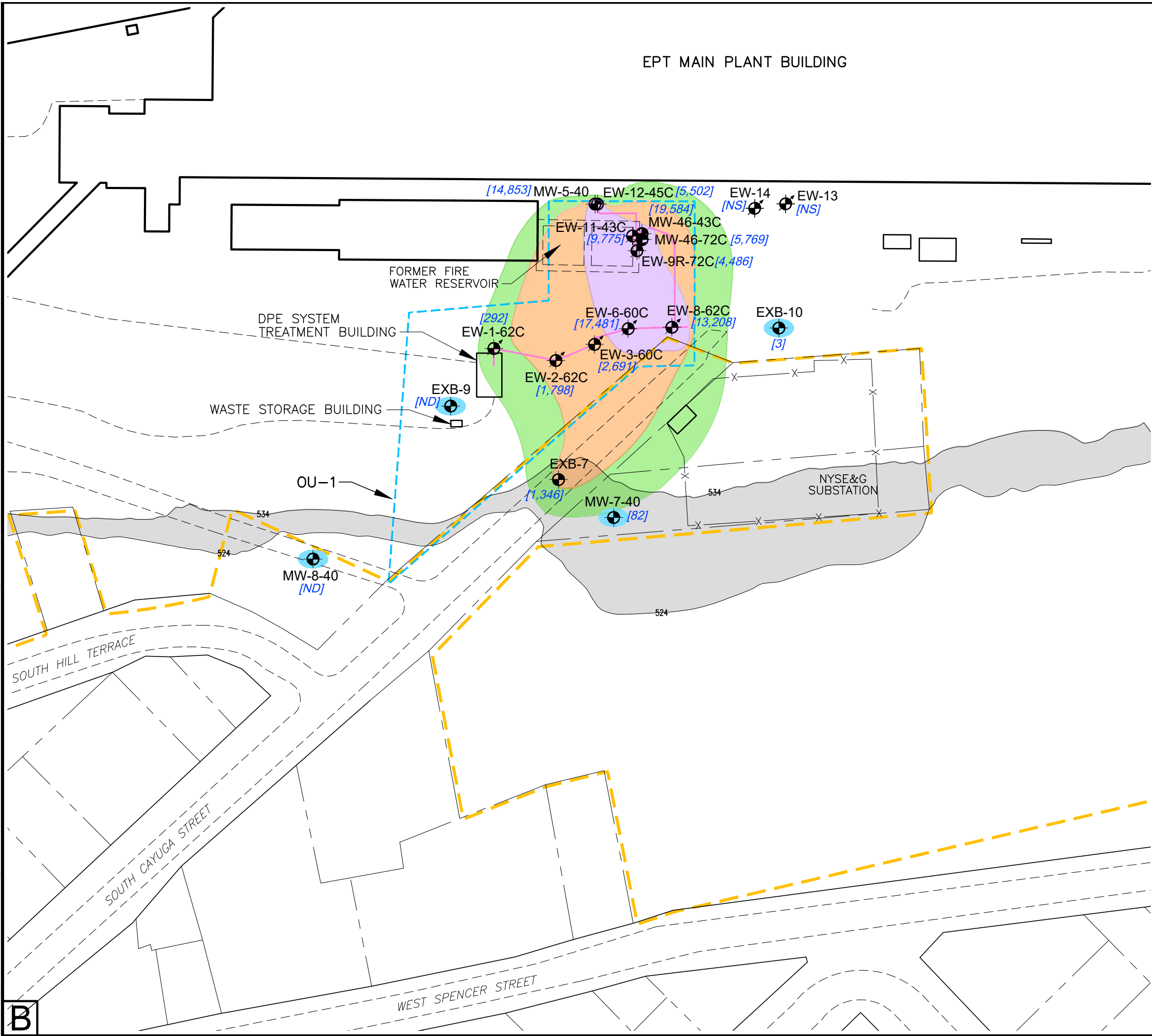
Drawn By: *RP 04/28/2024*
Checked: *JRB 08/14/2024*
Approved:
Dwg. Name: 314P5608.001-B26

FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK
PREPARED FOR
EMERSON
ST. LOUIS, MISSOURI

FIGURE 16
DISTRIBUTION OF CVOCs IN B HYDROGEOLOGIC
ZONE (FIRE WATER RESERVOIR AREA)
APRIL 2023

WSP USA Inc.
11 STANWIX STREET
SUITE 950
PITTSBURGH, PA 15222
TEL: +1 412.604.1040

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LEGEND

- MONITORING WELL
- EXTRACTION WELL

[16] TOTAL CVOCs

TOTAL CVOCs <100

DPE SYSTEM EXTRACTION AND CONVEYANCE LAYOUT

OU-1 BOUNDARY

OU-2 BOUNDARY

PROPERTY BOUNDARY

EDGE OF PAVEMENT

C-ZONE TO B-ZONE DISCHARGE ZONE

TOTAL CVOCs (INCLUDES ALL CVOCs):

100 to 1,000

>1,000 to 10,000

>10,000

CVOCs CHLORINATED VOLATILE ORGANIC COMPOUNDS - REPORTED AS MICROGRAMS PER LITER ($\mu\text{g/l}$)

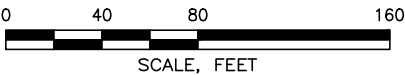
ND NOT DETECTED

NS NOT SAMPLED

NOTES:

1. HISTORICAL DATA MAY HAVE BEEN USED TO DEVELOP THE ISOCONCENTRATION LAYOUT WHERE NEEDED.

2. B-ZONE WELLS MW-31B AND MW-32B ARE SHOWN AS MONITORING WELLS WITHIN OR DOWNGRAIENT OF THE C-ZONE DISCHARGE AREA.



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FORMER EMERSON POWER TRANSMISSION

ITHACA, NEW YORK

PREPARED FOR

EMERSON

ST. LOUIS, MISSOURI

FIGURE 17

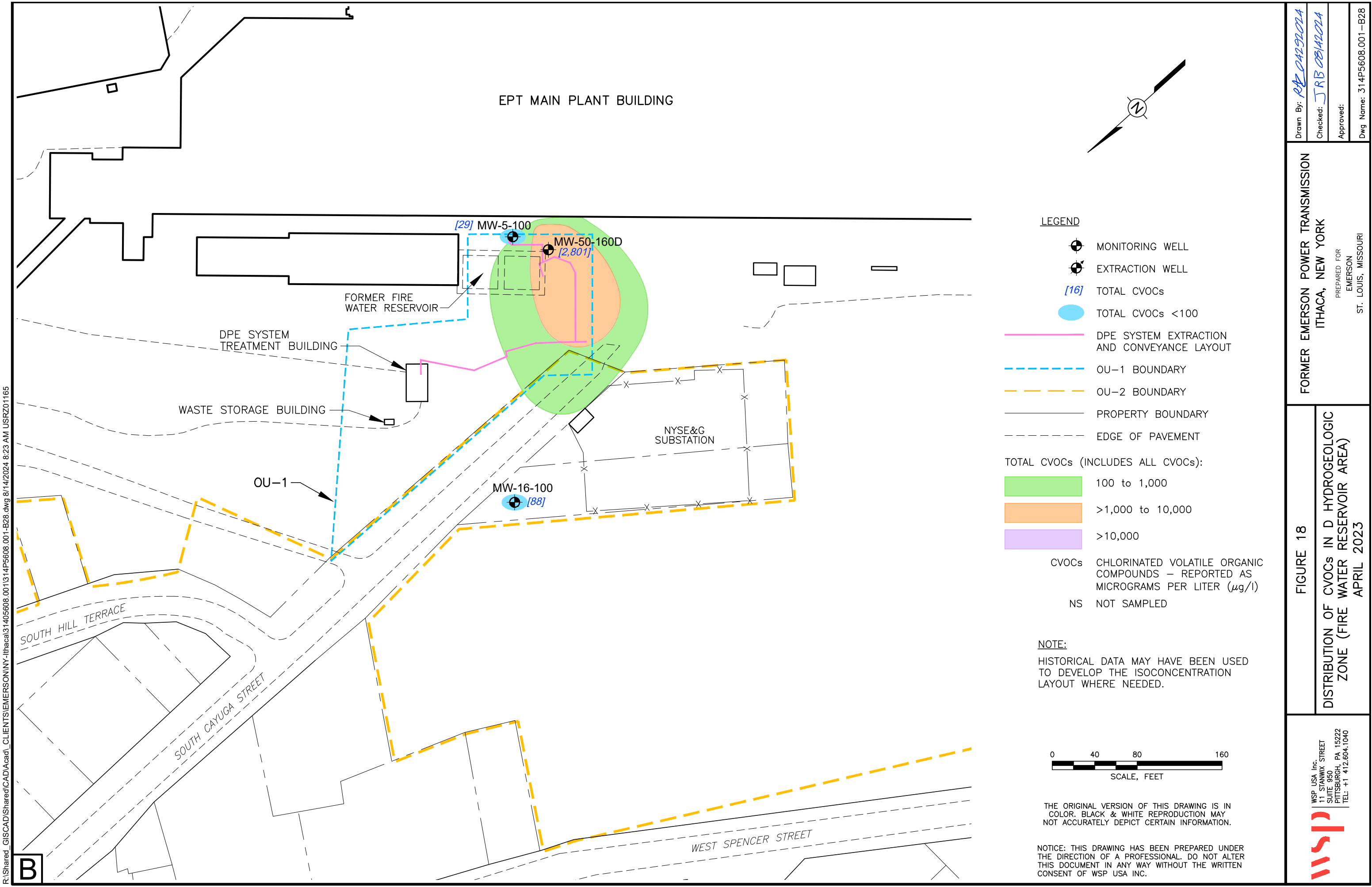
DISTRIBUTION OF CVOCs IN C HYDROGEOLOGIC

ZONE (FIRE WATER RESERVOIR AREA)

APRIL 2023

WSP USA Inc.
11 STANWIX STREET
SUITE 950
PITTSBURGH, PA 15222
TEL: +1 412.604.1040





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Drawn By: *RA 04292024*

Checked: *JRB 08142024*

Approved:

Dwg Name: 314P5608.001-B28

FORMER EMERSON POWER TRANSMISSION

ITHACA, NEW YORK

PREPARED FOR
EMERSON

ST. LOUIS, MISSOURI

FIGURE 18

DISTRIBUTION OF CVOCs IN D HYDROGEOLOGIC
ZONE (FIRE WATER RESERVOIR AREA)

APRIL 2023

WSP USA Inc.
11 STANWIX STREET
SUITE 950
PITTSBURGH, PA 15222
TEL: +1 412.604.1040

TABLES



Table 1

**Areas of Concern and Soil Cleanup Objectives
Former Emerson Power Transmission
Ithaca, New York**

<u>Area of Concern</u>	<u>Exceeded Soil Cleanup Objective Driving Interim Remedial Measure</u>			
	<u>Direct Contact</u>			<u>Protection of Groundwater</u>
	<u>Restricted Residential</u>	<u>Commercial</u>	<u>Industrial</u>	
AOC 1 - Former Department 507 Degreaser	-	-	-	X
AOC 26 - Building 24 Area	-	-	-	X
AOC 27 - Former Salt Baths Area	X	-	-	X
AOC 28 - Building 30/Oil Shed Area	-	X	-	X
AOC 29 - Former Propane Storage Area	-	X	-	-
AOC 30 - Rice Paddy	-	-	X	-
AOC 31 - Upper Parking Lot 6 Area	X	-	-	-
AOC 32 - Former Spray Pond Area	X	-	-	-
AOC 34 - Area East of Buildings 13A and 14	X	-	-	X
AOC 35A - East of Building 24	X	-	-	-
AOC 35C - Building 11A	X	-	-	X
AOC 35D - Near Parking Lot 4	X	-	-	-
AOC 35G - South of Parking Lot 3	X	-	-	-
AOC 35H - Parking Lot 3	X	-	-	-
AOC 35K - Former Railway Right-of-Way	X	-	-	-
AOC 35L - Former Railway Right-of-Way	X	-	-	-

Table 2

**Vapor Phase Extraction System Operational Time
Former Emerson Power Transmission
Ithaca, New York**

Reporting Period	Reading Date (a)	Hour Meter Reading	Total Allowable Operational Time (hours)	Downtime due to Planned System Maintenance (hours)	Downtime due to Unplanned System Maintenance (hours) (b)	Total Downtime (hours)	Operational Efficiency (%)
<i>Start Date</i>	12/31/2022	41,601	--			--	--
January	1/31/2023	42,357	744	0	0	0	100%
February	2/28/2023	43,038	672	0	0	0	100%
March	3/31/2023	43,793	744	0	0	0	100%
April	4/30/2023	44,094	720	75	344	419	42%
May	5/31/2023	44,094	744	3	741	744	0%
June	6/30/2023	44,094	720	3	717	720	0%
July	7/31/2023	44,322	744	3	513	516	31%
August	8/31/2023	44,692	744	3	371	374	50%
September	9/30/2023	44,904	720	243	265	508	30%
October	10/31/2023	45,614	744	3	31	34	95%
November	11/30/2023	46,344	720	0	0	0	100%
December	12/31/2023	47,099	744	0	0	0	100%
Total Over Reporting Period :			8,760	333	2,982	3,315	62%

a/ Reading date reflects remote telemetry reading of hour meter for B-201.

b/ Unplanned downtime due to system component malfunctions (See Report Text).

Table 3

**Aqueous Phase VOC Mass Removed
Former Emerson Power Transmission
Ithaca, New York (a)**

Sampling Period	Reading Date (b)	Total VOC Influent Concentration (µg/l)	Effluent Water Meter Reading (gallons) (b, c)	Volume of Water Extracted (gallons)	VOC Mass Removed (lbs)	Cumulative Mass Removed Since 1/20/2009 (lbs)
Start Date	12/7/2022	--	3,295,865	--	--	192.4
First Quarter 2023	2/1/2023	449	3,347,487	51,622	0.19	192.6
Second Quarter 2023	6/29/2023	7,380	3,407,671	60,184	3.71	196.3
Third Quarter 2023	9/21/2023	1,843	3,434,228	26,557	0.41	196.7
Fourth Quarter 2023	12/8/2023	3,532	3,481,105	46,877	1.38	198.1
Total Volume Over Reporting Period:				185,240	5.69	198.1
Total Days in Reporting Period:				366		
Average gallons per day:				506		
Average gallons per minute:				0.35		

a/ Abbreviations: VOC = volatile organic compound; µg/l = micrograms per liter; lbs = pounds.

b/ Reading date reflects onsite reading of the discharge flow totalizer at Outfall 01A.

c/ Recorded as the total cumulative flow since startup on January 20, 2009 from the discharge flow totalizer.

Table 4

**Aqueous Phase Sampling Results
Former Emerson Power Transmission
Ithaca, New York (a)**

Sample ID: Location: Sample Date:	WINE			
	System Influent			
	02/24/23	06/29/23	08/16/23	10/04/23
VOCs (µg/l)				
Acetone	25 U	40 U	10 U	25 U
Benzene	1.3 U	2.0 U	0.50 U	5.0 U
Bromodichloromethane	2.5 U	4.0 U	1.0 U	5.0 U
Bromoform	2.5 U	4.0 U	1.0 U	5.0 U
Bromomethane	5.0 U	8.0 U	2.0 U	5.0 U
2-Butanone (MEK)	25 U	40 U	10 U	25 U
Carbon disulfide	5.0 U	8.0 U	2.0 U	5.0 U
Carbon tetrachloride	2.5 U	4.0 U	1.0 U	5.0 U
Chlorobenzene	2.5 U	4.0 U	1.0 U	5.0 U
Chloroethane	2.5 U	4.0 U	1.0 U	5.0 U
Chloroform	2.5 U	4.0 U	1.0 U	5.0 U
Chloromethane	2.5 U	4.0 U	1.0 U	5.0 U
Cyclohexane	13 U	20 U	5.0 U	10 U
1,2-Dibromo-3-chloropropane	5.0 U	8.0 U	2.0 U	10 U
Dibromochloromethane	2.5 U	4.0 U	1.0 U	5.0 U
1,2-Dibromoethane	2.5 U	4.0 U	1.0 U	5.0 U
1,2-Dichlorobenzene	2.5 U	4.0 U	1.0 U	5.0 U
1,3-Dichlorobenzene	2.5 U	4.0 U	1.0 U	5.0 U
1,4-Dichlorobenzene	2.5 U	8.0 U	1.0 U	5.0 U
Dichlorodifluoromethane	5.0 U	4.0 U	2.0 U	10 U
1,1-Dichloroethane	2.5 U	4.0 U	1.0 U	5.0 U
1,2-Dichloroethane	2.5 U	4.0 U	1.0 U	5.0 U
1,1-Dichloroethene	2.5 U	10.7	0.9 J	4.3 J
cis-1,2-Dichloroethene	390	4,680	1,600	2,590
trans-1,2-Dichloroethene	1.4 J	83.6	5.6	36.6
1,2-Dichloropropane	2.5 U	4.0 U	1.0 U	5.0 U
cis-1,3-Dichloropropene	2.5 U	4.0 U	1.0 U	5.0 U
trans-1,3-Dichloropropene	2.5 U	4.0 U	1.0 U	5.0 U
Ethylbenzene	2.5 U	4.0 U	1.0 U	5.0 U
Freon 113	13 U	20 U	5.0 U	10 U
2-Hexanone	13 U	20 U	5.0 U	25 U
Isopropylbenzene	2.5 U	4.0 U	1.0 U	5.0 U
Methyl Acetate	13 U	20 U	5.0 U	25 U
Methylcyclohexane	13 U	20 U	5.0 U	25 U
Methyl Tert Butyl Ether	2.5 U	4.0 U	1.0 U	5.0 U
4-Methyl-2-pentanone(MIBK)	13 U	20 U	5.0 U	25 U
Methylene chloride	5.0 U	8.0 U	2.0 U	5.0 U
Styrene	2.5 U	4.0 U	1.0 U	10 U
1,1,2,2-Tetrachloroethane	2.5 U	4.0 U	1.0 U	5.0 U
Tetrachloroethene	2.5 U	4.0 U	1.0 U	5.0 U
Toluene	2.5 U	4.0 U	1.0 U	5.0 U
1,2,4-Trichlorobenzene	2.5 U	4.0 U	1.0 U	10 U
1,1,1-Trichloroethane	2.5 U	4.0 U	1.0 U	5.0 U
1,1,2-Trichloroethane	2.5 U	4.0 U	1.0 U	5.0 U
Trichloroethene	58	2,560	183	711
Trichlorofluoromethane	5.0 U	8.0 U	2.0 U	10 U
Vinyl chloride	2.5 U	45.7	53.3	190
Xylene (total)	2.5 U	4.0 U	1.0 U	5.0 U
Total VOCs (µg/l)	449	7,380	1,843	3,532

Table 4

Aqueous Phase Sampling Results
Former Emerson Power Transmission
Ithaca, New York (a)

Sample ID: Location: Sample Date:	WAS			
	Post Air-Stripper/Pre-Carbon			
	02/24/23	06/29/23	08/16/23	10/04/23
VOCs (µg/l)				
Acetone	10 U	10 U	10 U	5 U
Benzene	0.50 U	0.50 U	0.50 U	1.0 U
Bromodichloromethane	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	2.0 U	2.0 U	2.0 U	1.0 U
2-Butanone (MEK)	10 U	10 U	10 U	5 U
Carbon disulfide	2.0 U	2.0 U	2.0 U	1.0 U
Carbon tetrachloride	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	5.0 U	5.0 U	5.0 U	2.0 U
1,2-Dibromo-3-chloropropane	2.0 U	2.0 U	2.0 U	2.0 U
Dibromochloromethane	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	1.2	9.0	1.7	2.1
trans-1,2-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	1.0 U	1.0 U	1.0 U	1.0 U
Freon 113	5.0 U	5.0 U	5.0 U	2.0 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	5.0 U	5.0 U	5.0 U	5.0 U
Methylcyclohexane	5.0 U	5.0 U	5.0 U	5.0 U
Methyl Tert Butyl Ether	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone(MIBK)	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	2.0 U	2.0 U	2.0 U	1.0 U
Styrene	1.0 U	1.0 U	1.0 U	2.0 U
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	1.0 U	1.0 U	1.0 U	2.0 U
1,1,1-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	1.00 U	0.67 U	1.00 U	1.00 U
Trichlorofluoromethane	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl chloride	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	1.0 U	1.0 U	1.0 U	1.0 U
Total VOCs (µg/l)	1.2	9.7	1.7	2.1

Table 4

Aqueous Phase Sampling Results
Former Emerson Power Transmission
Ithaca, New York (a)

Sample ID: Location: Sample Date:	WMID GAC			
	Between Aqueous Carbon Vessels			
	02/24/23	06/29/23	08/16/23	10/04/23
VOCs (µg/l)				
Acetone	10 U	10 U	10 U	5 U
Benzene	0.50 U	0.50 U	0.50 U	1.0 U
Bromodichloromethane	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	2.0 U	2.0 U	2.0 U	1.0 U
2-Butanone (MEK)	10 U	10 U	10 U	5 U
Carbon disulfide	2.0 U	2.0 U	2.0 U	1.0 U
Carbon tetrachloride	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	5.0 U	5.0 U	5.0 U	2.0 U
1,2-Dibromo-3-chloropropane	2.0 U	2.0 U	2.0 U	2.0 U
Dibromochloromethane	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	6.8	6.3	1 U	1 U
trans-1,2-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	1.0 U	1.0 U	1.0 U	1.0 U
Freon 113	5.0 U	5.0 U	5.0 U	2.0 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	5.0 U	5.0 U	5.0 U	5.0 U
Methylcyclohexane	5.0 U	5.0 U	5.0 U	5.0 U
Methyl Tert Butyl Ether	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone(MIBK)	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	2.0 U	2.0 U	2.0 U	1.0 U
Styrene	1.0 U	1.0 U	1.0 U	2.0 U
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	1.0 U	1.0 U	1.0 U	2.0 U
1,1,1-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl chloride	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	1.0 U	1.0 U	1.0 U	1.0 U
Total VOCs (µg/l)	6.8	6.3	ND	ND

Table 4

**Aqueous Phase Sampling Results
Former Emerson Power Transmission
Ithaca, New York (a)**

Sample ID: Location: Sample Date:	WPOST GAC			
	Post-Carbon (System Discharge)			
	02/24/23	06/29/23	08/16/23	10/04/23
VOCs (µg/l)				
Acetone	10 U	10 U	10 U	4.1 J
Benzene	0.50 U	0.50 U	0.50 U	1.00 U
Bromodichloromethane	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	2.0 U	2.0 U	2.0 U	1.0 U
2-Butanone (MEK)	10 U	10 U	10 U	5 U
Carbon disulfide	2.0 U	2.0 U	2.0 U	1.0 U
Carbon tetrachloride	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	5.0 U	5.0 U	5.0 U	2.0 U
1,2-Dibromo-3-chloropropane	2.0 U	2.0 U	2.0 U	2.0 U
Dibromochloromethane	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	3.7	1.0 U	4.3	4.6
trans-1,2-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	1.0 U	1.0 U	1.0 U	1.0 U
Freon 113	5.0 U	5.0 U	5.0 U	2.0 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	5.0 U	5.0 U	5.0 U	5.0 U
Methylcyclohexane	5.0 U	5.0 U	5.0 U	5.0 U
Methyl Tert Butyl Ether	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone(MIBK)	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	2.0 U	2.0 U	2.0 U	1.0 U
Styrene	1.0 U	1.0 U	1.0 U	2.0 U
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	1.0 U	1.0 U	1.0 U	2.0 U
1,1,1-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl chloride	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	1.0 U	1.0 U	1.0 U	1.0 U
Total VOCs (µg/l)	3.7	ND	4.3	8.7

a/ Abbreviations: VOC = volatile organic compound; µg/l = micrograms per liter; J = estimated concentration below reporting limit; U = compound not detected; ND = no compounds detected.

Table 5

**Vapor Phase VOC Mass Removed
Former Emerson Power Transmission
Ithaca, New York (a)**

Sampling Period	Reading Date (b)	Total VOC Influent Concentration (mg/m ³)	Vacuum Blower Meter Reading (hrs) (b)	Sampling Period Vacuum Blower Run Time (hrs)	TCE mass flux (lbs/hr)	1,2-DCE mass flux (lbs/hr)	PCE mass flux (lbs/hr)	1,1-DCE mass flux (lbs/hr)	VC mass flux (lbs/hr)	Quarterly Average Air Flow (m ³ /hr)	Total VOC mass flux (lbs/hr) (c)	VOC Mass Removed (lbs)	Cumulative Mass Removed Since 1/20/2009 (lbs)
Start Date	12/31/2022	--	41,601	--	--	--	--	--	--	--	--	--	4,592.5
First Quarter 2023	3/31/2023	0.6	43,793	2,192	0.000	0.000	ND	ND	0.000	442	0.001	1.3	4,593.8
Third Quarter 2023	9/30/2023	1.8	44,904	1,111	0.001	0.001	ND	ND	0.000	442	0.002	1.9	4,595.7
Fourth Quarter 2023	12/31/2023	4.6	47,099	2,195	0.001	0.003	0.000	0.000	0.000	442	0.004	9.8	4,605.6
Total Over Reporting Period:												13.1	4,605.6

- a/ Abbreviations; VOC = volatile organic compound; mg/m³ = milligrams per cubic meter; hrs = hours; lbs = pounds; lbs/hr = pounds per hour; m³/hr = cubic meters per hour; TCE = Trichloroethene; 1,2-DCE = cis/trans-1,2-Dichloroethene; PCE = Tetrachloroethene; 1,1-DCE = 1,1-Dichloroethene; VC = Vinyl chloride; ND = non detect.
- b/ Reading date reflects remote telemetry reading of hour meter for B-201.
- c/ Mass flux calculations based on an average monthly field measurement of system flow capacity over the operating period.

Table 6

Vapor Phase Sampling Results
Former Emerson Power Transmission
Ithaca, New York (a)

Sample ID: Sample Date:	Molecular Weight	VINP					
		02/24/23		08/16/23		10/04/23	
		(ppmv)	(mg/m ³)	(ppmv)	(mg/m ³)	(ppmv)	(mg/m ³)
Units:	(g/mol)						
VOCs							
1,1-Dichloroethene	96.9	0.0002 U	0.0006 U	0.0004 U	0.0016 U	0.0022	0.0087
cis-1,2-Dichloroethene	96.9	0.1000	0.3960	0.2870	1.1400	0.7390	2.9300
trans-1,2-Dichloroethene	96.9	0.0005 J	0.0019 J	0.0021	0.0083	0.0058	0.0230
Tetrachloroethene	165.8	0.0002 U	0.0011 U	0.0004 U	0.0027 U	0.0003	0.0018
Trichloroethene	131.4	0.0409	0.2200	0.1040	0.5590	0.2630	1.4100
Vinyl Chloride	62.5	0.0060	0.0150	0.0209	0.0534	0.0934	0.2390
Total VOCs:		0.15	0.63	0.41	1.76	1.10	4.61

Sample ID: Sample Date:	Molecular Weight	VPOST GAC					
		02/24/23		08/16/23		10/04/23	
		(ppmv)	(mg/m ³)	(ppmv)	(mg/m ³)	(ppmv)	(mg/m ³)
Units:	(g/mol)						
VOCs							
1,1-Dichloroethene	96.9	0.0002 U	0.0006 U	0.0002 U	0.0006 U	0.0002 U	0.0006 U
cis-1,2-Dichloroethene	96.9	0.0344	0.1360	0.0018	0.0071	0.1870	0.7410
trans-1,2-Dichloroethene	96.9	0.0008 U	0.0032 U	0.0008 U	0.0032 U	0.0008	0.0033
Tetrachloroethene	165.8	0.0002 U	0.0011 U	0.0002 U	0.0011 U	0.0002	0.0011
Trichloroethene	131.4	0.0110	0.0591	0.0008	0.0042	0.0674	0.3620
Vinyl Chloride	62.5	0.0013	0.0033	0.0002 U	0.0004	0.0084	0.0210
Total VOCs:		0.05	0.20	0.00	0.01	0.26	1.13

a/ Abbreviations: VOC = volatile organic compound; g/mol = grams per mole; ppmv = parts per million by volume; mg/m³ = milligrams per cubic meter; U = compound not detected; ND = compound not detected.

Table 7

Well Construction Details and Monitoring Program
Former Emerson Power Transmission Facility
Ithaca, New York (a)

		Installation Date	State Plane Coordinates		Elevations (feet AMSL)		Total Depth		Diameter	Screened Interval		Monitored Zone	Sampling Frequency (b)	Parameters (c)	Sampling Method
			Easting	Northing	Ground Surface	Top of Casing	(feet bgs)	(feet AMSL)		(feet bgs)	(feet AMSL)				
Well ID															
EW-01B		09/2005	843106.18	886208.09	564.92	564.54	17.5	547.42	2	7 - 17	557.9 - 547.9	B	Annual - Fall	Water Level Only	-
EW-1-62C	(d)	08/2007	843159.95	886285.60	566.59	565.34	62	504.59	6	18.7 - 62.7	547.9 - 503.9 (b)	C	Annual - Fall	VOCs	Bailer/Tap Grab
EW-2-62C	(d)	-	843119.30	886255.15	565.33	563.93	60.5	504.82	2.75	18.7 - 62.7	546.6 - 502.6 (b)	C	Annual - Fall	VOCs	Bailer/Tap Grab
EW-3-60C	(d)	-	843108.21	886223.35	565.12	563.28	60.6	504.52	-	19.2 - 60.6	545.9 - 504.5 (b)	C	Annual - Fall	VOCs	Bailer/Tap Grab
EW-4-25B		10/2008	843107.29	886221.29	564.04	562.90	25.5	538.54	-	15 - 25	549.0 - 539.0	B	Annual - Fall	VOCs	Bailer/Tap Grab
Tabl		09/2008	843100.60	886196.14	564.49	563.37	25.2	539.29	-	15 - 25	549.5 - 539.5	B	Annual - Fall	VOCs	Bailer/Tap Grab
EW-6-60C		-	843099.51	886194.81	564.49	563.84	54	510.51	-	19.2 - 60.6	545.3 - 503.9 (b)	C	Annual - Fall	VOCs	Bailer/Tap Grab
EW-7-25B		09/2008	843084.17	886176.33	563.28	561.76	25	538.28	-	15 - 25	548.3 - 538.3	B	Annual - Fall	VOCs	Bailer/Tap Grab
EW-8-62C		08/2007	843076.90	886167.91	562.94	561.82	61.5	501.44	-	23.5 - 61.5	539.4 - 501.4 (b)	C	Annual - Fall	VOCs	Bailer/Tap Grab
EW-9R-72C		06/2019	843141.55	886147.62	586.13	585.19	79.3	506.83	4	55 - 79.3	531.1 - 506.8 (b)	C	Annual - Fall	VOCs	Bailer/Tap Grab
EW-10-25B		09/2008	843068.65	886158.34	563.04	561.82	25	538.04	-	15 - 25	548.0 - 538.0	B	Annual - Fall	VOCs	Bailer/Tap Grab
EW-11-43C	(d)	03/2011	843153.00	886142.06	586.80	586.2	45	541.80	4	25 - 45	561.8 - 541.8 (b)	C	Annual - Fall	VOCs	Bailer/Tap Grab
EW-12-45C	(d)	08/2007	843188.42	886146.63	587.05	586.47	45	542.05	4	25 - 45	562.1 - 542.1 (b)	C	Annual - Fall	VOCs	Bailer/Tap Grab
EW-13												C	Annual - Fall	VOCs	Bailer/Tap Grab
EW-14												C	Annual - Fall	VOCs	Bailer/Tap Grab
EXB-07		08/2007	843046.56	886317.64	529.19	529.06	25	504.19	-	5 - 25	524.2 - 504.2 (b)	C	Annual - Fall	VOCs	Low Flow
EXB-09		05/2008	843148.53	886342.70	565.83	565.19	64	501.83	-	-	- (b)	C	Semiannual - Spring/Fall	VOCs	Low Flow
EXB-10		05/2008	843018.96	886104.16	560.34	560.07	64	496.34	-	-	- (b)	C	Semiannual - Spring/Fall	VOCs	Low Flow
EXB-11		05/2008	843046.16	886295.68	532.82	532.43	80	452.82	-	-	- (b)	C	Semiannual - Spring/Fall	VOCs	Low Flow
MW-1B		07/2004	843143.24	886274.67	566.40	566.34	20	546.60	4	14.8 - 20	551.6 - 547	B	Semiannual - Spring/Fall	VOCs	Bailer Purge
MW-2B		10/2003	843116.22	886211.86	564.74	564.00	20.5	544.24	4	10.5 - 20.5	554.2 - 544.2	B	Semiannual - Spring/Fall	VOCs	Bailer Purge
MW-3B		10/2003	843101.31	886199.75	564.46	564.24	25	539.46	4	15 - 25	549.5 - 539.5	B	Semiannual - Spring/Fall	VOCs	Bailer Purge
MW-4B		07/2004	843025.61	886110.77	561.36	563.83	23	538.36	4	15 - 20	546.4 - 541.4	B	Semiannual - Spring/Fall	VOCs	Bailer Purge
MW-5B		10/2003	843087.01	886183.36	563.35	563.22	21	542.35	4	11 - 21	552.4 - 542.4	B	Semiannual - Spring/Fall	VOCs	Bailer Purge
MW-5-40		07/1988	843192.04	886147.65	587.03	586.43	40.3	546.73	3	17.3 - 40.3	569.7 - 546.7 (b)	B	Semiannual - Spring/Fall	VOCs	Bailer Purge
MW-5-100		08/1989	843188.52	886143.83	587.03	586.23	99	488.03	2	79 - 99	508.0 - 488.0	D	Semiannual - Spring/Fall	VOCs	Bailer Purge
MW-6B		10/2003	843468.17	886629.39	560.01	559.59	20	540.01	4	10 - 20	550.0 - 540.0	B	Semiannual - Spring/Fall	Water Level Only	-
MW-7B		08/2007	843133.79	886125.10	587.53	587.26	21	566.53	4	10 - 20	577.5 - 567.5	B	Semiannual - Spring/Fall	VOCs	Bailer Purge
MW-7-40		07/1988	842994.20	886304.99	531.11	533.00	38	493.11	3	18 - 38	513.1 - 493.1 (b)	C	Annual - Fall	VOCs	Low-Flow
MW-8B		08/2007	843183.09	886137.66	587.12	586.64	21.3	565.82	4	10 - 20	577.1 - 567.1	B	Semiannual - Spring/Fall	Water Level Only	-
MW-8-40		07/1988	843130.89	886507.35	518.27	517.98	43.2	475.07	3	17.1 - 43.2	501.2 - 475.1 (b)	C	Annual - Fall	VOCs	Bailer Purge
MW-12B		03/2011	843047.28	886050.95	555.66	555.20	15.4	540.26	2	5.4 - 15.4	550.3 - 540.3	B	Semiannual - Spring/Fall	Water Level Only	-
MW-16-100		08/1988	843001.02	886309.73	530.86	533.47	100	430.86	2	80 - 100	450.9 - 430.9	D	Annual - Fall	VOCs	Low-Flow
MW-18A		02/2005	842535.84	886413.92	396.38	396.13	20	376.38	2	10 - 20	386.4 - 376.4 (b)	B	Annual - Fall	VOCs	Bailer Purge
MW-19B	(e)	12/2023	842952.55	885744.62								B	Annual - Fall	Cyanide	Low-Flow
MW-20B		03/2005	843121.55	886496.75	517.53	516.09	20.2	497.33	2	15.2 - 20.2	502.3 - 497.3	B	Annual - Fall	VOCs	Bailer Purge
MW-22B		03/2005	843247.83	886844.08	490.95	489.46	16.5	474.45	2	11.5 - 16.5	479.5 - 474.5	B	Annual - Fall	VOCs	Bailer Purge
MW-30B		08/2005	842868.03	886178.14	532.55	534.64	24.5	508.05	2	17.5 - 24.5	515.1 - 508.1	B	Semiannual - Spring/Fall	Water Level Only	-
MW-31B		08/2005	842942.15	886296.68	532.52	533.45	24.5	508.02	2	17.5 - 24.5	515.0 - 508.0	B	Annual - Fall	VOCs	Low-Flow
MW-32B		08/2005	843045.08	886412.97	514.49	512.78	11	503.49	2	5 - 11	509.5 - 503.5	B	Annual - Fall	VOCs	Bailer Purge
MW-40T		09/2007	843620.56	886481.76	593.30	592.97	30.6	562.70	2	9 - 19	584.3 - 574.3	B	Annual - Fall	VOCs	Bailer Purge
MW-44T		09/2007	842927.90	885982.86	558.67	558.22	50.0	508.67	2	41 - 46	517.7 - 512.7	C	Annual - Fall	Barium, Cyanide	Low-Flow
MW-46-43C		07/2017	843149.06	886135.37	586.83	586.55	50	536.58	2	40 - 50	546.8 - 536.8	C	Semiannual - Spring/Fall	VOCs	Bailer Purge
MW-46-72C		07/2017	843145.54	886138.55	586.04	585.10	84	502.24	2	68.6 - 83.6	517.4 - 502.4	C	Semiannual - Spring/Fall	VOCs	Bailer Purge
MW-50-160D		06/2021	843157.05	886127.02	-	-	163.7	-	4	84 - 160	- -	D	Semiannual - Spring/Fall	VOCs	Low Flow Purge
WSP-MW-04B		11/2015	842307.23	884980.93	593.85	593.57	41.2	552.65	2	26.2 - 41.2	567.7 - 552.7	B	Annual - Fall	Metals, Cyanide, VOCs	Low-Flow
WSP-MW-06C		12/2015	842757.85	885673.66	585.06	584.72	66.0	519.06	2	55.8 - 65.8	529.3 - 519.3	C	Annual - Fall	Barium	Low-Flow
LBA-MW-08		08/2013	843020.84	885709.05	599.55	600.06	18.4	581.15	2	3.4 - 18.4	596.2 - 581.2	B	Annual - Fall	Cyanide	Low-Flow
LBA-MW-13	(f)	08/2013	842287.12	884843.69	611.8	614.47	25.0	586.80	2	15.0 - 25.0	596.8 - 586.8	B	Annual - Fall	Cyanide	Low-Flow
LBA-MW-18		08/2013	843185.61	885790.13	612.46	615.23	13.4	599.06	2	3.4 - 13.4	609.1 - 599.1	B	Annual - Fall	Barium	Low-Flow
LBA-MW-23		08/2013	843590.27	886615.29	578.44	580.39	22.8	555.64	2	7.8 - 22.8	570.6 - 555.6	B	Annual - Fall	VOCs	Bailer Purge
LBA-MW-26		08/2013	842872.44	885815.25	581.86	581.57	44	537.86	2	34 - 44	547.9 - 537.9	C	Annual - Fall	Barium	Low-Flow
LBA-MW-30		09/2013	843234.05	886389.37	566.77	566.43	25	541.77	2	15 - 25	551.8 - 541.8	B	Annual - Fall	Barium, Cyanide	Low-Flow
LBA-MW-34N		12/2013	843366.49	886275.74	587.63	587.35	21	566.63	4	4 - 21	583.6 - 566.6	B	Annual - Fall	VOCs, Barium	Low-Flow
LBA-MW-35		12/2013	843182.73	885786.82	-	612.58	32	-	4	5.1 - 32	-	B	Annual - Fall	Barium, Cyanide	Low-Flow
LBA-MW-39		12/2013	842880.05	885810.29	583.06	582.61	25.5	557.56	4	14 - 25.5	569.1 - 557.6	B	Annual - Fall	VOCs, Cyanide	Low-Flow
LBA-MW-43N		12/2013	843023.26	885681.37	612.50	612.17	25	587.50	4	8 - 25	604.5 - 587.5	B	Annual - Fall	Cyanide	Low-Flow
LBA-MW-43S		12/2013	843020.13	885677.87	612.51	612.23	47	565.51	2	36 - 47	576.5 - 565.5	C	Annual - Fall	Barium, Cyanide	Low-Flow

a/ ID = identification; AMSL = above mean sea level; bgs = below ground surface; PVC = polyvinyl chloride; SS = stainless steel; NA = not applicable; "-" information not available.

b/ Open borehole.

c/ Analytical Parameters include: VOCs = SW846 8260D, Barium = SW846 6010D, Cyanide = EPA 335.4

d/ EW-1-62C (Formerly EXB-05)

EW-2-62C (Formerly EW-01)

EW-3-60C (Formerly EW-02)

EW-11-43C (Formerly MW-14C)

EW-12-45C (Formerly EXB-02)

e/ LBA-MW-19 was found to be abandoned; therefore, upond NYSDEC request the well was replaced in December 2023 by well MW-19B.

f/ LBA-MW-13 was damaged and thus not sampled during the Revised Site-Wide Groundwater Monitoring Program; WSP-MW-08B was added as a downgradient monitoring well to the 2024 Site-Wide Monitoring Program.

Table 8

**April 2023 Groundwater Elevation Measurements
Former Emerson Power Transmission
Ithaca, New York (a)**

Well ID	DPE System On (04/14/2023)			DPE System Off (04/17/2023)			DPE System Drawdown
	Top of casing	Depth to	Groundwater	Depth to	Depth to	Groundwater	Depth of Drawdown (ft)
	Elevation (ft amsl)	Product (ft)	Depth to Groundwater (ft)	Elevation (ft amsl)	Product (ft)	Groundwater Elevation (ft amsl)	
A-Zone Wells							
MW-18A	396.13	NM	NM	NM	NM	NM	NM
B-Zone Wells							
EW-01B	564.54	-	12.65	551.89	-	9.70	2.95
EW-4-25B	562.90	-	20.69	542.21	-	17.28	3.41
EW-5-25B	563.37	-	18.88	544.49	-	9.24	9.64
EW-7-25B	561.76	-	13.30	548.46	-	9.50	3.80
EW-11-43C	585.07	-	37.04	548.03	-	22.31	14.73
EXB-11	532.43	-	57.68	474.75	-	57.22	0.46
MW-1B	566.34	-	12.42	553.92	-	11.48	0.94
MW-2B	564.00	-	11.43	552.57	-	9.33	2.10
MW-3B	564.24	-	15.27	548.97	-	10.32	4.95
MW-4B	563.83	-	19.26	544.57	-	19.08	0.18
MW-5B	563.22	-	15.99	547.23	-	15.00	0.99
MW-6B	560.87	-	12.79	548.08	-	12.50	0.29
MW-7B	587.26	-	14.97	572.29	-	16.00	-1.03
MW-8B	586.64	-	9.04	577.60	-	8.79	0.25
MW-12B	555.20	-	2.17	553.03	-	2.11	0.06
MW-19B	NA	NM	NM	NM	NM	NM	NM
MW-20B	516.09	-	11.95	504.14	-	11.62	0.33
MW-22B	489.46	NM	NM	NM	NM	NM	NM
MW-30B	533.48	-	15.63	517.85	-	15.79	-0.16
MW-31B	533.45	NM	NM	NM	NM	NM	NM
MW-32B	512.78	-	4.47	508.31	-	4.38	0.09
MW-40T	592.97	NM	NM	NM	NM	NM	NM
LBA-MW-08	600.06	NM	NM	NM	NM	NM	NM
LBA-MW-18	615.23	NM	NM	NM	NM	NM	NM
LBA-MW-23	580.39	NM	NM	NM	NM	NM	NM
LBA-MW-26	581.57	NM	NM	NM	NM	NM	NM
LBA-MW-30	566.43	NM	NM	NM	NM	NM	NM
LBA-MW-34N	587.35	NM	NM	NM	NM	NM	NM
LBA-MW-35	612.58	NM	NM	NM	NM	NM	NM
LBA-MW-39	582.61	NM	NM	NM	NM	NM	NM
LBA-MW-43N	612.17	NM	NM	NM	NM	NM	NM
WSP-MW-04B	593.57	NM	NM	NM	-	23.16	570.41
C-Zone Wells							
EW-1-62C	565.34	-	37.52	527.82	-	NM	NM
EW-2-62C	563.93	-	56.50	507.43	-	36.21	20.29
EW-3-60C	563.28	-	56.65	506.63	-	34.39	22.26
EW-6-60C	563.84	-	47.25	516.59	-	34.98	12.27
EW-8-62C	561.82	-	28.73	533.09	-	28.01	0.72
EW-9R-72C	585.10	-	72.05	513.05	-	57.30	14.75
EW-10-25B	561.82	-	13.89	547.93	-	10.22	3.67
EW-12-45C	586.47	-	43.66	542.81	-	39.03	4.63
EW-13	NA	NM	NM	NM	NM	NM	NM
EW-14	NA	NM	NM	NM	NM	NM	NM
EXB-7	529.06	-	4.48	524.58	-	4.25	0.23
EXB-9	565.19	-	46.07	519.12	-	37.90	8.17
EXB-10	560.07	-	39.24	520.83	-	30.93	8.31
MW-5-40	586.43	-	28.92	557.51	-	28.91	0.01
MW-7-40	533.00	NM	NM	NM	NM	NM	NM
MW-8-40	517.98	NM	NM	NM	NM	NM	NM
MW-44T	558.22	-	23.53	534.69	-	23.88	-0.35
MW-46-43C	586.55	-	30.83	555.72	-	30.85	-0.02
MW-46-72C	586.21	-	71.49	514.72	-	67.36	4.13
LBA-MW-43S	512.23	NM	NM	NM	NM	NM	NM
WSP-MW-06C	584.72	NM	NM	NM	NM	NM	NM
D-Zone Wells							
MW-50-160D	587.42	-	121.02	466.40	-	105.12	15.90
MW-5-100	586.21	-	94.22	491.99	-	94.11	0.11
MW-16-100	533.47	NM	NM	NM	NM	NM	NM

a/ Abbreviations: ft = feet; amsl = above Mean Sea Level; "-" = no measureable thickness of free-phase petroleum product; "NM" = no measurement taken; "NA" = not available

Table 9

**September 2023 Groundwater Elevation Measurements
Former Emerson Power Transmission
Ithaca, New York (a)**

DPE System Off (09/18/2023)				
Well ID	Top of casing Elevation (ft amsl)	Depth to Product (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft amsl)
B-Zone Wells				
EXB-11	532.43	-	57.22	475.21
MW-1B	566.34	-	12.96	553.38
MW-2B	564.00	-	12.32	551.68
MW-3B	564.24	-	14.59	549.65
MW-4B	563.83	-	19.40	544.43
MW-5B	563.22	-	16.44	546.78
MW-6B	560.87	-	12.84	548.03
MW-7B	587.26	-	17.26	570.00
MW-8B	586.64	9.51	9.52	577.12
MW-12B	555.20	-	2.39	552.81
MW-30B	533.48	-	17.29	516.19
C-Zone Wells				
EXB-9	565.19	-	36.72	528.47
EXB-10	560.07	-	33.49	526.58
MW-5-40	586.43	-	29.12	557.31
MW-46-43C	586.55	-	31.54	555.01
MW-46-72C	586.21	-	69.09	517.12
D-Zone Wells				
MW-50-160D	587.42	-	101.96	485.46
MW-5-100	586.21	-	93.61	492.60

a/ Abbreviations: ft = feet; amsl = above Mean Sea Level; "-" = no measureable thickness of free-phase petroleum product; "NM" = no measurement taken

Table 10

April 2023 Groundwater Sampling Results
Former Emerson Power Transmission
Ithaca, New York (a)

		DPE System Effectiveness Monitoring								Site-Wide Monitoring Program											
	Well ID:	MW-1B	MW-2B	MW-3B	MW-4B	MW-5B	MW-5-40	MW-5-100	MW-7B	MW-7-40	MW-8-40	MW-16-100	MW-18A	MW-19B (b)	MW-20B	MW-22B	MW-31B	MW-32B	MW-40T	MW-44T	
	Sample ID:	MW-1B	MW-2B	MW-3B	MW-4B	MW-5B	MW-5-40	MW-5-10D	MW-7B	MW-7-40	MW-8-40	MW-16-10D	MW-18A	MW-19B	MW-20B	MW-22B	MW-31B	MW-32B	MW-40T	MW-44T	
	Date:	4/19/2023	4/19/2023	4/20/2023	4/20/2023	4/20/2023	4/20/2023	4/20/2023	4/20/2023	4/18/2023	4/21/2023	4/18/2023	4/21/2023	12/27/2023	4/21/2023	4/21/2023	4/18/2023	4/21/2023	4/19/2023	4/17/2023	
VOCs (µg/l)	Evaluation Criteria (c)																				
Acetone	50	10 U	500 U	100 U	10 U	50 U	500 U	10 U	10 U	10 U	10 U	10 U	3.3 J	-	10 U	10 U	10 U	10 U	10 U	-	
Benzene	1	0.50 U	25 U	5.0 U	0.5 U	2.5 U	25 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	-	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	-	
Bromodichloromethane	50	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
Bromoform	50	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
Bromomethane	5	2.0 U	100 U	20 U	2.0 U	10 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	
2-Butanone (MEK)	50	10 U	500 U	100 U	10 U	50 U	500 U	10 U	10 U	10 U	10 U	10 U	10 U	-	10 U	10 U	10 U	10 U	10 U	-	
Carbon Disulfide	60	2.0 U	100 U	20 U	2.0 U	10 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	
Carbon Tetrachloride	5	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
Chlorobenzene	5	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
Chloroethane	5	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	3.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
Chloroform	7	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
Chloromethane	5	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
Cyclohexane	-	5.0 U	250 U	50 U	5.0 U	25 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	
1,2-Dibromo-3-chloropropane	4	2.0 U	100 U	20 U	2.0 U	10 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	
Dibromochloromethane	50	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
1,2-Dibromoethane	6	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
1,2-Dichlorobenzene	3	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
1,3-Dichlorobenzene	3	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
1,4-Dichlorobenzene	3	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
Dichlorodifluoromethane	5	2.0 U	100 U	20 U	2.0 U	10 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	
1,1-Dichloroethane	5	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	0.99 J	-	
1,2-Dichloroethane	0.6	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
1,1-Dichloroethene	5	1.0 U	50 U	12	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	7.8	-	
cis-1,2-Dichloroethene	5	15.6	4,980	5,100	1.0 U	705	8,650	17	1.0 U	79.4	1.0 U	15.3	1.0 U	-	1.0 U	0.8 J	1.0 U	6.7	2,270	-	
trans-1,2-Dichloroethene	5	1.0 U	50 U	36.2	1.0 U	10.2	253	1.0 U	1.0 U	0.57 J	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	24.2	-	
1,2-Dichloropropane	1	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
cis-1,3-Dichloropropene	0.4	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
trans-1,3-Dichloropropene	0.4	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
Ethylbenzene	5	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
Freon 113	5	5.0 U	250 U	50 U	5.0 U	25 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	
2-Hexanone	50	5.0 U	250 U	50 U	5.0 U	25 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	
Isopropylbenzene	5	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
Methyl Acetate	-	5.0 U	250 U	50 U	5.0 U	25 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	
Methylcyclohexane	-	5.0 U	250 U	50 U	5.0 U	25 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	
Methyl Tert Butyl Ether	10	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
4-Methyl-2-pentanone (MIBK)	-	5.0 U	250 U	50 U	5.0 U	25 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	
Methylene chloride	5	2.0 U	100 U	20 U	2.0 U	10 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	
Styrene	5	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
1,1,2,2-Tetrachloroethane	5	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
Tetrachloroethene	5	26.2	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
Toluene	5	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
1,2,4-Trichlorobenzene	5	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
1,1,1-Trichloroethane	5	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
1,1,2-Trichloroethane	1	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
Trichloroethene	5	1.0 U	8,160	4,650	1.0 U	383	2,080	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	13.2	18	73.6	-	
Trichlorofluoromethane	5	2.0 U	100 U	20 U	2.0 U	10 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	
Vinyl chloride	2	1.0 U	46.4 J	119	0.63 J	47.7	3,870	11.6	1.0 U	1.6	1.0 U	73.1	1.0 U	-	1.0 U	0.91 J	1.0 U	1.0 U	176	-	
Xylene (total)	5	1.0 U	50 U	10 U	1.0 U	5.0 U	50 U	1 U	1.0 U	1.0 U	1.0 U	1 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	
Total VOCs:		41.8	13,186	9,917	1	1,146	14,853	32	ND	82	ND	88	3	-	ND	2	13	25	2,553	-	
Total Site CVOCs:		41.8	13,186	9,917	1	1,146	14,853	29	ND	82	ND	88	ND	-	ND	2	13	25	2,552	-	
General Chemistry:																					
Barium (µg/l)	1,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80.1 J	-	-	1,860	
Cyanide (mg/l)	0.2	-	-	-	-	-	-	-	-	-	-	-	-	91.2	-	-	-	-	-	0.019	

Table 10

**April 2023 Groundwater Sampling Results
Former Emerson Power Transmission
Ithaca, New York (a)**

		DPE System Effectiveness Monitoring			Site-Wide	DPE System Effectiveness			Site-Wide Monitoring Program		DPE System Effectiveness Monitoring									
	Well ID:	MW-46-43C	MW-46-72C	MW-50-160D	EXB-7	EXB-9	EXB-10	WSP-MW-04B	WSP-MW-06C	EW-01-62C	EW-02-62C	EW-03-60C	EW-04-25B	EW-05-25B	EW-06-60C	EW-07-25B	EW-08-62C	EW-9R-72C	EW-10-25B	
	Sample ID:	MW-46-43C	MW-46-72C	MW-50-160D	EXB-7	EXB-9	EXB-10	WSP-MW-04B	WSP-MW-06C	EW-01-62C	EW-02-62C	EW-03-60C	EW-04-25B	EW-05-25B	EW-06-60C	EW-07-25B	EW-08-62C	EW-9R-72C	EW-10-25B	
	Date:	4/20/2023	4/20/2023	4/17/2023	4/18/2023	4/17/2023	4/17/2023	4/18/2023	4/18/2023	4/20/2023	4/20/2023	4/20/2023	4/20/2023	4/20/2023	4/20/2023	4/20/2023	4/20/2023	4/20/2023	4/20/2023	
VOCs (µg/l)	Evaluation Criteria (c)																			
Acetone	50	500 U	10 U	50 U	50 U	10 U	10 U	10 U	-	7.7 J	10 U	40 U	40 U	50 U	500 U	100 U	500 U	200 U	10 U	
Benzene	1	25 U	0.5 U	2.5 U	2.5 U	0.5 U	1.4	0.5 U	-	0.5 U	0.5 U	2.0 U	2.0 U	2.5 U	25 U	5.0 U	25 U	10 U	0.5 U	
Bromodichloromethane	50	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
Bromoform	50	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
Bromomethane	5	100 U	2.0 U	10 U	10 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	8.0 U	8.0 U	10 U	100 U	20 U	100 U	40 U	2.0 U	
2-Butanone (MEK)	50	500 U	10 U	50 U	50 U	10 U	10 U	10 U	-	10 U	10 U	40 U	40 U	50 U	500 U	100 U	500 U	200 U	10 U	
Carbon Disulfide	60	100 U	2.0 U	10 U	10 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	8.0 U	8.0 U	10 U	100 U	20 U	100 U	40 U	2.0 U	
Carbon Tetrachloride	5	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
Chlorobenzene	5	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
Chloroethane	5	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
Chloroform	7	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
Chloromethane	5	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
Cyclohexane	-	250 U	5.0 U	25 U	25 U	5.0 U	2.9 J	5.0 U	-	5.0 U	5.0 U	20 U	20 U	25 U	250 U	50 U	250 U	100 U	5.0 U	
1,2-Dibromo-3-chloropropane	4	100 U	2.0 U	10 U	10 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	8.0 U	8.0 U	10 U	100 U	20 U	100 U	40 U	2.0 U	
Dibromochloromethane	50	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
1,2-Dibromoethane	6	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
1,2-Dichlorobenzene	3	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
1,3-Dichlorobenzene	3	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
1,4-Dichlorobenzene	3	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
Dichlorodifluoromethane	5	100 U	2.0 U	10 U	10 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	8.0 U	8.0 U	10 U	100 U	20 U	100 U	40 U	2.0 U	
1,1-Dichloroethane	5	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	3.8	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
1,2-Dichloroethane	0.6	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
1,1-Dichloroethene	5	50 U	7.9	3.2 J	5.0 U	1.0 U	1.0 U	1.8	-	1.0 U	2.9	3.3 J	2.5 J	14.5	50 U	7.1 J	50 U	20 U	1.0 U	
cis-1,2-Dichloroethene	5	11,900	3,740	1,870	1,050	1.0 U	1.6	289	-	219	821	767	879	5,420	12,100	2,730	10,500	3,630	146	
trans-1,2-Dichloroethene	5	124	23	8.7	16.2	1.0 U	1.0 U	68.1	-	4.1	7.7	12.5	12.4	53.1	50.5	21.9	66.9	22.1	2.1	
1,2-Dichloropropane	1	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
cis-1,3-Dichloropropene	0.4	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
trans-1,3-Dichloropropene	0.4	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
Ethylbenzene	5	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
Freon 113	5	250 U	5.0 U	25 U	25 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	20 U	20 U	25 U	250 U	50 U	250 U	100 U	5.0 U	
2-Hexanone	50	250 U	5.0 U	25 U	25 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	20 U	20 U	25 U	250 U	50 U	250 U	100 U	5.0 U	
Isopropylbenzene	5	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
Methyl Acetate	-	250 U	5.0 U	25 U	25 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	20 U	20 U	25 U	250 U	50 U	250 U	100 U	5.0 U	
Methylcyclohexane	-	250 U	1.6 J	25 U	25 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	20 U	20 U	25 U	250 U	50 U	250 U	100 U	5.0 U	
Methyl Tert Butyl Ether	10	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
4-Methyl-2-pentanone (MIBK)	-	250 U	5.0 U	25 U	25 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	20 U	20 U	25 U	250 U	50 U	250 U	100 U	5.0 U	
Methylene chloride	5	100 U	2.0 U	10 U	10 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	8.0 U	8.0 U	10 U	100 U	20 U	100 U	40 U	2.0 U	
Styrene	5	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
1,1,2,2-Tetrachloroethane	5	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
Tetrachloroethene	5	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
Toluene	5	50 U	1.0	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
1,2,4-Trichlorobenzene	5	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
1,1,1-Trichloroethane	5	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	4.7	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
1,1,2-Trichloroethane	1	50 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
Trichloroethene	5	50 U	128	18.9	280	1.0 U	1.0 U	96.1	-	56.5	960	1,890	2,390	4,790	5,330	114	2,610	66.4	113	
Trichlorofluoromethane	5	100 U	2.0 U	10 U	10 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	8 U	8.0 U	10 U	100 U	20 U	100 U	40 U	2.0 U	
Vinyl chloride	2	7,560	1,870	900	5.0 U	1.0 U	1.0	66.3	-	12.1	6.7	17.7	4.0 U	134	50 U	147	30.8 J	767	0.86 J	
Xylene (total)	5	50 U	1 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	4 U	4.0 U	5.0 U	50 U	10 U	50 U	20 U	1.0 U	
Total VOCs:		19,584	5,772	2,801	1,346	ND	7	530	-	299	1,798	2,691	3,284	10,412	17,481	3,020	13,208	4,486	262	
Total Site CVOCs:		19,584	5,769	2,801	1,346	ND	3	521	-	292	1,798	2,691	3,284	10,412	17,481	3,020	13,208	4,486	262	
General Chemistry:																				
Barium (µg/l)	1,000	-	-	-	-	-	-	322	5,760	-	-	-	-	-	-	-	-	-	-	
Cyanide (mg/l)	0.2	-	-	-	-	-	-	0.38	-	-	-	-	-	-	-	-	-	-	-	

Table 10

April 2023 Groundwater Sampling Results
Former Emerson Power Transmission
Ithaca, New York (a)

		DPE System Effectiveness		Site-Wide Monitoring Program										Duplicates (d) and QA/QC Samples							
	Well ID:	EW-11-43C	EW-12-45C	LBA-MW-08	LBA-MW-18	LBA-MW-23	LBA-MW-26	LBA-MW-30	LBA-MW-34N	LBA-MW-35	LBA-MW-39	LBA-MW-43S	LBA-MW-43N	MW-50-160D	MW-44T	MW-32B	MW-46-72C	-	-	-	-
	Sample ID:	EW-11-43C	EW-12-45C	LBA-MW-08	LBA-MW-18	LBA-MW-23	LBA-MW-26	LBA-MW-30	LBA-MW-34N	LBA-MW-35	LBA-MW-39	LBA-MW-43S	LBA-MW-43N	MW-041723A	MW-041723	MW-042123	MW-042023	EB-041723	EB-041823	EB-042023	EB-041923
	Date:	4/20/2023	4/20/2023	4/20/2023	4/19/2023	4/19/2023	4/19/2023	4/18/2023	4/19/2023	4/19/2023	4/19/2023	4/20/2023	4/20/2023	4/17/2023	4/17/2023	4/21/2023	4/20/2023	4/17/2023	4/19/2023	4/20/2023	4/20/2023
VOCs (µg/l)	Evaluation Criteria (c)																				
Acetone	50	40 U	40 U	-	-	3.7 J	-	-	10 U	-	-	-	-	100 U		10 U	100 U	10 U	10 U	-	5.3 J
Benzene	1	2.0 U	2.0 U	-	-	0.5 U	-	-	0.5 U	-	-	-	-	5.0 U		0.5 U	5.0 U	0.5 U	0.5 U	-	0.5 U
Bromodichloromethane	50	4.0 U	4.0 U	-	-	1.0 U	-	-	1.0 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
Bromoform	50	4.0 U	4.0 U	-	-	1.0 U	-	-	1.0 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
Bromomethane	5	8.0 U	8.0 U	-	-	2.0 U	-	-	2.0 U	-	-	-	-	20 U		2.0 U	20 U	2.0 U	2.0 U	-	2.0 U
2-Butanone (MEK)	50	40 U	40 U	-	-	10 U	-	-	10 U	-	-	-	-	100 U		10 U	100 U	10 U	10 U	-	10 U
Carbon Disulfide	60	8.0 U	8.0 U	-	-	2.0 U	-	-	2.0 U	-	-	-	-	20 U		2.0 U	20 U	2.0 U	2.0 U	-	2.0 U
Carbon Tetrachloride	5	4.0 U	4.0 U	-	-	1.0 U	-	-	1.0 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
Chlorobenzene	5	4.0 U	4.0 U	-	-	1.0 U	-	-	1.0 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
Chloroethane	5	4.0 U	4.0 U	-	-	1.0 U	-	-	2.5	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
Chloroform	7	4.0 U	4.0 U	-	-	1.0 U	-	-	1.0 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
Chloromethane	5	4.0 U	4.0 U	-	-	1.0 U	-	-	1.0 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
Cyclohexane	-	20 U	20 U	-	-	5.0 U	-	-	5.0 U	-	-	-	-	50 U		5.0 U	50 U	5.0 U	5.0 U	-	5.0 U
1,2-Dibromo-3-chloropropane	4	8.0 U	8.0 U	-	-	2.0 U	-	-	2.0 U	-	-	-	-	20 U		2.0 U	20 U	2.0 U	2.0 U	-	2.0 U
Dibromochloromethane	50	4.0 U	4.0 U	-	-	1.0 U	-	-	1.0 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
1,2-Dibromoethane	6	4.0 U	4.0 U	-	-	1.0 U	-	-	1.0 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
1,2-Dichlorobenzene	3	4.0 U	4.0 U	-	-	1.0 U	-	-	1.0 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
1,3-Dichlorobenzene	3	4.0 U	4.0 U	-	-	1.0 U	-	-	1.0 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
1,4-Dichlorobenzene	3	4.0 U	4.0 U	-	-	1.0 U	-	-	1.0 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
Dichlorodifluoromethane	5	8.0 U	8.0 U	-	-	2.0 U	-	-	2.0 U	-	-	-	-	20 U		2.0 U	20 U	2.0 U	2.0 U	-	2.0 U
1,1-Dichloroethane	5	4.0 U	4.0 U	-	-	1.0 U	-	-	1.0 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
1,2-Dichloroethane	0.6	4.0 U	4.0 U	-	-	1.0 U	-	-	1.0 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
1,1-Dichloroethene	5	13.4	5.1	-	-	1.0 U	-	-	6.7	-	-	-	-	10 U		1.0 U	6.3 J	1.0 U	1.0 U	-	1.0 U
cis-1,2-Dichloroethene	5	5,500	3,140	-	-	1.9	-	-	766	-	-	-	-	1,830		8.2	3,060	1.0 U	1.0 U	-	1.0 U
trans-1,2-Dichloroethene	5	131	14	-	-	1.0 U	-	-	12.1	-	-	-	-	7.5 J		1.0 U	11.3	1.0 U	1.0 U	-	1.0 U
1,2-Dichloropropane	1	4.0 U	4.0 U	-	-	1.0 U	-	-	1.0 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
cis-1,3-Dichloropropene	0.4	4.0 U	4.0 U	-	-	1.0 U	-	-	1.0 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
trans-1,3-Dichloropropene	0.4	4.0 U	4.0 U	-	-	1.0 U	-	-	1.0 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
Ethylbenzene	5	4.0 U	4.0 U	-	-	1.0 U	-	-	1.0 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
Freon 113	5	20 U	20 U	-	-	5.0 U	-	-	5.0 U	-	-	-	-	50 U		5.0 U	50 U	5.0 U	5.0 U	-	5.0 U
2-Hexanone	50	20 U	20 U	-	-	5.0 U	-	-	5.0 U	-	-	-	-	50 U		5.0 U	50 U	5.0 U	5.0 U	-	5.0 U
Isopropylbenzene	5	4.0 U	4.0 U	-	-	1.0 U	-	-	1.0 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
Methyl Acetate	-	20 U	20 U	-	-	5.0 U	-	-	5.0 U	-	-	-	-	50 U		5.0 U	50 U	5.0 U	5.0 U	-	5.0 U
Methylcyclohexane	-	20 U	20 U	-	-	5.0 U	-	-	5.0 U	-	-	-	-	50 U		5.0 U	50 U	5.0 U	5.0 U	-	5.0 U
Methyl Tert Butyl Ether	10	4.0 U	4.0 U	-	-	1.0 U	-	-	1.0 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
4-Methyl-2-pentanone (MIBK)	-	20 U	20 U	-	-	5.0 U	-	-	5.0 U	-	-	-	-	50 U		5.0 U	50 U	5.0 U	5.0 U	-	5.0 U
Methylene chloride	5	8.0 U	8.0 U	-	-	2.0 U	-	-	2.0 U	-	-	-	-	20 U		2.0 U	20 U	2.0 U	2.0 U	-	2.0 U
Styrene	5	4.0 U	4.0 U	-	-	1.0 U	-	-	1.0 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
1,1,2,2-Tetrachloroethane	5	4.0 U	4.0 U	-	-	1.0 U	-	-	1.0 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
Tetrachloroethene	5	4.0 U	4.0 U	-	-	1.0 U	-	-	1.0 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
Toluene	5	4.0 U	4.0 U	-	-	1.0 U	-	-	1.0 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
1,2,4-Trichlorobenzene	5	4.0 U	4.0 U	-	-	1.0 U	-	-	1.0 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
1,1,1-Trichloroethane	5	4.0 U	4.0 U	-	-	1.0 U	-	-	20.4	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
1,1,2-Trichloroethane	1	4.0 U	4.0 U	-	-	1.0 U	-	-	1 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
Trichloroethene	5	3,940	2,210	-	-	1.0 U	-	-	18.1	-	-	-	-	18.5		14.6	94.6	1.0 U	1.0 U	-	1.0 U
Trichlorofluoromethane	5	8.0 U	8.0 U	-	-	2.0 U	-	-	2.0 U	-	-	-	-	20 U		2.0 U	20 U	2.0 U	2.0 U	-	2.0 U
Vinyl chloride	2	191	133	-	-	1.0 U	-	-	463	-	-	-	-	883		1.0 U	1,640	1.0 U	1.0 U	-	1.0 U
Xylene (total)	5	4.0 U	4.0 U	-	-	1.0 U	-	-	1.0 U	-	-	-	-	10 U		1.0 U	10 U	1.0 U	1.0 U	-	1.0 U
Total VOCs:		9,775	5,502	-	-	6	-	-	1,289	-	-	-	-	2,739	-	23	4,812	ND	ND	-	5
Total Site CVOCs:		9,775	5,502	-	-	2	-	-	1,266	-	-	-	-	2,739	-	23	4,812	ND	ND	-	ND
General Chemistry:																					
Barium (µg/l)	1,000	-	-	-	2,520	-	1,680	487	1,850	2,950	228	6,180	-	-	1,880	-	-	13 U	13 U	13 U	13 U
Cyanide (mg/l)	0.2	-	-	4.1	-	-	-	0.061	-	0.24	0.18	0.4	0.53	-	0.036	-	-	0.0041 U	0.0041 U	0.0041 U	0.0089 J

a/ VOC = volatile organic compound; CVOC = chlorinated volatile organic compound; µg/l = micrograms per liter; mg/l = milligrams per liter; U = analyte not detected above Reporting Limit; J = estimated concentration below the laboratory Reporting Limit or equal to or greater than the Method Detection Limit; - = not analyzed

b/ LBA-MW-19 was found abandoned;well replaced with MW-19B

c/ Concentrations in bold text exceed evaluation criteria. Evaluation criteria are the New York State Ambient Water Quality Standards or Guidance Values for Class GA groundwater provided in the New York State Department of Environmental Conservation Division of Water Technical and Operational Guidance Series (1.1.1), dated June 1998, and the April 2000 Addendum.

d/ The blind duplicates

Table 11
September 2023 Groundwater Sampling Results
Former Emerson Power Transmission
Ithaca, New York (a)

VOCs (µg/l)	Groundwater Samples														Duplicates (c) and QA/QC Samples		
	Well ID:	MW-1B	MW-2B	MW-3B	MW-4B	MW-5B	MW-5-40	MW-5-100	MW-7B	MW-46-43C	MW-46-72C	MW-50-160D	EXB-9	EXB-10	MW-50-160D	-	-
	Sample ID:	MW-1B	MW-2B	MW-3B	MW-4B	MW-5B	MW-5-40	MW-5-100	MW-7B	MW-46-43C	MW-46-72C	MW-50-160D	EXB-9	EXB-10	MW-0923	EB-091923	EB-092023
	Date:	9/20/2023	9/20/2023	9/21/2023	9/20/2023	9/21/2023	9/20/2023	9/20/2023	9/19/2023	9/19/2023	9/19/2023	9/19/2023	9/19/2023	9/20/2023	9/19/2023	9/19/2023	9/20/2023
	Evaluation Criteria (b)																
Acetone	50	10 U	500 U	250 U	10 U	40 U	500 U	10 U	10 U	500 U	200 U	100 U	10 U	10 U	100 U	10 U	10 U
Benzene	1	0.5 U	25 U	13 U	0.5 U	2.0 U	25 U	0.5 U	0.5 U	25 U	10 U	5.0 U	0.5 U	0.78	5.0 U	0.5 U	0.5 U
Bromodichloromethane	50	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
Bromoform	50	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
Bromomethane	5	2.0 U	100 U	50 U	2.0 U	8.0 U	100 U	2.0 U	2.0 U	100 U	40 U	20 U	2.0 U	2.0 U	20 U	2.0 U	2.0 U
2-Butanone (MEK)	50	1.0 U	500 U	250 U	1.0 U	4.0 U	500 U	1.0 U	1.0 U	500 U	200 U	100 U	1.0 U	1.0 U	100 U	1.0 U	1.0 U
Carbon Disulfide	60	2.0 U	100 U	50 U	2.0 U	8.0 U	100 U	2.0 U	2.0 U	100 U	40 U	20 U	2.0 U	2.0 U	20 U	2.0 U	2.0 U
Carbon Tetrachloride	5	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
Chloroform	7	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
Chloromethane	5	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
Cyclohexane	-	5.0 U	250 U	130 U	5.0 U	20 U	250 U	5.0 U	5.0 U	250 U	100 U	50 U	5.0 U	1.4 J	50 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane	4	2.0 U	100 U	50 U	2.0 U	8.0 U	100 U	2.0 U	2.0 U	100 U	40 U	20 U	2.0 U	2.0 U	20 U	2.0 U	2.0 U
Dibromochloromethane	50	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
1,2-Dibromoethane	6	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	2.0 U	100 U	50 U	2.0 U	8.0 U	100 U	2.0 U	2.0 U	100 U	40 U	20 U	2.0 U	2.0 U	20 U	2.0 U	2.0 U
1,1-Dichloroethane	5	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	50 U	16.1 J	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	12.4 J	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.1	5,990	10,400	1.0 U	870	12,300	19.2	24.7	19,000	6,470	2,930	1.0 U	4.8	2,870	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	28.5 J	62.3	1.0 U	15.1	195	1.0 U	1.0 U	148	29.7	6.4 J	1.0 U	1.0 U	18.9	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
Freon 113	5	5.0 U	250 U	130 U	5.0 U	20 U	250 U	5.0 U	5.0 U	250 U	100 U	50 U	5.0 U	5.0 U	50 U	5.0 U	5.0 U
2-Hexanone	50	5.0 U	250 U	130 U	5.0 U	20 U	250 U	5.0 U	5.0 U	250 U	100 U	50 U	5.0 U	5.0 U	50 U	5.0 U	5.0 U
Isopropylbenzene	5	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
Methyl Acetate	-	5.0 U	250 U	130 U	5.0 U	20 U	250 U	5.0 U	5.0 U	250 U	100 U	50 U	5.0 U	5.0 U	50 U	5.0 U	5.0 U
Methylcyclohexane	-	5.0 U	250 U	130 U	5.0 U	20 U	250 U	5.0 U	5.0 U	250 U	100 U	50 U	5.0 U	5.0 U	50 U	5.0 U	5.0 U
Methyl Tert Butyl Ether	10	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
4-Methyl-2-pentanone (MIBK)	-	5.0 U	250 U	130 U	5.0 U	20.0 U	250 U	5.0 U	5.0 U	250 U	100 U	50 U	5.0 U	5.0 U	50 U	5.0 U	5.0 U
Methylene chloride	5	2.0 U	100 U	50 U	2.0 U	8.0 U	100 U	2.0 U	2.0 U	100 U	40 U	20 U	2.0 U	2.0 U	20 U	2.0 U	2.0 U
Styrene	5	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
Toluene	5	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
1,1,1-Trichloroethane	5	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	9,870	4,650	1.0 U	583	4,080	0.81 J	1.2	50 U	2,860	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
Trichlorofluoromethane	5	2.0 U	100 U	50 U	2.0 U	8.0 U	100 U	2.0 U	2.0 U	100 U	40 U	20 U	2.0 U	2.0 U	20 U	2.0 U	2.0 U
Vinyl chloride	2	1.0 U	138	202	4.1	16.3	2,520	13	34.7	6,690	956	1,010	1.0 U	2.9	1,450	1.0 U	1.0 U
Xylene (total)	5	1.0 U	50 U	25 U	1.0 U	4.0 U	50 U	1.0 U	1.0 U	50 U	20 U	10 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U
Total VOCs:		1.1	16,027	15,330	4	1,484	19,095	33	61	25,838	10,328	3,946	ND	10	4,339	ND	ND
Total Site CVOCs:		1.1	16,027	15,330	4	1,484	19,095	33	61	25,838	10,328	3,946	ND	8	4,339	ND	ND

a/ VOC = volatile organic compound; CVOC = chlorinated volatile organic compound; µg/l = micrograms per liter; U = analyte not detected above Reporting Limit; J = estimated concentration below the laboratory Reporting Limit or equal to or greater than the Method Detection Limit; ND = none detected.
b/ Concentrations in bold text exceed evaluation criteria. Evaluation criteria are the New York State Ambient Water Quality Standards or Guidance Values for Class GA groundwater provided in the New York State Department of Environmental Conservation Division of Water Technical and Operational Guidance Series (1.1.1), dated June 1998, and the April 2000 Addendum.
c/ The blind duplicates

Table 12

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
		Evaluation Criteria (b)											
		Molecular Weight											
		5		5		5		5		5		2	
		96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
EW-01-62C	9/11/07	14	0.14	5,800 D	59.82	63	0.65	5.7	0.034	17,000 D	129.4	52	0.832
	9/26/17	3.2 J	0.03	1,750	18.05	16.8	0.173	5 U	0.03	1,600	12.18	5 U	0.08
	7/24/20	10 U	0.1	1,550	15.99	17.8	0.184	10 U	0.06	556	4.232	55.2	0.883
	10/7/21	1 U	0.01	379	3.909	8.6	0.089	1 U	0.006	49.9	0.38	15.5	0.248
	9/22/22	1 U	0.01	321	3.311	3.2	0.033	1 U	0.006	33.6	0.256	31.1	0.498
	4/20/23	1 U	0.01	219	2.259	4.1	0.042	1 U	0.006	56.5	0.43	12.1	0.194
EW-02-62C	11/5/03	400 U	4.13	3,200	33.01	400 U	4.126	400 U	2.412	6,700	51	400 U	6.4
	11/12/04	200 U	2.06	3,500	36.1	54 J	0.557	200 U	1.206	5,100	38.82	88 J	1.408
	9/26/17	20 U	0.21	1,760	18.15	24.8	0.256	20 U	0.121	2,240	17.05	20 U	0.32
	7/24/20	10 U	0.1	2,020	20.84	35	0.361	10 U	0.06	2,350	17.89	10 U	0.16
	10/7/21	4 U	0.04	2,000	20.63	301	3.105	4 U	0.024	589	4.483	25	0.4
	9/22/22	1 U	0.01	403	4.157	3.5	0.036	1 U	0.006	70.8	0.539	24.4	0.39
	4/20/23	2.9	0.03	821	8.468	7.7	0.079	1 U	0.006	960	7.307	6.7	0.107
EW-03-60C	11/5/03	250 U	2.58	3,000	30.94	250 U	2.579	250 U	1.508	7,200	54.8	250 U	4
	11/12/04	500 U	5.16	4,100	42.29	500 U	5.157	500 U	3.015	16,000	121.8	500 U	8
	9/26/17	5 U	0.05	503	5.188	14.5	0.15	5 U	0.03	1,800	13.7	3.3 J	0.053
	7/24/20	10 U	0.1	4,020	41.46	135	1.392	10 U	0.06	3,380	25.73	14.2	0.227
	10/7/21	50 U	0.52	7,480	77.15	42.2 J	0.435	50 U	0.302	1,300	9.895	50 U	0.8
	9/22/22	1.6 J	0.02	1,100	11.35	15.1	0.156	2 U	0.012	960	7.307	36.2	0.579
	4/20/23	3.3 J	0.03	767	7.911	12.5	0.129	4 U	0.024	1,890	14.39	17.7	0.283
EW-04-25B	9/26/17	100 U	1.03	5,050	52.09	106	1.093	100 U	0.603	18,700	142.3	100 U	1.6
	7/24/20	5 U	0.05	521	5.374	7.9	0.081	5 U	0.03	761	5.792	5 U	0.08
	10/7/21	20 U	0.21	2,970	30.63	488	5.034	20 U	0.121	3,570	27.17	20 U	0.32
	9/22/22	4 U	0.04	772	7.963	8.4	0.087	4 U	0.024	867	6.599	4 U	0.064
	4/20/23	2.5 J	0.03	879	9.067	12.4	0.128	4 U	0.024	2,390	18.19	4 U	0.064
EW-05-25B	9/14/07	3.1	0.03	2,500 D	25.79	8.5	0.088	5.6	0.034	4,500 D	34.25	21	0.336
	9/25/09	3.2	0.03	1,300 DJ	13.41	24 J	0.248	1.3	0.008	1,100 DJ	8.373	70 J	1.12
	9/29/10	3.9	0.04	1,290	13.31	30.7	0.317	1.2	0.007	793	6.036	231	3.696
	10/3/11	3.3	0.03	1,280	13.2	16.4	0.169	1.3	0.008	1,670	12.71	45.1	0.722
	10/1/12	1 U	0.01	134	1.382	1.94	0.02	2.03	0.012	1,040	7.916	5.28	0.084
	10/18/13	3.1	0.03	897	9.252	8.8	0.091	3.2	0.019	1,420	10.81	21.7	0.347
	8/21/14	2.8 J	0.03	863	8.901	14.7	0.152	1.6	0.01	761	5.792	61.7	0.987
	8/24/15	3	0.03	1,110	11.45	36.1	0.372	1	0.006	1,410	10.73	10.2	0.163
	9/28/16	3.3	0.03	1,650 J	17.02	94.2	0.972	4.8	0.029	2,280	17.35	11.1	0.178
	9/26/17	20 U	0.21	2,730	28.16	60.1	0.62	20 U	0.121	2,530	19.26	12.7 J	0.203
	8/28/18	1.6	0.02	897	9.252	14.4	0.149	1 U	0.006	839	6.386	5.8	0.093
	9/19/19	5 U	0.05	1,200	12.38	14.3	0.147	5 U	0.03	1,350	10.28	86	1.376
	7/24/20	5 U	0.05	1,040	10.73	33.3	0.343	5 U	0.03	962	7.322	8.2	0.131
	10/7/21	4 U	0.04	740	7.633	25.9	0.267	4 U	0.024	225	1.713	4 U	0.064
	9/22/22	2 U	0.02	673	6.942	5.5	0.057	2 U	0.012	386	2.938	8.4	0.134
	4/20/23	14.5	0.15	5,420	55.91	53.1	0.548	5 U	0.03	4,790	36.46	134	2.144
EW-06-60C	9/25/09	16 J	0.17	8,600 DJ	88.71	150 J	1.547	41 J	0.247	47,000 DJ	357.7	4.8 J	0.077
	9/29/10	9.5	0.1	6,400	66.01	142	1.465	28.1	0.169	25,600	194.9	5.9	0.094
	10/3/11	12 J	0.12	12,400 J	127.9	180 J	1.857	13.7 J	0.083	12,500 J	95.14	3.9 J	0.062
	10/1/12	10	0.1	6,590	67.97	500 U	5.157	33.6	0.203	28,400	216.2	2.42	0.039
	10/18/13	100 U	1.03	15,400	158.8	55.9 J	0.577	100 U	0.603	23,000	175.1	100 U	1.6
	8/21/14	14.4 J	0.15	4,810	49.61	33.3	0.343	32.4	0.195	15,500	118	0.8 J	0.013
	8/24/15	100 U	1.03	5,710	58.9	100 U	1.031	100 U	0.603	31,500	239.8	100 U	1.6
	9/28/16	14.6	0.15	5,950 J	61.37	168	1.733	27.4	0.165	21,000 J	159.8	45.1	0.722
	9/26/17	100 U	1.03	6,970	71.89	76.5 J	0.789	100 U	0.603	24,300	185	100 U	1.6
	9/19/19	10 U	0.1	4,430	45.69	24.1	0.249	10 U	0.06	11,500	87.53	16.5	0.264
	7/24/20	10 U	0.1	1,190	12.27	10	0.103	10 U	0.06	1,820	13.85	10 U	0.16
	10/7/21	5 U	0.05	1,200	12.38	7.5	0.077	5 U	0.03	101	0.769	26.2	0.419
	9/22/22	2 U	0.02	880	9.077	3.7	0.038	2 U	0.012	142	1.081	4	0.064
	4/20/23	50 U	0.52	12,100	124.8	50.5	0.521	50 U	0.302	5,330	40.57	50 U	0.8
EW-07-25B	9/27/17	4.3 J	0.04	2,480	25.58	29.1	0.3	5 U	0.03	44.1	0.336	539	8.624
	7/24/20	20 U	0.21	3,920	40.43	33.8	0.349	20 U	0.121	3,500	26.64	25.4	0.406
	10/7/21	10 U	0.1	2,400	24.76	89.4	0.922	10 U	0.06	15.3	0.116	10 U	0.16
	9/22/22	3.6 J	0.04	2,230	23	24.4	0.252	5 U	0.03	92.3	0.703	97.4	1.558
	4/20/23	7.1 J	0.07	2,730	28.16	21.9	0.226	10 U	0.06	114	0.868	147	2.352
EW-08-62C	9/27/17	12.5 J	0.13	5,580	57.56	48.9	0.504	25 U	0.151	9,870	75.13	174	2.784
	7/24/20	5 U	0.05	1,270	13.1	6.3	0.065	5 U	0.03	857	6.523	5 U	0.08
	10/7/21	10 U	0.1	3,820	39.4	30.5	0.315	10 U	0.06	67	0.51	13.8	0.221
	9/22/22	10 U	0.1	3,080	31.77	15.8	0.163	10 U	0.06	296	2.253	48.5	0.776
	4/20/23	50 U	0.52	10,500	108.3	66.9	0.69	50 U	0.302	2,610	19.87	30.8 J	0.493
EW-9R-72C	7/24/20	12 U	0.12	3,080	31.77	48.6	0.501	18 U	0.109	2,070	15.76	16 U	0.256
	10/7/21	10 U	0.1	2,610	26.92	21.1	0.218	10 U	0.06	10 U	0.076	1,140	18.24
	9/22/22	5 U	0.05	1,730	17.84	5	0.052	5 U	0.03	28.2	0.215	85.2	1.363
	4/20/23	20 U	0.21	3,630	37.44	22.1	0.228	20 U	0.121	66.4	0.505	767	12.27

Table 12

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
		5		5		5		5		5		2	
		96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
EW-10-25B	9/27/17	1 U	0.01	429	4.425	6.3	0.065	1 U	0.006	248	1.888	0.64 J	0.01
	7/24/20	1 U	0.01	236	2.434	6.3	0.065	1 U	0.006	98.2	0.747	2.4	0.038
	10/7/21	1 U	0.01	166	1.712	4.3	0.044	1 U	0.006	63.2	0.481	1 U	0.016
	9/22/22	1 U	0.01	343	3.538	3.6	0.037	1 U	0.006	124	0.944	4	0.064
	4/20/23	1 U	0.01	146	1.506	2.1	0.022	1 U	0.006	113	0.86	0.86 J	0.014
EW-11-43C	7/24/20	20 U	0.21	3,620	37.34	59.3	0.612	20 U	0.121	6,420	48.87	20 U	0.32
	10/7/21	100 U	1.03	8,430	86.95	100 U	1.031	100 U	0.603	13,600	103.5	100 U	1.6
	9/22/22	49.9 J	0.51	21,900	225.9	124	1.279	50 U	0.302	26,600	202.5	587	9.392
	4/20/23	13.4	0.14	5,500	56.73	131	1.351	4 U	0.024	3,940	29.99	191	3.056
EW-12-45C	1/14/09	2	0.02	2,900 D	29.91	11	0.113	6.1	0.037	10,000 D	76.12	10	0.16
	6/9/09	2	0.02	2,100 D	21.66	7.3	0.075	2.4	0.014	6,200 D	47.19	13	0.208
	9/23/09	2	0.02	2,300 D	23.72	20	0.206	7.2	0.043	9,300 J	70.79	7.6	0.122
	12/17/09	3	0.03	2,870 D	29.6	11.7	0.121	6.1	0.037	7,270 D	55.34	16.8 J	0.269
	4/6/10	1 U	0.01	2,210 D	22.8	21.8	0.225	4.3	0.026	5,110 D	38.89	14.5	0.232
	6/29/10	12.5	0.13	5,650	58.28	212 J	2.187	2.2	0.013	2,560	19.49	21	0.336
	9/29/10	8.3	0.09	4,750	48.99	189	1.949	1 U	0.006	1,680	12.79	30	0.48
	12/28/10	6	0.06	6,740	69.52	32.7	0.337	4.1	0.025	7,550	57.47	44.7	0.715
	3/22/11	3.4	0.04	6,680	68.9	22.4	0.231	3.8	0.023	8,310	63.25	9.2	0.147
	6/22/11	4.6	0.05	4,850	50.03	39.2	0.404	3.8	0.023	5,320	40.49	157	2.512
	10/3/11	2.6 J	0.03	8,080 J	83.34	20.1 J	0.207	1.9 J	0.011	6,810 J	51.83	81.1 J	1.298
	12/13/11	1.3	0.01	7,880	81.28	59.6	0.615	1 U	0.006	3,670	27.93	7.4	0.118
	3/28/12	4.7	0.05	5,500	56.73	55.2	0.569	1 U	0.006	3,470	26.41	44.4	0.71
	6/27/12	4.7 J	0.05	5,040	51.99	45.6 J	0.47	2.3 J	0.014	7,020	53.43	33.1 J	0.53
	10/3/12	200 U	2.06	9,760	100.7	200 U	2.063	200 U	1.206	308	2.344	807	12.91
	12/4/12	3	0.03	2,330	24.03	71.6	0.739	1 U	0.006	327	2.489	2,070	33.12
	4/4/13	1 U	0.01	2,140	22.07	16.7	0.172	1.3	0.008	3,550	27.02	9.2	0.147
	6/3/13	100 U	1.03	23,300	240.3	214	2.207	100 U	0.603	14,400	109.6	235	3.76
	10/16/13	21.6	0.22	7,930	81.79	188	1.939	1 U	0.006	1,130	8.601	230	3.68
	12/4/13	3.3	0.03	6,730	69.42	68.6	0.708	1 U	0.006	2,720	20.7	90.4	1.446
	3/24/14	40 U	0.41	11,700	120.7	59	0.609	40 U	0.241	6,130	46.66	184	2.944
	6/16/14	20 U	0.21	5,890	60.75	37.5	0.387	20 U	0.121	5,270	40.11	60.5	0.968
	8/19/14	20 U	0.21	7,010	72.31	48.8	0.503	20 U	0.121	7,150	54.42	146	2.336
	12/4/14	15.5	0.16	12,300	126.9	54	0.557	1 U	0.006	4,260	32.43	209 J	3.344
	3/11/15	50 U	0.52	10,000	103.1	155	1.599	50 U	0.302	3,640	27.71	686 J	10.98
	5/27/15	18.6 J	0.19	11,500	118.6	94.1	0.971	25 U	0.151	890	6.774	844	13.5
	7/24/20	5 U	0.05	841	8.675	5 U	0.052	5 U	0.03	220	1.675	5 U	0.08
	10/7/21	3.2 J	0.03	2,100	21.66	6.4	0.066	5 U	0.03	5 U	0.038	150	2.4
	9/22/22	5 U	0.05	2,030	20.94	4.7 J	0.048	5 U	0.03	68.8	0.524	44.5	0.712
	4/20/23	5.1	0.05	3,140	32.39	14	0.144	4 U	0.024	2,210	16.82	133	2.128
EW-13	12/14/22	1 U	0.01	23.3	0.24	1 U	0.01	1 U	0.006	4	0.03	3.6	0.058
EW-14	12/15/22	1 U	0.01	25.6	0.264	1 U	0.01	1 U	0.006	13.6	0.104	29.8	0.477
EXB-07	9/14/07	5.2	0.05	2,700 D	27.85	31	0.32	1 U	0.006	3,400 D	25.88	10	0.16
	1/14/09	13	0.13	7,500 D	77.36	55 DJ	0.567	1 U	0.006	230 D	1.751	57 DJ	0.912
	6/9/09	6.6	0.07	3,400 D	35.07	37	0.382	1 U	0.006	890 D	6.774	30	0.48
	9/22/09	9.2	0.09	5,000 D	51.57	78	0.805	80 U	0.482	560 D	4.262	26	0.416
	12/17/09	5.1 J	0.05	2,790 D	28.78	45.3	0.467	1 U	0.006	832 D	6.333	15.5 J	0.248
	4/7/10	3.2	0.03	2,120 D	21.87	31.1	0.321	1 U	0.006	1,430 D	10.88	11.8	0.189
	6/29/10	6.5	0.07	2,880	29.71	99.2 J	1.023	1 U	0.006	1,190	9.058	18.4	0.294
	9/29/10	7.8	0.08	4,760	49.1	105	1.083	1 U	0.006	360	2.74	26	0.416
	12/28/10	2.3	0.02	1,560	16.09	27.4	0.283	1 U	0.006	394	2.999	3.4	0.054
	3/22/11	1.1	0.01	1,080	11.14	11.7	0.121	1 U	0.006	327	2.489	1.9	0.03
	6/22/11	2.1	0.02	1,480	15.27	21.7	0.224	1 U	0.006	398	3.029	5	0.08
	10/5/11	7.8 J	0.08	3,940 J	40.64	65.9 J	0.68	1 UR	0.006	1,850 J	14.08	21.4 J	0.342
	12/13/11	9.0	0.09	4,220	43.53	115	1.186	1 U	0.006	22	0.167	38.5	0.616
	3/27/12	1.2	0.01	1,040	10.73	20	0.206	1 U	0.006	388	2.953	2.8	0.045
	6/29/12	2.4	0.02	1,500	15.47	30.1	0.31	1 U	0.006	903	6.873	5.3	0.085
	10/2/12	50 U	0.52	3,080	31.77	50 U	0.516	50 U	0.302	1,290	9.819	50 U	0.8
	12/4/12	2.4	0.02	1,540	15.88	38.1	0.393	1 U	0.006	1,020	7.764	3.6	0.058
	4/3/13	5 U	0.05	766	7.901	22.5	0.232	5 U	0.03	469	3.57	5 U	0.08
	6/5/13	2.6	0.03	1,180	12.17	20.7	0.214	1 U	0.006	890	6.774	4	0.064
	10/16/13	5.4	0.06	2,580	26.61	41.2	0.425	1 U	0.006	1,100	8.373	14.5	0.232
	12/4/13	1 U	0.01	2,290	23.62	32.9	0.339	1 U	0.006	89	0.674	9.5	0.152
	3/25/14	1 U	0.01	202	2.084	3.2	0.033	1 U	0.006	97	0.735	0.72 J	0.012
	6/17/14	0.97 J	0.01	368	3.796	8.5	0.088	1 U	0.006	45	0.343	6.6	0.106
	8/19/14	10 U	0.1	1,920	19.8	19.5	0.201	10 U	0.06	63	0.483	10 U	0.16
	12/4/14	0.54 J	0.01	617	6.364	17.8	0.184	1 U	0.006	4	0.031	15.5 J	0.248
	3/11/15	2 U	0.02	1,080	11.14	45.1	0.465	2 U	0.012	280	2.131	2 J	0.032
	5/27/15	5 U	0.05	1,100	11.35	36.6	0.378	5 U	0.03	1,170	8.905	5 U	0.08
	8/24/15	1.7	0.02	1,180	12.17	19.4	0.2	1 U	0.006	774	5.891	4.2	0.067
	12/14/15	2.1	0.02	1,420	14.65	22.3	0.23	1 U	0.006	416	3.166	3.4	0.054
	4/13/16	5 U	0.05	1,040	10.73	17.4	0.179	5 U	0.03	547	4.163	4.5 J	0.072
	7/7/16	10 U	0.1	1,040	10.73	18.1	0.187	10 U	0.06	482	3.669	11	0.176
	9/27/16	5 U	0.05	1,410 J	14.54	28.3	0.292	5 U	0.03	582	4.43	6.3	0.101
	11/16/16	10 U	0.1	1,930	19.91	33	0.34	10 U	0.06	735	5.594	11	0.176
	3/28/17	5 U	0.05	980	10.11	17.3	0.178	5 U	0.03	574	4.369	5.9	0.094

Table 12

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
		5		5		5		5		5		2	
		96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
EXB-07	6/13/17	2 U	0.02	985	10.16	25.8	0.266	2 U	0.012	486	3.699	1.3 J	0.021
	9/26/17	3.1 J	0.03	1,700	17.53	31.2	0.322	5 U	0.03	748 J	5.693	3.4 J	0.054
	12/20/17	1.7	0.02	1,240	12.79	23	0.237	1 U	0.006	513 J	3.905	1	0.016
	3/21/18	5 U	0.05	869	8.963	16.5	0.17	5 U	0.03	426	3.243	5 U	0.08
	5/10/18	2.5 U	0.03	908	9.366	12.6	0.13	2.5 U	0.015	430	3.273	2.5 U	0.04
	3/21/18	5 U	0.05	869	8.963	16.5	0.17	5 U	0.03	426	3.243	5 U	0.08
	5/10/18	2.5 U	0.03	908	9.366	12.6	0.13	2.5 U	0.015	430	3.273	2.5 U	0.04
	8/28/18	3.8 J	0.04	2,430	25.06	30.5	0.315	5 U	0.03	46	0.352	6.5	0.104
	12/11/18	2.5 U	0.03	1,200	12.38	29.9	0.308	2.5 U	0.015	355	2.702	2.5 U	0.04
	3/7/19	5 U	0.05	832	8.582	11.9	0.123	5 U	0.03	373	2.839	5 U	0.08
	6/18/19	0.82 J	0.01	636	6.56	11.7	0.121	1 U	0.006	334	2.542	2.5	0.04
	9/18/19	0.73 J	0.01	896	9.242	13.2	0.136	1 U	0.006	369	2.809	1.1	0.018
	12/9/19	5 U	0.05	962	9.923	16.1	0.166	5 U	0.03	347	2.641	5 U	0.08
	3/23/20	2 U	0.02	936	9.654	18.1	0.187	2 U	0.012	366	2.786	2 U	0.032
	5/20/20	5 U	0.05	1,080	11.14	25.7	0.265	5 U	0.03	726	5.526	5 U	0.08
	8/13/20	5 U	0.05	1,160	11.96	52.8	0.545	5 U	0.03	426	3.243	4.3 J	0.069
	12/14/20	5 U	0.05	1,140	11.76	27.5	0.284	5 U	0.03	402	3.06	5 U	0.08
	3/23/21	5 U	0.05	1,110	11.45	22.1	0.228	5 U	0.03	486	3.699	5 U	0.08
	6/22/21	10 U	0.1	1,210	12.48	32.1	0.331	10 U	0.06	365	2.778	10 U	0.16
	9/21/21	3.6 J	0.04	1,700 J	17.53	61.2 J	0.631	5 UJ	0.03	349 J	2.656	4.3 J	0.069
	12/15/21	10 U	0.1	2,000	20.63	27.4	0.283	10 U	0.06	9 J	0.066	58.4	0.934
	3/23/22	10 U	0.1	1,310	13.51	21.1	0.218	10 U	0.06	393	2.991	10 U	0.16
	6/15/22	5 U	0.05	1,180	12.17	21.2	0.219	5 U	0.03	320	2.436	10.2	0.163
	12/15/22	1.7	0.02	1,550	15.99	13.8	0.142	0		60.1	0.457	13.4	0.214
	4/18/23	5 U	0.05	1,050	10.83	16.2	0.167	5 U	0.03	280	2.131	5 U	0.08
EXB-09	6/10/09	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	0.46 J	0.004	1 U	0.016
	9/22/09	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	12/17/09	1 U	0.01	3	0.031	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/6/10	1 U	0.01	12.5	0.129	1 U	0.01	1 U	0.006	1.2	0.009	1 U	0.016
	6/29/10	1 U	0.01	5.4	0.056	1 UJ	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/28/10	1 U	0.01	4.1	0.042	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	12/28/10	1 U	0.01	2.6	0.027	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/22/11	1 U	0.01	5.5	0.057	1 U	0.01	1 U	0.006	1.6	0.012	1 U	0.016
	6/22/11	1 U	0.01	1.2	0.012	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	10/5/11	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	12/14/11	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/27/12	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	6/28/12	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	10/3/12	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	12/4/12	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/2/13	1 U	0.01	1 U	0.01	1 U	0.01	2.7	0.016	1 U	0.008	1 U	0.016
	6/3/13	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	10/16/13	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	12/5/13	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/25/14	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	6/17/14	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	8/19/14	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	12/3/14	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 UJ	0.016
	3/10/15	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 UJ	0.016
	5/28/15	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	8/24/15	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/12/16	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 UJ	0.016
	7/7/16	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/27/16	1 U	0.01	1 UJ	0.01	1 U	0.01	0.53 U	0.003	1 U	0.008	1 U	0.016
	11/16/16	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/28/17	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	6/13/17	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/26/17	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	12/19/17	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/21/18	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 UJ	0.016
	5/9/18	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	8/28/18	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	12/11/18	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/7/19	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	6/17/19	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/17/19	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	12/12/19	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/16/20	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	5/19/20	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	8/13/20	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	12/14/20	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/25/21	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	6/22/21	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/21/21	1 UJ	0.01	1 UJ	0.01	1 UJ	0.01	1 UJ	0.006	1 UJ	0.008	1 UJ	0.016
	12/14/21	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/22/22	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	6/15/22	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	8/19/22	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	12/15/22	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/17/23	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/19/23	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016

Table 12

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
		5		5		5		5		5		2	
		96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
EXB-10	1/14/09	1 U	0.01	36	0.371	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/23/09	1 U	0.01	32	0.33	1 U	0.01	1 U	0.006	0.78 J	0.006	2.9	0.046
	12/17/09	1 U	0.01	31.7	0.327	1 U	0.01	1 U	0.006	1 U	0.008	4.6	0.074
	4/6/10	1 U	0.01	13.7	0.141	1 U	0.01	1 U	0.006	1.6	0.012	1.8	0.029
	6/29/10	1 U	0.01	97.7	1.008	1 UJ	0.01	1 U	0.006	1 U	0.008	1.2	0.019
	9/28/10	1 U	0.01	16.7	0.172	1 U	0.01	1 U	0.006	1 U	0.008	5.9	0.094
	12/28/10	1 U	0.01	37.9	0.391	1 U	0.01	1 U	0.006	1 U	0.008	1.3	0.021
	3/22/11	1 U	0.01	55.4	0.571	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	6/22/11	1 U	0.01	8.7	0.09	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	10/5/11	1 U	0.01	4.4	0.045	1 U	0.01	1 U	0.006	1 U	0.008	2	0.032
	12/14/11	1 U	0.01	7.5	0.077	1 U	0.01	1 U	0.006	1 U	0.008	2.7	0.043
	3/28/12	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	6/28/12	1 U	0.01	4.4	0.045	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	10/2/12	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	12/4/12	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/3/13	1 U	0.01	1.5	0.015	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	6/3/13	1 U	0.01	3.3	0.034	1 U	0.01	1 U	0.006	1 U	0.008	2.3	0.037
	10/16/13	1 U	0.01	2.8	0.029	1 U	0.01	1 U	0.006	1 U	0.008	2.1	0.034
	12/5/13	1 U	0.01	2.6	0.027	1 U	0.01	1 U	0.006	0.51 J	0.004	1.2	0.019
	3/25/14	1 U	0.01	3	0.031	1 U	0.01	1 U	0.006	1 U	0.008	1.2	0.019
	6/18/14	1 U	0.01	2.4	0.025	1 U	0.01	1 U	0.006	1 U	0.008	1.6	0.026
	8/19/14	1 U	0.01	2.2	0.023	1 U	0.01	1 U	0.006	1 U	0.008	2.4	0.038
	12/3/14	1 U	0.01	1.2	0.012	1 U	0.01	1 U	0.006	0.51 J	0.004	1 UJ	0.016
	3/11/15	1 U	0.01	3.1	0.032	1 U	0.01	1 U	0.006	0.51 J	0.004	2.8 J	0.045
	5/27/15	1 U	0.01	1.8	0.019	1 U	0.01	1 U	0.006	1 U	0.008	1.2	0.019
	8/24/15	1 U	0.01	1.4	0.014	1 U	0.01	1 U	0.006	1 U	0.008	1.1	0.018
	12/14/15	1 U	0.01	2.1	0.022	1 U	0.01	1 U	0.006	1 U	0.008	1.2	0.019
	4/12/16	1 U	0.01	1.7	0.018	1 U	0.01	1 U	0.006	1 U	0.008	1.6	0.026
	7/6/16	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/27/16	1 U	0.01	1.6 J	0.017	1 U	0.01	1 U	0.006	1 U	0.008	1.3	0.021
	11/15/16	1 U	0.01	1.3	0.013	1 U	0.01	1 UJ	0.006	1 U	0.008	1 UJ	0.016
	3/29/17	1 U	0.01	1.1	0.011	1 U	0.01	1 U	0.006	1 U	0.008	0.54 J	0.009
	6/13/17	1 U	0.01	1.8	0.019	1 U	0.01	1 U	0.006	1 U	0.008	1.8	0.029
	9/26/17	1 U	0.01	2.1	0.022	1 U	0.01	1 U	0.006	1 U	0.008	6.2	0.099
	12/19/17	1 U	0.01	1.6	0.017	1 U	0.01	1 U	0.006	1 U	0.008	0.97 J	0.016
	3/21/18	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	5/9/18	1 U	0.01	1.7	0.018	1 U	0.01	1 U	0.006	1 U	0.008	0.71 J	0.011
	8/28/18	1 U	0.01	1.7	0.018	1 U	0.01	1 U	0.006	1 U	0.008	1.3	0.021
	12/11/18	1 U	0.01	1.4	0.014	1 U	0.01	1 U	0.006	1 U	0.008	1.3	0.021
	3/6/19	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	6/18/19	1 U	0.01	0.64 J	0.007	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/19/19	1 U	0.01	1	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1.7	0.027
	12/12/19	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/23/20	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	5/19/20	1 UJ	0.01	1.1	0.011	1 U	0.01	1 U	0.006	1 U	0.008	1.4	0.022
	8/13/20	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	12/15/20	1 U	0.01	0.52 J	0.005	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/25/21	1 U	0.01	0.52 J	0.005	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	6/22/21	1 U	0.01	2.2	0.023	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/21/21	1 UJ	0.01	0.62 J	0.006	1 UJ	0.01	1 UJ	0.006	1 UJ	0.008	1 UJ	0.016
	12/15/21	1 U	0.01	0.77 J	0.008	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/22/22	1 U	0.01	0.96 J	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1	0.016
	6/15/22	1 U	0.01	0.95 J	0.01	1 U	0.01	1 U	0.006	1 U	0.008	0.91 J	0.015
	9/20/22	1 U	0.01	2.8	0.029	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	12/15/22	1 U	0.01	1.8	0.019	1 U	0.01	1 U	0.006	1 U	0.008	0.97 J	0.016
	4/17/23	1 U	0.01	1.6	0.017	1 U	0.01	1 U	0.006	1 U	0.008	1	0.016
	9/20/23	1 U	0.01	4.8	0.05	1 U	0.01	1 U	0.006	1 U	0.008	2.9	0.046
MW-1B	12/16/05	1 U	0.01	52	0.536	1.5	0.015	4 U	0.024	170 E	1.294	1 U	0.016
	4/1/09	1 U	0.01	1 J	0.01	1 U	0.01	1 U	0.006	1.8	0.014	1 U	0.016
	6/8/09	1 U	0.01	0.87 J	0.009	1 U	0.01	1 U	0.006	1.6	0.012	1 U	0.016
	9/22/09	1 U	0.01	0.79 J	0.008	1 U	0.01	1 U	0.006	1.9	0.014	1 U	0.016
	12/18/09	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1.8	0.014	1 U	0.016
	4/6/10	1 U	0.01	4.5	0.046	1 U	0.01	1 U	0.006	9.9	0.075	1 U	0.016
	6/29/10	1 U	0.01	1.4	0.014	1 UJ	0.01	1 U	0.006	1.7	0.013	1 U	0.016
	9/29/10	1 U	0.01	2.2	0.023	1 U	0.01	1 U	0.006	3.6	0.027	1 U	0.016
	12/29/10	1 U	0.01	1.9	0.02	1 U	0.01	1 U	0.006	2.5	0.019	1 U	0.016
	3/25/11	1 U	0.01	4.1	0.042	1 U	0.01	1 U	0.006	4.6	0.035	1 U	0.016
	6/22/11	1 U	0.01	1.1	0.011	1 U	0.01	1 U	0.006	1.6	0.012	1 U	0.016
	10/4/11	1 U	0.01	1.1	0.011	1 U	0.01	1 U	0.006	1	0.008	1 U	0.016
	12/14/11	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/27/12	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	6/29/12	1 U	0.01	4.3	0.044	1 U	0.01	1 U	0.006	6.7	0.051	1 U	0.016
	10/3/12	1 U	0.01	2.01	0.021	1 U	0.01	1 U	0.006	2.76	0.021	1 U	0.016
	12/5/12	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1.1	0.008	1 U	0.016
	4/2/13	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	6/5/13	1 U	0.01	20.3	0.209	1 U	0.01	1 U	0.006	28.9	0.22	1 U	0.016
	10/18/13	1 U	0.01	0.67 J	0.007	1 U	0.01	1 U	0.006	1.5	0.011	1 U	0.016
	12/5/13	1 U	0.01	1.2	0.012	1 U	0.01	1 U	0.006	1.3	0.01	1 U	0.016
	3/27/14	1 U	0.01	0.83 J	0.009	1 U	0.01	1 U	0.006	1.1	0.008	1 U	0.016
	6/17/14	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	0.58 J	0.004	1 U	0.016
	8/20/14	1 U	0.01	1	0.01	1 U	0.01	1 U	0.006	1.6	0.012	1 U	0.016

Table 12

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
		Evaluation Criteria (b)											
		Molecular Weight											
		5		5		5		5		5		2	
		96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
MW-1B	12/4/14	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	0.95 J	0.007	1 U	0.016
	3/12/15	1 U	0.01	1.6	0.017	1 U	0.01	1 U	0.006	1.1	0.008	1 U	0.016
	5/28/15	1 U	0.01	2.1	0.022	1 U	0.01	1 U	0.006	4.7	0.036	1 U	0.016
	8/24/15	0.84 J	0.01	253	2.61	1.9	0.02	1 U	0.006	484	3.684	6.2	0.099
	12/14/15	0.84 J	0.01	200	2.063	1.7	0.018	1 U	0.006	321	2.443	2.5	0.04
	4/12/16	1 U	0.01	0.7 J	0.007	1 U	0.01	1 U	0.006	1	0.008	1 U	0.016
	7/6/16	1.4 J	0.01	665	6.859	6.2	0.064	2 U	0.012	1,210	9.21	13.8	0.221
	9/28/16	3.5	0.04	965 J	9.954	16.3	0.168	1.1 U	0.007	1,400	10.66	34.6	0.554
	11/15/16	10 U	0.1	404	4.167	4.4 J	0.045	10 UJ	0.06	462	3.517	5.1 J	0.082
	3/28/17	1 U	0.01	17.9	0.185	1 U	0.01	1 U	0.006	29.7	0.226	1 U	0.016
	6/14/17	2.5 U	0.03	416	4.291	8.4	0.087	2.5 U	0.015	769	5.853	7.2	0.115
	9/26/17	10 U	0.1	663	6.839	7.9 J	0.081	10 U	0.06	1,120	8.525	7.8 J	0.125
	12/18/17	1.2	0.01	434	4.477	5.4	0.056	1 U	0.006	699	5.32	9	0.144
	3/21/18	1 U	0.01	0.78 J	0.008	1 U	0.01	1 U	0.006	0.9 J	0.007	1 U	0.016
	5/8/18	1 U	0.01	4.1	0.042	1 U	0.01	1 U	0.006	8.5	0.065	1 U	0.016
	8/29/18	1 U	0.01	7	0.072	1 U	0.01	1 U	0.006	14	0.107	1 U	0.016
	12/12/18	1 U	0.01	72	0.743	0.77 J	0.008	1 U	0.006	115	0.875	1 U	0.016
	3/5/19	1 U	0.01	78.5 UJ	0.81	0.72 J	0.007	1 U	0.006	154 J	1.172	1 U	0.016
	6/18/19	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	0.67 J	0.005	1 U	0.016
	9/18/19	1 U	0.01	10.4	0.107	1 U	0.01	1 U	0.006	15.7	0.12	1 U	0.016
	12/12/19	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	0.57 J	0.004	1 U	0.016
	3/18/20	1 U	0.01	1.3	0.013	1 U	0.01	1 U	0.006	1.7	0.013	1 U	0.016
	5/15/20	1 UJ	0.01	4.4	0.045	1 U	0.01	1 U	0.006	6.5	0.049	1 U	0.016
	8/12/20	1 U	0.01	25.1	0.259	1 U	0.01	1 U	0.006	60	0.457	1 U	0.016
	12/18/20	1 U	0.01	0.76 J	0.008	1 U	0.01	1 U	0.006	0.56 J	0.004	1 U	0.016
	3/24/21	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	6/23/21	1 U	0.01	4.1	0.042	1 U	0.01	1 U	0.006	7.3	0.056	1 U	0.016
	9/22/21	1 UJ	0.01	31.1 J	0.321	1 UJ	0.01	1 UJ	0.006	57.7 J	0.439	1 U	0.016
	12/16/21	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1.1	0.008	1 U	0.016
	3/22/22	1 U	0.01	0.96 J	0.01	1 U	0.01	1 U	0.006	1.5	0.011	1 U	0.016
	6/15/22	1 U	0.01	9.5	0.098	1 U	0.01	1 U	0.006	15.4	0.117	1 U	0.016
	9/22/22	1 U	0.01	1.7	0.018	1 U	0.01	1 U	0.006	2.5	0.019	1 U	0.016
	4/19/23	1 U	0.01	15.6	0.161	1 U	0.01	1 U	0.006	26.2	0.199	1 U	0.016
	9/20/23	1 U	0.01	1.1	0.011	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
MW-2B	11/5/03	2,500 U	25.8	11,000	113.5	2,500 U	25.79	2,500 U	15.08	43,000	327.3	2,500 U	40
	12/15/05	27	0.28	14,000 D	144.4	150 E	1.547	48	0.289	64,000 D	487.1	100 E	1.6
	4/1/09	8.8	0.09	5,600 D	57.76	65	0.67	30	0.181	20,000 D	152.2	40 E	0.64
	9/22/09	200 U	2.06	6,400 D	66.01	200 U	2.063	200 U	1.206	21,000 D	159.8	82 D	1.312
	4/6/10	14	0.14	5,510 D	56.83	63.8	0.658	28.2	0.17	19,500 D	148.4	133	2.128
	10/5/10	19.7	0.2	7,560	77.98	122	1.258	30.8	0.186	18,100	137.8	50.1	0.802
	3/24/11	5.7	0.06	5,010	51.68	19.9	0.205	14.6	0.088	12,200	92.86	21.6	0.346
	10/4/11	28.7 J	0.3	9,500 J	97.99	63.8 J	0.658	32.4 J	0.195	23,200 J	176.6	199 J	3.184
	3/27/12	9.9	0.1	3,650	37.65	57.5	0.593	13.3	0.08	7,010	53.36	24.1	0.386
	10/1/12	200 U	2.06	5,900	60.86	200 U	2.063	200 U	1.206	13,800	105	200 U	3.2
	4/3/13	10.9	0.11	6,420	66.22	30.9	0.319	6	0.036	9,730	74.06	39.8	0.637
	10/18/13	19.1 J	0.2	9,420	97.16	65.8	0.679	14.1 J	0.085	19,800	150.7	118	1.888
	3/27/14	40 U	0.41	6,230	64.26	24.2 J	0.25	40 U	0.241	13,800	105	52.7	0.843
	8/20/14	15.8 J	0.16	5,780	59.62	48.7	0.502	12.4	0.075	11,700 J	89.05	115 J	1.84
	3/12/15	13.4	0.14	6,000	61.89	38.1	0.393	19.4	0.117	11,600	88.29	19.6	0.314
	8/24/15	15.9	0.16	6,820	70.35	37.5	0.387	16.3	0.098	15,700	119.5	69.2	1.107
	4/12/16	50 U	0.52	5,960	61.47	26.6 J	0.274	50 U	0.302	13,300	101.2	52	0.832
	9/27/16	50 U	0.52	6,050 J	62.4	32.2 J	0.332	50 U	0.302	9,730	74.06	50 U	0.8
	3/28/17	50 U	0.52	6,980	72	29.5 J	0.304	12.8 J	0.077	16,900	128.6	50 U	0.8
	9/27/17	100 U	1.03	5,970	61.58	58.8 J	0.606	100 U	0.603	15,100	114.9	100 U	1.6
	3/21/18	50 U	0.52	4,770	49.2	28.1 J	0.29	50 U	0.302	12,400	94.38	50 U	0.8
	8/29/18	20 U	0.21	4,580	47.24	32.3	0.333	20 U	0.121	9,400	71.55	48.3	0.773
	3/5/19	20 U	0.21	3,830	39.5	23	0.237	20 U	0.121	7,600	57.85	20 U	0.32
	9/19/19	20 U	0.21	3,680	37.96	20.8	0.215	20 U	0.121	7,100	54.04	76.8	1.229
	3/18/20	10.4	0.11	3,460	35.69	40.2	0.415	9.1	0.055	8,760	66.68	14.4	0.23
	8/12/20	13.8 J	0.14	6,260	64.57	27.8	0.287	20 U	0.121	1,700	12.94	149	2.384
	3/24/21	20 U	0.21	5,340	55.08	19.6 J	0.202	20 U	0.121	12,100	92.1	17 J	0.272
	9/22/21	12.3 J	0.13	5,190 J	53.53	34 J	0.351	10 U	0.06	8,740 J	66.52	142 J	2.272
	3/22/22	50 U	0.52	5,720	59	31.8 J	0.328	50 U	0.302	7,600	57.85	67.9	1.086
	9/22/22	50 U	0.52	5,720	59	31.8	0.328	50 U	0.302	7,600	57.85	67.9	1.086
	4/19/23	50 U	0.52	4,980	51.37	50 U	0.516	50 U	0.302	8,160	62.11	46.4 J	0.742
	9/20/23	50 U	0.52	5,990	61.78	28.5 J	0.294	50 U	0.302	9,870	75.13	138	2.208
MW-3B	11/5/03	250 U	2.58	9,800	101.1	53 J	0.547	250 U	1.508	3,700	28.16	600	9.6
	12/15/05	7.6	0.08	3,200 D	33.01	33	0.34	9.2	0.055	4,200 D	31.97	350 E	5.6
	4/3/09	4.4	0.05	1,900 D	19.6	35	0.361	1.3	0.008	1,300 D	9.895	210 D	3.36
	9/22/09	20 U	0.21	1,400 D	14.44	15 J	0.155	20 U	0.121	310 D	2.36	97 D	1.552
	4/6/10	4	0.04	1,190 D	12.27	17	0.175	1.5	0.009	1,500 D	11.42	181	2.896
	10/5/10	3.3	0.03	1,430	14.75	25.1	0.259	1 U	0.006	752	5.724	143	2.288
	3/25/11	1 U	0.01	749	7.726	10.6	0.109	1 U	0.006	77.2	0.588	146	2.336
	10/4/11	11.5 J	0.12	2,450 J	25.27	55.5 J	0.572	1 U	0.006	1,900 J	14.46	321 J	5.136
	3/27/12	4.3	0.04	994	10.25	30.7	0.317	1 U	0.006	456	3.471	200	3.2
	10/1/12	20 U	0.21	1,150	11.86	21.1	0.218	20 U	0.121	960 J	7.307	175	2.8
	4/2/13	3	0.03	337	3.476	9.2	0.095	1 U	0.006	180	1.37	93.2	1.491
	10/18/13	2.2	0.02	577	5.952	10.5	0.108	1 U	0.006	444	3.38	250	4
	3/27/14	2 U	0.02	377	3.889	8.6	0.089	2 U	0.012	69	0.525	83.5	1.336

Table 12

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
		5		5		5		5		5		2	
		96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
MW-3B	8/19/14	1 J	0.01	558	5.756	13.8	0.142	1 U	0.006	101	0.769	176 J	2.816
	3/11/15	2.4	0.02	723	7.457	16.9	0.174	1 U	0.006	222	1.69	199 J	3.184
	8/24/15	1.8	0.02	512	5.281	16.8	0.173	1 U	0.006	97.2	0.74	247	3.952
	4/12/16	2 U	0.02	651	6.715	13.5	0.139	2 U	0.012	27.9	0.212	183	2.928
	9/28/16	4 U	0.04	957 J	9.871	18.4	0.19	4 U	0.024	849 J	6.462	21.8	0.349
	3/28/17	0.85 J	0.01	335	3.455	7.1	0.073	1 U	0.006	90.8	0.691	80.9	1.294
	9/27/17	1.8	0.02	766	7.901	12.9	0.133	1 U	0.006	319	2.428	153	2.448
	3/21/18	0.81 J	0.01	315	3.249	6	0.062	1 U	0.006	87.7	0.668	58.8	0.941
	8/29/18	0.96 J	0.01	339	3.497	4.8	0.05	1 U	0.006	175	1.332	91.9	1.47
	3/5/19	1.2	0.01	354	3.651	6.8	0.07	1 U	0.006	37.2	0.283	119	1.904
	9/18/19	10 U	0.1	2,550	26.3	33.8	0.349	10 U	0.06	1,690	12.86	213	3.408
	3/18/20	3.8 J	0.04	1,830	18.88	18.9	0.195	5 U	0.03	1,850	14.08	16.3	0.261
	8/12/20	20 U	0.21	4,160	42.91	34	0.351	20 U	0.121	3,750	28.54	192	3.072
	3/24/21	10 U	0.1	1,080	11.14	12.8	0.132	10 U	0.06	1,400	10.66	10 U	0.16
	9/22/21	10.3 J	0.11	4,160 J	42.91	40.5 J	0.418	10 UJ	0.06	5,020 J	38.21	58.2 J	0.931
	12/16/21	10 U	0.1	1,360	14.03	13.9	0.143	10 U	0.06	1,770	13.47	14.8	0.237
	3/22/22	3.4	0.04	1,120	11.55	10.9	0.112	2 U	0.012	1,100	8.373	4.3	0.069
	6/16/22	10 U	0.1	2,000	20.63	22.7	0.234	10 U	0.06	1,890	14.39	35.9	0.574
	9/22/22	16.8	0.17	7,150	73.75	149	1.537	1.6	0.01	4,730	36	110	1.76
	12/14/22	8.3	0.09	4,990	51.47	27.1	0.28		0	1,170	8.905	133	2.128
	4/20/23	12	0.12	5,100	52.6	36.2	0.373	10 U	0.06	4,650	35.39	119	1.904
	9/21/23	16.1 J	0.17	10,400	107.3	62.3	0.643	25 U	0.151	4,650	35.39	202	3.232
MW-4B	12/15/05	1 U	0.01	1.1	0.011	1 U	0.01	1 U	0.006	1 U	0.008	2.6	0.042
	4/1/09	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	0.22 J	0.002	1 U	0.016
	6/8/09	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/24/09	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1.2	0.019
	12/18/09	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	4.5	0.072
	4/7/10	1 U	0.01	2.2	0.023	1 U	0.01	1 U	0.006	1.4	0.011	1 U	0.016
	6/30/10	1 U	0.01	1 U	0.01	1 UJ	0.01	1 U	0.006	1 U	0.008	1.6	0.026
	9/29/10	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	4.1	0.066
	12/29/10	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	2.1	0.034
	3/24/11	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	6/22/11	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	10/4/11	1 U	0.01	1.6 J	0.017	1 U	0.01	1 U	0.006	1.6 J	0.012	8.3 J	0.133
	12/14/11	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1.9	0.03
	3/27/12	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	6/29/12	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	2.3	0.037
	10/3/12	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	6.16	0.099
	12/5/12	1 U	0.01	1.4	0.014	1 U	0.01	1 U	0.006	1 U	0.008	15.6	0.25
	4/3/13	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	4.2	0.067
	6/5/13	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1.3	0.021
	10/18/13	1 U	0.01	1.3	0.013	1 U	0.01	1 U	0.006	1 U	0.008	15.6	0.25
	12/5/13	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	2.5	0.04
	3/27/14	1 U	0.01	0.62 J	0.006	1 U	0.01	1 U	0.006	1 U	0.008	6.6	0.106
	6/17/14	1 U	0.01	0.95 J	0.01	1 U	0.01	1 U	0.006	1 U	0.008	25	0.4
	8/19/14	1 U	0.01	0.89 J	0.009	1 U	0.01	1 U	0.006	1 U	0.008	9.7	0.155
	12/4/14	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	2.4 J	0.038
	3/12/15	1 U	0.01	0.95 J	0.01	1 U	0.01	1 U	0.006	1 U	0.008	9.3	0.149
	5/28/15	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	2.7	0.043
	8/24/15	1 U	0.01	0.38 J	0.004	1 U	0.01	1 U	0.006	1 U	0.008	3.9	0.062
	12/14/15	1 U	0.01	0.57 J	0.006	1 U	0.01	1 U	0.006	1 U	0.008	4.1	0.066
	4/12/16	1 U	0.01	0.6 J	0.006	1 U	0.01	1 U	0.006	1 U	0.008	9.2	0.147
	7/6/16	1 U	0.01	0.53 J	0.005	1 U	0.01	1 U	0.006	1 U	0.008	4.5 J	0.072
	9/28/16	1 U	0.01	0.91 J	0.009	1 U	0.01	1 U	0.006	1 U	0.008	7.9	0.126
	11/15/16	1 U	0.01	1.1	0.011	1 U	0.01	1 U	0.006	1 U	0.008	11.3 J	0.181
	3/28/17	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	2	0.032
	6/12/17	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	3	0.048
	9/27/17	1 U	0.01	0.54 J	0.006	1 U	0.01	1 U	0.006	1 U	0.008	4.8	0.077
	12/18/17	1 U	0.01	0.54 J	0.006	1 U	0.01	1 U	0.006	1 U	0.008	4.4	0.07
	3/20/18	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	4.4	0.07
	5/9/18	1 U	0.01	0.69 J	0.007	1 U	0.01	1 U	0.006	1 U	0.008	5.1	0.082
	8/28/18	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	2.2	0.035
	12/12/18	1 U	0.01	0.56 J	0.006	1 U	0.01	1 U	0.006	1 U	0.008	8	0.128
	3/6/19	1 U	0.01	0.76 J	0.008	1 U	0.01	1 U	0.006	1 U	0.008	9.7	0.155
	6/18/19	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1.8	0.029
	9/19/19	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	2.1	0.034
	12/12/19	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	2.7	0.043
	3/19/20	1 U	0.01	2.1	0.022	1 U	0.01	1 U	0.006	1 U	0.008	25.1	0.402
	5/14/20	1 UJ	0.01	1.4	0.014	1 U	0.01	1 U	0.006	1 U	0.008	14.6	0.234
	8/12/20	1 U	0.01	1.2	0.012	1 U	0.01	1 U	0.006	1 U	0.008	14.9	0.238
	12/18/20	1 U	0.01	0.84 J	0.009	1 U	0.01	1 U	0.006	1 U	0.008	10.2	0.163
	3/24/21	1 U	0.01	1.2	0.012	1 U	0.01	1 U	0.006	1 U	0.008	14.7	0.235
	6/23/21	1 U	0.01	0.88 J	0.009	1 U	0.01	1 U	0.006	1 U	0.008	9.6	0.154
	9/22/21	1 UJ	0.01	1 UJ	0.01	1 UJ	0.01	1 UJ	0.006	1 UJ	0.008	6.3 J	0.101
	12/15/21	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1.4	0.022
	3/22/22	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	5.3	0.085
	6/15/22	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	4.8	0.077
	9/21/22	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1.4	0.022
	12/14/22	1 U	0.01	0.95 J	0.01	1 U	0.01	1 U	0.006	1 U	0.008	10.5	0.168
	4/20/23	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	0.63 J	0.01
	9/20/23	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	4.1	0.066

Table 12

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
		5		5		5		5		5		2	
		96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
MW-5B	11/5/03	600 U	6.19	32,000 E	330.1	320 J	3.301	600 U	3.618	25,000 E	190.3	2,000	32
	12/15/05	82	0.85	40,000 D	412.6	380 E	3.92	74	0.446	47,000 D	357.7	1,200 E	19.2
	1/14/09	43	0.44	19,000 D	196	800 D	8.252	89	0.537	52,000 D	395.8	700 DJ	11.2
	9/23/09	80 U	0.83	5,800 D	59.82	49 J	0.505	80 U	0.482	5,200 D	39.58	140 D	2.24
	12/21/09	2.3	0.02	1,210 D	12.48	24.1	0.249	1.3	0.008	657 D	5.001	52.9	0.846
	4/6/10	6.4	0.07	3,990 D	41.16	101	1.042	10.2	0.062	3,750 D	28.54	257	4.112
	6/30/10	1.4 J	0.01	1,410	14.54	20.3	0.209	1.7	0.01	781	5.945	10.3	0.165
	9/29/10	12.4	0.13	7,140	73.65	123	1.269	11.5	0.069	4,450	33.87	511	8.176
	12/29/10	17.7	0.18	10,400	107.3	81.3	0.839	15.1	0.091	6,660	50.69	491	7.856
	3/25/11	1.5	0.02	967	9.974	10.1	0.104	3.8	0.023	1,330	10.12	5.6	0.09
	6/22/11	1 U	0.01	407	4.198	4.8	0.05	1 U	0.006	297	2.261	1 U	0.016
	10/4/11	2.8 J	0.03	1,510 J	15.58	18.4 J	0.19	1 U	0.006	161 J	1.225	1 U	0.016
	12/14/11	4.8	0.05	2,480	25.58	29.3	0.302	1 U	0.006	399	3.037	89.7	1.435
	3/27/12	6	0.06	4,420	45.59	59.6	0.615	3.5	0.021	3,450	26.26	55	0.88
	6/29/12	1.5	0.02	713	7.354	11.8	0.122	1 U	0.006	338	2.573	116	1.856
	10/3/12	20 U	0.21	279	2.878	20 U	0.206	20 U	0.121	40.6	0.309	151	2.416
	12/5/12	4.7	0.05	1,250	12.89	38.6	0.398	1 U	0.006	261	1.987	314	5.024
	4/3/13	5 U	0.05	918	9.469	18.1	0.187	5 U	0.03	406	3.09	52.8	0.845
	6/5/13	10 U	0.1	1,130	11.66	10 U	0.103	10 U	0.06	512	3.897	10 U	0.16
	10/18/13	5 U	0.05	1,950	20.11	29.7	0.306	5 U	0.03	352	2.679	249	3.984
	12/5/13	1 U	0.01	975	10.06	10.8	0.111	0.94 J	0.006	347	2.641	12.7	0.203
	3/27/14	2 U	0.02	515	5.312	6.8	0.07	2 U	0.012	272	2.07	5.6	0.09
	6/17/14	5 U	0.05	507	5.229	6.7	0.069	5 U	0.03	1,160	8.829	29.8	0.477
	8/20/14	2 U	0.02	694	7.158	12.9	0.133	2 U	0.012	120	0.913	105 J	1.68
	12/4/14	1.1	0.01	527	5.436	9.1	0.094	0.94 J	0.006	542	4.125	51 J	0.816
	3/11/15	2 U	0.02	342	3.528	7	0.072	1.3 J	0.008	742	5.648	1.7 J	0.027
	5/28/15	1.4 J	0.01	760	7.839	14	0.144	1.3 J	0.008	727	5.534	6.4	0.102
	8/24/15	2.2	0.02	716	7.385	11.5	0.119	2.7	0.016	1,200	9.134	44.9	0.718
	12/14/15	3	0.03	880	9.077	13.7	0.141	5	0.03	1,560	11.87	25	0.4
	4/12/16	2 U	0.02	584	6.024	13.1	0.135	1.3 J	0.008	649	4.94	6.5	0.104
	7/7/16	10 U	0.1	705	7.272	9.6 J	0.099	10 U	0.06	875	6.66	10 U	0.16
	9/28/16	4 U	0.04	870 J	8.974	14.8	0.153	1.8 U	0.011	573	4.361	26.4	0.422
	11/15/16	5 U	0.05	791	8.159	12.5	0.129	1.7 J	0.01	682	5.191	15.4 J	0.246
	3/28/17	0.42 J	0	226	2.331	5.4	0.056	1.3	0.008	591	4.498	2.3	0.037
	6/14/17	2.5 U	0.03	199	2.053	5.6	0.058	2.1 J	0.013	864	6.576	9.4	0.15
	9/27/17	1.1 J	0.01	521	5.374	8.1	0.084	2.2	0.013	961	7.315	8.8	0.141
	12/19/17	0.64 J	0.01	331	3.414	6.6	0.068	0.83 J	0.005	527	4.011	1.1	0.018
	3/21/18	1 U	0.01	223	2.3	4.8	0.05	1 U	0.006	143	1.088	29.2	0.467
	5/9/18	1 U	0.01	135	1.392	3.8	0.039	0.62 J	0.004	232	1.766	16.1	0.258
	8/29/18	1 U	0.01	88.4	0.912	2.2	0.023	1 U	0.006	248	1.888	19.1	0.306
	12/12/18	1 U	0.01	53.5	0.552	1.2	0.012	1 U	0.006	198	1.507	1	0.016
	3/6/19	1 U	0.01	104	1.073	2.1	0.022	1 U	0.006	478	3.638	1 U	0.016
	6/19/19	1 U	0.01	133 J	1.372	2.7	0.028	0.99 J	0.006	316	2.405	1.3	0.021
	9/19/19	2.5 U	0.03	454	4.683	5.6	0.058	2.5 U	0.015	479	3.646	4.4	0.07
	12/12/19	5 U	0.05	528	5.446	8	0.083	5 U	0.03	722	5.496	5 U	0.08
	3/18/20	5 U	0.05	644	6.643	17.8	0.184	5 U	0.03	575	4.377	5.4	0.086
	5/15/20	5 UJ	0.05	394	4.064	11.5	0.119	5 U	0.03	696	5.298	5 U	0.08
	8/12/20	5 U	0.05	898	9.263	18.7	0.193	5 U	0.03	924	7.033	16.3	0.261
	12/18/20	1 U	0.01	260	2.682	8.7	0.09	1 U	0.006	375	2.854	1 U	0.016
	3/24/21	1 U	0.01	298	3.074	9.9	0.102	1 U	0.006	491	3.737	1.9	0.03
	6/23/21	0.81 J	0.01	384	3.961	10.2	0.105	1 U	0.006	290	2.207	22.3	0.357
	9/22/21	1.2 J	0.01	393 J	4.054	8 J	0.083	1.3 J	0.008	552 J	4.202	3.2 J	0.051
	12/16/21	5 U	0.05	538	5.549	8.5	0.088	5 U	0.03	802	6.104	9.1	0.146
	3/22/22	1 U	0.01	118	1.217	4.5	0.046	1.1	0.007	375	2.854	1.4	0.022
	6/15/22	1 U	0.01	329	3.394	10.2	0.105	1.2	0.007	656	4.993	2.1	0.034
	9/22/22	1.5 U	0.02	795	8.2	11.7	0.121	0.81	0.005	554	4.217	27.7	0.443
	12/14/22	1 U	0.01	198	2.042	2.3	0.024	1.1	0.007	569	4.331	1 U	0.016
	4/20/23	5 U	0.05	705	7.272	10.2	0.105	5 U	0.03	383	2.915	47.7	0.763
	9/21/23	4 U	0.04	870	8.974	15.1	0.156	4 U	0.024	583	4.438	16.3	0.261
MW-5-40	4/7/05	37	0.38	19,000 E	196	150	1.547	20 U	0.121	14,000 E	106.6	350	5.6
	6/29/06	55	0.57	26,000 D	268.2	180 E	1.857	11	0.066	29,000 D	220.7	400 E	6.4
	4/1/09	22	0.23	12,000 D	123.8	92 DJ	0.949	2	0.012	11,000 D	83.73	510 D	8.16
	9/22/09	200 U	2.06	16,000	165	200 U	2.063	200 U	1.206	28,000 D	213.1	270	4.32
	4/7/10	23.2	0.24	13,400 D	138.2	177	1.826	3.6	0.022	6,540 D	49.78	390	6.24
	10/4/10	28.7	0.3	11,400	117.6	128	1.32	5.3	0.032	5,550	42.24	314	5.024
	3/25/11	5.7	0.06	18,000	185.7	111	1.145	2.7	0.016	6,390	48.64	774	12.38
	10/4/11	7.7 J	0.08	6,720 J	69.31	48.1 J	0.496	3.8	0.023	6,760 J	51.45	384 J	6.144
	3/28/12	11.2	0.12	10,200	105.2	89.1	0.919	4	0.024	6,600	50.24	314	5.024
	10/4/12	200 U	2.06	9,780	100.9	200 U	2.063	200 U	1.206	6,840	52.06	460	7.36
	4/3/13	21.6	0.22	8,470	87.36	149	1.537	2.5	0.015	4,050	30.83	452	7.232
	10/18/13	25.8	0.27	13,100	135.1	96.4	0.994	20 U	0.121	9,580	72.92	711	11.38
	3/27/14	50 U	0.52	10,900	112.4	101	1.042	50 U	0.302	6,080	46.28	657	10.51
	8/20/14	20 U	0.21	7,740	79.83	112	1.155	20 U	0.121	4,920	37.45	563 J	9.008
	3/11/15	20.2	0.21	6,820	70.35	151	1.558	3	0.018	2,320	17.66	565	9.04
	8/24/15	19.1	0.2	8,180	84.37	224	2.31	4.8	0.029	5,370	40.87	969	15.5
	4/12/16	17.7 J	0.18	12,700	131	237	2.445	20 U	0.121	1,550	11.8	1,140	18.24
	9/27/16	50 U	0.52	12,000 J	123.8	143	1.475	50 U	0.302	4,490	34.18	683	10.93
	3/28/17	22.5 J	0.23	12,300	126.9	192	1.98	25 U	0.151	4,430	33.72	505	8.08
	6/14/17	30	0.31	15,100	155.8	264	2.723	25 U	0.151	3,720	28.31	878	14.05
	9/26/17	47.3 J	0.49	19,000	196	284	2.929	100 U	0.603	4,600	35.01	939	15.02

Table 12

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
		Evaluation Criteria (b)											
		Molecular Weight		5	µM	5	µM	5	µM	5	µM	2	µM
		96.94				96.95		96.95		165.82		131.38	
MW-5-40	12/19/17			36.9	0.38	16,500	170.2	232	2.393	10 U	0.06	3,230	24.59
	3/20/18			29.6 J	0.31	15,400	158.8	270	2.785	50 U	0.302	2,500	19.03
	5/9/18			33.9 J	0.35	18,100	186.7	294	3.032	50 U	0.302	2,000	15.22
	8/29/18			50 U	0.52	16,500	170.2	256	2.641	50 U	0.302	3,780	28.77
	12/12/18			50 U	0.52	13,600	140.3	176	1.815	50 U	0.302	2,630	20.02
	3/6/19			22.5 J	0.23	9,840	101.5	226	2.331	25 U	0.151	3,910	29.76
	6/19/19			27.1	0.28	11,400	117.6	247	2.548	1.8	0.011	3,040	23.14
	9/19/19			24	0.25	12,200	125.8	325	3.352	5 U	0.03	1,310	9.971
	12/10/19			25 U	0.26	4,640	47.86	18.6 J	0.192	25 U	0.151	49.8	0.379
	3/20/20			20.6	0.21	10,100	104.2	318	3.28	20 U	0.121	2,840	21.62
	5/14/20			20.6	0.21	9,130	94.17	233	2.403	20 U	0.121	2,790 J	21.24
	8/12/20			16.7 J	0.17	10,200	105.2	263	2.713	25 U	0.151	2,320	17.66
	12/17/20			6.9 J	0.07	3,760	38.78	133	1.372	10 U	0.06	1,020	7.764
	3/24/21			16.9	0.17	8,600	88.71	327	3.373	10 U	0.06	1,460	11.11
	6/23/21			21.1	0.22	8,370	86.33	158	1.63	20 U	0.121	54.6	0.416
	9/22/21			100 U	1.03	10,900 J	112.4	68.4 J	0.706	100 U	0.603	287 J	2.185
	12/14/21			50 U	0.52	10,800	111.4	155	1.599	50 U	0.302	307	2.337
	3/23/22			6.6 J	0.07	5,830	60.13	123	1.269	10 U	0.06	766	5.83
	6/16/22			50 U	0.52	6,260	64.57	58.6	0.604	50 U	0.302	3,030	23.06
	9/20/22			10 U	0.1	2,420	24.96	101	1.042	10 U	0.06	33	0.251
	12/14/22			13.7	0.14	7,780	80.25	56.2	0.58	10 U	0.06	1,720	13.09
	4/20/23			50 U	0.52	8,650	89.22	253	2.61	50 U	0.302	2,080	15.83
	9/20/23			50 U	0.52	12,300	126.9	195	2.011	50 U	0.302	4,080	31.05
MW-5-100	11/12/04			1 U	0.01	0.49 J	0.005	1 U	0.01	1 U	0.006	0.97 J	0.007
	4/1/09			1 U	0.01	17	0.175	0.31 J	0.003	1 U	0.006	0.98 J	0.007
	6/10/09			1.5	0.02	1,600 D	16.5	25	0.258	0.74 J	0.004	580 D	4.415
	9/22/09			1 U	0.01	23	0.237	1 U	0.01	1 U	0.006	2.8	0.021
	4/7/10			1 U	0.01	37.3	0.385	1 U	0.01	1 U	0.006	4.7	0.036
	10/4/10			1 U	0.01	39.9	0.412	1 U	0.01	1 U	0.006	1.8	0.014
	3/25/11			1 U	0.01	13.5	0.139	1 U	0.01	1 U	0.006	2.2	0.017
	6/29/12			1 U	0.01	7.1	0.073	1 U	0.01	1 U	0.006	1 U	0.008
	10/4/12			1 U	0.01	3.72	0.038	1 U	0.01	1 U	0.006	2.95	0.022
	4/3/13			1 U	0.01	3.5	0.036	1 U	0.01	1 U	0.006	1 U	0.008
	10/18/13			1 U	0.01	2.5	0.026	1 U	0.01	1 U	0.006	1.4	0.011
	3/27/14			1 U	0.01	2	0.021	1 U	0.01	1 U	0.006	1 U	0.008
	8/19/14			1 U	0.01	2.5	0.026	1 U	0.01	1 U	0.006	2.6	0.02
	3/11/15			0.9 J	0.01	20	0.206	0.77 J	0.008	1 U	0.006	0.57 J	0.004
	8/24/15			1 U	0.01	3.2	0.033	0.79 J	0.008	1 U	0.006	0.41 J	0.003
	4/12/16			1 U	0.01	2.2	0.023	1 U	0.01	1 U	0.006	1 U	0.008
	9/28/16			1 U	0.01	2.1 J	0.022	1 U	0.01	1 U	0.006	0.54 J	0.004
	3/29/17			1 U	0.01	2	0.021	1 U	0.01	1 U	0.006	0.26 J	0.002
	9/27/17			1 U	0.01	2.3	0.024	1 U	0.01	1 U	0.006	0.53 J	0.004
	3/20/18			1 U	0.01	2.2	0.023	1 U	0.01	1 U	0.006	0.39 J	0.003
	8/29/18			1 U	0.01	2.5	0.026	1 U	0.01	1 U	0.006	1 U	0.008
	3/6/19			1 U	0.01	2.2	0.023	1 U	0.01	1 U	0.006	1 U	0.008
	9/19/19			1 U	0.01	2	0.021	1 U	0.01	1 U	0.006	1 U	0.008
	3/20/20			1 U	0.01	2	0.021	1 U	0.01	1 U	0.006	1 U	0.008
	8/12/20			1 U	0.01	2	0.021	1 U	0.01	1 U	0.006	1 U	0.008
	3/24/21			1 U	0.01	2.2	0.023	1 U	0.01	1 U	0.006	1 U	0.008
	9/21/21			0.68 J	0.01	554 J	5.714	2.7 J	0.028	1 UJ	0.006	4.6 J	0.035
	3/23/22			1 U	0.01	70.4	0.726	1 U	0.01	1 U	0.006	0.72	0.005
	6/16/22			1 U	0.01	78.9	0.814	1 U	0.01	1 U	0.006	0.99 J	0.008
	9/21/22			1 U	0.01	33.4	0.345	1 U	0.01	1 U	0.006	1 U	0.008
	12/14/22			1 U	0.01	20.1	0.207	1 U	0.01	1 U	0.006	1 U	0.008
	4/20/23			1 U	0.01	17	0.175	1 U	0.01	1 U	0.006	1 U	0.008
	9/20/23			1 U	0.01	19.2	0.198	1 U	0.01	1 U	0.006	0.81 J	0.006
MW-7B	3/11/15			1.7	0.02	951	9.809	10.8	0.111	1 U	0.006	3	0.023
	4/12/16			1 U	0.01	1.3 J	0.013	1 U	0.01	1 U	0.006	0.79 J	0.006
	9/27/16			1 U	0.01	1.3 J	0.013	1 U	0.01	1 U	0.006	0.79 J	0.006
	3/29/17			1 U	0.01	5.1	0.053	1 U	0.01	1 U	0.006	0.63 J	0.005
	6/13/17			1 U	0.01	251	2.589	1.7	0.018	1 U	0.006	13.5	0.103
	9/28/17			1 U	0.01	11.8	0.122	1	0.01	1 U	0.006	0.73 J	0.006
	12/19/17			1 U	0.01	1	0.01	1 U	0.01	1 U	0.006	1 U	0.008
	3/20/18			1 U	0.01	0.54 J	0.006	1 U	0.01	1 U	0.006	0.36 J	0.003
	5/8/18			1 U	0.01	199	2.053	1.1	0.011	1 U	0.006	175	1.332
	8/29/18			1 U	0.01	25.4	0.262	1 U	0.01	1 U	0.006	11.5	0.088
	12/12/18			1 U	0.01	17	0.175	1 U	0.01	1 U	0.006	3.2	0.024
	3/5/19			1 U	0.01	5.3	0.055	1 U	0.01	1 U	0.006	0.84 J	0.006
	6/19/19			1 U	0.01	8.9	0.092	1 U	0.01	1 U	0.006	0.84 J	0.006
	9/17/19			1 U	0.01	182	1.877	1.6	0.017	1 U	0.006	46.3	0.352
	12/11/19			1 U	0.01	2.2	0.023	1 U	0.01	1 U	0.006	1 U	0.008
	3/19/20			1 U	0.01	111	1.145	0.74 J	0.008	1 U	0.006	19.9	0.151
	5/13/20			1 UJ	0.01	29.4	0.303	1 U	0.01	1 U	0.006	10.1	0.077
	8/12/20			1 U	0.01	115	1.186	0.87 J	0.009	1 U	0.006	4.5	0.034
	12/16/20			1 U	0.01	51.6	0.532	1 U	0.01	1 U	0.006	12.2	0.093
	3/23/21			1 U	0.01	139	1.434	0.78 J	0.008	1 U	0.006	39.7	0.302
	6/23/21			1 U	0.01	4	0.041	1 U	0.01	1 U	0.006	1 U	0.008
	9/21/21			2.5 U	0.03	207 J	2.135	1.4 J	0.014	2.5 U	0.015	9.6 J	0.073
	12/14/21			0.72 J	0.01	346	3.569	1.5	0.015	1 U	0.006	118	0.898
	3/22/22			1 U	0.01	9.5	0.098	1 U	0.01	1 U	0.006	1.6	0.012
	6/16/22			1 U	0.01	1.3	0.013	1 U	0.01	1 U	0.006	1 U	0.008

Table 12

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
		Evaluation Criteria (b)											
		Molecular Weight											
		5		5		5		5		5		2	
		96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
MW-7B	9/21/22	1 U	0.01	1.7	0.018	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	12/23/22	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/20/23	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/19/23	1 U	0.01	24.7	0.255	1 U	0.01	1 U	0.006	1.2	0.009	34.7	0.555
MW-7-40	5/19/05	1 U	0.01	100 E	1.031	3.3	0.034	1 U	0.006	1 U	0.008	35	0.56
	12/14/05	2 U	0.02	180	1.857	3.1	0.032	2 U	0.012	2 U	0.015	40	0.64
	6/29/06	1 U	0.01	120 E	1.238	1.3	0.013	1 U	0.006	1 U	0.008	23	0.368
	4/2/09	1 U	0.01	33	0.34	1.5	0.015	1 U	0.006	1 U	0.008	30	0.48
	6/11/09	1 U	0.01	140 D	1.444	2.3	0.024	1 U	0.006	0.51 J	0.004	4.1	0.066
	9/23/09	1 U	0.01	97	1.001	2	0.021	1 U	0.006	1 U	0.008	29	0.464
	4/8/10	1 U	0.01	227	2.341	1.6	0.017	1 U	0.006	1 U	0.008	8.2	0.131
	10/6/10	1 U	0.01	145	1.496	1	0.01	1 U	0.006	1 U	0.008	10.7	0.171
	3/25/11	1 U	0.01	150	1.547	1 U	0.01	1 U	0.006	3.2	0.024	17.7	0.283
	10/4/11	1 U	0.01	267	2.754	2.9	0.03	1 U	0.006	1 U	0.008	42.7	0.683
	3/27/12	1 U	0.01	206	2.125	1.1	0.011	1 U	0.006	1 U	0.008	38.3	0.613
	10/4/12	5 U	0.05	130	1.341	5 U	0.052	5 U	0.03	5 U	0.038	32.9	0.526
	4/4/13	1 U	0.01	155	1.599	1.6	0.017	1 U	0.006	1 U	0.008	33.4	0.534
	3/26/14	1 U	0.01	138	1.423	1.4	0.014	1 U	0.006	1 U	0.008	22.6	0.362
	8/19/14	1 U	0.01	218	2.249	2.4	0.025	1 U	0.006	1 U	0.008	31.9	0.51
	3/12/15	1 U	0.01	115	1.186	0.85 J	0.009	1 U	0.006	1 U	0.008	14.5	0.232
	8/24/15	1 U	0.01	161	1.661	1.3	0.013	1 U	0.006	1 U	0.008	33.2	0.531
	4/14/16	1 U	0.01	156	1.609	1.1	0.011	1 U	0.006	1 U	0.008	64.9	1.038
	9/28/16	1 U	0.01	133 J	1.372	0.95 J	0.01	1 U	0.006	0.79 J	0.006	39.4	0.63
	3/31/17	1 U	0.01	88.6	0.914	1 U	0.01	1 U	0.006	1 U	0.008	29.3	0.469
	9/29/17	1 U	0.01	88.2	0.91	0.4 J	0.004	1 U	0.006	1 U	0.008	38.9	0.622
	3/23/18	1 U	0.01	104	1.073	0.76 J	0.008	1 U	0.006	1 U	0.008	27.2	0.435
	8/31/18	1 U	0.01	179	1.846	3.1	0.032	1 U	0.006	1 U	0.008	23.2	0.371
	3/7/19	1 U	0.01	84.7	0.874	1 U	0.01	1 U	0.006	1 U	0.008	27.6	0.442
	9/18/19	1 U	0.01	75.6	0.78	1 U	0.01	1 U	0.006	1 U	0.008	30.3	0.485
	3/23/20	1 U	0.01	127	1.31	0.83 J	0.009	1 U	0.006	1 U	0.008	1 U	0.016
	8/13/20	1 U	0.01	82.8	0.854	0.54 J	0.006	1 U	0.006	1 U	0.008	22.2	0.355
	3/23/21	1 U	0.01	124	1.279	0.84 J	0.009	1 U	0.006	1 U	0.008	0.81 J	0.013
	9/21/21	1 UJ	0.01	85.6 J	0.883	1.1 J	0.011	1 UJ	0.006	1 UJ	0.008	15.2 J	0.243
	3/24/22	1 U	0.01	1	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/21/22	1 U	0.01	150	1.547	2.2	0.023	1 U	0.006	1 U	0.008	41.5	0.664
	4/18/23	1 U	0.01	79.4	0.819	0.57 J	0.006	1 U	0.006	1 U	0.008	1.6	0.026
MW-8-40	5/19/05	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	12/14/05	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	6/29/05	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/3/09	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	0.74 J	0.006	1 U	0.016
	6/9/09	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/24/09	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/8/10	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	10/7/10	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/23/11	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	10/4/11	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/27/12	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	10/3/12	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/3/13	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	10/28/13	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/27/14	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	8/19/14	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/16/15	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	8/24/15	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/14/16	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/27/16	1 U	0.01	1 UJ	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/31/17	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/28/17	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/21/18	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	8/30/18	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	8/30/18	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/8/19	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/19/19	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	12/11/19	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/18/20	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	8/13/20	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/25/21	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/23/21	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/22/22	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/22/22	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/21/23	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016

Table 12

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
		Evaluation Criteria (b)											
		Molecular Weight											
		5		5		5		5		5		2	
		96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
MW-15-40	4/1/09	22	0.23	12,000 D	123.8	92 D	0.949	2	0.012	11,000 D	83.73	510 D	8.16
	9/22/09	200 U	2.06	16,000	165	200 U	2.063	200 U	1.206	28,000 D	213.1	270	4.32
	4/7/10	23.2	0.24	13,400 D	138.2	177	1.826	3.6	0.022	6,540 D	49.78	390	6.24
	10/4/10	28.7	0.3	11,400	117.6	128	1.32	5.3	0.032	5,550	42.24	314	5.024
	3/25/11	5.7	0.06	18,000	185.7	111	1.145	2.7	0.016	6,390	48.64	774	12.38
	10/4/11	7.7 J	0.08	6,720 J	69.31	48.1 J	0.496	3.8	0.023	6,760 J	51.45	384 J	6.144
	3/28/12	11.2	0.12	10,200	105.2	89.1	0.919	4	0.024	6,600	50.24	314	5.024
	10/4/12	200 U	2.06	9,780	100.9	200 U	2.063	200 U	1.206	6,840	52.06	460	7.36
	4/3/13	21.6	0.22	8,470	87.36	149	1.537	2.5	0.015	4,050	30.83	452	7.232
	10/18/13	25.8	0.27	13,100	135.1	96.4	0.994	20 U	0.121	9,580	72.92	711	11.38
	3/27/14	50 U	0.52	10,900	112.4	101	1.042	50 U	0.302	6,080	46.28	657	10.51
	8/20/14	20 U	0.21	7,740	79.83	112	1.155	20 U	0.121	4,920	37.45	563 J	9.008
	3/11/15	20.2	0.21	6,820	70.35	151	1.558	3	0.018	2,320	17.66	565	9.04
	8/24/15	19.1	0.2	8,180	84.37	224	2.31	4.8	0.029	5,370	40.87	969	15.5
	4/12/16	17.7 J	0.18	12,700	131	237	2.445	20 U	0.121	1,550	11.8	1,140	18.24
	9/27/16	50 U	0.52	12,000 J	123.8	143	1.475	50 U	0.302	4,490	34.18	683	10.93
	3/28/17	22.5 J	0.23	12,300	126.9	192	1.98	25 U	0.151	4,430	33.72	505	8.08
	6/14/17	30	0.31	15,100	155.8	264	2.723	25 U	0.151	3,720	28.31	878	14.05
	9/26/17	47.3 J	0.49	19,000	196	284	2.929	100 U	0.603	4,600	35.01	939	15.02
	12/19/17	36.9	0.38	16,500	170.2	232	2.393	10 U	0.06	3,230	24.59	975	15.6
	3/20/18	29.6 J	0.31	15,400	158.8	270	2.785	50 U	0.302	2,500	19.03	1,190	19.04
	5/9/18	33.9 J	0.35	18,100	186.7	294	3.032	50 U	0.302	2,000	15.22	1,000	16
	8/29/18	50 U	0.52	16,500	170.2	256	2.641	50 U	0.302	3,780	28.77	733	11.73
	12/12/18	50 U	0.52	13,600	140.3	176	1.815	50 U	0.302	2,630	20.02	909	14.54
	3/6/19	22.5 J	0.23	9,840	101.5	226	2.331	25 U	0.151	3,910	29.76	852	13.63
	6/19/19	27.1	0.28	11,400	117.6	247	2.548	1.8	0.011	3,040	23.14	979	15.66
	9/19/19	24	0.25	12,200	125.8	325	3.352	5 U	0.03	1,310	9.971	1,010	16.16
	12/10/19	25 U	0.26	4,640	47.86	18.6 J	0.192	25 U	0.151	49.8	0.379	164	2.624
	3/20/20	20.6	0.21	10,100	104.2	318	3.28	20 U	0.121	2,840	21.62	1,600	25.6
	5/14/20	20.6	0.21	9,130	94.17	233	2.403	20 U	0.121	2,790 J	21.24	884	14.14
	8/12/20	16.7 J	0.17	10,200	105.2	263	2.713	25 U	0.151	2,320	17.66	1,310	20.96
	12/17/20	6.9 J	0.07	3,760	38.78	133	1.372	10 U	0.06	1,020	7.764	1,150	18.4
	3/24/21	16.9	0.17	8,600	88.71	327	3.373	10 U	0.06	1,460	11.11	1,280	20.48
	6/23/21	21.1	0.22	8,370	86.33	158	1.63	20 U	0.121	54.6	0.416	2,400	38.4
	9/22/21	100 U	1.03	10,900	112.4	68.4	0.706	100 U	0.603	287	2.185	1,580	25.28
	12/14/21	50 U	0.52	10,800	111.4	155	1.599	50 U	0.302	307	2.337	6,750	108
	3/23/22	6.6	0.07	5,830	60.13	123	1.269	10 U	0.06	766	5.83	5,780	92.48
	6/16/22	50 U	0.52	6,260	64.57	58.6	0.604	50 U	0.302	3,030	23.06	1,500	24
	9/20/22	10 U	0.1	2,420	24.96	101	1.042	10 U	0.06	33	0.251	4,250	68
	12/14/22	13.7	0.14	7,780	80.25	56.2	0.58	10 U	0.06	1,720	13.09	1,060	16.96
			0		0		0		0		0		0
MW-16-100	12/14/05	1 U	0.01	120 E	1.238	2	0.021	1 U	0.006	2	0.014	4	0.067
	4/2/09	0.63 J	0.01	600 D	6.189	4.6	0.047	1 U	0.006	1.4	0.011	56	0.896
	6/9/09	1.1	0.01	770 D	7.942	3.6	0.037	1 U	0.006	0.91 J	0.007	93	1.488
	9/24/09	10 U	0.1	780	8.045	4.9 J	0.051	10 U	0.06	10 U	0.076	76	1.216
	4/6/10	1 U	0.01	501 D	5.168	1.6	0.017	1 U	0.006	2.8	0.021	99.4	1.59
	10/6/10	1 U	0.01	65.3	0.674	1 U	0.01	1 U	0.006	1 U	0.008	28.3	0.453
	10/6/11	1 U	0.01	165 J	1.702	1.9 J	0.02	1 U	0.006	1 U	0.008	146 J	2.336
	3/27/12	1 U	0.01	293	3.022	2.3	0.024	1 U	0.006	1 U	0.008	84.5	1.352
	10/4/12	1 U	0.01	176	1.815	1.28	0.013	1 U	0.006	6.49	0.049	49.9	0.798
	4/4/13	1 U	0.01	162	1.671	1 U	0.01	1 U	0.006	1 U	0.008	33.1	0.53
	10/18/13	1 U	0.01	51	0.526	1 U	0.01	1 U	0.006	1 U	0.008	25.3 J	0.405
	3/26/14	1 U	0.01	137	1.413	0.75 J	0.008	1 U	0.006	1 U	0.008	23.5	0.376
	8/20/14	1 U	0.01	138	1.423	1 U	0.01	1 U	0.006	2.3	0.018	41	0.656
	3/12/15	1 U	0.01	80.9	0.834	0.53 J	0.005	1 U	0.006	1 U	0.008	34.2	0.547
	8/24/15	1 U	0.01	42.4	0.437	1.3	0.013	1 U	0.006	1 U	0.008	45.6	0.73
	4/14/16	1 U	0.01	47.1	0.486	1 U	0.01	1 U	0.006	1 U	0.008	48.8	0.781
	9/27/16	1 U	0.01	22.2 J	0.229	1 U	0.01	1 U	0.006	1 U	0.008	10.6	0.17
	3/30/17	1 U	0.01	54.9	0.566	1 U	0.01	1 U	0.006	1 U	0.008	21.6	0.346
	9/29/17	1 U	0.01	47.7	0.492	1 U	0.01	1 U	0.006	1 U	0.008	11.7	0.187
	3/23/18	1 U	0.01	37.7	0.389	1 U	0.01	1 U	0.006	1 U	0.008	21.9	0.35
	8/31/18	1 U	0.01	18.9	0.195	1 U	0.01	1 U	0.006	1 U	0.008	13	0.208
	3/7/19	1 U	0.01	32.8	0.338	1 U	0.01	1 U	0.006	1 U	0.008	19	0.304
	9/17/19	1 U	0.01	6.7	0.069	1 U	0.01	1 U	0.006	1 U	0.008	2.5	0.04
	9/17/19	1 U	0.01	8.2	0.085	1 U	0.01	1 U	0.006	1 U	0.008	2.9	0.046
	3/24/20	1 U	0.01	39.4	0.406	1 U	0.01	1 U	0.006	1 U	0.008	99.6	1.594
	8/11/20	1 U	0.01	22.3	0.23	1 U	0.01	1 U	0.006	1 U	0.008	114	1.824
	3/23/21	1 U	0.01	8.7	0.09	1 U	0.01	1 U	0.006	1 U	0.008	54.4	0.87
	9/21/21	1 U	0.01	1.4 J	0.014	1 UJ	0.01	1 U	0.006	1 U	0.008	17.1 J	0.274
	3/23/22	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/21/22	1 U	0.01	4	0.041	1 U	0.01	1 U	0.006	1 U	0.008	19	0.304
	4/18/23	1 U	0.01	15.3	0.158	1 U	0.01	1 U	0.006	1 U	0.008	73.1	1.17

Table 12

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
		5		5		5		5		5		2	
		96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
MW-17-40	4/7/05	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	12/15/05	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	6/28/06	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/2/09	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	0.22 J	0.002	1 U	0.016
	6/9/09	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/22/09	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/7/10	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	10/6/10	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/24/11	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	10/5/11	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/27/12	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	10/3/12	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/3/13	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	10/17/13	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/26/14	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	8/19/14	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/12/15	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	8/24/15	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/14/16	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/27/16	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/29/17	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/28/17	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/22/18	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	8/30/18	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/6/19	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/18/19	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/17/20	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	8/11/20	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/22/21	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/22/21	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/24/22	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/22/22	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
			0		0		0		0		0		0
MW-18A	2/25/05	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/8/05	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	12/13/05	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	6/28/06	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/1/09	1 U	0.01	0.37 J	0.004	1 U	0.01	1 U	0.006	0.88 J	0.007	1 U	0.016
	9/24/09	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/7/10	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	10/7/10	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/24/11	1 U	0.01	4.8	0.05	1 U	0.01	1 U	0.006	4.5	0.034	1.2	0.019
	10/5/11	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/27/12	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	10/3/12	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/2/13	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	10/18/13	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/25/14	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	8/18/14	1 U	0.01	2.7	0.028	1 U	0.01	1 U	0.006	2	0.015	1 U	0.016
	3/12/15	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	8/24/15	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/12/16	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/26/16	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/29/17	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/28/17	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/22/18	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	8/29/18	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/8/19	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/19/19	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/17/20	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	8/13/20	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/25/21	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/23/21	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/22/22	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/22/22	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/21/23	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
MW-20B	4/7/05	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	12/14/05	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	6/28/06	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/1/09	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	0.25 J	0.002	1 U	0.016
	9/24/09	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	12/18/09	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/7/10	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	10/5/10	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/23/11	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	10/4/11	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	12/14/11	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/27/12	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	6/29/12	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	10/3/12	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/3/13	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	10/18/13	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016

Table 12

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
		Evaluation Criteria (b)		Molecular Weight									
		5		5		5		5		5		2	
		96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
MW-20B	3/26/14	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	8/19/14	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/16/15	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	8/24/15	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/13/16	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 UJ	0.016
	9/26/16	1 U	0.01	1 UJ	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/30/17	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/27/17	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/21/18	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	8/29/18	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/8/19	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/8/19	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	6/19/19	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/19/19	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/18/20	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	8/13/20	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/25/21	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/23/21	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/22/22	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/21/22	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/21/23	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
MW-22B	4/7/05	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	12/13/05	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1.1	0.008	1 U	0.016
	6/28/06	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/2/09	1 U	0.01	0.65 J	0.007	0.71 J	0.007	1 U	0.006	0.36 J	0.003	1 U	0.016
	9/24/09	1 U	0.01	1.3	0.013	0.57 J	0.006	1 U	0.006	1 U	0.008	1.1	0.018
	4/8/10	1 U	0.01	1.6	0.017	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	10/5/10	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	3.1	0.05
	3/23/11	1 U	0.01	2.3	0.024	1 U	0.01	1 U	0.006	1.1	0.008	1.8	0.029
	10/5/11	1 U	0.01	1.4	0.014	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/27/12	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	10/3/12	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/2/13	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	10/18/13	1 U	0.01	0.68 J	0.007	1 U	0.01	1 U	0.006	0.71 J	0.005	1 U	0.016
	3/25/14	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	8/20/14	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	0.55 J	0.004	1 U	0.016
	3/12/15	1 U	0.01	0.73 J	0.008	1 U	0.01	1 U	0.006	0.28 J	0.002	1.1	0.018
	8/24/15	1 U	0.01	1.1	0.011	1 U	0.01	1 U	0.006	1 U	0.008	1.3	0.021
	11/3/15	1 U	0.01	1.1	0.011	1 U	0.01	1 U	0.006	1 U	0.008	1.6	0.026
	1/6/16	1 U	0.01	0.86 J	0.009	1 U	0.01	1 U	0.006	1 U	0.008	2.3	0.037
	4/12/16	1 U	0.01	0.65 J	0.007	1 U	0.01	1 U	0.006	1 U	0.008	1.5	0.024
	9/26/16	1 U	0.01	1.1 J	0.011	1 U	0.01	1 U	0.006	1 U	0.008	2	0.032
	3/29/17	1 U	0.01	0.71 J	0.007	1 U	0.01	1 U	0.006	1 U	0.008	1.2	0.019
	9/28/17	1 U	0.01	1.1	0.011	1 U	0.01	1 U	0.006	1 U	0.008	1.6	0.026
	9/28/17	1 U	0.01	1.2	0.012	1 U	0.01	1 U	0.006	1 U	0.008	1.7	0.027
	3/21/18	1 U	0.01	0.61 J	0.006	1 U	0.01	1 U	0.006	1 U	0.008	1.7	0.027
	8/31/18	1 U	0.01	0.55 J	0.006	1 U	0.01	1 U	0.006	1 U	0.008	1.2	0.019
	3/8/19	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/19/19	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/17/20	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	8/13/20	1 U	0.01	0.68 J	0.007	1 U	0.01	1 U	0.006	1 U	0.008	1	0.016
	3/25/21	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/23/21	1 U	0.01	0.75 J	0.008	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	3/22/22	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	9/22/22	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	4/21/23	1 U	0.01	0.8 J	0.008	1 U	0.01	1 U	0.006	1 U	0.008	0.91 J	0.015
MW-31B	8/18/05	1 U	0.01	1.3	0.013	1 U	0.01	1 U	0.006	5.5	0.042	1 U	0.016
	12/13/05	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	3.4	0.026	1 U	0.016
	3/23/22	2 U	0.02	0.9 J	0.009	1 U	0.01	1 U	0.006	15	0.114	2 U	0.032
	4/18/23	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	13.2	0.1	1 U	0.016
MW-32B	8/18/05	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	200 D	1.522	1 U	0.016
	1/14/09	1 U	0.01	200 D	2.063	1.4	0.014	1 U	0.006	140 D	1.066	1 U	0.016
	4/1/09	1 U	0.01	240 D	2.476	2	0.021	1 U	0.006	170 D	1.294	1 U	0.016
	6/10/09	1 U	0.01	190 D	1.96	1.1	0.011	1 U	0.006	160 D	1.218	1 U	0.016
	9/24/09	2 U	0.02	130	1.341	0.84 J	0.009	2 U	0.012	130	0.989	2 U	0.032
	12/18/09	1 U	0.01	73	0.753	1 U	0.01	1 U	0.006	95.9	0.73	1 U	0.016
	4/6/10	1 U	0.01	132	1.362	1 U	0.01	1 U	0.006	107	0.814	1 U	0.016
	6/29/10	1 U	0.01	94	0.97	1 UJ	0.01	1 U	0.006	80.2	0.61	1 U	0.016
	10/5/10	1 U	0.01	67.9	0.7	1 U	0.01	1 U	0.006	49.1	0.374	1 U	0.016
	12/29/10	1 U	0.01	78.9	0.814	1 U	0.01	1 U	0.006	46.4	0.353	1 U	0.016
	3/23/11	1 U	0.01	50.8	0.524	1 U	0.01	1 U	0.006	33.9	0.258	1 U	0.016
	10/4/11	1 U	0.01	57 J	0.588	1 UR	0.01	1 UR	0.006	59.3 J	0.451	1 UR	0.016
	12/14/11	1 U	0.01	28.2	0.291	1 U	0.01	1 U	0.006	43.1	0.328	1 U	0.016
	3/27/12	1 U	0.01	51.1	0.527	1 U	0.01	1 U	0.006	60.9	0.464	1 U	0.016
	6/29/12	1 U	0.01	45.8	0.472	1 U	0.01	1 U	0.006	77.6	0.591	1 U	0.016
	10/3/12	1 U	0.01	37.3	0.385	1 U	0.01	1 U	0.006	30	0.228	1 U	0.016
	12/5/12	1 U	0.01	38.7	0.399	1 U	0.01	1 U	0.006	58.4	0.445	1 U	0.016
	4/3/13	1 U	0.01	44.4	0.458	1	0.01	1 U	0.006	60.8	0.463	1 U	0.016
	6/3/13	1 U	0.01	23.9	0.247	1.9	0.02	1 U	0.006	75	0.571	1 U	0.016
	10/1/13	1 U	0.01	31	0.32	1 U	0.01	1 U	0.006	75	0.571	1 U	0.016

Table 12

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
		Evaluation Criteria (b)		Molecular Weight									
		5		5		5		5		5		2	
		96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
MW-32B	10/18/13	1 U	0.01	34.2	0.353	0.7 J	0.007	1 U	0.006	64.4	0.49	1 U	0.016
	12/6/13	1 U	0.01	13.4	0.138	1 U	0.01	1 U	0.006	38.3	0.292	1 U	0.016
	3/26/14	1 U	0.01	25.1	0.259	0.56 J	0.006	1 U	0.006	39.2	0.298	1 U	0.016
	6/17/14	1 U	0.01	15	0.155	1 U	0.01	1 U	0.006	53.3	0.406	1 U	0.016
	8/19/14	1 U	0.01	19.8	0.204	1 U	0.01	1 U	0.006	45.4	0.346	1 U	0.016
	12/3/14	1 U	0.01	15.2	0.157	1 U	0.01	1 U	0.006	32.8	0.25	1 U	0.016
	3/11/15	1 U	0.01	11.4	0.118	1 U	0.01	1 U	0.006	11.5	0.088	1 U	0.016
	5/26/15	1 U	0.01	16 J	0.165	1 U	0.01	1 U	0.006	50	0.381	1 U	0.016
	8/24/15	1 U	0.01	17.8	0.184	1 U	0.01	1 U	0.006	49.9	0.38	1 U	0.016
	12/16/15	1 U	0.01	8.6	0.089	1 U	0.01	1 U	0.006	34.6	0.263	1 U	0.016
	4/13/16	1 U	0.01	10.5	0.108	1 U	0.01	1 U	0.006	36.6	0.279	1 U	0.016
	7/6/16	1 U	0.01	13.2	0.136	1 U	0.01	1 U	0.006	56.1	0.427	1 U	0.016
	9/26/16	1 U	0.01	13.4 J	0.138	1 U	0.01	0.45 J	0.003	53.9	0.41	1 U	0.016
	11/15/16	1 U	0.01	8	0.083	1 U	0.01	0.37 U	0.002	34.2	0.26	1 U	0.016
	3/30/17	1 U	0.01	8.7	0.09	1 U	0.01	1 U	0.006	27.2	0.207	1 U	0.016
	6/14/17	1 U	0.01	14.5	0.15	0.47 J	0.005	1 U	0.006	39.9	0.304	1 U	0.016
	9/27/17	1 U	0.01	10.3	0.106	1 U	0.01	1 U	0.006	49	0.373	1 U	0.016
	12/20/17	1 U	0.01	13	0.134	1 U	0.01	1 U	0.006	31.4	0.239	1 U	0.016
	3/21/18	1 U	0.01	14.2	0.146	0.4 J	0.004	1 U	0.006	25.8	0.196	1 U	0.016
	5/10/18	1 U	0.01	9.4	0.097	0.52 J	0.005	1 U	0.006	38.7	0.295	1 U	0.016
	8/29/18	1 U	0.01	13.5	0.139	1 U	0.01	1 U	0.006	58.2	0.443	1 U	0.016
	12/12/18	1 U	0.01	6.7	0.069	1 U	0.01	1 U	0.006	23.6	0.18	1 U	0.016
	3/8/19	1 U	0.01	11.8	0.122	1 U	0.01	1 U	0.006	24.4	0.186	1 U	0.016
	6/18/19	1 U	0.01	7.3	0.075	1 U	0.01	1 U	0.006	32.2	0.245	1 U	0.016
	9/17/19	1 U	0.01	10.3	0.106	1 U	0.01	1 U	0.006	41	0.312	1 U	0.016
	5/15/20	1 U	0.01	7.3	0.075	1 U	0.01	1 U	0.006	32.8	0.25	1 U	0.016
	8/13/20	1 U	0.01	12.3	0.127	1 U	0.01	1 U	0.006	56.5	0.43	1 U	0.016
	12/17/20	1 U	0.01	6.9	0.071	1 U	0.01	1 U	0.006	30.6	0.233	1 U	0.016
	3/24/21	1 U	0.01	9	0.093	1 U	0.01	1 U	0.006	23.4	0.178	1 U	0.016
	9/23/21	1 U	0.01	15.9 J	0.164	1 U	0.01	1 U	0.006	19.5 J	0.148	1 U	0.016
	12/16/21	1 U	0.01	7.1	0.073	1 U	0.01	1 U	0.006	23.4	0.178	1 U	0.016
	3/22/22	1 U	0.01	13.2	0.136	1 U	0.01	1 U	0.006	22.2	0.169	1 U	0.016
	9/20/22	1 U	0.01	7.8	0.08	1 U	0.01	1 U	0.006	35.1	0.267	1 U	0.016
	12/14/22	1 U	0.01	4.8	0.05	1 U	0.01	1 U	0.006	24.1	0.183	1 U	0.016
	4/21/23	1 U	0.01	6.7	0.069	1 U	0.01	1 U	0.006	18	0.137	1 U	0.016
MW-40T	10/16/07	5 U	0.05	62	0.64	0.77 J	0.008	5 U	0.03	15	0.114	11	0.176
	1/3/15	10.8	0.11	2,800	28.88	36.8	0.38	1 U	0.006	102	0.776	199	3.184
	1/7/16	7.6	0.08	1,650	17.02	18	0.186	5.4	0.033	183	1.393	21.3	0.341
	4/19/23	7.8	0.08	2,270	23.41	24.2	0.25	1 U	0.006	73.6	0.56	176	2.816
MW-46-43C	8/17/17	50 U	0.52	19,800	204.2	106	1.093	50 U	0.302	8,710	66.3	562	8.992
	9/26/17	30.3 J	0.31	17,900	184.6	112	1.155	50 U	0.302	7,900	60.13	589	9.424
	12/19/17	34.5	0.36	21,500	221.8	107	1.104	25 U	0.151	3,830	29.15	889	14.22
	3/20/18	100 U	1.03	16,200	167.1	96.5 J	0.995	100 U	0.603	8,470	64.47	987	15.79
	5/8/18	36.1 J	0.37	18,600	191.9	135	1.392	50 U	0.302	8,220	62.57	944	15.1
	8/28/18	41.1 J	0.42	29,700	306.3	173	1.784	50 U	0.302	9,900	75.35	1,260	20.16
	12/12/18	100 U	1.03	22,200	229	117	1.207	100 U	0.603	4,750	36.15	1,260	20.16
	3/5/19	200 U	2.06	24,200	249.6	155 J	1.599	200 U	1.206	6,720	51.15	1,250	20
	6/19/19	34.3	0.35	19,100	197	115	1.186	25 U	0.151	6,650	50.62	1,110	17.76
	9/17/19	52.8	0.54	25,700	265.1	148	1.527	25 U	0.151	5,140	39.12	1,740	27.84
	12/10/19	36.1 J	0.37	22,700	234.1	145	1.496	50 U	0.302	3,950	30.07	1,080	17.28
	3/20/20	38.1 J	0.39	22,300	230	136	1.403	50 U	0.302	5,340	40.65	1,490	23.84
	5/13/20	100 U	1.03	23,900	246.5	158 J	1.63	100 U	0.603	4,860 J	36.99	1,220 J	19.52
	8/11/20	100 U	1.03	25,200	259.9	143	1.475	100 U	0.603	4,140	31.51	1,650	26.4
	12/17/20	32.4 J	0.33	21,500	221.8	119	1.227	50 U	0.302	3,180	24.2	1,560	24.96
	3/23/21	37.7 J	0.39	25,200	259.9	115	1.186	50 U	0.302	4,370	33.26	1,590	25.44
	6/22/21	39	0.4	18,300 J	188.8	137 J	1.413	25 U	0.151	3,600 J	27.4	1,890 J	30.24
	9/22/21	100 U	1.03	6,740 J	69.52	85.1 J	0.878	100 U	0.603	100 U	0.761	13,400 J	214.4
	12/14/21	20 U	0.21	6,160	63.54	72.3	0.746	20 U	0.121	20 U	0.152	6,100	97.6
	3/23/22	22.5 J	0.23	13,000	134.1	99.5	1.026	25 U	0.151	144	1.096	5,670	90.72
	6/15/22	100 U	1.03	14,500	149.6	104	1.073	100 U	0.603	57.2 J	0.435	8,700	139.2
	9/20/22	100 U	1.03	14,600	150.6	112	1.155	100 U	0.603	100 U	0.761	8,960	143.4
	12/13/22	100 U	1.03	12,300	126.9	142	1.465	100 U	0.603	100 U	0.761	7,460	119.4
	4/20/23	50 U	0.52	11,900	122.7	124	1.279	50 U	0.302	50 U	0.381	7,560	121
	9/19/23	50 U	0.52	19,000	196	148	1.527	50 U	0.302	50 U	0.381	6,690	107
MW-46-72C	8/17/17	100 U	1.03	1,370	14.13	100 U	1.031	95.1 J	0.574	19,800	150.7	100 U	1.6
	9/26/17	100 U	1.03	3,160	32.59	100 U	1.031	95.2 J	0.574	17,900	136.2	100 U	1.6
	12/19/17	24.8	0.26	15,500	159.9	66.3	0.684	23.4	0.141	7,260	55.26	40.7	0.651
	3/20/18	50 U	0.52	11,600	119.6	46.8 J	0.483	43.1 J	0.26	9,660	73.53	50 U	0.8
	5/8/18	20.8 J	0.21	9,780	100.9	57.9	0.597	18.2 J	0.11	6,850	52.14	62.9	1.006
	8/28/18	24.2 J	0.25	14,200	146.5	100	1.031	25 U	0.151	8,810	67.06	276	4.416
	12/12/18	15.5 J	0.16	7,940	81.9	41.7	0.43	25 U	0.151	7,570	57.62	815	13.04
	3/5/19	100 U	1.03	8,630	89.01	100 U	1.031	100 U	0.603	19,300	146.9	220	3.52
	6/19/19	20.1 J	0.21	14,700	151.6	55.5	0.572	25 U	0.151	15,700	119.5	201	3.216
	9/18/19	25 U	0.26	4,720	48.68	30.5	0.315	25.2	0.152	12,800	97.43	108	1.728
	12/10/19	27.5	0.28	24,700	254.8	165	1.702	25.9	0.156	20,500	156	285	4.56
	3/20/20	50 U	0.52	14,500	149.6	54.6	0.563	50 U	0.302	23,400	178.1	87.1	1.394
	5/13/20	20.4 J	0.21	9,740	100.5	58.7	0.605	25 U	0.151	14,500	110.4	87.6	1.402
	8/12/20	200 U	2.06	12,200	125.8	200 U	2.063	200 U	1.206	48,200	366.9	200 U	3.2
	12/16/20	18.4 J	0.19	13,000	134.1	50.1	0.517	25 U	0.151	3,750	28.54	178	2.848
	3/24/21	20 U	0.21	9,140	94.28	33.7	0.348	20 U	0.121	4,570	34.78	199	3.184

Table 12

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
		Evaluation Criteria (b)											
		Molecular Weight											
		5		5		5		5		5		2	
		96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
MW-46-72C	6/23/21	18.6 J	0.19	12,900	133.1	39.3	0.405	25 U	0.151	2,460	18.72	820	13.12
	9/21/21	50 U	0.52	16,400 J	169.2	133 J	1.372	50 U	0.302	1,610 J	12.25	4,940 J	79.04
	12/16/21	98 J	1.01	59,800	616.8	412	4.25	100 U	0.603	4,870	37.07	2,680	42.88
	3/23/22	82 J	0.85	51,300	529.1	291	3.002	100 U	0.603	4,280	32.58	2,150	34.4
	6/15/22	100 U	1.03	22,200	229	119	1.227	100 U	0.603	1,570	11.95	1,310	20.96
	9/20/22	20 U	0.21	11,200	115.5	42	0.433	20 U	0.121	1,090	8.297	964	15.42
	12/13/22	20 U	0.21	13,500	139.2	41.1	0.424	20 U	0.121	3,180	24.2	2,360	37.76
	4/20/23	7.9	0.08	3,740	38.58	23	0.237	1 U	0.006	128	0.974	1,870	29.92
	9/19/23	12.4 J	0.13	6,470	66.74	29.7	0.306	20 U	0.121	2,860	21.77	956	15.3
MW-50-160D	12/14/21	7.5 J	0.08	5,010	51.68	27.5	0.284	10 U	0.06	117	0.891	1,300	20.8
	3/23/22	25 U	0.26	4,520	46.62	27.3	0.282	25 U	0.151	60.8	0.463	2,280	36.48
	6/15/22	10 U	0.1	2,600	26.82	15.5	0.16	10 U	0.06	49.5	0.377	785	12.56
	9/20/22	10 U	0.1	3,150	32.49	17.1	0.176	10 U	0.06	23	0.175	1,120	17.92
	12/14/22	10 U	0.1	2,910	30.02	10 U	0.103	10 U	0.06	10 U	0.076	1,040	16.64
	4/17/23	3.2 J	0.03	1,870	19.29	8.7	0.09	5 U	0.03	18.9	0.144	900	14.4
	9/19/23	10 U	0.1	2,930	30.22	6.4 J	0.066	10 U	0.06	10 U	0.076	1,010	16.16
WSP-MW-04B	1/8/16	1.3	0.01	345	3.559	55.8	0.576	1 U	0.006	110	0.837	46.7	0.747
	4/18/23	1.8	0.02	289	2.981	68.1	0.702	1 U	0.006	96.1	0.731	66.3	1.061
LBA-MW-23	9/16/13	5 U	0.05	8.3	0.086	5 U	0.052	5 U	0.03	5 U	0.038	5 U	0.08
	1/8/16	1 U	0.01	18.2	0.188	1 U	0.01	1.7	0.01	1.1	0.008	1.4	0.022
	4/19/23	1 U	0.01	1.9	0.02	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
LBA-MW-34N	12/9/13	1 U	0.01	1 U	0.01	1 U	0.01	1 U	0.006	1 U	0.008	1 U	0.016
	12/22/13	1 U	0.01	5.3	0.055	1 U	0.01	1 U	0.006	2.3	0.018	1 U	0.016
	1/7/14	1 U	0.01	2.3	0.024	1 U	0.01	1 U	0.006	1.6	0.012	1 U	0.016
	7/23/14	0.98 J	0.01	136	1.403	1.5	0.015	1 U	0.006	10.2	0.078	24.5	0.392
	4/19/23	6.7	0.07	766	7.901	12.1	0.125	1 U	0.006	18.1	0.138	463	7.408
LBA-MW-39	12/9/13	58.7	0.61	20.4	0.21	1 U	0.01	1 U	0.006	4.6	0.035	7.4	0.118
	4/15/14	10	0.1	3.9	0.04	1 U	0.01	1 U	0.006	1.3	0.01	1 U	0.016
	1/19/16	30.6	0.32	11.9	0.123	1 U	0.01	1 U	0.006	2.6	0.02	3.6	0.058

(a) All results are in micrograms per liter (ug/l); 1,1-Dichloroethene = 1,1-DCE; cis-1,2-Dichloroethene = cis-1,2-DCE; trans-1,2-Dichloroethene = trans-1,2-DCE; Tetrachloroethene = PCE; Trichloroethene = TCE; Vinyl Chloride = VC

(b) Concentrations in bold text exceed evaluation criteria. Evaluation criteria are the New York State Ambient Water Quality Standards or Guidance Values for Class GA groundwater provided in the New York State Department of Environmental Conservation Division of Water Technical and Operational Guidance Series (1.1.1), dated June 1998, and the April 2000 Addendum.

Table 13

Historical Groundwater Sampling Results - Barium and Cyanide (ISMP Wells Only)
Former Emerson Power Transmission
Ithaca, New York (a)

Well ID	Date	Barium	Cyanide
Evaluation Criteria (b):		1,000 ug/l	0.2 mg/l
MW-31B	11/4/15	43.4 B	--
	11/4/15 (b)	44.3 B	--
	1/6/16	56.6	--
	4/18/23	80.1 J	--
MW-44T	6/16/16	2,380 (c)	--
	6/16/2016	2,370 (c,d)	--
	12/19/16	2,850	--
	12/19/16	2,820 (e)	--
	4/17/23	1,860	0.019
WSP-MW-04B	1/8/16	--	0.60
	4/18/23	322	0.38
WSP-MW-06C	1/7/16	4,650	0.10
	10/16/19	--	0.04
	4/18/23	5,760	--
LBA-MW-08	9/10/13	760	8.0
	7/23/14	--	8.4
	10/17/19	--	7.4
	4/20/23	--	4.1
LBA-MW-13	9/11/13	150	1.3
	1/18/16	--	1.6
LBA-MW-18	9/13/13	3,700	0.57
	8/11/14	5,710	0.62
	4/19/23	2,520	--
LBA-MW-19	11/26/13	180	0.31
MW-19B	12/27/23	--	91.2
LBA-MW-26	9/14/13	8,600	0.053
	1/6/16	3,420	--
	1/6/16	2,980 (d)	--
	10/15/19	--	0.13
	4/19/23	1,680	--
LBA-MW-30	9/14/13	1,300	0.11
	1/7/16	1,350	--
	4/18/23	487	0.061

Table 13

**Historical Groundwater Sampling Results - Barium and Cyanide (ISMP Wells Only)
Former Emerson Power Transmission
Ithaca, New York (a)**

Well ID	Date	Barium	Cyanide
Evaluation Criteria (b):		1,000 ug/l	0.2 mg/l
LBA-MW-34N	12/22/13	6,150	--
	7/23/14	9,110	--
	1/5/16	8,110	--
	4/19/23	1,850	--
LBA-MW-35	1/16/14	4,730	0.60
	7/23/14	4,680	0.40
	1/5/16	2,120	--
	4/19/23	2,950	0.24
LBA-MW-39	1/15/14	936	0.18
	10/15/19	--	0.22
	4/19/23	228	0.18
LBA-MW-43N	1/15/14	699	2.60
	10/16/19	--	1.80
	4/20/23	--	0.53
LBA-MW-43S	1/15/14	6,230	0.38
	1/5/16	6,510	--
	10/16/19	--	0.23
	4/20/23	6,180	0.40

a/ -- = well not sampled for analyte; J, B = estimated concentration below reporting limit but above method detection limit; all results are total concentrations unless otherwise noted.

b/ Concentrations in bold text exceed evaluation criteria. Evaluation criteria are the New York State Ambient Water Quality Standards or Guidance Values for Class GA groundwater provided in the New York State Department of Environmental Conservation Division of Water Technical and Operational Guidance Series (1.1.1), dated June 1998, and the April 2000 Addendum.

c/ Elevated barium was believed to be due to high sample turbidity (i.e., > 100 NTUs). Data for confirmatory dissolved aliquots collected in December 2016 indicated dissolved barium is present in groundwater at elevated concentrations.

d/ Duplicate sample

e/ Dissolved concentration

Table 14

SPDES Permit Equivalent Discharge Results - Outfall 01A
Former Emerson Power Transmission Facility
Ithaca, New York

Parameter	Units (a)	Discharge Limit (b)	Outfall 01A (c)											
			01/31/23	02/24/23	03/29/23	04/21/23	05/25/23	06/12/23	07/24/23	08/16/23	09/28/23	10/23/23	11/16/23	12/19/23
Flow	GPD	Monitor	11,520 (d); 767 (e)	11,520 (d); 696 (e)	11,520 (d); 986 (e)	11,520 (d); 604 (e)	11,520 (d); 162 (e)	11,520 (d); 69 (e)	10,080 (d); 433 (e)	11,520 (d); 369 (e)	12,672 (d); 267 (e)	12,528 (d); 524 (e)	12,240 (d); 524 (e)	12,960 (d); 789 (e)
pH (range)	SU	6.5 - 8.5	8.0	7.9	7.9	7.6	7.6	7.7	7.7	7.8	7.8	8.1	8.3	8.2
Temperature	deg F	Monitor	59.2	59	57	70	65.8	69.4	73.0	75.9	71.8	70.2	65.3; 67.3	62.4
Tetrachloroethene	µg/l	1	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)
Trichloroethene	µg/l	10	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)
Sum of Dichlorobenzenes	µg/l	10	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)
Bromoform	µg/l	10	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)
Chlorobenzene	µg/l	5	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)
Chlorodibromomethane	µg/l	10	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)
Chloroform	µg/l	10	ND (0.50)	0.54 J	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Free Cyanide	µg/l	Monitor (f)	ND (3)	ND (3)	ND (3)	ND (3)	27	ND (3)	ND (3)	ND (3) (g)	ND (3)	4 J	ND (3)	ND (3)
Dichlorobromomethane	µg/l	10	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)
1,1-Dichloroethane	µg/l	10	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)
1,1-Dichloroethene	µg/l	10	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)
Methylene chloride	µg/l	10	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)
1,1,2,2-Tetrachloroethane	µg/l	10	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)
Toluene	µg/l	50	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)
trans-1,2-Dichloroethene	µg/l	10	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)
cis-1,2-Dichloroethene	µg/l	10	2.7	ND (0.51)	3.8	ND (0.51)	1.3	ND (0.51)	ND (0.51)	4.8	3.4	3.4	3.5	2.4
1,1,1-Trichloroethene	µg/l	10	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)
Xylenes, total	µg/l	10	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)
Vinyl chloride	µg/l	10	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)
Benzene	µg/l	1	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)

Bold value is a detected concentration or measurement.

- a/ GPD = gallons per day; SU = standard units; deg F = degrees Fahrenheit; µg/l= micrograms per liter.
- b/ Discharge limit specified in Emerson Electric Co. Project Site Remediation Wastewater Discharge SPDES Permit Equivalent, dated August 1, 2022, DER Site ID# 7-55-010.
- c/ ND = not detected above method detection limit provided in parentheses; J = estimated concentration.
- d/ Estimated maximum flow rate during a batch discharge of the groundwater treatment system.
- Because the discharge is not continuous, the actual maximum daily flow rate would be less than this value.
- e/ Estimated average flow based on totalizer readings.
- f/ Per Footnote 1 of SPDES Permit Equivalent, an interim limit of Monitor Only shall apply for free cyanide from August 1, 2022, until July 31, 2025. The water quality-based effluent limit of 5.2 mg/l Monthly Average and 22 mg/l Daily Maximum for free cyanide will become effective on August 1, 2025.
- g/ Sample for free cyanide was collected on August 18, 2023.

Table 15

SPDES Permit Equivalent Discharge Results - Outfall 001
Former Emerson Power Transmission Facility
Ithaca, New York

Parameter	Units (a)	Discharge Limit (b)	Outfall 001 (c)												
			01/31/23	02/24/23	03/29/23	04/21/23	05/25/23	06/12/23	07/24/23	08/16/23	09/28/23	10/23/23	11/16/23	11/28/23	12/19/23
Flow (d)	GPD	Monitor	24,099	29,857	43,666	43,666	43,666	24,099	24,099	43,666	14,772	29,857	5,472	NS	24,099
pH (range)	SU	6.5 - 8.5	7.8	8.1	8.0	7.9	7.8	8.0	7.7	7.9	7.9	8.2	8.6; 8.7	8.5	8.3
Total Barium	µg/l	Monitor	NS	NS	92.2 J	NS	NS	94.9 J	NS	NS	124 J	NS	NS	NS	75.7 J
Total Lead	µg/l	7.4	6.2	2.5 J	3.7	ND (2.4)	5.0	6.2	ND (2.4)	2.6 J	ND (2.4)	ND (2.4)	3.4	NS	ND (2.4)
Mercury	ng/l	Monitor	3.1	NS	3.7 J	NS	NS	3.1 J	NS	NS	2.0 J	NS	NS	NS	0.20 J
Tetrachloroethene	µg/l	1	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	NS	ND (0.41)
Trichloroethene	µg/l	10	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	NS	ND (0.43)
Free Cyanide	µg/l	Monitor (e)	NS	NS	4	NS	NS	4	NS	NS	ND (3)	NS	NS	NS	ND (3)

Bold value is a detected concentration or measurement.

- a/ GPD = gallons per day; SU = standard units; µg/l= micrograms per liter; ng/l = nanograms per liter.
- b/ Discharge limit specified in Emerson Electric Co. Project Site Remediation Wastewater Discharge SPDES Permit Equivalent, dated August 1, 2022, DER Site ID# 7-55-010.
- c/ ND = not detected above method detection limit provided in parentheses; J = estimated concentration; NS = not sampled.
(If a duplicate sample was collected, the higher of the two concentrations is reported.)
- = exceeds discharge limit
- d/ Estimated based on field measurement and V-notch (triangular) weir calculator (<https://www.lmnoeng.com/Weirs/vweir.php>).
- e/ Per Footnote 1 of SPDES Permit Equivalent, an interim limit of Monitor Only shall apply for free cyanide from August 1, 2022, until July 31, 2025. The water quality-based effluent limit of 5.2 µg/l Monthly Average and 22 µg/l Daily Maximum for free cyanide will become effective on August 1, 2025.

Table 16

**SPDES Permit Equivalent Discharge Results - Outfall 009
Former Emerson Power Transmission Facility
Ithaca, New York**

Parameter	Units (a)	Discharge Limit (b)	Outfall 009 (c)			
			3/29/2023	6/12/2023	10/23/2023	12/19/2023
Free Cyanide	µg/l	Monitor (d)	ND (3)	ND (3)	ND (3) (e)	ND (3)

a/ µg/l= micrograms per liter.

b/ Discharge limit specified in Emerson Electric Co. Project Site Remediation Wastewater Discharge SPDES Permit Equivalent, dated August 1, 2022, DER Site ID# 7-55-010.

c/ ND = not detected above method detection limit provided in parentheses.

d/ Per Footnote 1 of SPDES Permit Equivalent, an interim limit of Monitor Only shall apply from August 1, 2022, until July 31, 2025. The water quality-based effluent limit of 5.2 µg/l Monthly Average and 22 µg/l Daily Maximum for Cyanide will become

e/ Result is considered estimated because sample was analyzed outside of hold time requirements due to instrument failure.

APPENDIX

A ENVIRONMENTAL EASEMENT



**ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36
OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW**

THIS INDENTURE made this 11th day of October, 2022, between Owner, Emersub 15 LLC, having an office at c/o Emerson Electric Co., 800 West Florissant Avenue, St. Louis, County of St. Louis, State of Missouri (the "Grantor"), and The People of the State of New York (the "Grantee"), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 620-640 Aurora Street South in the Town of Ithaca, County of Tompkins and State of New York, known and designated on the tax map of the County Clerk of Tompkins as tax map parcel number: Section 106 Block 1 Lot 8.2, being a portion of the property conveyed to Grantor by deed dated December 2, 2014 and recorded in the Tompkins County Clerk's Office in Instrument No. 2014-14695.

WHEREAS, Grantor, is the owner of real property located at the address of V/L South Aurora Street in the Town of Ithaca, County of Tompkins and State of New York, known and designated on the tax map of the County Clerk of Tompkins as tax map parcel number: Section 106 Block 1 Lot 8.1, being a portion of the property conveyed to Grantor by deed dated December 2, 2014 and recorded in the Tompkins County Clerk's Office in Instrument No. 2014-14695.

WHEREAS, Grantor, is the owner of real property located at the address of 810 Danbury Road in the City of Ithaca, County of Tompkins and State of New York, known and designated on

the tax map of the County Clerk of Tompkins as tax map parcel number: Section 40 Block 3 Lot 3, being a portion of the property conveyed to Grantor by deed dated December 2, 2014 and recorded in the Tompkins County Clerk's Office in Instrument No. 2014-14695.

WHEREAS, Grantor, is the owner of real property located at the address of Portion of Stone Quarry Road in the City of Ithaca, County of Tompkins and State of New York, known and designated on the tax map of the County Clerk of Tompkins as tax map parcel number: Section 40 Block 3 Lot 14.2, being a portion of the property conveyed to Grantor by deed dated December 2, 2014 and recorded in the Tompkins County Clerk's Office in Instrument No. 2014-14695.

WHEREAS, the property subject to this Environmental Easement (the "Controlled Property") comprises approximately 61.54 +/- acres, and is hereinafter more fully described in the Land Title Survey dated August 5, 2021 and last revised on August 11, 2022 prepared by Fagan Engineers & Land Surveyors PC (Mark E. Flora, License No. 051097), which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Order on Consent Index Number: A7-0125-87-09, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. **Purposes.** Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. **Institutional and Engineering Controls.** The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

- A. (1) A 52.4-acre +/- portion of the Controlled Property, as described in Schedule B, may be used for:

Restricted Residential as described in 6 NYCRR Part 375-1.8(g)(2)(ii),

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv);

(2) A 7.16-acre +/- portion of the Controlled Property, as described in Schedule C, may be used for:

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv);

(3) A 2.00-acre +/- portion of the Controlled Property, as described in Schedule D, may be used for:

Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv);

(4) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(5) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(6) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Tompkins County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(7) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(8) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(9) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(10) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(11) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(12) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The 52.4-acre +/- portion of the Controlled Property described in Schedule B shall not be used for Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The 7.16-acre +/- portion of the Controlled Property described in Schedule C shall not be used for Residential or Restricted Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i) and (ii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

D. The 2.00-acre +/- portion of the Controlled Property described in Schedule D shall not be used for Residential, Restricted Residential or Commercial purposes as defined in 6NYCRR 375-1.8(g)(i), (ii) and (iii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

E. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

F. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

G. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation Law.

H. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

I. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her 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

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to: Site Number: 755010
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to: Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property

Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

11. Consistency with the SMP. To the extent there is any conflict or inconsistency between the terms of this Environmental Easement and the SMP, regarding matters specifically addressed by the SMP, the terms of the SMP will control.

Remainder of Page Intentionally Left Blank

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

Emersub 15 LLC:

By: Spk L. L.

Print Name: Stephen L. Clarke

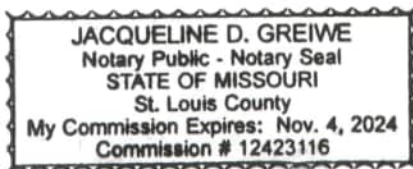
Title: President Date: 9/20/2022

Grantor's Acknowledgment

Missouri
STATE OF ~~NEW YORK~~)
COUNTY OF St. Louis) ss:
)

On the 20th day of September in the year 2022, before me, the undersigned, personally appeared Stephen L. Clarke, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Jacqueline D. Greive
Notary Public - State of New York
Missouri



RECEIVED AT BUREAU
MAY 19 1964
STATE OF MISSISSIPPI
BY JAMES H. HARRIS
JAMES H. HARRIS
JAMES H. HARRIS

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting by and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: Andrew O. Guglielmi
Andrew O. Guglielmi, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 11th day of October, in the year 2022 before me, the undersigned, personally appeared Andrew O. Guglielmi, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Jennifer Andaloro
Notary Public - State of New York

JENNIFER ANDALORO
Notary Public, State of New York
No. 02AN6098246
Qualified in Albany County
Commission Expires January 14, 2024

SCHEDULE "A" PROPERTY DESCRIPTION

All that tract or parcel of land, situate in the City and Town of Ithaca, County of Tompkins and State of New York, and being more particularly described as follows:

Beginning at the point of commencement at a point of the westerly line of lands of Frederick Beck, now or formerly, recorded in Tompkins County Clerk's Office in Book 840 and Page 334 of Deeds, said point being S 25°44'04" W a distance of 22.12' from the northwest corner of said lands;

THENCE following a centerline of a stream the following courses and distances.

S 75°53'05" W, 14.63 feet.
S 50°27'19" W, 37.02 feet.
S 58°52'40" W, 35.64 feet .
S 55°05'39" W, 31.38 feet.
S 61°42'00" W, 33.54 feet.
S 61°29'57" W, 84.94 feet.
S 56°30'06" W, 37.21 feet.
S 53°39'00" W, 48.73 feet.
S 55°58'58" W, 68.03 feet.
S 56°27'17" W, 48.08 feet.
S 59°36'59" W, 111.35 feet.
S 40°36'49" W, 24.76 feet.
S 72°37'22" W, 33.42 feet.
S 64°26'19" W, 33.35 feet.
S 69°13'58" W, 43.85 feet.
S 80°06'26" W, 43.31 feet.
N 80°11'22" W, 16.75 feet.
N 80°14'46" W, 52.83 feet.
N 57°58'51" W, 42.44 feet.
N 42°52'42" W, 41.41 feet.
N 36°34'25" W, 31.01 feet.
N 48°20'45" W, 16.75 feet.
N 76°30'43" W, 36.62 feet.
N 36°32'08" W, 33.22 feet.
N 05°36'15" W, 39.19 feet.
N 17°34'38" W, 42.13 feet.
N 12°26'27" W, 26.18 feet.
N 67°48'26" W, 27.63 feet.
N 69°06'25" W, 37.80 feet.
N 55°02'28" W, 33.46 feet.
N 49°31'27" W, 19.92 feet.
N 44°16'01" W, 25.01 feet.

THENCE along a curve to the right with a length of 21.31', a radius of 5102.88', a chord bearing of s 43°35'41.94" W and a chord length of 21.31' to a point;

THENCE along a curve to the right with a length of 471.36', a radius of 3547.44', a chord

bearing of S 47°31'16.01" W and a chord length of 471.01' to a point;

THENCE S 51°35'30" W, 436.97' to a point;

THENCE S 51°30'23" W, 306.88' to a point;

THENCE along a curve to the right with a length of 300.22', a radius of 2064.25', a chord bearing of S 55°40'44.41" W and a chord length of 299.96' to a point;

THENCE S 59°15'37" W, 173.94' to a point;

THENCE along the northern boundary of Stone Quarry Road the following courses and distances;

N 47°12'29" E, 60.51'

N 29°26'06" E, 52.69'

N 24°48'25" E, 43.66'

THENCE N 59°15'37" E, 56.57' to a point;

THENCE along a curve to the left with a length of 267.50', a radius of 1766.95', a chord bearing of N 54°55'24.27" E and a chord length of 267.24' to a point;

THENCE N 51°30'47" E, 743.49' to a concrete monument found;

THENCE along a curve to the left with a length of 462.53', a radius of 3261.76', a chord bearing of N 47°26'35.50" E and a chord length of 462.14' to a point;

THENCE along a curve to the left with a length of 38.95', a radius of 5635.72', a chord bearing of N 43°23'29.53" E and a chord length of 38.95' to a point;

THENCE on a curve to the left having a radius of 5635.72 feet and a length of 592.67 feet and a chord of N 40°10'19.18" E, 592.40 feet to a monument found.

THENCE N 37°06'36" E, 641.31' to a monument found;

THENCE N19°17'24" W, 427.60' to an iron pin found;

THENCE N 28°25'19" E, along the southeasterly road boundary of West Spencer Street a distance of 542.73' to a point;

THENCE S 60°31'42" E, a distance of 123.00' to an iron pin found;

THENCE N.29°28'18"E., a distance of 50.00 feet to an existing iron pipe;

THENCE N.60°31'42"W., a distance of 1.30 feet to a point;

THENCE N.29°28'18"E., a distance of 60.00 feet to an existing iron pipe;

THENCE N.20°16'18"E., a distance of 22.00 feet to a point;

THENCE S.58°01'42"E., a distance of 136.72 feet to its intersection with the westerly road boundary of South Cayuga Street;

THENCE S.01°44'18"E., along said westerly road boundary of South Cayuga Street, a distance of 118.54 feet to an existing iron pipe;

THENCE S.37°19'45"W., a distance of 318.10 feet to an existing iron pipe;

THENCE S.52°40'15"E., a distance of 131.48 feet to its intersection of said northeasterly line of said former Lehigh Valley Railroad;

THENCE N.37°10'20"E., along said northeasterly line of said former Lehigh Valley Railroad, a distance of 42.66 feet to an existing iron pipe at a point of curvature;

THENCE northeasterly, along a curve to the right, having a radius of 2187.09 feet an arc distance of 157.02 and a chord bearing of N 39°13'44" E, 156.99 feet to a point;

THENCE northeasterly, along a curve to the right, having a radius of 2187.09 feet an arc distance of 25.06 feet and a chord bearing of N 41°37'15.49" E, 25.06 feet to a point;

THENCE N.01°12'09"W., a distance of 279.41 feet to a point;

THENCE N.59°22'08"E., a distance of 142.00 feet to an existing iron pipe;

THENCE N.40°16'41"W., a distance of 47.38 feet to a point of curvature along the southeasterly road boundary of South Hill Terrace;

THENCE northeasterly, along a curve to the left, having a radius of 257.27 feet an arc distance of 84.00 feet and a chord bearing and distance of N35°37'08.35"E., 83.63 feet to a point;

THENCE S.68°10'44"E., a distance of 89.62 feet to a point;

THENCE N.36°10'17"E., a distance of 50.00 feet to a point;

THENCE N.67°17'10"W., a distance of 100.00 feet to its intersection with said southeasterly line of South Hill Terrace;

THENCE N.22°53'08"E., along said southeasterly road boundary of South Hill Terrace, a distance of 50.00 feet to an iron pipe;

THENCE S.67°06'52"E., a distance of 128.38 feet to a point;

THENCE N.01°05'38"E., a distance of 106.32 feet to a point;

THENCE N.88°14'20"E., a distance of 23.66 feet to a point;

THENCE N.22°35'04"E., a distance of 64.09 feet to a point;

THENCE N.87°40'07"E., a distance of 160.94 feet to its intersection with the westerly road boundary of Turner Place;

THENCE S.02°19'41"E., along said easterly road boundary of Turner Place, a distance of 214.20 feet to its intersection with said northeasterly line of said former Lehigh Valley Railroad;

THENCE N.50°10'21"E., along said northeasterly line of said former Lehigh Valley Railroad, a distance of 305.02 feet to an existing iron pipe;

THENCE N.82°08'58"E., a distance of 7.60 feet to an existing iron pipe;

THENCE N.00°00'04"W., a distance of 7.00 feet to an existing iron pipe;

THENCE N.53°53'26"E., continuing along said northeasterly line of said former Lehigh Valley Railroad, a distance of 13.44 feet to a point of curvature;

THENCE northeasterly, along a curve to the right, having a radius of 1825.61 feet an arc distance of 167.10 and a chord bearing and distance of N52°48'04.85"E., 167.04 feet to an existing railroad monument;

THENCE northeasterly, along a curve to the right, having a radius of 14500.77 feet an arc distance of 139.18 feet and a chord bearing and distance of N.58°10'52.85"E., 139.18 feet to a point of compound curvature;

THENCE northeasterly, along a curve to the right, having a radius of 411.32 feet an arc distance of 46.08' and a chord bearing and distance of N.61°39'26.85"E., 46.06' to a concrete monument found on the westerly road boundary of South Aurora Street (New York State Route 96B);

THENCE S.02°51'33"E., along said westerly road boundary of South Aurora Street, a distance of 72.42 feet to an angle point;

THENCE S.02°02'26"E., continuing along said westerly road boundary of South Aurora Street, a distance of 204.12 feet to a point of curvature;

THENCE southwesterly, along a curve to the right, having a radius of 370.00 feet an arc distance of 177.34 feet and a chord bearing and distance of S.11°41'25.81"W., 175.65 feet;

THENCE S.25°25'18"W., continuing along said westerly road boundary of South Aurora Street, a distance of 295.74 feet to an existing iron pipe;

THENCE N.63°50'28"W., a distance of 100.00 feet to a point;

THENCE S.26°09'32"W., a distance of 413.00 feet to a point;

THENCE S.74°58'28"E., a distance of 101.00 feet to its intersection said westerly road boundary of South Aurora Street;

THENCE S.26°09'32"W., along said westerly road boundary of South Aurora Street, a distance of 28.00 feet to a point;

THENCE N.63°54'22"W., a distance of 32.40 feet to an existing iron pipe,

THENCE N.85°05'42"W., a distance of 72.17 feet to an existing iron pipe;

THENCE S.26°54'14"W., a distance of 161.60 feet to an existing iron pipe;

THENCE S.03°30'29"E., a distance of 35.30 feet to an existing iron pipe;

THENCE S.84°53'19"E., a distance of 89.00 feet to its intersection with said westerly road boundary of South Aurora Street;

THENCE S.26°42'55"W., along said westerly road boundary of South Aurora Street, a distance of 48.00 feet to an angle point;

THENCE S.31°44'06"W., continuing along said westerly road boundary of South Aurora Street, a distance of 122.19 feet to the northeasterly corner of New York State Appropriation of State Highway 5043, Map No. 6, Parcel No. 6; thence westerly and southwesterly along said New York State Appropriation of State Highway 5043, Map No. 6, Parcel No. 6 the following courses and distances;

N.63°58'34"W., a distance of 17.00 feet to a point;

S.31°44'04"W., a distance of 100.50 to an angle point;

S.26°01'26"W., a distance of 600.13 feet to an angle point;

S.25°46'26"W., a distance of 483.13 feet to an existing granite monument;

THENCE N.64°11'56"W., a distance of 173.40 feet to a point;

THENCE S 25°44'04", 22.12 ' to the POINT OF BEGINNING and containing 61.56 acres of land.

SCHEDULE "B" – RESTRICTED RESIDENTIAL USE EASEMENT AREA

All that tract or parcel of land, situate in the City and Town of Ithaca, County of Tompkins, and State of New York, and being more particularly described as follows:

Beginning at the Point of Beginning (P.O.B), at the northerly most point of the parcel, along the western Right of Way line of NYS Route 96B (also known as South Aurora Street), said point being 30.16 feet south of the southern Right of Way line of Hillview Place;

THENCE following along the western Right of Way line of NYS Route 96B - South Aurora Street the following courses and distances.

S 2°51'33" E, 72.42';
S 2°02'26" E, 204.12';

Along a curve to the right with a length of 177.34', a radius of 370.00', a chord direction of S 11°41'25.81" W and a chord length of 175.65';

S 25°25'18" W, 295.74' to an iron pin found;

THENCE N 63°50'28" W, 100.00' to a point on the north-westerly corner of Tax Map Parcel 106-1-10;

THENCE S 26°09'32" W, 413.00' to a point on the south-westerly corner of Tax Map Parcel 106-1-15;

THENCE S 74°58'28" E, 101.00' to a point on the western Right of Way line of South Aurora Street and the south-easterly corner of Tax Map Parcel 106-1-15;

THENCE S 26°09'32" W, 28.00' along the western Right of Way line of South Aurora Street to a point on the north-easterly corner of Tax Map Parcel 106-1-16;

THENCE N 63°54'22" W, 32.40' to an iron pin found on the northern line of Tax Map Parcel 106-1-16; THENCE N 85°05'42" W, 72.17' to an iron pin found on the north-westerly corner of Tax Map Parcel 106-1-16;

THENCE S 26°54'14" W, 161.60' to an iron pin found on the western line of Tax Map Parcel 106-1-17;

THENCE S 3°30'29" E, 35.30' to an iron pin found on the south-western corner of Tax Map Parcel 106-1-17;

THENCE S 84°53'19" E, 89.00' to a point on the western Right of Way line of South Aurora Street and the south-eastern corner of Tax Map Parcel 106-1-17;

THENCE following along the western Right of Way line of NYS Route 96B – South Aurora Street the following courses and distances.

S 26°42'55 W, 48.00';
S 31°44'06" W, 122.19';

N 63°58'34" W, 17.00';
S 31°44'04" W, 100.50';
S 26°01'26" W, 600.13';
S 25°46'26" W, 483.13' to a granite monument found on the northern line of Tax Map Parcel 40-3-5;

THENCE N 64°11'56" W, 173.40' to a point on the northwest corner of Tax Map Parcel 40-3-5;

THENCE S 25°44'04" W, 22.12' to a point in the centerline of a stream on the western line of Tax Map Parcel 40-3-5;

THENCE along the centerline of the stream the following courses and distances.

S 75°53'05" W, 14.63' S 50°27'19" W, 37.02' S 58°52'40" W, 35.64' S 55°05'39" W, 31.38' S 61°42'00" W, 33.54' S 61°29'57" W, 84.94' S 56°30'06" W, 37.21' S 53°39'00" W, 48.73' S 55°58'58" W, 68.03' S 56°27'17" W, 48.08' S 59°36'59" W, 111.35' S 40°36'49" W, 24.76' S 72°37'22" W, 33.42' S 64°26'19" W, 33.35' S 69°13'58" W, 43.85' S 80°06'26" W, 43.31' N 80°11'22" W, 16.75'

N 80°14'46" W, 52.83' to a point in the centerline of the stream and on the northern line of Tax Map Parcel 40-3-3;

THENCE N 40°45'51" E, 40.21' to a point;

THENCE N 40°45'51" E, 38.05' to a point;

THENCE N 32°10'19" E, 548.74' to a point;

THENCE N 33°03'51" E, 612.29' to a point;

THENCE N 37°58'00" E, 110.15' to a point;

THENCE N 62°51'24" W, 273.76' to a point;

THENCE S 37°33'17" W, 173.78' to a point;

THENCE S 33°28'44" W, 458.06' to a point;

THENCE S 43°21'04" W, 610.49' to a point in the centerline of a stream and the northern line of Tax Map Parcel 40-3-3;

THENCE N 44°16'01" W, 25.01' along the centerline of a stream to a point;

THENCE along a curve to the right with a length of 21.31', a radius of 5102.88', a chord bearing of S 43°35'41.94" W and a chord length of 21.31' to a point;

THENCE along a curve to the right with a length of 471.36', a radius of 3547.44', a chord bearing of S 47°31'16.01" W and a chord length of 471.01' to a point;

THENCE S 51°35'30" W, 436.97' to a point;

THENCE S 51°30'23" W, 306.88' to a point;

THENCE along a curve to the right with a length of 300.22', a radius of 2064.25', a chord bearing of S 55°40'44.41" W and a chord length of 299.96' to a point;

THENCE S 59°15'37" W, 173.94' to a point;

THENCE along the northern boundary of Stone Quarry Road the following courses and distances;

N 47°12'29" E, 60.51'

N 29°26'06" E, 52.69'

N 24°48'25" E, 43.66'

THENCE N 59°15'37" E, 56.57' to a point;

THENCE along a curve to the left with a length of 267.50', a radius of 1766.95', a chord bearing of N 54°55'24.27" E and a chord length of 267.24' to a point;

THENCE N 51°30'47" E, 743.49' to a concrete monument found;

THENCE along a curve to the left with a length of 462.53', a radius of 3261.76', a chord bearing of N 47°26'35.50" E and a chord length of 462.14' to a point;

THENCE along a curve to the left with a length of 38.95', a radius of 5635.72', a chord bearing of N 43°23'29.53" E and a chord length of 38.95' to a point;

THENCE along a curve to the left with a length of 592.67', a radius of 5635.72' a chord bearing of N 40°10'19.18" E and a chord length of 592.40' to a concrete monument found on the southeastern line of Tax map Parcel 116-2-7;

THENCE N 37°06'36" E, 641.31' to an iron pin found on the eastern corner of Tax Map Parcel 105-8-1;

THENCE N 19°17'24" W, 427.60' to an iron pin found on the northern corner of Tax Map Parcel 105-8-1 and the eastern Right of Way line of West Spencer Street;

THENCE N 28°25'19" E, 542.73' along the eastern Right of Way line of West Spencer Street to a point; THENCE S 60°31'42" E, 123.00' to an iron pin found on the southern corner of Tax Map Parcel 93-7-7;

THENCE N 29°28'18" E, 50.00' to an iron pipe found;

THENCE N 60°31'42" W, 1.30' to a point;

THENCE N 29°28'18" E, 60.00' to an iron pipe found on the north-easterly corner of Tax Map Parcel 93-7-7;

THENCE N 20°16'18" E, 22.00' to a point on the south-western corner of Tax Map Parcel 106-1-2;

THENCE S 58°01'42" E, 136.72' to a point on the south-eastern corner of Tax Map Parcel 106-

1-2 and the western Right of Way line of South Cayuga Street;

THENCE S 1°44'18" E, 118.54' to an iron pin found on the western Right of Way line of South Cayuga Street;

THENCE S 37°19'45" W, 318.10' to an iron pin found on the western corner of lands now or formerly owned by New York State Electric & Gas and containing an electric power substation;

THENCE S 52°40'15" E, 131.48' to an iron pin found on the western corner of lands now or formerly owned by New York State Electric & Gas and containing an electric power substation;

THENCE N 37°10'20" E, 42.66' to a point;

THENCE along a curve to the right with a length of 157.02', a radius of 2187.09', a chord bearing of N 39°13'44" E and a chord length of 156.99' to a point;

THENCE continuing on a curve to the right with a length of 25.06', a radius of 2187.09', a chord bearing of N 41°37'15.49" E and a chord length of 25.06' to a point;

THENCE N 1°12'09" W, 279.41' to an iron pin found on the southern corner of Tax Map Parcel 106-1-7;

THENCE N 59°22'08" E, 142.00' to an iron pin found on the eastern corner of Tax Map Parcel 106-1-7;

THENCE N 40°16'41" W, 47.38' to an iron pin found on the northern corner of Tax Map Parcel 106-1-7 and the eastern Right of Way of South Hill Terrace;

THENCE along a curve to the left, and the eastern Right of Way line of South Hill Terrace, a length of 84.00', a radius of 257.27', a chord bearing of N 35°37'08.35" E and a chord length of 83.63' to a point on the western corner of Tax Map Parcel 92-9-10;

THENCE S 68°10'44" E, 89.62' to a point on the southern corner of Tax Map Parcel 92-9-10;

THENCE N 36°10'17" E, 50.00' to a point on the eastern corner of Tax Map Parcel 92-9-10;

THENCE N 67°17'10" W, 100.00' to a point on the northern corner of Tax Map Parcel 92-9-10 and the eastern Right of Way line of South Hill Terrace;

THENCE N 22°53'08" E, 50.00' along the eastern Right of Way line of South Hill Terrace to an iron pin found on the western corner of Tax Map Parcel 92-9-11;

THENCE S 67°06'52" E, 128.38' to a point on the southern corner of Tax Map Parcel 92-9-11;

THENCE N 1°05'38" E, 106.32' to a point on an eastern jog corner of Tax Map Parcel 92-9-13;

THENCE N 88°14'20" E, 23.66' to a point on an eastern jog corner of Tax Map Parcel 92-9-13;

THENCE N 22°35'04" E, 64.09' to a point on the eastern line of Tax Map Parcel 92-9-13 and the south-western corner of Tax Map Parcel 92-9-5;

THENCE N 87°40'07" E, 160.94' to a point on the south-east corner of Tax Map Parcel 92-9-5 and the western Right of Way line of Turner Place;

THENCE S 2°19'41" E, 214.20' along the western Right of Way line of Turner Place to a point;

THENCE N 50°10'21" E, 305.02' to an iron pipe found on the north-east Right of Way corner of Fountain Street and the southern line of Tax Map Parcel 92-8-14.2;

THENCE N 82°08'58" E, 7.60' to an iron pipe found on the south-east corner of Tax Map Parcel 92-8-14.2;

THENCE N 00°00'04" W, 7.00' to a pinch pipe found on the south-east corner of Tax Map Parcel 92-8-5.2;

THENCE N 53°53'26" E, 13.44' to a point on the southern line of Tax Map Parcel 92-8-5.2;

THENCE along a series of curves to the right with the following curve data;

A length of 167.10', a radius of 1825.61', a chord bearing of N 52°48'04.85" E and a chord length of 167.04' to a monument found on the southern line of Tax Map Parcel 92-8-7.2;

A length of 139.18', a radius of 14500.77', a chord bearing of N 58°10'52.85" E and a chord length of 139.18' to a point;

A length of 46.08', a radius of 411.32', a chord bearing of N 61°39'26.85" E and a chord length of 46.06' to the Point of Beginning and containing 52.4 acres of land.

SCHEDULE "C" COMMERCIAL USE EASEMENT AREA

All that tract or parcel of land, situate in the City and Town of Ithaca, County of Tompkins, and State of New York, and being more particularly described as follows:

Beginning at the Point of Beginning (P.O.B), at the northerly most point of the parcel;

THENCE S 62°51'24" E, 273.76' to a point;

THENCE S 37°58'00" W, 110.15' to a point;

THENCE S 33°03'51" W, 612.29' to a point;

THENCE S 32°10'19" W, 548.74' to a point;

THENCE S 40°45'51" W, 38.05' to a point;

THENCE along a series of curves to the right with the following curve data;

A length of 207.49', a radius of 184.47', a chord bearing of N 20°07'23.19" W and a chord length of 196.72';

A length of 91.20', a radius of 1044.76', a chord bearing of N 14°36'5.08" E and a chord length of 91.17';

A length of 108.30', a radius of 1491.35', a chord bearing of N 19°10'56.87" E and a chord length of 108.27' to a point;

THENCE N 21°15'46" E, 346.73' to a point;

THENCE N 33°28'44" E, 458.06' to a point;

THENCE N 37°33'17" E, 173.78' to the Point of Beginning and containing 7.16 acres of land.

SCHEDULE "D" INDUSTRIAL USE EASEMENT AREA

All that tract or parcel of land, situate in the City and Town of Ithaca, County of Tompkins, and State of New York, and being more particularly described as follows:

Beginning at the Point of Beginning (P.O.B), at the northerly most point of the parcel;

THENCE S 21°15'46" W, 346.73' to a point,

THENCE along a series of curves to the left with the following curve data;

A length of 108.30', a radius of 1491.35', a chord bearing of S 19°10'56.87" W and a chord length of 108.27';

A length of 91.20', a radius of 1044.76', a chord bearing of S 14°36'5.08" W and a chord length of 91.17';

A length of 207.49', a radius of 184.47', a chord bearing of S 20°07'23.19" E and a chord length of 196.72' to a point;

THENCE S 40°45'51" W, 40.21' to a point in the centerline of a stream;

THENCE along the centerline of the stream the following courses and distances;

N 57°58'51" W, 42.44';
N 42°52'42" W, 41.41';
N 36°34'25" W, 31.01';
N 48°20'45" W, 16.75';
N 76°30'43" W, 36.62';
N 36°32'08" W, 33.22';
N 05°36'15" W, 39.19';
N 17°34'38" W, 42.13';
N 12°26'27" W, 26.18';
N 67°48'26" W, 27.63';
N 69°06'25" W, 37.80';
N 55°02'28" W, 33.46';
N 49°31'27" W, 19.92' to a point;

THENCE N 43°21'04" E, 610.49' to the Point of Beginning and containing 2.00 acres of land.



Recording Office Time Stamp

**Real Estate Transfer Tax Return
For Public Utility Companies'
and Governmental Agencies'
Easements and Licenses**

This form may only be used by public utility companies regulated by the Public Service Commission and governmental agencies for the recording of easements and licenses where the consideration for the grant of such easement or license is \$500.00 or less.

Name of grantee (public utility company or governmental agency)
The People of the State of New York

Federal employer identification number
(if applicable)

Address of grantee
625 Broadway, Albany, New York 12233-1500

Name and telephone number of person to contact

Name(s) of Grantor Of Easement or License	Address of Property	Consideration Given For Easement or License
1. Emersub 15 LLC	620-40 Aurora Street S., Ithaca, NY 14850	\$0.00
2. Emersub 15 LLC	V/L Aurora Street S. Ithaca, NY 14850	\$0.00
3. Emersub 15 LLC	810 Danby Road, Ithaca, NY 14850	\$0.00
4. Emersub 15 LLC	Portion of Stone Quarry Road, NY 14850	\$0.00
5.		
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14.		
15.		

If more than fifteen conveyances are to be recorded, attach a schedule of such other conveyances.

Signature of Grantee

I certify that the grantee is a public utility regulated by the Public Service Commission or is a governmental agency and the grantee of the easements and/or licenses above; that it is true to the best knowledge of the grantee that the granting of each such easement and/or license is exempt from Real Estate Transfer Tax imposed by Article 31 of the Tax Law by reason that each such conveyance is for a consideration of five hundred dollars or less and/or the conveyance is being made to a governmental agency.

The People of the State of New York

Name of grantee

Signature of partner, officer of corporation, governmental official, etc.

NYSD&C Attorney

Title



Recording Office Time Stamp

**Real Estate Transfer Tax Return
For Public Utility Companies'
and Governmental Agencies'
Easements and Licenses**

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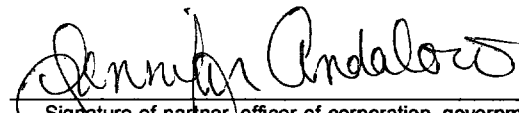
If more than fifteen conveyances are to be recorded, attach a schedule of such other conveyances.

Signature of Grantee

I certify that the grantee is a public utility regulated by the Public Service Commission or is a governmental agency and the grantee of the easements and/or licenses above; that it is true to the best knowledge of the grantee that the granting of each such easement and/or license is exempt from Real Estate Transfer Tax imposed by Article 31 of the Tax Law by reason that each such conveyance is for a consideration of five hundred dollars or less and/or the conveyance is being made to a governmental agency.

The People of the State of New York

Name of grantee


Signature of partner, officer of corporation, governmental official, etc.
NYSDEC Attorney
Title

APPENDIX

B

SITE

RESPONSIBILITIES



Site Management Plan: Responsibilities of OU-2 Owner and Remedial Party

The former Emerson Power Transmission (“EPT”) facility contains two Operable Units (“OU-1” and “OU-2”). Whereas a corporate affiliate of the Responsible Party (“RP”) shall retain ownership of OU-1, the present and future owners of OU-2 (individually and collectively, the “OU-2 Owner”) shall be parties unaffiliated to the RP. The responsibilities for implementing the Site Management Plan (“SMP”) with respect to OU-2, are divided between the RP and OU-2 Owner as set forth below. For purposes of this Appendix only “Site” shall mean OU-2.

OU-2 Owner Responsibilities:

The OU-2 Owner is responsible for:

1. Following the SMP provisions as they relate to excavation, grading or other disturbances of the ground surface and below related to development, redevelopment and/or repairs at the Site except to the extent such actions are the responsibility of the RP.
2. Performing any future investigation, and/or remediation of soils and/or fill material (collectively, “soils”) that may be required by this SMP (collectively, “Soil Remediation”) in the areas of concern (“AOC”) addressed to the satisfaction of NYSDEC as part of the RP’s approved Interim Remedial Measure (“IRM”) work, and as reflected in the IRM Construction Completion Report, dated October 23, 2020, except for future Soil Remediation associated with addressing contaminated soils beneath the oil shed in AOC 28, in the event that the oil shed is demolished, contaminated soils beneath the loading dock area within Building 11A, and contaminated soils beneath and inside the concrete “planter” located in the vicinity of AOC 32 (the “Additional Areas”); provided, however, that, once the RP performs the remediation of the Additional Areas to the extent required by NYSDEC for purposes of complying with the applicable soil cleanup objectives, the OU-2 owner will be responsible for any future Soil Remediation in these locations, as well.
3. Conducting any future Soil Remediation at areas of the Site besides the AOCs, to the extent that the need for such Soil Remediation is triggered by a change in land use designation from what appears in Exhibit H of the Amended and Restated Purchase and Sale Agreement between the Emersub 15, LLC and L Enterprises, LLC, dated May 9, 2017 (“Agreement”) for the relevant portion of the Site, e.g. industrial to commercial or commercial to restricted residential.
4. Managing hazardous building materials and debris generated in connection with its demolition, renovation, or reconfiguration of existing buildings at the Site.
5. With respect to Site buildings in existence as of July 15, 2013, repairing or replacing any flooring following initial vapor mitigation system installation by the Responsible Party, except to the extent that such repair or replacement of the floor is part of the vapor mitigation system design, or otherwise necessary for proper operation of the system to ensure compliance with applicable indoor air quality standards (such as for purposes of example only where a drainboard may be used). For purposes of clarification, the OU-2 Owner’s responsibility under this Item 5 shall extend to any openings in building floorings made in connection with the sewer test pit excavation that the RP undertook pursuant to Section 5.5.2 of the IRM Work Plan, as well as to any disturbed flooring, the restoration of which is not essential to the first OU-2 Owner’s property redevelopment plans(e.g., disturbed flooring in a building that the first OU-2 Owner plans to demolish; any redevelopment activity undertaken by subsequent OU-2 Owners; etc.)
6. With respect to Site buildings erected after July 15, 2013, designing, constructing, and installing any vapor barriers or vapor mitigation systems that may be required to protect building occupants from soil vapor intrusion and the subsequent monitoring, operation and maintenance of same.
7. Maintaining drainage ditches, swales and permanent erosion controls such as riprap used for ditch lining, slope protection, and pipe outlet protection on OU-2 (specifically, at AOCs 32, 35G and 35L).

8. Refraining from any activity that may cause an exceedance of a water quality standard or otherwise trigger a new obligation on the part of the RP to perform remediation under the SPDES permit equivalent and taking all reasonable precautions to ensure that its affiliates, employees, agents, contractors, tenants, successors, and assigns (collectively, the “Affiliates”) do the same.
9. Correcting any condition or exacerbation of a condition within OU-2 caused by OU-2 Owner or its Affiliates that may give rise to an exceedance of a water quality standard enforced through the SPDES permit equivalent or an obligation to perform remediation under the SPDES permit equivalent.
10. Complying with all Engineering Controls and Institutional Controls set forth in this SMP, the NCR Sewer Deed Restriction, and the Environmental Easement for the Site, except where compliance with those Engineering or Institutional Controls are the RP’s responsibility, as set forth below, and to the extent that any such Engineering Controls are disturbed, unless by an act of the RP or its Affiliates, paying for or performing the repair and replacement of such Engineering Controls and managing any contamination that has been generated or disturbed as a result of such disturbance of the Engineering Controls.
11. Granting access to the Site to the RP and NYSDEC and its agents for the purposes of performing activities required under the SMP and assuring compliance with the SMP.
12. Not interfering, and requiring and taking steps to prohibit its Affiliates from interfering, with the components of active remedial systems located on the Site. In the event that damage to the components of active remedial systems is evident, the OU-2 Owner shall notify the RP and NYSDEC in accordance with the timeframes indicated in Section 1.3 - Notifications.
13. Notifying the RP and NYSDEC in accordance with the time frame indicated in Section 1.3 - Notifications in the event some action or inaction by the OU-2 Owner or its Affiliates adversely impacts the environmental condition of the Site and coordinating the performance of any necessary corrective actions with the RP and NYSDEC.
14. Notifying the RP and NYSDEC of any change in ownership of the Site or any portion thereof (identifying the tax map numbers in any correspondence) and providing contact information for the new owner of the Site property in accordance with the 6 NYCRR Part 375 (cf. <https://www.dec.ny.gov/chemical/76250.html>).
15. In accordance with a periodic time frame determined by NYSDEC, periodically certifying, in writing, that all Institutional Controls and Engineering Controls under the control of OU-2 Owner remain in place and continue to be complied with, and allowing the RP to include this certification in its periodic review report certifications to NYSDEC
16. Complying with the applicable provisions regarding tenant notification of indoor air contamination set forth at Environmental Conservation Law §27-2405, as may be amended.

Remedial Party Responsibilities:

The RP is responsible for:

1. Following the SMP provisions as they relate to any excavation, grading or other disturbance of the ground surface and below that it undertakes at the Site, and, except as set forth in this SMP, the Agreement or any other separate agreement with the OU-2 Owner, performing any activities specified in the Amended ROD dated September 2021 (e.g., seep collection, monitoring and/or treatment; site-wide groundwater monitoring; groundwater collection and treatment in AOC 1; and NAPL recovery).
2. Performing any Soil Remediation of the Additional Areas – but only to the extent required by NYSDEC for purposes of complying with the applicable soil cleanup objectives following the initial demolition of the pertinent improvements – and any future investigation and/or remediation of any other areas of the Site affected by releases predating the transfer of title to OU-2 to L

Enterprises, LLC (or an affiliate), to the extent set forth in the Agreement and not covered in the OU-2 Owner Responsibilities above.

3. Operating and maintaining the dual-phase extraction and treatment system specified in Appendix I to the SMP and performing the activities covered in the monitoring and sampling plan set forth in Appendix J to the SMP.
4. Constructing, operating, and performing maintenance on the final selected remediation alternative (subject to change based on the results of the pre-design studies) for the Building 24 Seep, Retaining Wall Sump, and the Weir Box seeps.
5. Designing, constructing, installing, and, to the extent required under NYSDOH regulations or recommended under NYSDOH guidance, performing startup testing of any vapor mitigation systems required for buildings at the Site that were in existence as of July 15, 2013. Such start up testing shall be consistent with NYSDOH regulation and guidance for the purpose of ensuring proper operation of the system at that time and may include but not be limited to indoor air testing and/or pressure field extension testing.
6. Complying with the requirements of the SPDES Permit equivalent.
7. Reporting to NYSDEC all activities required for remediation, operation, maintenance, monitoring, and reporting, including, but not limited to, submitting periodic review reports and certifications, electronic data deliverables, corrective action work plans and reports, and updated SMPs.
8. Providing the OU-2 Owner with advance notification before accessing the Site to undertake a specific activity in accordance with an access agreement between the two parties.
9. If the RP or NYSDEC determines that a modification to the SMP is necessary based on anticipated or actual changed Site conditions, updating the SMP, obtaining final approval from NYSDEC, and, within 5 business days after NYSDEC approval, submitting a copy of the approved SMP to the owner(s).
10. Periodically certifying, in writing, that all Engineering and Institutional Controls applicable to the Site are in place and that compliance with them continues (note: regarding OU-2, such certification will entail coordination with the OU-2 Owner).
11. Notifying NYSDEC and the OU-2 Owner of any changes in RP ownership and/or control and of any changes in the party/entity responsible for the operation, maintenance, and monitoring of and reporting with respect to any remedial system (Engineering Controls) in accordance with 6 NYCRR Part 375 (cf. <http://www.dec.ny.gov/chemical/76250.html>).
12. Notifying NYSDEC of any damage to or modification of the systems as required under Section 1.3 - Notifications of the SMP.
13. Contacting NYSDEC to discuss the need to update the SMP, NCR Sewer Deed Restriction, or Environmental Easement in connection with any anticipated or actual change in use, change in ownership, change in site classification (e.g., delisting), reduction or expansion of remediation, or other significant changes related to the Site that may necessitate an update to the SMP and/or updated legal documents. The RP shall contact the Department to discuss the need to update such documents and provide copies of any such correspondence to the OU-2 Owner.

Change in RP ownership and/or control and/or Site ownership does not affect the RP's obligations with respect to the Site unless a legally binding document executed by the NYSDEC releases the RP of its obligations.

Future site owners and RPs and their successors and assigns are required to carry out the activities set forth above.

APPENDIX

C NCR SEWER LINE DEED RESTRICTION



Tompkins County Clerk Recording Page

Return To

FIRST AMERICAN TITLE NCS ST. LOUIS
8182 MARYLAND AVE., STE 400
SAINT LOUIS, MO 63105

Maureen Reynolds, County Clerk

Tompkins County Clerk
320 North Tioga Street
Ithaca, NY 14850
(607) 274-5431

Document Type: **MISC**

Receipt Number: 18-207602

Party 1

EMERSUB 15 LLC

Party 2

EMERSUB 15 LLC

Fees

Recording Fee	\$20.00
Pages Fee	\$95.00
State Surcharge	\$20.00
Total Fees Paid:	\$135.00

Instrument #: 2018-10180

State of New York
County of Tompkins

Filed on September 6th, 2018 at 12:56:14 PM
with a total page count of **19**.

Tompkins County Clerk

This sheet constitutes the Clerk's endorsement required by section 319 of the Real Property Law of the State of New York

DECLARATION of COVENANTS and RESTRICTIONS

THIS DECLARATION (the "Declaration") is made the 6th day of September 2018, by **EMERSUB 15 LLC**, a Delaware limited liability company, having an office for the transaction of business at 8000 West Florissant Avenue, St. Louis, Missouri 63136 ("Owner").

WHEREAS, Owner is the owner of that certain real property located at 620 South Aurora Street and 810 Danby Road, in the Town of Ithaca, County of Tompkins and State of New York (the "State"), which is legally described on **Schedule A** attached to this declaration and made a part hereof, and is further known and designated on the tax map of the County Clerk of Tompkins as tax map parcel numbers: Section 106, Block 1, Lot 8, Section 40, Block 3, Lot 3, and a portion of Section 40, Block 3, Lot 14.2, being the same as that property conveyed to Owner by deeds recorded in the Tompkins County Clerk's Office in Liber 474, Page 68; Liber 556, Page 127; Liber 556, Page 1081; Liber 564, Page 91; Liber 567, Page 446; Liber 2512, Page 5758; and Instrument Number 555134-003 (the "Property"); and

WHEREAS, soil vapor contamination associated with the sewer lines serving the former National Cash Register site to the south of the Property and Ithaca College to the east of the Property was identified during past environmental investigations, which sewer lines comprise the main sanitary sewer trunk and the lateral sanitary sewer trunk and are located on a portion of the Property (collectively, the "NCR Sewer Line Area"); and

WHEREAS, the NCR Sewer Line Area comprises approximately +/- 2.983 acres, and is hereinafter more fully described in the Land Title Survey dated July 25, 2018, prepared by Richard M. Rybinski, and which is legally described on **Schedule B** attached to this declaration and made a part hereof; and

WHEREAS, the covenants and restrictions contained in this Declaration ensure the protection of public health and the environment.

NOW, THEREFORE, Owner, for itself, its assigns, and subsequent owners of the NCR Sewer Line Area covenants that:

First, the NCR Sewer Line Area subject to this Declaration is as shown on a map attached to this declaration as **Schedule B** and made a part hereof.

Second, prior to any construction activity that involves either connecting to the sewers located within the NCR Sewer Line Area or the erection of any occupied structure that lies partially or wholly within the NCR Sewer Line Area, Owner shall conduct an evaluation of soil vapor intrusion potential in accordance with the State's "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" or equivalent and successor methodology or guidance thereto (collectively, the "Guidance"), and implement recommended actions in accordance with such Guidance ("Recommended Actions") if any, to address exposures related to soil vapor intrusion, or in the alternative, the owner may forego the soil vapor intrusion evaluation and install a soil

vapor intrusion mitigation system ("Engineering Controls") in any building on the Property intended for such occupation, as though the evaluation of soil vapor intrusion potential would have justified mitigation under the Guidance.

Third, all Engineering Controls shall be installed prior to occupancy of any structure that lies partially or wholly within the NCR Sewer Line Area or any structure served by a lateral that connects to the sewer located within the NCR Sewer Line Area.

Fourth, all Engineering Controls and Recommended Actions shall be performed, operated, maintained and monitored as specified in the Guidance.

Fifth, all Engineering Controls shall be inspected at a frequency and in a manner defined in the Guidance.

Sixth, data and information pertinent to the Recommended Actions and/or Engineering Controls shall be reported at the frequency and in a manner in accordance with the Guidance.

Seventh, access to the NCR Sewer Line Area shall be provided to agents, employees or other representatives of the State with reasonable prior notice to the Owner to assure compliance with the Guidance.

Eighth, the Recommended Actions and Engineering Controls shall be binding upon the Owner, its assigns, and subsequent owners of the NCR Sewer Line Area. The Recommended Actions and Engineering Controls may be modified in accordance with the State's statutory and regulatory authority. The Owner and all successors in title to the NCR Sewer Line Area, as well as their successors and assigns, assume the burden of complying with the Recommended Actions and Engineering Controls.

Owner shall provide all persons who acquire any interest in the NCR Sewer Line Area notice of the Recommended Actions and Engineering Controls along with any State approvals for the NCR Sewer Line Area.

Ninth, the Owner shall continue in full force and effect any Recommended Actions and Engineering Controls and maintain such controls, unless the Owner first obtains permission to discontinue such controls from the State.

Tenth, this Declaration is and shall be deemed a covenant that shall run with the land and shall be binding upon all future owners of the NCR Sewer Line Area, and shall provide that any such owner and its successors and assigns consent to enforcement by the State or other relevant agency of the prohibitions and restrictions set forth in this Declaration, and hereby covenant not to contest the authority of the State to seek enforcement. Nothing contained in this Declaration shall be deemed a gift or dedication of any portion of the NCR Sewer Line Area to the general public or for the general public or for any public purpose whatsoever nor shall anything contained in this Declaration confer any benefits, rights, privileges, claims, actions or remedies to any person or entity as a third-party beneficiary or otherwise

Eleventh, any lease, license, deed of conveyance, or other instrument conveying the NCR Sewer Line Area, or any portion thereof, shall recite, unless the State has consented to the termination of such covenants and restrictions, that said conveyance is subject to this Declaration.

[Signature Page to Follow]

IN WITNESS WHEREOF, the undersigned has executed this instrument the day written below.

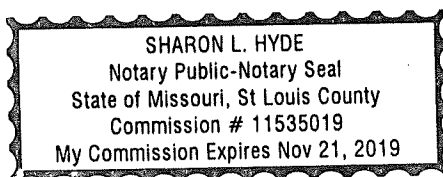
EMERSUB 16 LLC

By: *Stephen L. Clarke*
Print Name: Stephen L. Clarke
Title: President Date: 8/9/2018

STATE OF MISSOURI)
) ss.:
COUNTY OF St. Louis)

On the 9th day of August, in the year 2018, before me, the undersigned, personally appeared Stephen L. Clarke, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that ~~he~~/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Sharon L. Hyde
Notary Public State of Missouri



Schedule A

The Property

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, SITUATE, LYING AND BEING IN THE COUNTY OF TOMPKINS AND STATE OF NEW YORK, AND DESCRIBED AS FOLLOWS, TO WIT:

PARCEL 1

ALL THAT PORTION OF SOUTH TIOGA STREET LYING SOUTH OF THE CAYUGA AND SUSQUEHANNA RAILWAY, AND EXTENDING TO THE SOUTH BOUNDARY OF THE SAID CITY OF ITHACA, AND

BEGINNING AT THE POINT OF INTERSECTION OF THE EAST LINE OF SOUTH CAYUGA STREET WITH THE SOUTH BOUNDARY LINE OF THE SAID CITY OF ITHACA; THENCE NORTH ALONG THE EASTERLY LINE OF CAYUGA STREET TO THE SOUTH BOUNDARY OF THE CAYUGA AND SUSQUEHANNA RAIL ROAD CO'S LAND NOW OR FORMERLY LEASED TO THE DELAWARE, LACKAWANNA & WESTERN RAIL ROAD CO., THENCE NORTHEASTERLY ALONG THE SOUTH BOUNDARY OF SAID RAIL ROAD CO'S LAND TO THE WEST LINE OF SOUTH TIOGA STREET EXTENDED; THENCE SOUTH ALONG THE WEST LINE OF SAID TIOGA ST. EXTENSION TO THE SOUTH BOUNDARY LINE OF THE CITY OF ITHACA; THENCE WEST ALONG THE SOUTH BOUNDARY LINE OF SAID CITY TO THE PLACE OF BEGINNING, AND

PART OF MILITARY LOT 94 IN SAID CITY BOUNDED AND DESCRIBED AS FOLLOWS: BEGINNING ON THE SOUTHEAST SIDE OF THE RIGHT OF WAY OF THE DELAWARE, LACKAWANNA AND WESTERN RAILROAD WEST OF AURORA STREET, AT THE NORTHWEST CORNER OF THE LOT WILLED TO JOSEPH WILLIS MCGRAW BY SARAH A. MCGRAW; THENCE ALONG THE SOUTHEAST LINE OF THE RIGHT OF WAY TO THE EAST LINE OF SOUTH TIOGA STREET, THENCE SOUTH ON THE EAST LINE OF SOUTH TIOGA STREET TO A POINT TWENTY-FIVE (25) FEET FROM THE CENTER LINE OF THE UPPER BRANCH OF THE TURNOUT BUILT BY THE SAID LACKAWANNA RAILROAD COMPANY FOR THE USE OF MORSE CHAIN COMPANY; THENCE NORTHEASTERLY AT A DISTANCE OF TWENTY-FIVE FEET FROM THE CENTER LINE OF SAID TURNOUT TO A POINT ON THE SOUTH LINE OF THE SAID JOSEPH MCGRAW LOT; THENCE WESTERLY ALONG THE SOUTH LINE OF SAID MCGRAW LOT TO THE PLACE OF BEGINNING, AND

THE PORTION OF THE EAST HALF OF SOUTH TIOGA STREET WHICH LIES BETWEEN THE LACKAWANNA RIGHT OF WAY AND THE LINE TWENTY-FIVE FEET EASTERLY FROM THE CENTER LINE OF THE TURNOUT ABOVE DESCRIBED, AND

BEGINNING AT THE POINT OF INTERSECTION OF THE SOUTH BOUNDARY LINE OF THE CITY OF ITHACA WITH THE WEST BOUNDARY LINE OF SOUTH CAYUGA STREET; THENCE WESTERLY ALONG SAID CITY LINE TO THE SOUTHERN BOUNDARY LINE OF LANDS OF THE CAYUGA AND SUSQUEHANNA RAILROAD, (NOW OR FORMERLY LEASED BY THE DELAWARE, LACKAWANNA AND WESTERN RAILROAD); THENCE NORTHEASTERLY ALONG SAID RAILROAD BOUNDARY LINE TO ITS INTERSECTION WITH THE WEST BOUNDARY LINE OF SOUTH CAYUGA STREET; THENCE SOUTHERLY ALONG SAID CAYUGA STREET LINE TO THE PLACE OF BEGINNING, AND

ALL THAT PORTION OF SOUTH CAYUGA STREET EXTENDING FROM THE SOUTHERLY LINE OF THE RIGHT OF WAY OF THE DELAWARE, LACKAWANNA & WESTERN RAILROAD COMPANY TO THE CITY LINE, AND

ON SOUTH HILL, DESIGNATED AS LOT 20 ON A MAP OF SOUTH HILL LANDS MADE BY KIRK P. CRANDALL, DATED MAY, 1905, AND FILED IN THE TOMPKINS COUNTY CLERK'S OFFICE ON THE 31ST DAY OF AUGUST, 1906, SAID LOT 20 BEING BOUNDED AS FOLLOWS: ON THE SOUTH BY THE RIGHT OF WAY OF THE D. L. & W. RAILROAD; ON

THE WEST BY SOUTH CAYUGA STREET, ON THE NORTH BY SOUTH HILL TERRACE AND LOT 21, AND ON THE EAST BY LAND FORMERLY BELONGING TO THE CITY WATER BOARD, AND

COMMENCING ON THE EAST LINE OF SOUTH AURORA STREET IN SAID CITY AT THE SOUTH-WEST CORNER OF LAND OWNED BY PHILIPP STEPHENS AT THE TIME OF HIS DEATH, AND RUNNING THENCE NORTH 26° AND 30' EAST ALONG THE EAST LINE OF SAID SOUTH AURORA STREET 353 ½ FEET TO THE SOUTH LINE OF LANDS DEVISED TO FITCH H. STEPHENS BY SAID PHILIPP STEPHENS BY HIS WILL ADMITTED TO PROBATE MAY 11, 1908, AND RECORDED IN BOOK C. C. OF WILLS AT PAGE 398 IN THE SURROGATE'S OFFICE OF SAID COUNTY OF TOMPKINS; THENCE NORTH 88° 45' EAST 703 FEET TO THE WEST LINE OF LANDS, WHICH BY THE TERMS OF SAID WILL, THE EXECUTOR THEREIN NAMED WAS EMPOWERED TO SELL; THENCE SOUTH 4° 15' WEST ALONG SAID WEST LINE OF SAID LANDS, WHICH SAID EXECUTOR WAS EMPOWERED TO SELL, 316 ½ FEET TO THE SOUTH LINE OF SAID PHILIPP STEPHENS' LAND; THENCE SOUTH 88° AND 15' WEST ALONG THE SOUTH LINE OF SAID LAND OWNED BY SAID STEPHENS AT THE TIME OF HIS DEATH 841 FEET TO THE EAST LINE OF SOUTH AURORA STREET, THE PLACE OF BEGINNING, EXCEPTING THEREFROM TWO LOTS OF 40 FEET BY 200 FEET DONATED BY SAID STEPHENS TO THE CONGREGATIONAL CHURCH AND A LOT 50 FEET BY 200 FEET SOLD BY SAID STEPHENS TO LEVI HOLLISTER AND BEING AND INTENDED TO BE THE SOUTHWEST LOT OF LAND ON SAID SOUTH AURORA STREET DEVISED BY SAID WILL OF PHILIPP STEPHENS, DECEASED, TO ELIZABETH BARTO. ALSO, COMMENCING AT A POINT ON THE EAST SIDE OF SOUTH AURORA STREET IN SAID CITY 110 FEET NORTHERLY FROM A POINT WHERE THE SOUTH LINE OF PREMISES FORMERLY OWNED BY PHILIPP STEPHENS JOINS THE EAST SIDE OF SAID SOUTH AURORA STREET, AND RUNNING FROM THENCE EAST 200 FEET; THENCE NORTHERLY PARALLEL WITH SOUTH AURORA STREET 50 FEET; THENCE WEST 200 FEET TO THE EAST SIDE OF SOUTH AURORA STREET; AND THENCE ALONG THE EAST SIDE OF SOUTH AURORA STREET 50 FEET TO THE PLACE OF BEGINNING. BEING 50 FEET ON SOUTH AURORA STREET BY 200 FEET DEEP EASTERLY AND WESTERLY, AND

ON SOUTH HILL DESCRIBED AS FOLLOWS: BEGINNING AT A POINT WHERE A PROLONGATION TO THE SOUTH OF THE WEST LINE OF TIOGA STREET WILL INTERSECT THE NORTH LINE OF THE DELAWARE, LACKAWANNA & WESTERN, RAILROAD; THENCE NORTH ALONG SAID WEST LINE OF SAID PROLONGATION OF TIOGA STREET, 170 FEET, THENCE WEST 210 FEET; THENCE SOUTH PARALLEL WITH SAID LINE ON TIOGA STREET TO THE NORTH LINE OF SAID RAILROAD; THENCE EASTERLY ALONG THE NORTH LINE OF SAID RAILROAD TO THE PLACE OF BEGINNING. BEING KNOWN AS THE SOUTH HILL RESERVOIR SITE, AND

A PART OF MILITARY LOT NO. 94 AND BEING A PART OF LANDS DEEDED TO SARAH MCGRAW BY ABEL BURRITT AND WIFE; RECORDED IN THE CLERK'S OFFICE OF TOMPKINS COUNTY IN LIBER 7 OF ITHACA DEEDS AT PAGE 519, BOUNDED AS FOLLOWS, TO WIT: BEGINNING AT THE INTERSECTION OF THE SOUTH LINE OF WALNUT STREET, WITH THE WEST LINE OF THE OLD OWEGO AND ITHACA TURNPIKE ROAD; THENCE WEST ALONG SAID SOUTH LINE OF WALNUT STREET TO THE EAST LINE OF TIOGA STREET; THENCE SOUTH ALONG TIOGA STREET TO THE LANDS DEVISED TO FRANK SEARS MCGRAW, UNDER THE TERMS OF THE LAST WILL AND TESTAMENT OF SARAH MCGRAW, TO WHICH MORE COMPLETE REFERENCE IS MADE HEREINAFTER; THENCE RUNNING EAST ALONG THE NORTH LINE OF SAID MCGRAW'S LAND TO THE OLD OWEGO AND ITHACA TURNPIKE ROAD; THENCE NORTHEASTERLY ALONG SAID ROAD TO THE PLACE OF BEGINNING, AND

BEGINNING AT THE INTERSECTION OF THE SOUTH LINE OF FOUNTAIN STREET, WITH THE WEST LINE OF THE OLD OWEGO AND ITHACA TURNPIKE ROAD; THENCE SOUTHERLY ON THE WEST LINE OF SAID TURNPIKE TO WALNUT STREET; THENCE WESTERLY ON THE NORTH LINE OF WALNUT STREET TO TIOGA STREET; THENCE NORTHERLY ON THE EAST LINE OF TIOGA STREET TO LANDS PREVIOUSLY DEEDED TO MORSE CHAIN COMPANY BY MARY CELESTIA GAUNTLETT AND GEORGIA MCGRAW CURTISS, AS IS RECORDED AT THE TOMPKINS COUNTY CLERK'S OFFICE IN LIBER 168 OF ITHACA DEEDS AT PAGE 169; THENCE NORTHEASTERLY ALONG SAID MORSE CHAIN COMPANY'S LAND TO THE SOUTH LINE OF FOUNTAIN STREET; THENCE EASTERLY ALONG THE SOUTH LINE OF FOUNTAIN STREET TO THE PLACE OF BEGINNING, AND

A PART OF MILITARY LOT NO. 94 AS FOLLOWS, TO WIT: ALL THAT PART OF WALNUT STREET AND FOUNTAIN STREET, BETWEEN THE OLD OWEGO AND ITHACA TURNPIKE ROAD AND SOUTH TIOGA STREET; AND ALL THAT PART OF SOUTH TIOGA STREET EXTENDING FROM THE NORTH SIDE OF FOUNTAIN STREET TO THE SOUTHWEST CORNER OF LANDS FORMERLY OWNED AND OCCUPIED BY SARAH MCGRAW. SAID WALNUT STREET, BEING THE SAME AS IS INDICATED BY A MAP OF THE BLOODGOOD ESTATE, FILED IN THE CLERK'S OFFICE OF TOMPKINS COUNTY, MARCH 21, 1837. SAID PORTION OF FOUNTAIN STREET AND SOUTH TIOGA STREET BEING THE SAME AS LAID OUT IN A MAP OF ITHACA, BY A.G. BARDIN, DATED 1872, AND

BEGINNING AT THE CENTER OF THE TURNPIKE LEADING FROM ITHACA TO OWEGO, AT A STAKE AND STONES, NOW A POINT IN THE EAST LINE OF SOUTH AURORA STREET, BEING THE SOUTHWEST CORNER OF A SMALL LOT SOLD BY JOHN SCOTT TO MRS. GEE; THENCE RUNNING NORTH 89° 30' EAST 8 CHAINS AND 25 LINKS TO A STAKE AND STONES; THENCE NORTH 22° 30' EAST 1 CHAIN AND 74 LINKS TO A STAKE AND STONES; THENCE SOUTH 89° 30' WEST 7 CHAINS AND 80 LINKS TO THE CENTER OF THE OLD OWEGO TURNPIKE, NOW AURORA STREET, THENCE SOUTH 28° WEST TO THE PLACE OF BEGINNING, EXCEPTING OUT OF THE SOUTH WEST PROPERTY BELONGING TO ABIGAL AND CATHARINE GEE, NOW OR FORMERLY, THE BALANCE HEREBY CONVEYED.

ALSO ALL THAT CERTAIN OTHER PIECE OR PARCEL OF LAND ADJOINING THE ABOVE AND DESCRIBED AS FOLLOWS, TO WIT: BEGINNING AT A CORNER FORMED BY THE CENTER OF THE OLD OWEGO AND ITHACA TURNPIKE ROAD AND ON THE LINE OF A BOARD FENCE, FROM THENCE NORTH 89° 30' EAST ALONG THE LINE OF JESSIE D. SMITH'S LAND 8 CHAINS AND 25 LINKS TO A POST; THENCE NORTH 22° 30' EAST ON THE LINE OF JAMES TRUESDALL'S LAND 180 TO A POST; THENCE SOUTH 89° 30' WEST 8 CHAINS TO THE CENTER OF SAID TURNPIKE ROAD; THENCE SOUTH 28° WEST TO THE PLACE OF BEGINNING.

ALSO ALL THAT CERTAIN PIECE OR PARCEL OF LAND BEING PART OF LOT NUMBER 3 OF A SUBDIVISION OF A PART OF MILITARY LOT NO. 94 OF THE TOWN OF ULYSSES, NOW ITHACA, MADE BY WILLIAM R. COLLINS AND DESCRIBED AS FOLLOWS, TO WIT: BEGINNING AT THE SOUTH WEST CORNER OF SAID SUBDIVISION NUMBER 3 ON THE EAST LINE OF THE OLD ITHACA AND OWEGO TURNPIKE, RUNNING THENCE NORTHERLY ALONG SAID TURNPIKE 3 RODS; THENCE NORTH 89° 30' EAST 6 RODS; THENCE SOUTHERLY ON A LINE PARALLEL WITH SAID TURNPIKE 3 RODS TO THE SOUTH LINE OF SAID SUBDIVISION NO. 3; THENCE WESTERLY ON SAID LINE 6 RODS TO THE PLACE OF BEGINNING. EXCEPTING AND RESERVING FROM THE PREMISES ABOVE DESCRIBED ALL THAT PIECE OR PARCEL OF LAND CONVEYED BY PATRICK WALL AND WIFE TO JAMES HILICK, JR., AND MARY HILICK, HIS WIFE, BY DEED DATED JUNE 28, 1911, AND RECORDED IN THE TOMPKINS COUNTY CLERK'S OFFICE IN LIBER 177 OF DEEDS AT PAGE 32, BEING LOT NO. 10 AS LAID OUT ON A MAP OF THE PREMISES ABOVE DESCRIBED.

ALSO ALL THAT TRACT OR PARCEL OF LAND BEGINNING AT THE NORTHEAST CORNER OF LOT NO. 85, OF THE TOWN OF ITHACA, NOW WITHIN THE CITY LIMITS, RUNNING THENCE NORTH ALONG THE EAST LINE OF SOUTH TIOGA STREET EXTENDING TO WHERE IT IS INTERSECTED, BY THE SOUTH LINE OF LANDS NOW OR FORMERLY OWNED BY FRANK E. BROWN AND STELLA BROWN, THENCE EAST ALONG SAID BROWN'S SOUTH LINE TO THE WEST LINE OF SOUTH AURORA STREET; THENCE SOUTHWESTERLY ALONG THE WEST LINE OF SOUTH AURORA STREET TO THE PLACE OF BEGINNING, AND

A PART OF MILITARY LOT NO. 94 AND BEING A PART OF LANDS DEEDED TO SARAH MCGRAW BY ABEL BURRITT AND WIFE, RECORDED IN THE CLERK'S OFFICE AT TOMPKINS COUNTY IN LIBER 7 OF ITHACA DEEDS AT PAGE 519; BOUNDED AS FOLLOWS, TO WIT: BEGINNING AT THE NORTHEAST CORNER OF LAND FORMERLY OWNED BY ABRAHAM MASTERS, JR.; THENCE NORTHEASTERLY ALONG THE WEST LINE OF THE OLD OWEGO AND ITHACA TURNPIKE ROAD TO THE LANDS DEVISED TO MARY CELESTIA GAUNTLETT AND GEORGIA MCGRAW CURTISS, UNDER THE TERMS OF THE LAST WILL AND TESTAMENT OF SARAH MCGRAW, TO WHICH MORE COMPLETE REFERENCE IS MADE HEREINAFTER, THENCE WEST ALONG THE SOUTH LINE OF SAID GAUNTLETT AND CURTISS LAND TO THE EAST LINE OF TIOGA STREET; THENCE SOUTH ALONG TIOGA STREET TO LAND NOW OR FORMERLY OWNED OR IN THE POSSESSION OF SARAH HITCHCOCK; RUNNING THENCE EAST ALONG THE NORTH LINE OF SAID LAND TO THE SOUTHWEST CORNER OF SAID ABRAHAM MASTER'S JR., LAND; THENCE NORTH ALONG THE WEST LINE OF SAID MASTER'S LAND 83 FEET; THENCE EAST ALONG THE NORTH LINE OF SAID MASTER'S LAND TO THE PLACE OF BEGINNING, AND

BEGINNING AT A POINT IN THE INTERSECTION OF THE WEST LINE OF SOUTH AURORA STREET AND THE SOUTH LINE OF THE CITY OF ITHACA, NEW YORK; THENCE SOUTHWESTERLY ALONG THE WEST LINE OF SOUTH AURORA STREET, 480 FEET; THENCE WEST, PARALLEL WITH THE CITY LINE TO A POINT IN THE EAST LINE OF CAYUGA STREET EXTENSION; THENCE NORTH ALONG THE EAST LINE OF CAYUGA STREET EXTENSION TO THE SOUTH LINE OF THE CITY OF ITHACA; THENCE EAST ALONG THE SOUTH LINE OF THE CITY OF ITHACA TO THE PLACE OF BEGINNING, AND

ALL THAT TRACT OR PARCEL OF LAND, NOW OR FORMERLY OWNED BY EBENEZER T. TURNER, A WIDOWER,

LYING WESTERLY OF THE EXTENSION OF SOUTH AURORA STREET (FORMERLY KNOWN AS THE OWEGO TURNPIKE), SOUTHEASTERLY OF THE D. L. & W. R. R. RIGHT OF WAY, SOUTH OF THE SOUTH CORPORATION LINE OF THE CITY OF ITHACA AND LANDS OF SUSAN WIGLEY, AND NORTHERLY OF THE BATES FARM, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT A POINT IN THE CENTER OF THE OWEGO TURNPIKE IN THE LINE BETWEEN THE LANDS NOW OR FORMERLY OF EBENEZER T. TURNER, WIDOWER, AND THE BATES FARM; RUNNING THENCE WESTERLY ALONG THE NORTH LINE OF THE SAID BATES FARM $84-1/4^{\circ}$ WEST 1437 FEET TO A CORNER IN A STONE WALL; THENCE NORTH $7-1/2^{\circ}$ EAST 770 FEET TO THE SOUTHEASTERLY LINE OF THE RIGHT OF WAY OF THE D. L. & W. RY.; THENCE NORTHEASTERLY ALONG THE RIGHT OF WAY OF THE SAID D. L. & W. RY. ABOUT 2205 FEET TO THE SOUTH CORPORATION LINE OF THE CITY OF ITHACA; THENCE SOUTH $84-1/4^{\circ}$ EAST ALONG THE SOUTH CORPORATION LINE OF THE CITY OF ITHACA 396 FEET TO THE NORTHWEST CORNER OF LAND CONVEYED TO SUSAN WIGLEY BY DEED DATED JANUARY 29, 1907, AND RECORDED IN THE TOMPKINS COUNTY CLERK'S OFFICE IN BOOK 167 OF DEEDS AT PAGE 217; THENCE SOUTH $6-3/4^{\circ}$ WEST ALONG THE WEST LINE OF SAID WIGLEY LOT 421 FEET TO THE SOUTHWEST CORNER OF SAID WIGLEY LOT; THENCE SOUTH $84-1/4^{\circ}$ EAST ALONG THE SOUTH LINE OF THE SAID WIGLEY LOT 322 FEET, MORE OR LESS, TO THE WESTERLY LINE OF THE EXTENSION OF SOUTH AURORA STREET, KNOWN AS THE DANBY MACADAM ROAD; THENCE ON A CONTINUATION OF THE SAID LAST MENTIONED LINE 27 FEET TO THE CENTER OF SAID ROAD; THENCE SOUTH $33-3/4^{\circ}$ WEST ALONG THE CENTER OF SAID MACADAM ROAD 1411 FEET, MORE OR LESS, THENCE SOUTH $23-3/4^{\circ}$ WEST 682 FEET TO THE PLACE OF BEGINNING, ACCORDING TO A SURVEY MADE BY CARL CRANDALL, C. E., DATED JULY, 1917, AND,

BEGINNING IN THE EASTERLY LINE OF SPENCER STREET IN SAID CITY AT THE SOUTHWESTERLY CORNER OF LANDS CONVEYED TO EBENEZER T. TURNER TO DANIEL CROWLEY AND HELEN S. CROWLEY BY DEED DATED FEBRUARY 26, 1924, AND RECORDED IN THE TOMPKINS COUNTY CLERK'S OFFICE IN LIBER 196 OF DEEDS AT PAGE 227; RUNNING THENCE EASTERLY ALONG THE SOUTHERLY BOUNDARY OF LANDS OF CROWLEY 123 FEET TO THE SOUTHEASTERLY CORNER THEREOF; THENCE NORTHERLY ALONG THE EASTERLY BOUNDARY OF LANDS OF CROWLEY 22.5 FEET TO THE SOUTHWESTERLY CORNER OF A PARCEL OF LAND CONVEYED BY EBENEZER T. TURNER TO AUGUST KAMINSKY BY DEED DATED NOVEMBER 14, 1923 AND RECORDED IN LIBER 205 OF DEEDS AT PAGE 433; THENCE EASTERLY ALONG THE SOUTHERLY BOUNDARY OF KAMINSKY TO THE SOUTHEASTERLY CORNER OF SAID KAMINSKY IN THE WESTERLY LINE OF SOUTH CAYUGA STREET EXTENSION; THENCE SOUTHERLY ALONG THE WESTERLY LINE OF SOUTH CAYUGA STREET EXTENSION TO THE INTERSECTION WITH THE WESTERLY RIGHT OF WAY LINE OF THE DELAWARE, LACKAWANNA AND WESTERN RAILROAD NEAR THE UNDERPASS BRIDGE; THENCE SOUTHWESTERLY ALONG THE WESTERLY BOUNDARY OF LANDS OF SAID RAILROAD TO THE NORTH LINE OF THE OLD INCLINED PLANE AT A POINT 185 FEET NORTHEASTERLY ALONG THE RAILROAD BOUNDARY FROM ITS INTERSECTION WITH THE SOUTH CORPORATION LINE OF THE CITY OF ITHACA, THE NORTH LINE OF THE OLD INCLINED PLANE BEING THE NORTHERLY BOUNDARY OF THE SECOND PARCEL DESCRIBED IN A CONVEYANCE FROM WILLIAM SHEEHY TO JOHN SHEEHY, DATED NOVEMBER 21, 1921, AND RECORDED IN LIBER 201 OF DEEDS AT PAGE 442; THENCE WESTERLY ALONG THE NORTH LINE OF THE OLD INCLINED PLANE AND NORTHERLY BOUNDARY OF LANDS OF SAID SHEEHY TO THE INTERSECTION WITH THE EASTERLY LINE OF SPENCER STREET; THENCE NORTHERLY ALONG THE EASTERLY LINE OF SPENCER STREET TO THE PLACE OF BEGINNING. EXCEPTING ALL RIGHT, TITLE AND INTEREST OF THE CITY OF ITHACA IN AND TO A WATER MAIN RUNNING ACROSS THE WESTERLY PORTION OF SAID PREMISES AND ALONG THE ABANDONED LOCATION OF SPENCER ROAD, AND

ALL THAT TRACT, PIECE OR PARCEL OF LAND BOUNDED AND DESCRIBED AS FOLLOWS: ON THE NORTH AND WEST BY THE SOUTHERLY AND EASTERLY BOUNDARY LINE OF THE DELAWARE, LACKAWANNA & WESTERN R. CO.; ON THE EAST AND SOUTH BY SOUTH AURORA STREET AND ITS EXTENSION SOUTHERLY KNOWN AS THE ITHACA-OWEGO TURNPIKE AND THE NORTHERLY LINE OF THE OLD JACOB BATES' FARM SITUATED ADJOINING THE WESTERLY SIDE OF THE SAID TURNPIKE, AND

BEGINNING AT AN IRON PIPE MARKING THE SOUTHEASTERLY CORNER OF LANDS CONVEYED BY MORSE CHAIN COMPANY TO WILLIAM P. RYAN BY DEED DATED APRIL 7, 1925, AND RECORDED IN THE TOMPKINS COUNTY CLERK'S OFFICE IN LIBER 206 OF DEEDS AT PAGE 330, SAID PIPE BEING 130 FEET EASTERLY AT RIGHT ANGLES FROM THE EASTERLY LINE OF SOUTH AURORA STREET AND ALSO BEING IN THE NORTH BOUNDARY OF LANDS NOW OR FORMERLY OF JULIA E. STARKINS; THENCE EAST ALONG THE NORTH BOUNDARY OF LANDS NOW OR FORMERLY OF JULIA E. STARKINS, ABOUT 54 FEET TO THE NORTHEASTERLY

CORNER OF LANDS NOW OR FORMERLY OF JULIA E. STARKINS; THENCE SOUTHWESTERLY ALONG THE EASTERLY BOUNDARY OF LANDS NOW OR FORMERLY OF JULIA E. STARKINS ABOUT 77 FEET TO THE SOUTHEASTERLY CORNER OF LANDS NOW OR FORMERLY OF JULIA E. STARKINS 10 FEET NORTH OF THE PRESENT OR FORMER NORTH LINE OF A 40 FOOT STREET KNOWN AS WALL STREET; THENCE WEST ALONG A LINE 10 FEET NORTH OF AND PARALLEL WITH SAID NORTH LINE OF WALL STREET 24 FEET TO THE NORTHEASTERLY CORNER OF A 10 FOOT STRIP OF LAND CONVEYED BY MORSE CHAIN COMPANY TO JULIA E. STARKINS; THENCE NORTH 70 FEET IN A STRAIGHT LINE TO THE PLACE OF BEGINNING, AND

BEGINNING AT AN IRON PIPE MARKING THE INTERSECTION OF THE NORTH LINE OF WALL STREET WITH THE EASTERLY LINE OF SOUTH AURORA STREET AND THE SAME POINT OF BEGINNING DESCRIBED IN A CONVEYANCE OF A 10 FOOT STRIP OF LAND BY MORSE CHAIN COMPANY TO JULIA E. STARKINS BY DEED DATED JANUARY 2, 1926; THENCE EAST ALONG THE NORTH LINE OF WALL STREET (40 FEET WIDE) A DISTANCE OF 25 FEET; THENCE NORTHWESTERLY AND NORTHERLY ALONG A CURVE TO THE RIGHT WITH A RADIUS OF 15 FEET FOR 30.9 FEET TO A POINT IN THE EASTERLY LINE OF SOUTH AURORA STREET; THENCE SOUTHWESTERLY ALONG THE EASTERLY LINE OF SOUTH AURORA STREET 25 FEET TO THE PLACE OF BEGINNING, AND

LOT NO. 21 AS LAID OUT ON A MAP OF SOUTH HILL LANDS OF S. B. AND E. T. TURNER, MADE BY KIRK P. CRANDALL DATED MAY, 1905, AND FILED IN THE TOMPKINS COUNTY CLERK'S OFFICE ON THE 31ST DAY OF AUGUST, 1906, AND IN MAP BK B1 PAGE 35.

LOT NO. 33 AS SHOWN ON A MAP OF THE PROPERTY OF S. B. AND E. T. TURNER OF SOUTH HILL MADE BY K.P. CRANDALL, C. E., MAY, 1905, FILED IN TOMPKINS COUNTY CLERK'S OFFICE AUGUST 31, 1906, AND FILED IN MAP BOOK B1 PAGE 33.

BEGINNING AT AN IRON PIPE IN THE NORTHWESTERLY LINE OF SOUTH AURORA STREET AT THE NORTHEASTERLY CORNER OF LANDS NOW OR FORMERLY OF CHARLES GUTENBERGER; THENCE NORTHWESTERLY AT RIGHT ANGLES WITH SOUTH AURORA STREET 100 FEET TO AN IRON PIPE; THENCE NORTHEASTERLY PARALLEL WITH SOUTH AURORA STREET 50 FEET TO AN IRON PIPE; THENCE SOUTHEASTERLY AT RIGHT ANGLES WITH SOUTH AURORA STREET 100 FEET TO AN IRON PIPE SET IN THE NORTHWESTERLY LINE OF SAID STREET; THENCE SOUTHWESTERLY ALONG THE LINE OF SAID STREET 50 FEET TO THE PLACE OF BEGINNING, AND

BEGINNING AT THE SOUTHEAST CORNER OF THE PARCEL CONVEYED BY MORSE CHAIN COMPANY TO ALLEN WALES ADDING MACHINE CORPORATION BY DEED DATED AUGUST 27, 1947 AND RECORDED SEPTEMBER 2, 1947 IN LIBER 302 OF DEEDS AT PAGE 170, SAID POINT OF BEGINNING BEING IN THE WEST LINE OF SOUTH AURORA STREET ABOUT 135 FEET NORTHEASTERLY ALONG SAID LINE FROM ITS INTERSECTION WITH THE SOUTH LINE OF THE CITY OF ITHACA; RUNNING THENCE NORTH $81^{\circ} 33'$ WEST (MAGNETIC 1947) ALONG THE SOUTH LINE OF SAID PARCEL 272 FEET TO A PIPE; RUNNING THENCE NORTH $37^{\circ} 30'$ EAST ALONG A WESTERLY LINE OF SAID PARCEL 389.2 FEET TO A PIPE; RUNNING THENCE SOUTHEASTERLY ABOUT 138 FEET TO A PIPE (PIPE A) AT THE NORTHWESTERLY CORNER OF THE PARCEL KNOWN AS 764 SOUTH AURORA STREET CONVEYED BY THE NATIONAL CASH REGISTER COMPANY TO FRANK J. AND ALICE J. RAPONI, HUSBAND AND WIFE, BY DEED DATED MAY 7, 1956 AND RECORDED JUNE 4, 1956 IN LIBER 387 OF DEEDS AT PAGE 531; RUNNING THENCE SOUTH $36^{\circ} 24'$ WEST ALONG THE WESTERLY LINE OF SAID RAPONI PARCEL 40 FEET TO A PIPE; CONTINUING THENCE SOUTH $36^{\circ} 24'$ WEST 121.5 FEET TO A PIPE; RUNNING THENCE SOUTH $09^{\circ} 37'$ WEST 35.3 FEET TO A POINT; RUNNING THENCE SOUTH 75° EAST 89 FEET TO A PIPE IN THE WEST LINE OF SOUTH AURORA STREET (THE PRECEDING THREE COURSES BEING ALONG LINES OF THE PREMISES KNOWN AS 766 SOUTH AURORA STREET CONVEYED BY THE NATIONAL CASH REGISTER COMPANY TO JOHN R. AND NORMA E. CAPOZZI BY DEED DATED AUGUST 28, 1953 AND RECORDED SEPTEMBER 3, 1953 IN LIBER 361 OF DEEDS AT PAGE 269); RUNNING THENCE SOUTH $36^{\circ} 24'$ WEST ALONG THE WEST LINE OF SOUTH AURORA STREET 48 FEET TO THE POINT OR PLACE OF BEGINNING. TOGETHER WITH A RIGHT OF WAY, IN COMMON WITH OTHERS, ENTITLED NOW OR HEREAFTER TO USE THE SAME, FOR PEDESTRIANS AND VEHICLES FROM THE NORTHEASTERLY CORNER OF THE ABOVE-DESCRIBED PARCEL EASTERLY TO AURORA STREET OVER A STRIP OF LAND DESCRIBED AS FOLLOWS: BEGINNING AT SAID PIPE A; RUNNING THENCE SOUTHEASTERLY ALONG THE NORTH LINE OF SAID RAPONI PARCEL 72.3 FEET; RUNNING THENCE SOUTHEASTERLY AT A SLIGHT ANGLE TO THE RIGHT ALONG THE NORTH LINE OF SAID RAPONI PARCEL 32

FEET TO A PIPE IN THE WEST LINE OF SOUTH AURORA STREET; RUNNING THENCE NORTH 36° 24' EAST ALONG THE WEST LINE OF SOUTH AURORA STREET 28 FEET TO A PIPE; RUNNING THENCE NORTH 64° 44' WEST ALONG THE SOUTHERLY LINE OF THE PARCEL CONVEYED BY THE NATIONAL CASH REGISTER COMPANY TO JOSEPH AND MARIE W. POKERWINSKI BY DEED DATED JANUARY 12, 1954 AND RECORDED JANUARY 26, 1954 IN LIBER 365 OF DEEDS AT PAGE 165,101 FEET TO THE SOUTHWESTERLY CORNER OF SAID POKERWINSKI PARCEL; RUNNING THENCE WESTERLY ABOUT 40 FEET TO A POINT IN THE NORTHERLY LINE OF THE ABOVE DESCRIBED PARCEL (THE 138 FOOT COURSE); RUNNING THENCE SOUTHEASTERLY ALONG SAID NORTH LINE 35 FEET TO PIPE A, AND

LOT NO. 26 AS LAID OUT ON A MAP OF SOUTH HILL LANDS OF S.B. AND E.T. TURNER, MADE BY KIRK P. CRANDALL, DATED MAY, 1905, AND FILED IN THE TOMPKINS COUNTY CLERK'S OFFICE ON AUGUST 31, 1906, AND

ALSO, ALL THAT TRACT OR PARCEL OF LAND SITUATE IN THE TOWN AND CITY OF ITHACA, COUNTY OF TOMPKINS AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE PRESENT CENTER LINE OF STONE QUARRY ROAD (ONCE KNOWN AS TEERS ROAD), SAID POINT OF BEGINNING BEING THE INTERSECTION OF THE PRESENT CENTER LINE OF STONE QUARRY ROAD AND THE NORTHERLY RIGHT OF WAY LINE OF LANDS OF LEHIGH VALLEY RAILROAD (FORMERLY THE DELAWARE, LACKAWANNA AND WESTERN RAILROAD), SAID POINT OF BEGINNING ALSO BEING LOCATED THIRTY-THREE (33) FEET NORTHERLY FROM THE CENTER LINE STATIONS THIRTEEN THOUSAND SIX HUNDRED FORTY-FOUR PLUS NINETY FOUR (13644 + 94) ± AS SHOWN ON MAP ENTITLED "RIGHT OF WAY AND TRACK MAP - ITHACA BRANCH - ITHACA YARD TRACKS - LEHIGH VALLEY R.R. COMPANY", DATED DECEMBER 6, 1956.

RUNNING THENCE (1) ALONG THE NORTHERLY RIGHT OF WAY LINE OF SAID RAILROAD NORTH 67° 52' 50" EAST FIFTY-SIX AND FIFTY-SEVEN HUNDREDTHS (56.57) FEET TO A PIPE, SAID PIPE MARKING THE INTERSECTION OF THE NORTHERLY RIGHT OF WAY LINE OF SAID RAILROAD AND THE EASTERLY HIGHWAY LINE OF STONE QUARRY ROAD;

RUNNING THENCE (2) ON A CURVE TO THE LEFT ALONG THE LANDS REPUTEDLY OF HOLLISTER A DISTANCE OF TWO HUNDRED SIXTY-SEVEN AND FIFTY HUNDREDTHS (267.50) FEET TO A CONCRETE MONUMENT, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF NORTH 63° 32' 37" EAST TWO HUNDRED SIXTY-SEVEN AND TWENTYFOUR HUNDREDTHS (267.24) FEET;

RUNNING THENCE (3) NORTH 60° 08' 00" EAST ALONG THE REMAINS OF AN OLD FENCE LINE AND CONTINUING ALONG THE LANDS REPUTEDLY OF HOLLISTER, RUNSEY, AND ROEDEL, A TOTAL DISTANCE OF SEVEN HUNDRED FORTY-THREE AND FORTY-NINE HUNDREDTHS (743.49) FEET TO A CONCRETE MONUMENT;

RUNNING THENCE (4) ON A CURVE TO THE LEFT ALONG LANDS REPUTEDLY OF ROEDEL, LUCENTE, WHITING, AND O'NEIL A DISTANCE OF FOUR HUNDRED SIXTY-TWO AND FIFTY-THREE HUNDREDTHS (462.53) FEET, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF NORTH 56° 03' 51" EAST FOUR HUNDRED SIXTY-TWO AND FOURTEEN HUNDREDTHS (462.14) FEET;

RUNNING THENCE (5) ON A CURVE TO THE LEFT AND ALONG THE LANDS REPUTEDLY OF O'NEIL AND CONSOLIDATED GAS SUPPLY CORPORATION A TOTAL DISTANCE OF SIX HUNDRED FIFTEEN AND SIXTY-FOUR HUNDREDTHS (615.64) FEET TO A CONCRETE MONUMENT, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF NORTH 48° 54' 32" EAST SIX HUNDRED FIFTEEN AND THIRTY-THREE HUNDREDTHS (615.33) FEET;

RUNNING THENCE (6) NORTH 45° 43' 49" EAST ALONG LANDS REPUTEDLY OF CONSOLIDATED GAS SUPPLY CORPORATION, NEW YORK STATE NATURAL GAS CORPORATION, BORG-WARNER CORPORATION AND NEW YORK STATE ELECTRIC AND GAS CORPORATION A TOTAL DISTANCE OF ONE THOUSAND TWO HUNDRED FOUR AND SIXTY-FIVE HUNDREDTHS (1204.65) FEET TO A POINT;

RUNNING THENCE (7) ON A CURVE TO THE RIGHT ALONG LANDS REPUTEDLY OF NEW YORK STATE ELECTRIC

AND GAS CORPORATION AND BORG-WARNER CORPORATION A TOTAL DISTANCE OF FOUR HUNDRED NINETY-FOUR AND ONE HUNDREDTHS (494.01) FEET TO A POINT, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF NORTH 52° 15' 05" EAST FOUR HUNDRED NINETY-TWO AND NINETY-SIX HUNDREDTHS (492.96) FEET;

RUNNING THENCE (8) NORTH 58° 44' 17" EAST ALONG THE NORTHERLY RIGHT OF WAY LINE OF SAID RAILROAD AND ALONG LANDS REPUTEDLY OF BORG-WARNER CORP. FOUR HUNDRED THIRTY-SEVEN AND NINETY-ONE HUNDREDTHS (437.91) FEET TO A PIPE, SAID PIPE MARKING THE INTERSECTION OF THE RAILROAD RIGHT OF WAY AND THE EAST STREET LINE OF TURNER PLACE, THENCE CONTINUING ON SAID COURSE ONE HUNDRED SIXTY-ONE AND EIGHT TENTHS (161.8) FEET TO A PIPE, SAID LINE BEING ALONG PREMISES REPUTEDLY OF ANDREWS, AND SAID PIPE MARKING THE INTERSECTION OF THE RAILROAD RIGHT OF WAY AND THE SOUTH LINE OF FOUNTAIN STREET (AN UNOPENED STREET); THENCE CONTINUING ALONG SAID COURSE EIGHTY AND TWO TENTHS (80.2) FEET TO A PIPE MARKING THE INTERSECTION OF THE RAILROAD RIGHT OF WAY LINE AND THE NORTHERLY LINE OF FOUNTAIN STREET;

RUNNING THENCE (9) SOUTH 89° 17' 06" EAST ALONG THE NORTHERLY LINE OF FOUNTAIN STREET A DISTANCE OF SEVEN AND SIXTY HUNDREDTHS (7.60) FEET TO A PIPE, SAID PIPE MARKING THE SOUTHWEST CORNER OF LANDS CONVEYED TO THE CAYUGA AND SUSQUEHANNA RAILROAD BY GEORGE TALMAN (DEEDS BOOK 63, PAGE 18);

RUNNING THENCE (10) NORTH 08° 33' 52" EAST ALONG THE WEST LINE OF LANDS CONVEYED BY TALMAN A DISTANCE OF SEVEN AND NO HUNDREDTHS (7.00) FEET TO A PIPE, SAID PIPE MARKING THE INTERSECTION OF THE NORTHERLY LINE OF THE RAILROAD RIGHT OF WAY AND THE WEST LINE OF TALMAN, SAID PIPE ALSO MARKING THE SOUTHWEST CORNER OF LANDS REPUTEDLY OF VARAK;

RUNNING THENCE (11) NORTH 62° 27' 22" EAST ALONG THE RAILROAD RIGHT OF WAY THIRTEEN AND FORTY-FOUR HUNDREDTHS (13.44) FEET TO A PIPE;

RUNNING THENCE (12) ON A CURVE TO THE RIGHT, ALONG THE LANDS REPUTEDLY OF VARAK, LEDGER AND SNOWDEN, A DISTANCE OF ONE HUNDRED SIXTY-SEVEN AND TEN HUNDREDTHS (167.10) FEET TO A CONCRETE MONUMENT, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF NORTH 61° 22' 01" EAST, ONE HUNDRED SIXTY-SEVEN AND FOUR HUNDREDTHS (167.04) FEET;

RUNNING THENCE (13) ON A CURVE TO THE RIGHT, ALONG THE LANDS REPUTEDLY OF SNOWDEN, CHACONA, HEAVNER AND STERLING, A DISTANCE OF ONE HUNDRED THIRTY-NINE AND EIGHTEEN HUNDREDTHS (139.18) FEET TO A POINT, SAID POINT HAVING A CHORD BEARING AND DISTANCE OF NORTH 66° 44' 49" EAST, ONE HUNDRED THIRTY-NINE AND EIGHTEEN HUNDREDTHS (139.18) FEET;

RUNNING THENCE (14) ON A CURVE TO THE RIGHT, ALONG THE LANDS REPUTEDLY OF STERLING, A DISTANCE OF FORTY-SIX AND EIGHT HUNDREDTHS (46.08) FEET TO A CONCRETE MONUMENT LOCATED IN THE WESTERLY STREET LINE OF SOUTH AURORA STREET, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF NORTH 70° 13' 23 " EAST, FORTY-SIX AND SIX HUNDREDTHS (46.06) FEET;

RUNNING THENCE (15) SOUTH 05° 42' 23" WEST ALONG THE WESTERLY STREET LINE OF SOUTH AURORA STREET A DISTANCE OF SEVENTY-TWO AND FORTY-TWO HUNDREDTHS (72.42) FEET TO A PIPE, SAID PIPE MARKING THE SOUTHERLY RAILROAD RIGHT OF WAY;

RUNNING THENCE (16) ON A CURVE TO THE LEFT A DISTANCE OF SEVEN AND FIFTY-EIGHT HUNDREDTHS (7.58) FEET TO A PIPE, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF SOUTH 68° 35' 49" WEST, SEVEN AND FIFTY-EIGHT HUNDREDTHS (7.58) FEET;

RUNNING THENCE (17) ON A CURVE TO THE LEFT, PASSING THROU A CONCRETE MONUMENT AT TWO HUNDRED FIFTY-FOUR AND FIFTY-FOUR HUNDREDTHS (254.54) FEET ALONG THE PREMISES REPUTEDLY OF MARSDEN A TOTAL DISTANCE OF THREE HUNDRED AND FORTY HUNDREDTHS (300.40) FEET TO A POINT, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF SOUTH SIXTY-THREE DEGREES FIFTY-ONE MINUTES SEVENTEEN SECONDS WEST (S 63° 51' 17" W), THREE HUNDRED (300) FEET;

RUNNING THENCE (18) SOUTH FIFTY-EIGHT DEGREES FORTY-FOUR MINUTES SEVENTEEN SECONDS WEST (S 58° 44' 17" W) A DISTANCE OF SEVEN HUNDRED FOUR AND NINE HUNDREDTHS (704.09) FEET TO A POINT;

RUNNING THENCE (19) ON A CURVE TO THE LEFT A DISTANCE OF FOUR HUNDRED SEVENTY-NINE AND TEN HUNDREDTHS (479.10) FEET TO A POINT, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF SOUTH FIFTY-TWO DEGREES FIFTEEN MINUTES SIX SECONDS WEST (S 52° 15' 06" W) A DISTANCE OF FOUR HUNDRED SEVENTY-EIGHT AND FIVE HUNDREDTHS (478.05) FEET;

RUNNING THENCE (20) SOUTH FORTY-FIVE DEGREES FORTY-SIX MINUTES FIFTY SECOND WEST (S 45° 46' 50" W) A DISTANCE OF ONE THOUSAND TWO HUNDRED FOUR AND SIXTY-ONE HUNDREDTHS (1,204.61) FEET TO A CONCRETE MONUMENT;

RUNNING THENCE (21) ON A CURVE TO THE RIGHT A DISTANCE OF SIX HUNDRED TWENTY-TWO AND EIGHTY-FOUR HUNDREDTHS (622.84) FEET TO A CONCRETE MONUMENT, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF SOUTH FORTY-EIGHT DEGREES FORTY-EIGHT MINUTES FIFTY-ONE SECOND WEST (S 48° 48' 51" W), SIX HUNDRED TWENTY-TWO AND FIFTY-THREE HUNDREDTHS (622.53) FEET;

RUNNING THENCE (22) ON A CURVE TO THE RIGHT A DISTANCE OF FOUR HUNDRED SEVENTY-ONE AND EIGHTY-NINE HUNDREDTHS (471.89) FEET TO A CONCRETE MONUMENT, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF SOUTH FIFTY-SIX DEGREES SEVEN MINUTES FOUR SECONDS WEST (S 56° 07' 04" W), FOUR HUNDRED SEVENTY-ONE AND ONE HUNDREDTHS (471.01) FEET;

RUNNING THENCE (23) SOUTH SIXTY DEGREES SEVEN MINUTES THIRTY-SIX SECONDS WEST (S 60° 07' 36" W) ALONG THE LANDS REPUTEDLY OF BORG-WARNER AND BENJAMIN A TOTAL DISTANCE OF SEVEN HUNDRED FORTY-TWO AND NINETY HUNDREDTHS (742.90) FEET TO A CONCRETE MONUMENT;

RUNNING THENCE (24) ON A CURVE TO THE RIGHT AND ALONG THE LANDS REPUTEDLY OF BENJAMIN A DISTANCE OF THREE HUNDRED AND TWENTY-TWO HUNDREDTHS (300.22) FEET TO A CONCRETE MONUMENT, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF SOUTH SIXTY-FOUR DEGREES SEVENTEEN MINUTES FIFTY-SEVEN SECONDS WEST (S 64° 17' 57" W) TWO HUNDRED NINETY-NINE AND NINETY-SIX HUNDREDTHS (299.96) FEET;

RUNNING THENCE (25) SOUTH SIXTY-SEVEN DEGREES FIFTY-TWO MINUTES FIFTY SECONDS WEST (S 67° 52' 50" W) ALONG THE LANDS REPUTEDLY OF FARRELL, PASSING THROUGH A PIPE AT SEVENTY-THREE AND FORTY-FOUR HUNDREDTHS (73.44) FEET, SAID PIPE BEING NORTH SIXTY-SEVEN DEGREES FIFTY-TWO MINUTES FIFTY SECONDS EAST (N 67° 52' 50" E) TEN (10) FEET FROM THE INTERSECTION OF THE SOUTHERLY RAILROAD RIGHT OF WAY AND THE EASTERLY HIGHWAY LINE OF STONE QUARRY ROAD, A TOTAL DISTANCE OF ONE HUNDRED SEVENTY-THREE AND NINETY-FOUR HUNDREDTHS (173.94) FEET TO THE PRESENT CENTER LINE OF STONE QUARRY ROAD;

RUNNING THENCE (26) NORTHERLY ALONG THE PRESENT CENTER LINE OF STONE QUARRY ROAD THE FOLLOWING COURSES: NORTH FIFTY-FIVE DEGREES FORTY-NINE MINUTES FORTY-TWO SECONDS EAST (N 55° 49' 42" E) SIXTY AND FIFTY-ONE HUNDREDTHS (60.51) FEET; NORTH THIRTY EIGHT DEGREES THREE MINUTES NINETEEN SECOND EAST (N 38° 03' 19" E) FIFTY-TWO AND SIXTY-NINE HUNDREDTHS (52.69) FEET; NORTH THIRTY-THREE DEGREES TWENTY-FIVE MINUTES THIRTY-EIGHT SECONDS EAST (N 33° 25' 38" E) FORTY-THREE AND SIXTY-SIX HUNDREDTHS (43.66) FEET TO THE POINT OR PLACE OF BEGINNING.

ALSO, ALL THAT TRACT OR PARCEL OF LAND SITUATE IN THE CITY OF ITHACA, COUNTY OF TOMPKINS, STATE OF NEW YORK, AND MORE PARTICULARLY BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE WEST LINE OF SOUTH AURORA STREET AT ITS INTERSECTION WITH THE SOUTHERLY LINE OF THE RIGHT OF WAY OF THE FORMER LEHIGH VALLEY RAILROAD, NOW OWNED BY BORG WARNER CORPORATION (SEE LIBER 556 OF DEEDS AT PAGE 1081); THENCE SOUTHERLY ALONG THE WEST LINE OF SOUTH AURORA STREET 152.5 FEET, MORE OR LESS, TO OTHER LANDS OF BORG WARNER CORPORATION; THENCE WESTERLY ALONG A NORTHERLY LINE OF SAID LANDS OF BORG WARNER

CORPORATION 245 FEET, MORE OR LESS, TO THE SOUTHERLY LINE OF SAID RAILROAD RIGHT OF WAY; THENCE NORTHEASTERLY ALONG THE SAID SOUTHERLY LINE OF SAID RAILROAD RIGHT OF WAY TO THE POINT OR PLACE OF BEGINNING.

PARCEL 2

ALL THAT TRACT OR PARCEL OF LAND SITUATE IN THE CITY OF ITHACA, TOMPKINS COUNTY, NEW YORK, SHOWN ON A SURVEY MAP ENTITLED "BOUNDARY AND TOPOGRAPHIC MAP, NATIONAL CASH REGISTER CO. PROPERTY ON SOUTH AURORA ST., CITY OF ITHACA, TOMPKINS CO., N.Y.", BY THOMAS G. MILLER, ENGINEER AND SURVEYOR, ITHACA, NEW YORK, DATED FEBRUARY 7, 1974, REVISED OCTOBER 14, 1976, A COPY OF WHICH WAS FILED IN THE TOMPKINS COUNTY CLERK'S OFFICE ON FEBRUARY 23, 1977 IN ENVELOPE 144, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A PIPE SET IN THE WESTERLY LINE OF SOUTH AURORA STREET (AT THE WESTERLY EDGE OF THE EXISTING CONCRETE SIDEWALK), SAID PIPE BEING A CHORD DISTANCE OF 114.6 FEET SOUTHERLY ALONG THE WEST LINE OF SOUTH AURORA STREET FROM AN IRON PIPE MARKING THE NORTHEAST CORNER OF PREMISES OF BORGWARNER CORPORATION (SAID LAST MENTIONED PIPE ALSO MARKING THE SOUTHEAST CORNER OF PREMISES DEEDED TO SARAH H. MARSDEN AT 285 DEEDS, PAGE 473);

RUNNING THENCE THE FOLLOWING COURSES AND DISTANCES (MERIDIAN 1947):

1. NORTH 83° 02' WEST A DISTANCE OF 190.5 FEET TO AN IRON PIPE;
 2. SOUTH 62° 38' WEST A DISTANCE OF 120.2 FEET TO AN IRON PIPE;
 3. NORTH 72° 48' WEST A DISTANCE OF 59.6 FEET TO AN IRON PIPE;
 4. NORTH 46° 07' WEST A DISTANCE OF 45.0 FEET TO A NAIL SET;
 5. SOUTH 47° 00' WEST A DISTANCE OF 99.0 FEET TO A FOUR INCH DIAMETER GALVANIZED IRON GATE POST;
 6. SOUTH 38° 55' WEST A DISTANCE OF 172.3 FEET TO AN IRON PIN (SAID IRON PIN BEING 15.5 FEET FROM THE NORTHWESTERLY FACE OF THE NATIONAL CASH REGISTER BUILDING);
 7. SOUTH 37° 08' WEST A DISTANCE OF 183.4 FEET TO AN IRON PIPE (SAID PIPE BEING 4.55 FEET FROM THE NORTHWESTERLY FACE OF THE NATIONAL CASH REGISTER BUILDING);
 8. SOUTH 04° 00' EAST ALONG THE WESTERLY FACE OF A CONCRETE WALL A DISTANCE OF 70.00 FEET TO A POINT;
 9. THENCE ON A CURVE TO THE RIGHT HAVING A CHORD BEARING OF SOUTH 27° 34' WEST A CHORD DISTANCE OF 60 FEET AND MIDDLE ORDINATE DISTANCE OF 6 FEET TO A POINT;
 10. SOUTH 38° 30' EAST A DISTANCE OF 95 FEET TO A POINT ON AN EXISTING FENCE LINE;
 11. SOUTH 31° 06' EAST IN PART ALONG SAID FENCE LINE A DISTANCE OF 137.4 FEET TO AN IRON PIPE AT THE NORTHWESTERLY CORNER OF A BLOCK WALL, SAID PIPE MARKING THE NORTHWESTERLY CORNER OF PREMISES REPUTEDLY OF RAPONI.
- THE ABOVE COURSES AND DISTANCES ALL BEING ALONG THE SOUTHERLY AND EASTERLY BOUNDARY OF LANDS OF BORGWARNER CORPORATION;
12. SOUTH 73° 35' EAST ALONG THE NORTHERLY LINE OF SAID RAPONI A DISTANCE OF 72.3 FEET TO AN IRON PIN;

13. SOUTH 55° 48' EAST ALONG THE NORTHERLY LINE OF SAID RAPONI A DISTANCE OF 32.0 FEET TO AN IRON PIN AT THE WESTERLY EDGE OF A CONCRETE WALK AND THE WESTERLY LINE OF SOUTH AURORA STREET;

14. NORTH 36° 24' EAST ALONG THE WESTERLY LINE OF SOUTH AURORA STREET A DISTANCE OF 28.0 FEET TO A POINT MARKING THE SOUTHEAST CORNER OF PREMISES OF POKERWINSKI (DEED BOOK 365 AT PAGE 165), SAID POINT BEING 1.4 FEET NORTHWEST OF AN EXISTING IRON PIN;

15. NORTH 64° 44' WEST ALONG THE SOUTHERLY LINE OF SAID POKERWINSKI A DISTANCE OF 101.0 FEET FROM THE SAID WESTERLY LINE OF SOUTH AURORA STREET TO AN IRON PIPE AT THE SOUTHWESTERLY CORNER OF SAID POKERWINSKI;

16. NORTH 36° 24' EAST ALONG THE NORTHWESTERLY LINE OF PREMISES OF POKERWINSKI, PEARSON, STANLEY, DYER AND HOOVER, A TOTAL DISTANCE OF 413 FEET TO AN IRON FENCE POST AT THE MOST NORTHERLY CORNER OF SAID HOOVER PREMISES;

17. SOUTH 53° 36' EAST ALONG THE NORTHEASTERLY LINE OF HOOVER A DISTANCE OF 100 FEET TO AN IRON PIPE AT THE WEST EDGE OF THE EXISTING CONCRETE WALK AND THE WESTERLY LINE OF SOUTH AURORA STREET;

18. THENCE NORTHWESTERLY ALONG THE WESTERLY LINE OF SOUTH AURORA STREET AS MARKED BY THE WESTERLY EDGE OF THE EXISTING CONCRETE SIDEWALK AS IT CURVES TO THE LEFT A DISTANCE OF 411.6 FEET TO THE POINT OR PLACE OF BEGINNING.

EXCEPTING PREMISES APPROPRIATED BY THE PEOPLE OF THE STATE OF NEW YORK BY APPROPRIATION RECORDED MAY 10, 1966 IN LIBER 462 OF DEEDS, PAGE 564.

Schedule B

NCR Sewer Line Area

(see attached)

RICHARD M. RYBINSKI, L.S.

8236 Indian Hill Road, ~ Manlius, NY 13104

Phone (315)682-4852 ~ Fax (315)682-4852 ~ Email rmrls@twcny.rr.com

Legal Description:
Emerson Power Transmission Corporation
80 feet NCR AND Ithaca College
Sewer Line Area Easements
Within the Unrestricted Area
Ithaca, NY

80 feet Easement NCR Sewer Line Area
Main Sanitary Sewer Trunk

An 80 feet easement and right of way centered on the existing 20' sanitary sewer right of way recorded in the Tompkins County Clerk's Office in Book of Deeds 395 and Page 489 across and under its premises located on Military Lot 85 in the Town of Ithaca, County of Tompkins and State of New York being a portion of lands of Emerson Power Transmission Corporation recorded in the Tompkins County Clerk's Office in Book of Deeds 2014 and Page 14695 known as the 34.336 acres more or less parcel shown on a map titled "NCR and Ithaca College Sewer Line Areas through the Unrestricted Lands of Emerson Power Transmission Corp." prepared by Richard M. Rybinski, L.S. dated November 26, 2010 and revised to show the NCR and Ithaca College Sewer Line Areas dated August 23, 2018. A reduced-sized copy of which is attached hereto and made a part hereof.

The centerline of the easement intended to be conveyed herein is more particularly described as follows: beginning at a point on the south line of lands of said Emerson Transmission Corp., said point being S 87°29'58" W and a distance of 30.64' from an iron pipe at the southeast corner of lands of said Emerson, said point also being N 15°32'20" E and a distance of 3.70' from sanitary manhole MH-12 on the lands of South Hill Business Campus, LLC recorded in the Tompkins County Clerk's Office in Book of Deeds 46586 and Page 9001; thence N 15°32'20" E a distance of 964.13' to manhole MH-7; thence N 35°27'06" E a distance of 308.59' to a point on a concrete raceway and a point on the boundary line of the said Unrestricted Area as shown on said map, said point being S 35°27'06" W a distance of 167.42' from manhole MH-6 and is the end point of the said 80 feet easement.

The right of way hereby granted is for a width of 40 feet on each side of the said existing center line of the sanitary sewer right of way with a total width of 80 feet containing 2.260 acres more or less.

Subject to easements, covenants and restrictions of record as the same may now be in force and effect. Bearings are related to NAD83 CNY Zone.

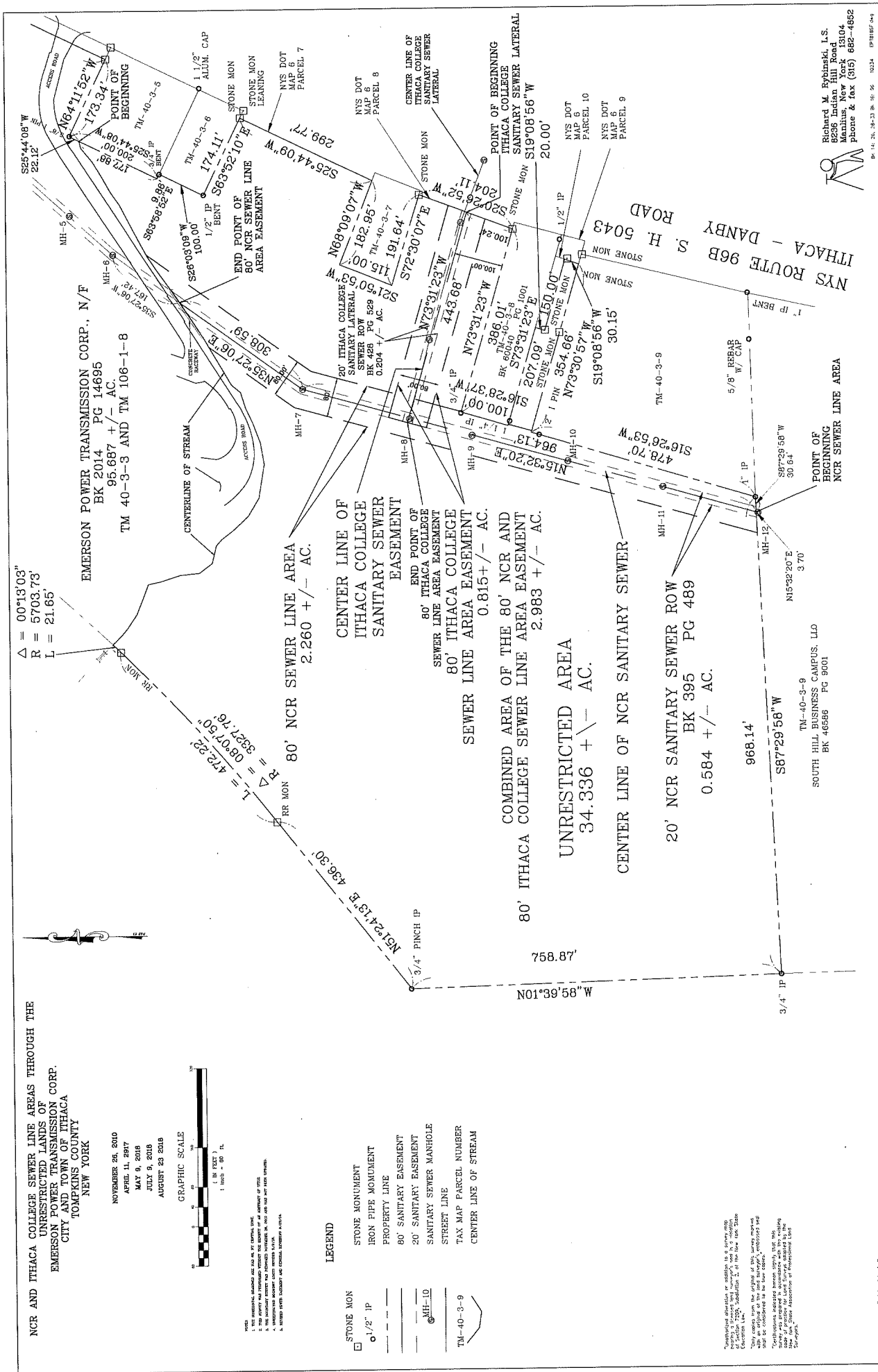
80 Feet Easement Ithaca College Sewer Line Lateral Area Lateral Sanitary Sewer Trunk

An 80 feet easement and right of way centered on the existing 20' Ithaca College Lateral Sanitary Sewer right of way recorded in the Tompkins County Clerk's Office in Book of Deeds 428 and Page 529 across and under its premises located in the said Unrestricted Area of the said lands of Emerson Power Transmission Corp., the location of such 80 feet Lateral Area easement as shown on a map titled ""NCR and Ithaca College Sewer Line Areas through the Unrestricted Lands of Emerson Power Transmission Corp." prepared by Richard M. Rybinski, L.S. dated November 26, 2010 and revised to show the NCR and Ithaca College Sewer Line Areas dated August 23, 2018. A reduced-sized copy of which is attached hereto and made a part hereof.

The centerline of the easement intended to be conveyed herein is more particularly described as follows: beginning at a point on the northwesterly street line of NYS Route 96B (Ithaca – Danby Road), said point N 20°26'52" E a distance of 100.24' from the southwest corner of New York State Department of Transportation Map No. 6 Parcel 8 and also being a point on the northerly line of Town of Ithaca Tax Map Parcel 40-3-8 as recorded in Tompkins County Clerk's Office in Book 60040 Page 1001 marked by a stone monument; thence N 73°31'23" W parallel with and northerly 100' of the said north line of Tax Map Parcel 4-3-8 a distance of 443.68' through lands of said Emerson Transmission Corporation, now or formerly as recorded in Tompkins County Clerk's Office in Book 2014 Page 14695 to the westerly line of the NCR 20 feet sanitary sewer easement as recorded in Tompkins County Clerk's Office in Book 395 Page 489 and is the end point of the said 80 feet easement.

The right of way hereby granted is for a width of 40 feet on each side of the existing center line of the said sanitary sewer right of way with a total width of 80 feet containing 0.815 acres more or less.

Subject to easements, covenants and restrictions of record as the same may now be in force and effect. Bearings are related to NAD83 CNY Zone.



APPENDIX

D ANNUAL SITE-WIDE INSPECTION FORMS

ANNUAL SITE-WIDE INSPECTION FORM

Site Name:	Former Emerson Power Transmission Facility	Site No.:	755010
Address	620 South Aurora Street	City:	Ithaca
County:	Tompkins	State:	NY
		Zip:	14850

Inspector's Contact Information

Name:	David Rykaczewski	Affiliation:	WSP
E-mail	dave.rykaczewski@wsp.com	Phone:	412-375-0282
Address:	11 Stanwix St., Suite 950	City:	Pittsburgh
		State:	PA
		Zip:	15222

Inspection Information

Type: ☒ Site-Wide Inspection (routine) ☐ Non-routine/Emergency

Date: April 11, 2023 **Arrival Time:** 08:00 **Departure Time:** 15:30

Weather: Sunny, low 55 / high 70

Event Description (if non-routine or emergency):

SECTION 1 – INSTITUTIONAL CONTROLS

Institutional Controls (ICs) in the Record of Decision Amendment (AROD) and Interim Site Management Plan (SMP) include:

- The property may be used for: restricted residential; commercial, and/or industrial uses as shown on Figure 10 of the Interim SMP
- All Engineering Controls (ECs) must be operated and maintained as specified in this Interim SMP;
- All ECs must be inspected at a frequency and in a manner defined in the Interim SMP;
- The use of groundwater underlying the property is restricted as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or the Tompkins County Department of Health;
- Groundwater and other environmental or public health monitoring must be performed as defined in this Interim SMP;
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in this Interim SMP;
- All future activities that will disturb remaining contaminated material must be conducted in accordance with this Interim SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this Interim SMP;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in this Interim SMP;
- Access to the Site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement;
- The potential for soil vapor intrusion (SVI) must be evaluated for any occupied buildings, existing or new, within the IC boundaries noted on Figure 8 of the Interim SMP, and any potential impacts that are identified must be monitored or mitigated;
- Vegetable gardens shall be performed in raised beds following approval of the NYSDEC. Farming on the Site is prohibited, unless indoors such as a hydroponic growing operation;
- Should a building foundation or building slab be removed in the future, a cover system will be placed in any areas where the upper two feet of exposed surface soil exceed the applicable SCOs in the restricted residential area of the Site, and the upper 1 foot of exposed soil exceeds the applicable SCO in the commercial and industrial areas of the Site;
- Complete and submit to the NYSDEC a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3); and

ANNUAL SITE-WIDE INSPECTION FORM

- An evaluation shall be performed to determine the need for further investigation and remediation should large scale redevelopment occur, if any of the existing structures are demolished, or if the subsurface is otherwise made accessible. If new areas of contamination are identified after demolition of existing structures and/or removal of building slabs, the nature and extent of contamination in such areas where access was previously limited or unavailable will be immediately and thoroughly investigated pursuant to either an amended Excavation Work Plan or another NYSDEC-approved work plan. Citizen Participation Plan activities will continue, as necessary, through this process. Any required remediation will be completed prior to or in association with redevelopment.
1. Is the property being used for purposes other than those allowed and where boundaries have been established? Yes ☐ No ☒
 2. Are all engineering controls (see next section) in operation and maintained? Yes ☒ No ☐
 3. Is the Site groundwater being used for any purpose other than remediation and monitoring? Yes ☐ No ☒
 4. Are restricted vegetable gardens or other farm activities present? Yes ☐ No ☒
 5. Is there evidence of building demolition, slab removal, soil excavation, or other land disturbance at the Site that were not addressed in accordance with the Interim SMP Appendix F - Excavation Work Plan? Yes ☐ No ☒
 6. Is there occupancy of existing buildings or new buildings constructed within the IC boundaries that were not evaluated for soil vapor intrusion and mitigation? Yes ☐ No ☒

If the answer to any of the above questions is yes, notify NYSDEC immediately and describe below:

SECTION 2 – ENGINEERING CONTROLS

A. Cap and Cover System

- a. Describe the general condition of the cap and cover system at the facility (See Interim SMP for locations of cap and cover system).

AOC 1 cap is performing as designed – no evidence of cracks in asphalt or openings in joints at the perimeter of the cap or at monitoring well surface mounts.
Asphalt cover is in place at AOCs 28, 32, 34
Riprap/Gravel cover is in place at AOCs 27, 28 (lower), 29, 32 (ditches), 35C, 35G
Soil cover and surface vegetation is in place at AOCs 28 (upper), 30, 31, 32, 34, 35A, 35D, 35H, 35K, 35L

- b. Were there any excavations or breaches of the cap and cover system during the reporting period? Yes ☐ No ☒

- i. If yes, please describe the excavation or breach :

- ii. Date of excavation or breach : / /

- iii. Was the NYSDEC notified? Yes ☐ No ☐

ANNUAL SITE-WIDE INSPECTION FORM

- c. Is there any damage to the cap and cover system that could compromise its effectiveness? Yes ☐ No ☒

i. If yes, please describe

- d. Were any openings or repair(s) made to the cap and cover system during the reporting period? Yes ☐ No ☒

i. If yes, please describe the openings/repair

ii. Was the NYSDEC notified? Yes ☐ No ☐

- e. Are there any visible cracks, fissures, erosion or other damage to the cap and cover system that could compromise its effectiveness? Yes ☐ No ☒

i. If yes, please describe

B. Dual Phase Extraction and Treatment System

- a. Describe the general condition of the dual phase extraction and treatment system.

System was operating and appeared to be good condition during the inspection

- b. Is the dual phase extraction and treatment system performing as designed and does it continue to be protective of human health and the environment? Yes ☒ No ☐

i. If no, please describe the deviation (s) :

- c. Is the dual phase extraction and treatment system being operated, maintained, and monitored in accordance with the Interim SMP? Yes ☒ No ☐

i. If no, please describe deviation(s):

- d. Is all paperwork associated with operation of the dual phase extraction and treatment system up to date?

Yes ☒ No ☐

ANNUAL SITE-WIDE INSPECTION FORM

i. If no, please describe deviation(s):

- C. Petroleum (NAPL) Recovery [Reserved – to be developed when petroleum recovery system installed]
- D. Sub-slab Depressurization System [Reserved – to be developed when sub-slab depressurization system installed]
- E. Re-route and Monitor Groundwater Seeps [Reserved – to be developed when re-route system installed]

SUMMARY OF GREEN REMEDIATION METRICS FOR SITE MANAGEMENT

Site Name:	Former Emerson Power Transmission Facility	Site No.:	755010		
Address	620 South Aurora Street	City:	Ithaca		
County:	Tompkins	State:	NY	Zip:	14850

Initial Report Period (Start Date of Period Covered by the Initial Report Submittal)

Start Date:	October 7, 2022	To:	December 31, 2022

Current Reporting Period

Period From:	January 1, 2023	To:	December 31, 2023

Preparer's Contact Information

Name:	David Rykaczewski	Affiliation:	WSP				
E-mail:	dave.rykaczewski@wsp.com	Phone:	412-375-0282				
Address:	11 Stanwix St., Suite 950	City:	Pittsburgh	State:	PA	Zip:	15222

I. Energy Usage: Quantify the amount of energy used directly on-site and the portion of that derived from renewable energy sources.

	Current Reporting Period	Total to Date
Fuel Type 1 (e.g. natural gas (cf))	0	0
Fuel Type 2 (e.g. fuel oil, propane (gals))	0	0
Electricity (kWh)	326,531	372,662
Of that Electric usage, provide quantity:		
Derived from renewable sources (e.g. solar, wind)	0	0
Other energy sources (e.g. geothermal, solar thermal (Btu))	0	0

Provide a description of all energy usage reduction programs for the site in the space provided on Page 3.

II. Solid Waste Generation: Quantify the management of solid waste generated on-site.

	Current Reporting Period (tons)	Total to Date (tons)
Total waste generated on-site		
OM&M generated waste	4.52	4.54
Of that total amount, provide quantity:		
Transported off-site to landfills	0.70	0.72
Transported off-site to other disposal facilities	3.82	3.82
Transported off-site for recycling/reuse	0	0
Reused on-site	0	0

Provide a description of any implemented waste reduction programs for the site in the space provided on Page 3.

SUMMARY OF GREEN REMEDIATION METRICS FOR SITE MANAGEMENT

III. Transportation/Shipping: Quantify the distances travelled for delivery of supplies, shipping of laboratory samples, and the removal of waste.

	Current Reporting Period (miles)	Total to Date (miles)
Standby Engineer/Contractor	720	900
Laboratory Courier/Delivery Service	0	0
Waste Removal/Hauling	5,818	6,453

Provide a description of all mileage reduction programs for the site in the space provided on Page 3. Include specifically any local vendor/services utilized that are within 50 miles of the site.

IV. Water Usage: Quantify the volume of water used on-site from various sources.

	Current Reporting Period (gal)	Total to Date (gal)
Total quantity of water used on-site	187,240	219,351
Of that total amount, provide quantity:		
Public potable water supply usage	2000	2500
Surface water usage	0	0
On-site groundwater usage (extracted groundwater for treatment)	185,240	216,851
Collected or diverted storm water usage (treated water discharge)	187,240	219,351

Provide a description of any implemented water consumption reduction programs for the site in the space provided on Page 3.

V. Land Use and Ecosystems: Quantify the amount of land and/or ecosystems disturbed and the area of land and/or ecosystems restored to a pre-development condition (i.e. Green Infrastructure).

	Current Reporting Period (acres)	Total to Date (acres)
Land disturbed	0	0
Land restored	0	0

Provide a description of any implemented land restoration/green infrastructure programs for the site in the space provided on Page 3.

SUMMARY OF GREEN REMEDIATION METRICS FOR SITE MANAGEMENT

Description of green remediation programs reported above

(Attach additional sheets if needed)

Energy Usage: None

Waste Generation: None

Transportation/Shipping: None

Water usage: None

Land Use and Ecosystems: None

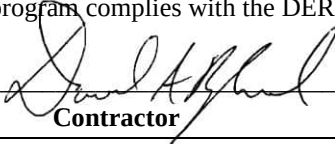
Other: None

CERTIFICATION BY CONTRACTOR

I, David Rykaczewski (Name), do hereby certify that I am a Professional Engineer (Title) of WSP USA Inc. (Contractor Name), which is responsible for the work documented on this form. According to my knowledge and belief, all of the information provided in this form is accurate and the site management program complies with the DER-10, DER-31, and CP-49 policies.

May 28, 2024

Date


Contractor

APPENDIX

E SPDES PERMIT EQUIVALENT



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Water, Bureau of Water Permits

625 Broadway, Albany, New York 12233

www.dec.ny.gov

**Emerson Electric Co.
Project Site Remediation
Wastewater Discharge SPDES Permit Equivalent**

DRAINAGE BASIN: **07 / 05**

DER Site No:

7-55-010

Effective Date:

August 1, 2022

Expiration Date:

July 31, 2027

Discharger Name and Address:

Emerson Electric Co.

ATTN: Steve Clarke

8000 W. Florissant Ave, Station 1963

(314) 553 1953

Contact Email Address: steve.clarke@emerson.com

is authorized to discharge from the facility described below:

Emerson Electric Co.

620 South Aurora St.

Ithaca, NY 14850

From the following outfall(s):

Outfall No.	Outfall Description	Location	Receiving Water	WIN *	Class
01A	Treated Remediation Wastewater	42°25'57.18"N 76°29'53.95"W	Tributary of Cayuga Lake	0-66-12-P296-75-6	C
001	Stormwater, Ground water seepage and treated remedial wastewater	42°25'56.03"N 76°29'54.85"W	Tributary of Cayuga Lake	0-66-12-P296-75-6	C
009	Stormwater and Groundwater Seepage	42°25'51.67"N 76°29'59.86"W	Tributary of Cayuga Lake	0-66-12-P296-75-6	C
011	Groundwater seepage	42°25'56.46"N 76°29'55.25"W	Tributary of Cayuga Lake	0-66-12-P296-75-6	C

* Water Index Number

The discharges from the treatment facility shall be limited and monitored by the operator as specified below:

Outfall No. and Parameter	CAS No.	Discharge Limitations		Units	Minimum Monitoring Requirements		FN
		Monthly Avg.	Daily Max		Measurement Frequency	Sample Type	
Outfall 01A - Treated Remediation Discharge							
Flow		Monitor	Monitor	GPD	Monthly	Totalizer	
pH (range)	NA	6.5 – 8.5		SU	Monthly	Grab	
Temperature	NA		Monitor	°F	Monthly	Grab	
Tetrachloroethylene	00127-18-4		0.001	mg/l	Monthly	Grab	
Trichloroethylene	-		0.01	mg/l	Monthly	Grab	
Sum of Dichlorobenzenes	-		0.01	mg/l	Monthly	Grab	
Bromoform	00075-25-2		0.01	mg/l	Monthly	Grab	
Chlorobenzene	00108-90-7		0.005	mg/l	Monthly	Grab	
Chlorodibromomethane	00124-48-1		0.01	mg/l	Monthly	Grab	
Chloroform	00067-66-3		0.01	mg/l	Monthly	Grab	
Cyanide, Free	-	5.2	22	ug/l	Monthly	Grab	1
Dichlorobromomethane	00075-27-4		0.01	mg/l	Monthly	Grab	

1,1 Dichloroethane	00075-34-3		0.01	mg/l	Monthly	Grab	
1,1 – Dichloroethylene	00075-35-4		0.01	mg/l	Monthly	Grab	
Methylene Chloride	00065-09-2		0.01	mg/l	Monthly	Grab	
1,1,2,2- Tetrachloroethane	00079-34-5		0.01	mg/l	Monthly	Grab	
Toluene	00108-88-3		0.05	mg/l	Monthly	Grab	
1,2-(trans)-Dichloroethylene	00156-60-5		0.01	mg/l	Monthly	Grab	
1.2-(cis)-Dichloroethylene	00156-59-2		0.01	mg/l	Monthly	Grab	
1,1,1-Trichloroethane	00071-55-6		0.01	mg/l	Monthly	Grab	
Xylenes, Total	00095-47-6 00108-38-3 00106-42-3		0.01	mg/l	Monthly	Grab	
Vinyl Chloride	00075-01-4		0.01	mg/l	Monthly	Grab	
Benzene	00071-43-2		0.001	mg/l	Monthly	Grab	

Outfall No. and Parameter	CAS No.	Discharge Limitations		Units	Minimum Monitoring Requirements		FN
		Monthly Avg.	Daily Max		Measurement Frequency	Sample Type	
Outfall 001 - Stormwater, Groundwater Seepage and Treated Groundwater							
Flow	NA		Monitor	GPD	Monthly	Estimate	
pH (range)	NA	6.5 – 8.5		SU	Monthly	Grab	
Total Barium	07440-39-3		Monitor	mg/l	Quarterly	Grab	
Total Lead	07439-92-1		7.4	ug/l	Monthly	Grab	
Mercury	07439-97-6		Monitor	ng/l	Quarterly	Grab	2
Tetrachloroethylene	00127-18-4		0.001	mg/l	Monthly	Grab	
Trichloroethylene	-		0.01	mg/l	Monthly	Grab	
Cyanide, Free		5.2	22	ug/l	Quarterly	Grab	1

Outfall No. and Parameter	CAS No.	Discharge Limitations		Units	Minimum Monitoring Requirements		FN
		Monthly Avg.	Daily Max		Measurement Frequency	Sample Type	
Outfall 009 – Stormwater and Groundwater Seepage							
Cyanide, Free	-	5.2	22	ug/l	Quarterly	Grab	1

Footnotes: (see on the next page)

1: Free Cyanide is the sum of HCN and CN, expressed as CN. The WQBEL of 5.2 ug/l Monthly Average and 22 ug/l Daily Max for Cyanide will become effective on August 1, 2025. An interim limit of Monitor Only shall apply from August 1, 2022, until July 31, 2025.

2. Mercury shall be analyzed using USEPA Method 1631

Schedule of Compliance for Cyanide: The permittee shall comply with the following schedule:

Outfall No.	Parameters	Compliance Action	Due Date
009	Cyanide	The permittee shall monitor for Free Cyanide at the frequency specified in the effluent limit tables. Following 2 years of monitoring, permittee shall submit a report summarizing free Cyanide trends and if the final effluent limits are exceeded, measures to be taken to meet final limits and a schedule to be made enforceable under this permit equivalent. The schedule to address free cyanide exceedances shall not exceed 18 months. The facility shall meet effluent discharge limitations for Cyanide.	August 1, 2022 September 30, 2024 November 1, 2025
011	Cyanide	The discharge from Outfall 011 shall be sampled for Free Cyanide. A sample shall be collected during the first discharge of each month from Outfall 011 until three (3) samples have been collected. Sampling results shall be submitted to the DER project engineer.	March 1, 2023

Additional Conditions:

1. Discharge is not authorized until such time as an engineering submission showing the method

of treatment is approved by the Department. The discharge rate may not exceed the effective or design treatment system capacity. A summary of the monthly monitoring data shall be submitted to the Department twenty-eight (28) days following the end of each monthly monitoring period. All monitoring data, engineering submissions and modification requests must be submitted to:

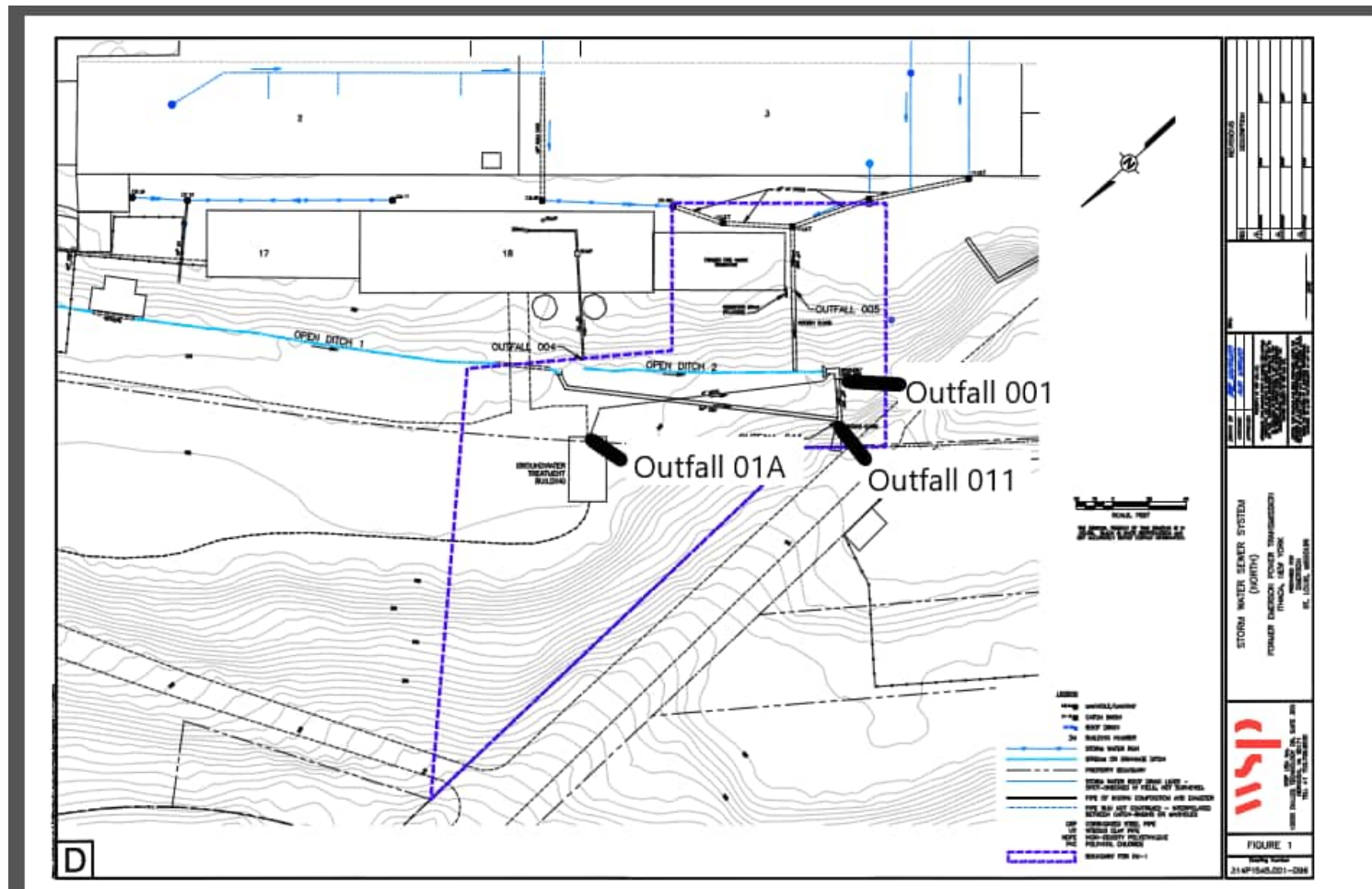
Karen A Cahill
Division of Environmental Remediation
NYSDEC R7
615 Erie Blvd West
Syracuse, NY 13204-2400
Tel: 315-426-7432
Email: karen.cahill@dec.ny.gov

2. Samples and measurements, to comply with the monitoring requirements specified above, must be taken from the effluent side of the final treatment unit prior to discharge to the receiving water body unless otherwise noted above.
3. Monitoring and analysis shall be conducted using sufficiently sensitive test procedures approved under 40 CFR Part 136 unless other test procedures have been specified in this permit equivalent.
4. Only site generated wastewater is authorized for treatment and discharge.
5. Authorization to discharge is valid only for the period noted above but may be renewed if appropriate. A request for renewal must be received 6 months prior to the expiration date to allow for a review of monitoring data and reassessment of monitoring requirements.
6. Any use of corrosion/scale inhibitors, biocidal-type compounds, or other water treatment chemicals used in the treatment process must be approved by the department prior to use.
7. This discharge and administration of this discharge must comply with the substantive requirements of 6NYCRR Part 750.

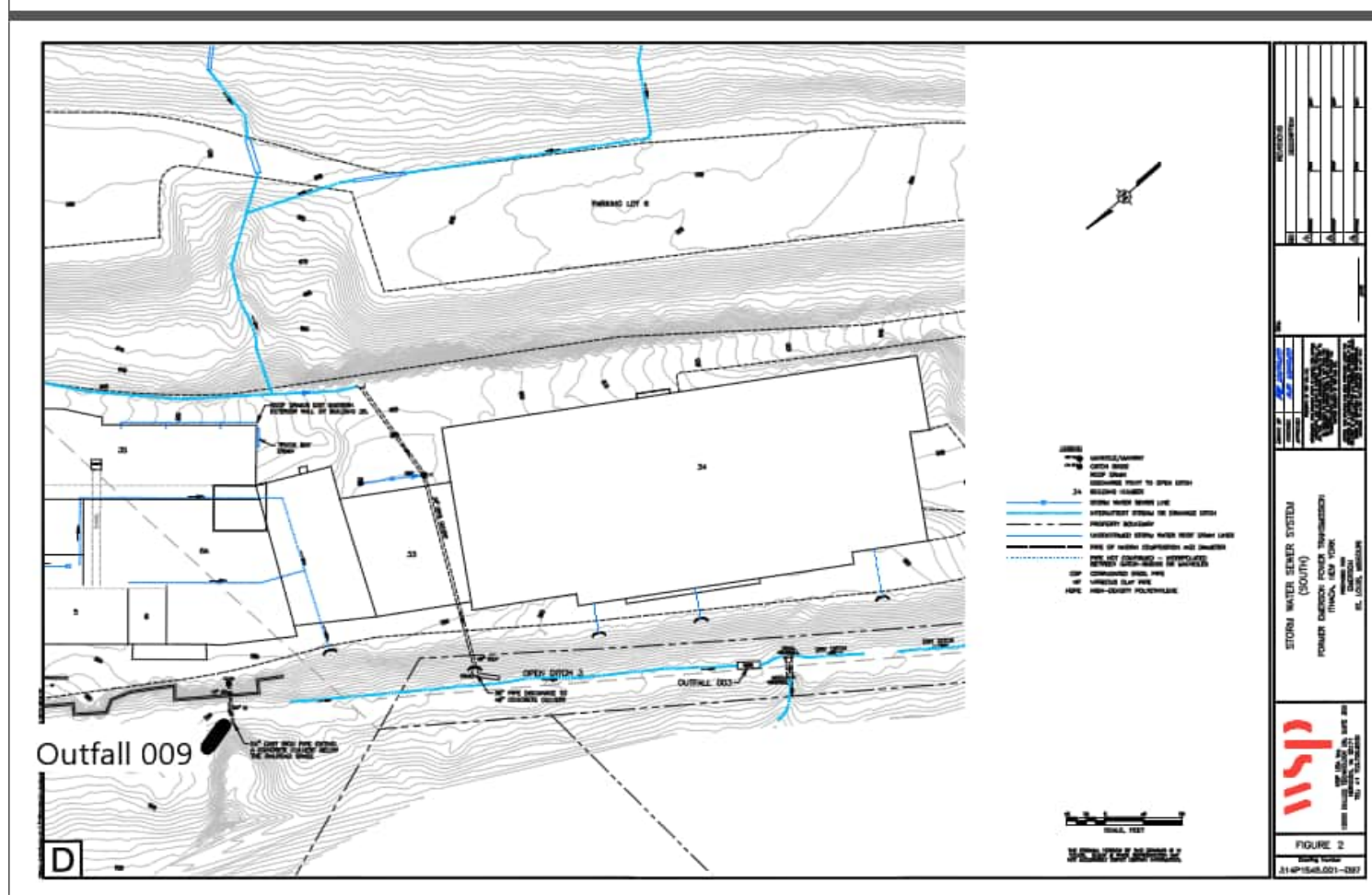
Site Name: Emerson Electric Co.
DER Site ID#: 7-55-010
Page 5 of 5 v1.2

MONITORING LOCATIONS:

Outfall 001 and 01A



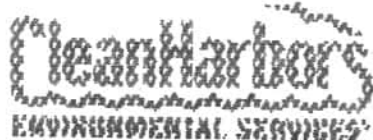
Site Name: Emerson Electric Co.
DER Site ID#: 7-55-010
Page 6 of 5 v1.2



APPENDIX

F WASTE DISPOSAL DOCUMENTATION

GENERATOR	UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD002228625	2. Page 1 of 1	3. Emergency Response Phone (800) 483-3718	4. Manifest Tracking Number 017862857 FLE						
	5. Generator's Name and Mailing Address Emersub 15 LLC 620 South Aurora Street 7000 East Genesee Street Bld D 2nd F Ithaca, NY 14850 Generator's Phone: (716) 880-1623 ATTN: Daniel Liwicki				Generator's Site Address (if different than mailing address) 620 South Aurora Street Ithaca, NY 14850							
	6. Transporter 1 Company Name Clean Harbors Environmental Services, Inc.				U.S. EPA ID Number MAD039322250							
	7. Transporter 2 Company Name				U.S. EPA ID Number							
	8. Designated Facility Name and Site Address Clean Harbors El Dorado LLC 309 American Circle El Dorado, AR 71730 Facility's Phone: (870) 883-7173				U.S. EPA ID Number ARD069748192							
	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
	x	1. RQ, NA3077, HAZARDOUS WASTE, SOLID, N.O.S., (TRICHLOROETHYLENE). 9. PG III (F001)			1 DM		450 P	F001				
		2.										
		3.										
		4.										
INT'L	14. Special Handling Instructions and Additional Information 1. CH1925147 ERG#171											
	15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
TRANSPORTER	Generator's/Officer's Printed/Typed Name NARE WINTON				Signature 		Month Day Year 2 6 23					
	16. International Shipments ☐ Import to U.S. ☐ Export from U.S.				Port of entry/exit: Date leaving U.S.:							
DESIGNATED FACILITY	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Blake Robison								Signature 		Month Day Year 2 6 23	
	Transporter 2 Printed/Typed Name								Signature		Month Day Year	
	18. Discrepancy											
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection											
	Manifest Reference Number:											
	18b. Alternate Facility (or Generator)								U.S. EPA ID Number			
	Facility's Phone:											
	18c. Signature of Alternate Facility (or Generator)								Month Day Year			
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
	1. H040		2.		3.		4.					
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a											
	Printed/Typed Name Stephane Matheny				Signature Stephane Matheny		Month Day Year 3 18 23					



Land Disposal Restriction
Notification Form

Page : 1 of 1

Printed Date :Feb 3, 2023

MANIFEST INFORMATION

Generator : Emersub 15 LLC
Address: 620 South Aurora Street
Ithaca, NY 14850

Manifest Tracking Info.

017862857FLE

EPA ID #: NYD002228625

Sales Order No: 2300479610

LINE ITEM INFORMATION

Line Item:	Page No:	Profile No:	Treatability Group:	LDR Disposal Category
1.	1	CH1925147	NON-WASTEWATER	2 (This is subject to LDR.)

EPA Waste Code

F001

EPA Waste SubCategory

NONE

LDR Chemical Data

Chemical	Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment
TRICHLOROETHYLENE	N	Y	N

Certification

Applies to
Manifest Line
Items

Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268.

1.

Waste analysis data, where available, is attached.

Signature :

[Handwritten Signature]

Print Name

NATE WINSTON

Title :

GEOLOGIST

Date :

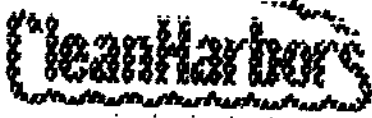
2/6/23

Generator acknowledges that no material change has occurred either in the characteristics or in the process generating the material.

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY D002228625		2. Page 1 of 1		3. Emergency Response Phone (800) 483-3718		4. Manifest Tracking Number 017862858 FLE			
5. Generator's Site Address 620 South Aurora Street 7000 East Genesee Street Bld D 2nd F Ithaca, NY 14850		Generator's Site Address (if different than mailing address) 620 South Aurora Street Ithaca, NY 14850									
6. Transporter 1 Company Name Clean Harbors Environmental Services, Inc.		Generator's Phone: (716) 866-1623		ATTN: Daniel Liwicki		U.S. EPA ID Number MAD039322250					
7. Transporter 2 Company Name						U.S. EPA ID Number					
8. Designated Facility Name and Site Address Spring Grove Resource Recovery Inc. 4879 Spring Grove Avenue Cincinnati, OH 45232		Facility's Phone: (513) 681-5738				U.S. EPA ID Number OH D000816629					
9a. HM		9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity		12. Unit Wt./Vol.		13. Waste Codes	
x		1. HA3082, HAZARDOUS WASTE, LIQUID, N.O.S., (F001, TRICHLOROETHENE, TETRACHLOROETHENE), 9. PG III		No. 16 Type DM		6,400		6,800 P		D039 D040 F001	
		2.								B	
		3.									
		4.									
14. Special Handling Instructions and Additional Information 1. CH1076171 E889171											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. Contract retained by generator confers agency of transportation efficiency, convenience, or safety.											
Generator's/Offor's Printed/Typed Name: NATE WINTER Signature: [Signature] Month: 12 Day: 16 Year: 23											
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____											
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: Blake Robison Signature: [Signature] Month: 2 Day: 6 Year: 23 Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____											
18. Discrepancy 18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection											
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number: _____											
18c. Signature of Alternate Facility (or Generator) _____ Month: _____ Day: _____ Year: _____											
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H141 2. _____ 3. _____ 4. _____											
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a. Printed/Typed Name: [Signature] Signature: [Signature] Month: 12 Day: 15 Year: 23											



Land Disposal Restriction
Notification Form

Page : 1 of 1

ENVIRONMENTAL SERVICES

Printed Date : Feb 3, 2023

MANIFEST INFORMATION

Generator : Emersub 15 LLC
Address: 620 South Aurora Street
Ithaca, NY 14850

Manifest Tracking Info.

017362858FLE

EPA ID #: NYD002228625

Sales Order No: 2300479610

LINE ITEM INFORMATION

Line Item:	Page No:	Profile No:	Treatability Group:	LDR Disposal Category
1.	1	CH1076171	WASTEWATER	2 (This is subject to LDR.)

EPA Waste Code

D039 D040 F001

EPA Waste SubCategory

NONE

LDR Chemical Data

Chemical	Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment
1,1,1-TRICHLOROETHANE	Y	Y	N
Tetrachloroethylene	Y	Y	N
TRICHLOROETHYLENE	Y	Y	N
VINYL CHLORIDE	Y	N	N

Certification

Applies to
Manifest Line
Items

Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268.

1.

Waste analysis data, where available, is attached.

Signature :

Print Name

Title :

Date :

NATE WINTER
2/6/23

Please print or type.

Form Approved OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYDC002226025	2. Page 1 of 1	3. Emergency Response Phone (800) 483-3715	4. Manifest Tracking Number 018628109 FLE		
5. Generator's Name and Mailing Address 620 South Aurora Street 700 East Genesee Street Bldg 2nd F Rochester, NY 14650 Generator's Phone: (716) 868-1620 ATTN: Daniel Ludwig				Generator's Site Address (if different than mailing address) 620 South Aurora Street Rochester, NY 14650			
6. Transporter 1 Company Name Clean Harbors Environmental Services, Inc.				U.S. EPA ID Number MAD069329250			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address Clean Harbors El Dorado LLC 309 American Circle El Dorado, AR 71730 Facility's Phone: (870) 863-7133				U.S. EPA ID Number ARD069149192			
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt/Vol	13. Waste Codes
			No.	Type			
	x	1. HAZ077, HAZARDOUS WASTE, SOLID, N.O.S., (TRICHLOROETHENE), S PG III	2	DM	150	P	X040 F001
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information 1. CH500503 EBG#171							
Contract retained by generator center's agency							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Officer's Printed/Typed Name: <u>NATE WINSTON</u> Signature: <u>[Signature]</u> Month: <u>7</u> Day: <u>6</u> Year: <u>23</u>							
INT'L	16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
	17. Transporter Acknowledgment of Receipt of Materials						
TRANSPORTER	Transporter 1 Printed/Typed Name: <u>Blake Robison</u> Signature: <u>[Signature]</u> Month: <u>7</u> Day: <u>10</u> Year: <u>23</u>						
	Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____						
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
	Manifest Reference Number: _____						
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number		
	Facility's Phone: _____						
	18c. Signature of Alternate Facility (or Generator) _____ Month: _____ Day: _____ Year: _____						
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
	1. <u>H040</u>	2. _____	3. _____	4. _____			
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
	Printed/Typed Name: <u>Jeannie Harris</u> Signature: <u>[Signature]</u> Month: <u>7</u> Day: <u>29</u> Year: <u>23</u>						

Malone, Debra

From: Malone, Debra
Sent: Sunday, July 23, 2023 10:06 AM
To: CH Support
Subject: LDR NEEDED

Please send LDR for the following manifest:

017868655FLE	S/O:	2303499961
018628109FLE	S/O:	2303371467

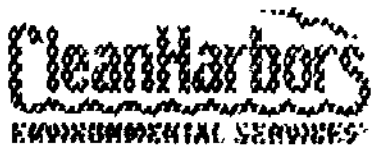
Thanks

Safety Starts with Me! Live it 3-6-5

Debra Malone
Receiving Coordinator
Clean Harbors Environmental Services
309 American Circle
EL Dordado AR 71730
(P)870-875-8169
(F)870-864-3648
EMAIL: malone.debra@cleanharbors.com



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD002228625	2. Page 1 of 1	3. Emergency Response Phone (800) 483-3718	4. Manifest Tracking Number 018628132 FLE							
5. Generator's Name and Mailing Address Emersub 15 LLC 620 South Aurora Street 7000 East Genesee Street Bld D 2nd F Ithaca, NY 14850 Generator's Phone: (716) 866-1623 ATTN: Daniel Liwicki				Generator's Site Address (if different than mailing address) 620 South Aurora Street Ithaca, NY 14850								
6. Transporter 1 Company Name Clean Harbors Environmental Services, Inc.				U.S. EPA ID Number MA D039322250								
7. Transporter 2 Company Name				U.S. EPA ID Number								
8. Designated Facility Name and Site Address Clean Harbors El Dorado LLC 309 American Circle El Dorado, AR 71730 Facility's Phone: (870) 863-7173				U.S. EPA ID Number ARD069748192								
9a. HM X	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) HA3077, HAZARDOUS WASTE, SOLID, N.O.S., (TRICHLOROETHENE), 9, PG III			10. Containers		11. Total Quantity 650	12. Unit P	13. Waste Codes 001				
				No.	Type							
				2	ON							
14. Special Handling Instructions and Additional Information 1. CH1499553 ESG#171												
Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf for purposes of transportation efficiency, convenience or safety.												
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.												
Generator's/Offor's Printed/Typed Name NATE WILSON				Signature <i>[Signature]</i>		Month 8			Day 2		Year 23	
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____												
17. Transporter Acknowledgment of Receipt of Materials												
Transporter 1 Printed/Typed Name Blake Robinson				Signature <i>[Signature]</i>		Month 8			Day 2		Year 28	
Transporter 2 Printed/Typed Name				Signature		Month			Day		Year	
18. Discrepancy												
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection												
Manifest Reference Number:												
18b. Alternate Facility (or Generator) U.S. EPA ID Number												
Facility's Phone:												
18c. Signature of Alternate Facility (or Generator) Month Day Year												
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)												
1. H040			2.			3.			4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a												
Printed/Typed Name Dana Wilson				Signature <i>[Signature]</i>		Month 8			Day 28		Year 23	



Land Disposal Restriction
Notification Form

Page : 1 of 1

Printed Date : Jul 26, 2023

MANIFEST INFORMATION

Generator : Emersub 15 LLC

Address: 620 South Aurora Street
Ithaca, NY 14850

Manifest Tracking Info.

018628132FLE

EPA ID #: NYD002228625

Sales Order No: 2304021375

LINE ITEM INFORMATION

Line Item:	Page No:	Profile No:	Treatability Group:	LDR Disposal Category
1.	1	CH1499553	NON-WASTEWATER	2 (This is subject to LDR.)

EPA Waste Code

F001

EPA Waste SubCategory

NONE

LDR Chemical Data

Chemical	Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment
TRICHLOROETHYLENE	N	Y	N

Certification

Applies to
Manifest Line
Items

Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268.

1.

Waste analysis data, where available, is attached.

Signature :

Print Name

Title :

Date :

NATE WINSTON
4/2/03

Site Address: 620 South Aurora Street
Ithaca, NY 14850

SC PPW 6/1/2023

WORK ORDER NO 30337-1467

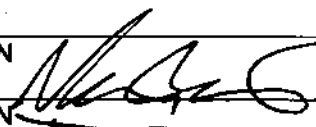
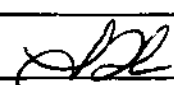
DOCUMENT NO. 1621946

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID # _____
EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000
TRANSPORTER 2 _____ VEHICLE ID # _____
EPA ID # _____ TRANS. 2 PHONE _____

DESIGNATED FACILITY Spring Grove Resource Recovery Inc.			SHIPPER ATTN: Daniel Liwicki Emersub 15 LLC				
FACILITY EPA ID # OHD000816629			SHIPPER EPA ID # NYD002228625				
ADDRESS 4879 Spring Grove Avenue			ADDRESS 620 South Aurora Street 7000 East Genesee Street Bld D 2nd Floor				
CITY		STATE	ZIP	CITY		STATE	ZIP
Cleveland		OH	45232	Ithaca		NY	14850
CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS			TOTAL QUANTITY	UNIT WT/VOL
3X55	PM		A. NON DOT REGULATED MATERIAL (DRILL CUTTINGS)			1400	P
			B.				
			C.				
			D.				
			E.				
			F.				
			G.				
			H.				
SPECIAL HANDLING INSTRUCTIONS							
EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Emersub 15 LLC							
A.CH2575252							

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	PRINT ON BEHALF OF EMERSON NATE WINSTAN	SIGN 	DATE 7/10/23
TRANSPORTER 1	PRINT Blake Robinson	SIGN 	DATE 7/10/23
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY	PRINT Tiffany Lawless	SIGN 	DATE 7.24.23

Generator acknowledges that no material change has occurred either in the characteristics or in the process generating the material.

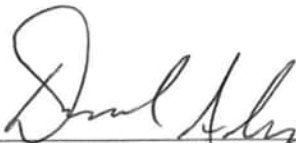
APPENDIX

G INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION FORM

INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION FORM
FORMER EMERSON POWER TRANSMISSION
SITE NO. 7-55-010
TOMPKINS COUNTY, ITHACA, NEW YORK
JANUARY 1, 2023 THROUGH DECEMBER 31, 2023

I, David Alan Rykaczewski, certify that I am currently a New York State registered professional engineer as defined in 6 NYCRR Part 375 and that all of the following statements are true:

- This Periodic Review Report and all attachments were prepared under my direction on behalf of Emerson Electric Co. and are accurate and complete.
- 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.
- The institutional and engineering control described in the Periodic Review Report and Site Inspection Form are unchanged from the date that the Interim Site Management Plan was submitted.
- Nothing has occurred that would impair the ability of the institutional and engineering controls to protect public health and the environment.
- Nothing has occurred that would constitute a violation or failure to comply with the Interim Site Management Plan for these controls.
- Access to the site will continue to be provided to the NYSDEC and NYSDOH to evaluate the remedy, including access to evaluate the continued maintenance of the controls.



David Alan Rykaczewski, P.E.
Vice President
New York State P.E. No. 099287



Date

May 31, 2024

WSP USA Inc.
11 Stanwix Street, Suite 950
Pittsburgh, Pennsylvania 15222

APPENDIX

H

LABORATORY
ANALYTICAL REPORTS

Q1 2023 AQUEOUS DATA

DPE AND TREATMENT SYSTEM

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

WSP USA Environment & Infrastructure Inc

Former Ithaca Power Transmission, Ithaca, NY

31405608.001 02

SGS Job Number: JD60928

Sampling Date: 02/24/23

Report to:

WSP
5411 SkyCenter Drive Suite 650
Tampa, FL 33607
Jeffrey.Baker@wsp.com

ATTN: Jeffrey Baker

Total number of pages in report: 27



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in blue ink, appearing to read "D. Chastain".

David Chastain
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Case Narrative/Conformance Summary	4
Section 3: Summary of Hits	5
Section 4: Sample Results	6
4.1: JD60928-1: WPOST GAC	7
4.2: JD60928-2: WMID GAC	9
4.3: JD60928-3: WAS	11
4.4: JD60928-4: WINF	13
Section 5: Misc. Forms	15
5.1: Chain of Custody	16
Section 6: MS Volatiles - QC Data Summaries	18
6.1: Method Blank Summary	19
6.2: Blank Spike Summary	21
6.3: Matrix Spike/Matrix Spike Duplicate Summary	23
6.4: Instrument Performance Checks (BFB)	25
6.5: Surrogate Recovery Summaries	27



Sample Summary

WSP USA Environment & Infrastructure Inc

Job No: JD60928

Former Ithaca Power Transmission, Ithaca, NY
Project No: 31405608.001 02

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	

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

JD60928-1	02/24/23	11:35 NW	02/25/23	AQ	Water	WPOST GAC
JD60928-2	02/24/23	11:40 NW	02/25/23	AQ	Water	WMID GAC
JD60928-3	02/24/23	11:45 NW	02/25/23	AQ	Water	WAS
JD60928-4	02/24/23	11:50 NW	02/25/23	AQ	Influent	WINF

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: WSP USA Environment & Infrastructure Inc

Job No: JD60928

Site: Former Ithaca Power Transmission, Ithaca, NY

Report Date 3/3/2023 10:46:41 AM

On 02/25/2023, 4 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 2.8 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD60928 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260D

Matrix: AQ

Batch ID: V1R79

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD60676-4MS, JD60676-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD60928-4: Dilution required due to high concentration of target compound.
- JD60928-4 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD60928-1 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD60928-1 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD60928-2 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD60928-2 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD60928-3 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD60928-3 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Friday, March 3, 2023

Page 1 of 1

Summary of Hits

Page 1 of 1

Job Number: JD60928
Account: WSP USA Environment & Infrastructure Inc
Project: Former Ithaca Power Transmission, Ithaca, NY
Collected: 02/24/23



Lab Sample ID	Client Sample ID	Result/ Analyte Qual	RL	MDL	Units	Method
JD60928-1	WPOST GAC					
	cis-1,2-Dichloroethene	3.7	1.0	0.51	ug/l	SW846 8260D
JD60928-2	WMID GAC					
	cis-1,2-Dichloroethene	6.8	1.0	0.51	ug/l	SW846 8260D
JD60928-3	WAS					
	cis-1,2-Dichloroethene	1.2	1.0	0.51	ug/l	SW846 8260D
JD60928-4	WINF					
	cis-1,2-Dichloroethene ^a	390	2.5	1.3	ug/l	SW846 8260D
	trans-1,2-Dichloroethene ^a	1.4 J	2.5	1.3	ug/l	SW846 8260D
	Trichloroethene ^a	57.5	2.5	1.3	ug/l	SW846 8260D

(a) Dilution required due to high concentration of target compound.



Dayton, NJ

Section 4

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	WPOST GAC	Date Sampled:	02/24/23
Lab Sample ID:	JD60928-1	Date Received:	02/25/23
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Former Ithaca Power Transmission, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1R02422.D	1	02/27/23 19:22	KD	n/a	n/a	V1R79
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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	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	3.7	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WPOST GAC	Date Sampled:	02/24/23
Lab Sample ID:	JD60928-1	Date Received:	02/25/23
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Former Ithaca Power Transmission, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
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	
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	95%		80-120%
17060-07-0	1,2-Dichloroethane-D4	108%		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. 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:	WMID GAC	Date Sampled:	02/24/23
Lab Sample ID:	JD60928-2	Date Received:	02/25/23
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Former Ithaca Power Transmission, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1R02423.D	1	02/27/23 19:48	KD	n/a	n/a	V1R79
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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	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	6.8	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WMID GAC	Date Sampled:	02/24/23
Lab Sample ID:	JD60928-2	Date Received:	02/25/23
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Former Ithaca Power Transmission, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
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	
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	94%		80-120%
17060-07-0	1,2-Dichloroethane-D4	102%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	101%		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:	WAS	Date Sampled:	02/24/23
Lab Sample ID:	JD60928-3	Date Received:	02/25/23
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Former Ithaca Power Transmission, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1R02424.D	1	02/27/23 20:14	KD	n/a	n/a	V1R79
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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	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	1.2	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WAS	Date Sampled:	02/24/23
Lab Sample ID:	JD60928-3	Date Received:	02/25/23
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Former Ithaca Power Transmission, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
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	
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	92%		80-120%
17060-07-0	1,2-Dichloroethane-D4	102%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	100%		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:	WINF	Date Sampled:	02/24/23
Lab Sample ID:	JD60928-4	Date Received:	02/25/23
Matrix:	AQ - Influent	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Former Ithaca Power Transmission, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1R02425.D	2.5	02/27/23 20:39	KD	n/a	n/a	V1R79
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	7.6	ug/l	
71-43-2	Benzene	ND	1.3	1.1	ug/l	
75-27-4	Bromodichloromethane	ND	2.5	1.1	ug/l	
75-25-2	Bromoform	ND	2.5	1.6	ug/l	
74-83-9	Bromomethane ^b	ND	5.0	4.1	ug/l	
78-93-3	2-Butanone (MEK)	ND	25	6.8	ug/l	
75-15-0	Carbon disulfide	ND	5.0	1.1	ug/l	
56-23-5	Carbon tetrachloride	ND	2.5	1.4	ug/l	
108-90-7	Chlorobenzene	ND	2.5	1.4	ug/l	
75-00-3	Chloroethane	ND	2.5	1.8	ug/l	
67-66-3	Chloroform	ND	2.5	1.3	ug/l	
74-87-3	Chloromethane ^b	ND	2.5	1.9	ug/l	
110-82-7	Cyclohexane	ND	13	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	2.5	1.4	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.5	1.2	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.5	1.3	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.5	1.4	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.5	1.3	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.5	1.4	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.5	1.5	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.5	1.5	ug/l	
156-59-2	cis-1,2-Dichloroethene	390	2.5	1.3	ug/l	
156-60-5	trans-1,2-Dichloroethene	1.4	2.5	1.3	ug/l	J
78-87-5	1,2-Dichloropropane	ND	2.5	1.3	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	1.2	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	1.1	ug/l	
100-41-4	Ethylbenzene	ND	2.5	1.5	ug/l	
76-13-1	Freon 113	ND	13	1.5	ug/l	
591-78-6	2-Hexanone	ND	13	5.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.5	1.6	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WINF	Date Sampled:	02/24/23
Lab Sample ID:	JD60928-4	Date Received:	02/25/23
Matrix:	AQ - Influent	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Former Ithaca Power Transmission, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	13	2.0	ug/l	
108-87-2	Methylcyclohexane	ND	13	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.5	1.3	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	13	4.6	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.5	ug/l	
100-42-5	Styrene	ND	2.5	1.2	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	1.6	ug/l	
127-18-4	Tetrachloroethene	ND	2.5	1.4	ug/l	
108-88-3	Toluene	ND	2.5	1.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.5	1.3	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.5	1.3	ug/l	
79-01-6	Trichloroethene	57.5	2.5	1.3	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/l	
75-01-4	Vinyl chloride	ND	2.5	1.3	ug/l	
1330-20-7	Xylene (total)	ND	2.5	1.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	100%		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

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



WSP

Chain of Custody Form

PSS8947370 9230
TM-02823161 Page 1 of 1

WSP Office Address 40 Ls Riviere Dr., Ste. 320 Buffalo, NY 14202				Requested Analytes & Preservatives												No. JD 60928		
Project Name Former EPT Ithaca		WSP Contact Name Nathaniel Winston		SW846 6260D TCL 42												Laboratory Name & Location SGS DAYTON, NJ		
Project Location Ithaca, NY		WSP Contact E-mail Nathaniel.Winston@wsp.com														Laboratory Project Manager		
Project Number & Task 31405608.001.02		WSP Contact Phone 315-420-9973														Requested Turn-Around-Time ☒ Standard (7-day) ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ _____ HR		
Sampler(s) Name(s) Nathaniel Winston		Sampler(s) Signature(s) 														Sample Comments		
Sample Identification	Matrix	Collection Start* Date Time		Collection Stop* Date Time		Number of Containers												
1 WPOST GAC	WW	2/24/23 1135		4		X												
2 WMD GAC	I	1140		4		X												
3 WAS	I	1145		4		X												
4 WINE	I	1150		4		X	1524											
							WSP Former Ithaca Power Transmission, Ithaca, NY TM-02623-132 Please place on the back of original (white copy of COC) This will assist us in processing your samples. Thank You											
Relinquished By (Signature) 		Date 2/24/23	Time 1500	Received By (Signature) 		Date 2/25/23	Time 9:20	Shipment Method Fedex		Tracking Number(s) Initial Assessment		Custody Seal Number(s) 2-8-C or IR-40						
*Use stop time/date for composite and/or air samples; use only start time/date for all other samples. Matrix: AQ = Aquatic, S = Soil, SE = Sediment, A = Air, W = Water, B = Bulk, O = Other (detail in comments)																		

JD60928: Chain of Custody

Page 1 of 2



SGS Sample Receipt Summary

Job Number: JD60928

Client: WSP USA

Project: EMERSUB 15, LLC, ITHACA, NY

Date / Time Received: 2/25/2023 9:20:00 AM

Delivery Method: FEDEX

Airbill #s:
Cooler Temps (Raw Measured) °C: Cooler 1: (2.8);

Cooler Temps (Corrected) °C: Cooler 1: (2.8);

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

JD60928: Chain of Custody

Page 2 of 2

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 2

Job Number: JD60928

Account: ESCVAR WSP USA Environment & Infrastructure Inc

Project: Former Ithaca Power Transmission, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1R79-MB	1R02404.D	1	02/27/23	KD	n/a	n/a	V1R79

The QC reported here applies to the following samples:

Method: SW846 8260D

JD60928-1, JD60928-2, JD60928-3, JD60928-4

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	
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	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	
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	

Method Blank Summary

Page 2 of 2

Job Number: JD60928

Account: ESCVAR WSP USA Environment & Infrastructure Inc

Project: Former Ithaca Power Transmission, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1R79-MB	1R02404.D	1	02/27/23	KD	n/a	n/a	V1R79

The QC reported here applies to the following samples:

Method: SW846 8260D

JD60928-1, JD60928-2, JD60928-3, JD60928-4

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
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	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	94%	80-120%
17060-07-0	1,2-Dichloroethane-D4	104%	80-120%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	101%	82-114%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.45	8.4	ug/l	J
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Page 1 of 2

Job Number: JD60928

Account: ESCVAR WSP USA Environment & Infrastructure Inc

Project: Former Ithaca Power Transmission, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1R79-BS	1R02402.D	1	02/27/23	KD	n/a	n/a	V1R79

The QC reported here applies to the following samples:

Method: SW846 8260D

JD60928-1, JD60928-2, JD60928-3, JD60928-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	169	85	27-175
71-43-2	Benzene	50	48.6	97	80-115
75-27-4	Bromodichloromethane	50	50.4	101	82-119
75-25-2	Bromoform	50	49.2	98	77-135
74-83-9	Bromomethane	50	30.2	60	40-162
78-93-3	2-Butanone (MEK)	200	187	94	61-150
75-15-0	Carbon disulfide	50	42.2	84	64-130
56-23-5	Carbon tetrachloride	50	44.5	89	75-127
108-90-7	Chlorobenzene	50	47.4	95	80-115
75-00-3	Chloroethane	50	44.8	90	56-144
67-66-3	Chloroform	50	47.5	95	75-116
74-87-3	Chloromethane	50	39.7	79	41-153
110-82-7	Cyclohexane	50	39.9	80	66-129
96-12-8	1,2-Dibromo-3-chloropropane	50	52.0	104	69-134
124-48-1	Dibromochloromethane	50	48.5	97	81-123
106-93-4	1,2-Dibromoethane	50	50.3	101	67-138
95-50-1	1,2-Dichlorobenzene	50	46.4	93	81-117
541-73-1	1,3-Dichlorobenzene	50	47.0	94	81-115
106-46-7	1,4-Dichlorobenzene	50	46.8	94	80-114
75-71-8	Dichlorodifluoromethane	50	41.8	84	43-152
75-34-3	1,1-Dichloroethane	50	49.0	98	75-125
107-06-2	1,2-Dichloroethane	50	51.0	102	73-117
75-35-4	1,1-Dichloroethene	50	47.7	95	70-124
156-59-2	cis-1,2-Dichloroethene	50	48.0	96	80-120
156-60-5	trans-1,2-Dichloroethene	50	46.6	93	77-121
78-87-5	1,2-Dichloropropane	50	51.1	102	79-121
10061-01-5	cis-1,3-Dichloropropene	50	51.3	103	83-123
10061-02-6	trans-1,3-Dichloropropene	50	51.4	103	83-122
100-41-4	Ethylbenzene	50	47.8	96	78-116
76-13-1	Freon 113	50	45.3	91	68-134
591-78-6	2-Hexanone	200	211	106	66-136
98-82-8	Isopropylbenzene	50	48.5	97	78-121
79-20-9	Methyl Acetate	50	52.3	105	60-143
108-87-2	Methylcyclohexane	50	45.4	91	71-123
1634-04-4	Methyl Tert Butyl Ether	50	48.0	96	76-123
108-10-1	4-Methyl-2-pentanone(MIBK)	200	216	108	73-134

* = Outside of Control Limits.

Blank Spike Summary

Page 2 of 2

Job Number: JD60928

Account: ESCVAR WSP USA Environment & Infrastructure Inc

Project: Former Ithaca Power Transmission, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1R79-BS	1R02402.D	1	02/27/23	KD	n/a	n/a	V1R79

The QC reported here applies to the following samples:

Method: SW846 8260D

JD60928-1, JD60928-2, JD60928-3, JD60928-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
75-09-2	Methylene chloride	50	46.6	93	73-123
100-42-5	Styrene	50	47.9	96	81-125
79-34-5	1,1,2,2-Tetrachloroethane	50	52.8	106	73-126
127-18-4	Tetrachloroethene	50	48.6	97	73-119
108-88-3	Toluene	50	46.9	94	79-116
120-82-1	1,2,4-Trichlorobenzene	50	49.4	99	68-135
71-55-6	1,1,1-Trichloroethane	50	45.1	90	76-124
79-00-5	1,1,2-Trichloroethane	50	49.5	99	83-117
79-01-6	Trichloroethene	50	48.6	97	80-118
75-69-4	Trichlorofluoromethane	50	41.7	83	67-134
75-01-4	Vinyl chloride	50	42.6	85	52-146
1330-20-7	Xylene (total)	150	144	96	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	92%	80-120%
17060-07-0	1,2-Dichloroethane-D4	102%	80-120%
2037-26-5	Toluene-D8	100%	80-120%
460-00-4	4-Bromofluorobenzene	101%	82-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: JD60928

Account: ESCVAR WSP USA Environment & Infrastructure Inc

Project: Former Ithaca Power Transmission, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD60676-4MS	1R02412.D	5	02/27/23	KD	n/a	n/a	V1R79
JD60676-4MSD	1R02413.D	5	02/27/23	KD	n/a	n/a	V1R79
JD60676-4 ^a	1R02409.D	5	02/27/23	KD	n/a	n/a	V1R79

The QC reported here applies to the following samples:

Method: SW846 8260D

JD60928-1, JD60928-2, JD60928-3, JD60928-4

CAS No.	Compound	JD60676-4 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		1000	87	1000	854	85	2	22-134/19
71-43-2	Benzene	137		250	91	250	362	90	1	49-137/12
75-27-4	Bromodichloromethane	ND		250	101	250	252	101	0	76-121/12
75-25-2	Bromoform	ND		250	93	250	230	92	1	70-133/13
74-83-9	Bromomethane	ND		250	42	250	131	52	21	27-164/38
78-93-3	2-Butanone (MEK)	ND		1000	99	1000	981	98	1	52-137/17
75-15-0	Carbon disulfide	ND		250	87	250	214	86	2	54-136/16
56-23-5	Carbon tetrachloride	ND		250	91	250	225	90	1	70-132/13
108-90-7	Chlorobenzene	ND		250	94	250	232	93	1	68-123/12
75-00-3	Chloroethane	ND		250	96	250	235	94	3	48-152/17
67-66-3	Chloroform	ND		250	99	250	241	96	3	68-120/13
74-87-3	Chloromethane	ND		250	86	250	211	84	1	35-156/18
110-82-7	Cyclohexane	41.3		250	84	250	246	82	2	53-146/14
96-12-8	1,2-Dibromo-3-chloropropane	ND		250	103	250	254	102	1	63-134/16
124-48-1	Dibromochloromethane	ND		250	94	250	232	93	2	75-122/12
106-93-4	1,2-Dibromoethane	ND		250	99	250	244	98	1	63-134/12
95-50-1	1,2-Dichlorobenzene	ND		250	91	250	225	90	1	74-119/12
541-73-1	1,3-Dichlorobenzene	ND		250	93	250	227	91	2	75-117/12
106-46-7	1,4-Dichlorobenzene	ND		250	92	250	226	90	2	72-117/12
75-71-8	Dichlorodifluoromethane	ND		250	94	250	225	90	5	34-163/16
75-34-3	1,1-Dichloroethane	ND		250	102	250	251	100	1	68-129/13
107-06-2	1,2-Dichloroethane	ND		250	104	250	258	103	1	66-120/13
75-35-4	1,1-Dichloroethene	ND		250	98	250	241	96	1	59-133/15
156-59-2	cis-1,2-Dichloroethene	ND		250	101	250	246	98	3	52-140/12
156-60-5	trans-1,2-Dichloroethene	ND		250	98	250	239	96	2	70-125/13
78-87-5	1,2-Dichloropropane	ND		250	104	250	257	103	1	73-124/12
10061-01-5	cis-1,3-Dichloropropene	ND		250	102	250	252	101	2	75-125/13
10061-02-6	trans-1,3-Dichloropropene	ND		250	100	250	246	98	2	75-122/12
100-41-4	Ethylbenzene	997		250	65	250	1140	57	2	37-144/12
76-13-1	Freon 113	ND		250	93	250	231	92	1	61-142/14
591-78-6	2-Hexanone	ND		1000	107	1000	1070	107	0	56-132/16
98-82-8	Isopropylbenzene	92.7		250	95	250	323	92	2	71-126/13
79-20-9	Methyl Acetate	ND		250	106	250	267	107	0	51-139/18
108-87-2	Methylcyclohexane	55.8		250	90	250	278	89	1	59-137/16
1634-04-4	Methyl Tert Butyl Ether	ND		250	98	250	244	98	1	66-124/12
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		1000	109	1000	1080	108	1	65-135/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: JD60928

Account: ESCVAR WSP USA Environment & Infrastructure Inc

Project: Former Ithaca Power Transmission, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD60676-4MS	1R02412.D	5	02/27/23	KD	n/a	n/a	V1R79
JD60676-4MSD	1R02413.D	5	02/27/23	KD	n/a	n/a	V1R79
JD60676-4 ^a	1R02409.D	5	02/27/23	KD	n/a	n/a	V1R79

The QC reported here applies to the following samples:

Method: SW846 8260D

JD60928-1, JD60928-2, JD60928-3, JD60928-4

CAS No.	Compound	JD60676-4 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
75-09-2	Methylene chloride	ND		250	241	96	250	243	97	1	66-125/14
100-42-5	Styrene	ND		250	240	96	250	232	93	3	71-133/12
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	259	104	250	256	102	1	68-127/14
127-18-4	Tetrachloroethene	ND		250	244	98	250	240	96	2	58-132/13
108-88-3	Toluene	4.8	J	250	238	93	250	237	93	0	46-139/12
120-82-1	1,2,4-Trichlorobenzene	ND		250	240	96	250	232	93	3	61-137/16
71-55-6	1,1,1-Trichloroethane	ND		250	237	95	250	232	93	2	67-132/13
79-00-5	1,1,2-Trichloroethane	ND		250	248	99	250	247	99	0	75-120/12
79-01-6	Trichloroethene	ND		250	246	98	250	242	97	2	56-136/12
75-69-4	Trichlorofluoromethane	ND		250	219	88	250	215	86	2	61-145/16
75-01-4	Vinyl chloride	ND		250	231	92	250	224	90	3	41-156/16
1330-20-7	Xylene (total)	1940		750	2560	81	750	2520	76	2	38-147/12

CAS No.	Surrogate Recoveries	MS	MSD	JD60676-4	Limits
1868-53-7	Dibromofluoromethane	98%	96%	96%	80-120%
17060-07-0	1,2-Dichloroethane-D4	106%	103%	106%	80-120%
2037-26-5	Toluene-D8	99%	100%	99%	80-120%
460-00-4	4-Bromofluorobenzene	102%	103%	100%	82-114%

(a) Dilution required due to high concentrations of target and non-target compounds.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JD60928

Account: ESCVAR WSP USA Environment & Infrastructure Inc

Project: Former Ithaca Power Transmission, Ithaca, NY

Sample: V1R40-BFB

Injection Date: 01/10/23

Lab File ID: 1R01270.D

Injection Time: 16:06

Instrument ID: GCMS1R

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	55376	21.5	Pass
75	30.0 - 60.0% of mass 95	121853	47.3	Pass
95	Base peak, 100% relative abundance	257856	100.0	Pass
96	5.0 - 9.0% of mass 95	17304	6.71	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 150.0% of mass 95	212723	82.5	Pass
175	5.0 - 9.0% of mass 174	15489	6.01 (7.28) ^a	Pass
176	95.0 - 101.0% of mass 174	207787	80.6 (97.7) ^a	Pass
177	5.0 - 9.0% of mass 176	13782	5.34 (6.63) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1R40-IC40	1R01272.D	01/10/23	17:07	01:01	Initial cal 0.2
V1R40-IC40	1R01274.D	01/10/23	17:40	01:34	Initial cal 0.5
V1R40-IC40	1R01276.D	01/10/23	18:13	02:07	Initial cal 1
V1R40-IC40	1R01278.D	01/10/23	18:46	02:40	Initial cal 2
V1R40-IC40	1R01280.D	01/10/23	19:19	03:13	Initial cal 4
V1R40-IC40	1R01282.D	01/10/23	19:52	03:46	Initial cal 8
V1R40-IC40	1R01284.D	01/10/23	20:25	04:19	Initial cal 20
V1R40-ICC40	1R01286.D	01/10/23	20:58	04:52	Initial cal 50
V1R40-IC40	1R01288.D	01/10/23	21:31	05:25	Initial cal 100
V1R40-IC40	1R01290.D	01/10/23	22:04	05:58	Initial cal 200
V1R40-ICV40	1R01296.D	01/10/23	23:43	07:37	Initial cal verification 50
V1R40-ICV40	1R01298.D	01/11/23	00:15	08:09	Initial cal verification 50

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JD60928

Account: ESCVAR WSP USA Environment & Infrastructure Inc

Project: Former Ithaca Power Transmission, Ithaca, NY

Sample: V1R79-BFB

Injection Date: 02/27/23

Lab File ID: 1R02400.D

Injection Time: 09:11

Instrument ID: GCMS1R

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	48306	22.2	Pass
75	30.0 - 60.0% of mass 95	102846	47.2	Pass
95	Base peak, 100% relative abundance	217698	100.0	Pass
96	5.0 - 9.0% of mass 95	14248	6.54	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 150.0% of mass 95	190938	87.7	Pass
175	5.0 - 9.0% of mass 174	14067	6.46 (7.37) ^a	Pass
176	95.0 - 101.0% of mass 174	181770	83.5 (95.2) ^a	Pass
177	5.0 - 9.0% of mass 176	11647	5.35 (6.41) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1R79-CC40	1R02400.D	02/27/23	09:11	00:00	Continuing cal 20
V1R79-BS	1R02402.D	02/27/23	10:23	01:12	Blank Spike
V1R79-MB	1R02404.D	02/27/23	11:36	02:25	Method Blank
ZZZZZZ	1R02405.D	02/27/23	12:02	02:51	(unrelated sample)
ZZZZZZ	1R02406.D	02/27/23	12:31	03:20	(unrelated sample)
ZZZZZZ	1R02407.D	02/27/23	12:57	03:46	(unrelated sample)
ZZZZZZ	1R02408.D	02/27/23	13:22	04:11	(unrelated sample)
JD60676-4	1R02409.D	02/27/23	13:48	04:37	(used for QC only; not part of job JD60928)
ZZZZZZ	1R02410.D	02/27/23	14:14	05:03	(unrelated sample)
ZZZZZZ	1R02411.D	02/27/23	14:39	05:28	(unrelated sample)
JD60676-4MS	1R02412.D	02/27/23	15:05	05:54	Matrix Spike
JD60676-4MSD	1R02413.D	02/27/23	15:31	06:20	Matrix Spike Duplicate
ZZZZZZ	1R02414.D	02/27/23	15:56	06:45	(unrelated sample)
ZZZZZZ	1R02415.D	02/27/23	16:22	07:11	(unrelated sample)
ZZZZZZ	1R02416.D	02/27/23	16:48	07:37	(unrelated sample)
ZZZZZZ	1R02417.D	02/27/23	17:14	08:03	(unrelated sample)
ZZZZZZ	1R02418.D	02/27/23	17:40	08:29	(unrelated sample)
ZZZZZZ	1R02419.D	02/27/23	18:05	08:54	(unrelated sample)
ZZZZZZ	1R02420.D	02/27/23	18:31	09:20	(unrelated sample)
JD60928-1	1R02422.D	02/27/23	19:22	10:11	WPOST GAC
JD60928-2	1R02423.D	02/27/23	19:48	10:37	WMID GAC
JD60928-3	1R02424.D	02/27/23	20:14	11:03	WAS
JD60928-4	1R02425.D	02/27/23	20:39	11:28	WINF
ZZZZZZ	1R02426.D	02/27/23	21:05	11:54	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD60928
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: Former Ithaca Power Transmission, Ithaca, NY

Method: SW846 8260D	Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD60928-1	1R02422.D	95	108	100	101
JD60928-2	1R02423.D	94	102	102	101
JD60928-3	1R02424.D	92	102	102	100
JD60928-4	1R02425.D	94	104	100	100
JD60676-4MS	1R02412.D	98	106	99	102
JD60676-4MSD	1R02413.D	96	103	100	103
V1R79-BS	1R02402.D	92	102	100	101
V1R79-MB	1R02404.D	94	104	99	101

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	80-120%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	82-114%

Q1 2023 VAPOR DATA

DPE AND TREATMENT SYSTEM

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

WSP USA Environment & Infrastructure Inc

Former Ithaca Power Transmission, Ithaca, NY

31405608.001 02

SGS Job Number: JD60927

Sampling Date: 02/24/23

Report to:

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Tampa, FL 33607
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ATTN: Jeffrey Baker

Total number of pages in report: **40**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Case Narrative/Conformance Summary	4
Section 3: Summary of Hits	5
Section 4: Sample Results	6
4.1: JD60927-1: VPOST GAC	7
4.2: JD60927-2: VINP	10
Section 5: Misc. Forms	13
5.1: Chain of Custody	14
5.2: Summa Canister and Flow Controller Log	16
Section 6: MS Volatiles - QC Data Summaries	17
6.1: Method Blank Summary	18
6.2: Blank Spike/Blank Spike Duplicate Summary	24
6.3: Duplicate Summary	30
6.4: Summa Cleaning Certification	33
6.5: Instrument Performance Checks (BFB)	36
6.6: Surrogate Recovery Summaries	40



Sample Summary

WSP USA Environment & Infrastructure Inc

Job No: JD60927

Former Ithaca Power Transmission, Ithaca, NY
Project No: 31405608.001 02

Sample Number	Collected		Matrix		Client	
	Date	Time By	Received	Code Type	Sample ID	

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

JD60927-1	02/24/23	12:30 NW	02/25/23	AIR	Soil Vapor Comp.	VPOST GAC

JD60927-2	02/24/23	12:20 NW	02/25/23	AIR	Soil Vapor Comp.	VINF

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: WSP USA Environment & Infrastructure Inc

Job No: JD60927

Site: Former Ithaca Power Transmission, Ithaca, NY

Report Date 3/6/2023 3:47:05 PM

On 02/25/2023, 2 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at SGS North America Inc. An SGS Job Number of JD60927 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method TO-15

Matrix: AIR

Batch ID: V7W35

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD60927-1DUP were used as the QC samples indicated.
- The blank spike (BS) recovery(s) of 1,2,4-Trichlorobenzene, Benzyl Chloride are outside control limits.
- JD60927-2 for Benzyl Chloride: Associated CCV outside of control limits low. This compound in blank spike is outside in house QC limits bias low.
- JD60927-2 for 1,2,4-Trichlorobenzene: Associated CCV outside of control limits low. This compound in blank spike is outside in house QC limits bias low.
- JD60927-2 for Hexachlorobutadiene: Associated CCV outside of control limits low.
- JD60927-1 for Benzyl Chloride: Associated CCV outside of control limits low. This compound in blank spike is outside in house QC limits bias low.
- JD60927-1 for 1,2,4-Trichlorobenzene: Associated CCV outside of control limits low. This compound in blank spike is outside in house QC limits bias low.
- JD60927-1 for Hexachlorobutadiene: Associated CCV outside of control limits low.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JD60927
Account: WSP USA Environment & Infrastructure Inc
Project: Former Ithaca Power Transmission, Ithaca, NY
Collected: 02/24/23



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JD60927-1 VPOST GAC

Acetone (2-Propanone)	1.4	0.80	0.58	ppbv	TO-15
Chloromethane	0.80	0.80	0.36	ppbv	TO-15
Dichlorodifluoromethane	0.47 J	0.80	0.13	ppbv	TO-15
trans-1,2-Dichloroethylene	0.47 J	0.80	0.28	ppbv	TO-15
cis-1,2-Dichloroethylene	100	0.16	0.31	ppbv	TO-15
Ethanol	5.4	2.0	1.6	ppbv	TO-15
Ethyl Acetate	0.65 J	0.80	0.42	ppbv	TO-15
Trichloroethylene	40.9	0.16	0.076	ppbv	TO-15
Vinyl chloride	6.0	0.16	0.28	ppbv	TO-15
Acetone (2-Propanone)	3.3	1.9	1.4	ug/m3	TO-15
Chloromethane	1.7	1.7	0.74	ug/m3	TO-15
Dichlorodifluoromethane	2.3 J	4.0	0.64	ug/m3	TO-15
trans-1,2-Dichloroethylene	1.9 J	3.2	1.1	ug/m3	TO-15
cis-1,2-Dichloroethylene	396	0.63	1.2	ug/m3	TO-15
Ethanol	10	3.8	3.0	ug/m3	TO-15
Ethyl Acetate	2.3 J	2.9	1.5	ug/m3	TO-15
Trichloroethylene	220	0.86	0.41	ug/m3	TO-15
Vinyl chloride	15	0.41	0.72	ug/m3	TO-15

JD60927-2 VINP

Acetone (2-Propanone)	5.3	0.80	0.58	ppbv	TO-15
Chloromethane	0.88	0.80	0.36	ppbv	TO-15
Dichlorodifluoromethane	0.43 J	0.80	0.13	ppbv	TO-15
cis-1,2-Dichloroethylene	34.4	0.16	0.31	ppbv	TO-15
Ethanol	2.9	2.0	1.6	ppbv	TO-15
Methylene chloride	1.0	0.80	0.22	ppbv	TO-15
Methyl ethyl ketone	0.48 J	0.80	0.44	ppbv	TO-15
Trichloroethylene	11.0	0.16	0.076	ppbv	TO-15
Vinyl chloride	1.3	0.16	0.28	ppbv	TO-15
Acetone (2-Propanone)	13	1.9	1.4	ug/m3	TO-15
Chloromethane	1.8	1.7	0.74	ug/m3	TO-15
Dichlorodifluoromethane	2.1 J	4.0	0.64	ug/m3	TO-15
cis-1,2-Dichloroethylene	136	0.63	1.2	ug/m3	TO-15
Ethanol	5.5	3.8	3.0	ug/m3	TO-15
Methylene chloride	3.5	2.8	0.76	ug/m3	TO-15
Methyl ethyl ketone	1.4 J	2.4	1.3	ug/m3	TO-15
Trichloroethylene	59.1	0.86	0.41	ug/m3	TO-15
Vinyl chloride	3.3	0.41	0.72	ug/m3	TO-15



Dayton, NJ

Section 4

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	VPOST GAC	Date Sampled:	02/24/23
Lab Sample ID:	JD60927-1	Date Received:	02/25/23
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1106	Percent Solids:	n/a
Method:	TO-15		
Project:	Former Ithaca Power Transmission, Ithaca, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7W00713.D	1	03/02/23 17:04	TCH	n/a	n/a	V7W35
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	1.4	0.80	0.58	ppbv		3.3	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	ND	0.80	0.25	ppbv		ND	2.6	0.80	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.40	0.12	ppbv		ND	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.16	0.28	ppbv		ND	1.7	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride ^a	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	0.80	0.80	0.36	ppbv		1.7	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.16	0.16	ppbv		ND	1.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.44	ppbv		ND	2.8	1.5	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.16	0.24	ppbv		ND	0.63	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.40	0.39	ppbv		ND	3.1	3.0	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	1.7	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.47	0.80	0.13	ppbv	J	2.3	4.0	0.64	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.40	0.21	ppbv		ND	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.47	0.80	0.28	ppbv	J	1.9	3.2	1.1	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	100	0.16	0.31	ppbv		396	0.63	1.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.40	0.16	ppbv		ND	2.4	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.16	0.62	ppbv		ND	0.96	3.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.40	0.76	ppbv		ND	2.4	4.6	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

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:	VPOST GAC	Date Sampled:	02/24/23
Lab Sample ID:	JD60927-1	Date Received:	02/25/23
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1106	Percent Solids:	n/a
Method:	TO-15		
Project:	Former Ithaca Power Transmission, Ithaca, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	5.4	2.0	1.6	ppbv		10	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	0.65	0.80	0.42	ppbv	J	2.3	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.40	0.20	ppbv		ND	2.8	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.37	ppbv		ND	3.3	1.5	ug/m3
87-68-3	260.8	Hexachlorobutadiene ^b	ND	0.36	0.25	ppbv		ND	3.8	2.7	ug/m3
110-54-3	86.18	Hexane	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.56	ppbv		ND	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.22	ppbv		ND	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.47	ppbv		ND	3.4	2.0	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.40	0.19	ppbv		ND	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene ^a	ND	0.40	0.48	ppbv		ND	3.0	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.38	ppbv		ND	3.7	1.8	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.16	0.056	ppbv		ND	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	ND	0.80	0.23	ppbv		ND	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	40.9	0.16	0.076	ppbv		220	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.40	0.14	ppbv		ND	2.2	0.79	ug/m3
75-01-4	62.5	Vinyl chloride	6.0	0.16	0.28	ppbv		15	0.41	0.72	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		65-128%

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

Page 3 of 3

Client Sample ID:	VPOST GAC	
Lab Sample ID:	JD60927-1	Date Sampled: 02/24/23
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1106	Date Received: 02/25/23
Method:	TO-15	Percent Solids: n/a
Project:	Former Ithaca Power Transmission, Ithaca, NY	

VOA T015 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

- (a) Associated CCV outside of control limits low. This compound in blank spike is outside in house QC limits bias low.
- (b) Associated CCV outside of control limits low.

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

Page 1 of 3

Client Sample ID:	VINF		
Lab Sample ID:	JD60927-2	Date Sampled:	02/24/23
Matrix:	AIR - Soil Vapor Comp.	Date Received:	02/25/23
Method:	TO-15	Percent Solids:	n/a
Project:	Former Ithaca Power Transmission, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7W00715.D	1.58	03/02/23 18:07	TCH	n/a	n/a	V7W35
Run #2							

	Initial Volume
Run #1	158 ml
Run #2	

VOA T015 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	5.3	0.80	0.58	ppbv		13	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	ND	0.80	0.25	ppbv		ND	2.6	0.80	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.40	0.12	ppbv		ND	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.16	0.28	ppbv		ND	1.7	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride ^a	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	0.88	0.80	0.36	ppbv		1.8	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.16	0.16	ppbv		ND	1.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.44	ppbv		ND	2.8	1.5	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.16	0.24	ppbv		ND	0.63	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.40	0.39	ppbv		ND	3.1	3.0	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	1.7	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.43	0.80	0.13	ppbv	J	2.1	4.0	0.64	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.40	0.21	ppbv		ND	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	34.4	0.16	0.31	ppbv		136	0.63	1.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.40	0.16	ppbv		ND	2.4	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.16	0.62	ppbv		ND	0.96	3.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.40	0.76	ppbv		ND	2.4	4.6	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

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:	VINF	Date Sampled:	02/24/23
Lab Sample ID:	JD60927-2	Date Received:	02/25/23
Matrix:	AIR - Soil Vapor Comp. Summa ID: A422	Percent Solids:	n/a
Method:	TO-15		
Project:	Former Ithaca Power Transmission, Ithaca, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	2.9	2.0	1.6	ppbv		5.5	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.42	ppbv		ND	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.40	0.20	ppbv		ND	2.8	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.37	ppbv		ND	3.3	1.5	ug/m3
87-68-3	260.8	Hexachlorobutadiene ^b	ND	0.36	0.25	ppbv		ND	3.8	2.7	ug/m3
110-54-3	86.18	Hexane	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.56	ppbv		ND	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	1.0	0.80	0.22	ppbv		3.5	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.48	0.80	0.44	ppbv	J	1.4	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.47	ppbv		ND	3.4	2.0	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.40	0.19	ppbv		ND	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene ^a	ND	0.40	0.48	ppbv		ND	3.0	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.38	ppbv		ND	3.7	1.8	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.16	0.056	ppbv		ND	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	ND	0.80	0.23	ppbv		ND	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	11.0	0.16	0.076	ppbv		59.1	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.40	0.14	ppbv		ND	2.2	0.79	ug/m3
75-01-4	62.5	Vinyl chloride	1.3	0.16	0.28	ppbv		3.3	0.41	0.72	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		65-128%

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

Page 3 of 3

Client Sample ID:	VINF		
Lab Sample ID:	JD60927-2	Date Sampled:	02/24/23
Matrix:	AIR - Soil Vapor Comp.	Date Received:	02/25/23
Method:	TO-15	Percent Solids:	n/a
Project:	Former Ithaca Power Transmission, Ithaca, NY		

VOA T015 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

- (a) Associated CCV outside of control limits low. This compound in blank spike is outside in house QC limits bias low.
- (b) Associated CCV outside of control limits low.

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

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

SGS Sample Receipt Summary

Job Number: JD60927 **Client:** WSP **Project:** FORMER ITHACA POWER TRANSMISSIO
Date / Time Received: 2/25/2023 9:20:00 AM **Delivery Method:** FED EX **Airbill #s:** 5894 7370 9170

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

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

<u>Cooler Temperature</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Temp criteria achieved:	☐		☐
2. Cooler temp verification:	N/A		
3. Cooler media:	N/A		
4. No. Coolers:	N/A		

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

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

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	☒		☐
2. All containers accounted for:	☒		☐
3. Condition of sample:	Intact		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
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

JD60927: Chain of Custody

Page 2 of 2

Summa Canister and Flow Controller Log

Job Number: JD60927
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: Former Ithaca Power Transmission, Ithaca, NY
Received: 02/25/23

SUMMA CANISTERS													
Shipping							Receiving						
Summa ID	Vac L	Date " Hg	Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A1106	1	29.4	02/07/23	ML	CP120788W00222.D		JD60927-1	02/26/23	ML	1			1
A422	1	29.4	02/07/23	ML	CP120788W00222.D		JD60927-2	02/26/23	ML	9.5		1.1	1.58

SGS Bottle Order(s):
TM-02623-138

Prep Date Room Temp(F) Bar Pres "Hg
02/07/23 70 29.92

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Page 1 of 3

Job Number: JD60927

Account: ESCVAR WSP USA Environment & Infrastructure Inc

Project: Former Ithaca Power Transmission, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W35-MB	7W00712.D	1	03/02/23	TCH	n/a	n/a	V7W35

The QC reported here applies to the following samples:

Method: TO-15

JD60927-1, JD60927-2

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.062	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.11	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.097	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.032	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

Page 2 of 3

Job Number: JD60927

Account: ESCVAR WSP USA Environment & Infrastructure Inc

Project: Former Ithaca Power Transmission, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W35-MB	7W00712.D	1	03/02/23	TCH	n/a	n/a	V7W35

The QC reported here applies to the following samples:

Method: TO-15

JD60927-1, JD60927-2

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.092	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.12	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.095	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.036	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD60927
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: Former Ithaca Power Transmission, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W35-MB	7W00712.D	1	03/02/23	TCH	n/a	n/a	V7W35

The QC reported here applies to the following samples: Method: TO-15

JD60927-1, JD60927-2

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	90% 65-128%

Method Blank Summary

Page 1 of 3

Job Number: JD60927

Account: ESCVAR WSP USA Environment & Infrastructure Inc

Project: Former Ithaca Power Transmission, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W9-MB	8W00209.D	1	02/06/23	TCH	n/a	n/a	V8W9

The QC reported here applies to the following samples:

Method: TO-15

V8W9-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.062	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.11	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.097	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.032	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

Page 2 of 3

Job Number: JD60927

Account: ESCVAR WSP USA Environment & Infrastructure Inc

Project: Former Ithaca Power Transmission, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W9-MB	8W00209.D	1	02/06/23	TCH	n/a	n/a	V8W9

The QC reported here applies to the following samples:

Method: TO-15

V8W9-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.092	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.12	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.095	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.036	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD60927
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: Former Ithaca Power Transmission, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W9-MB	8W00209.D	1	02/06/23	TCH	n/a	n/a	V8W9

The QC reported here applies to the following samples: Method: TO-15

V8W9-SCC

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	94% 65-128%

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 3

Job Number: JD60927

Account: ESCVAR WSP USA Environment & Infrastructure Inc

Project: Former Ithaca Power Transmission, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W35-BS	7W00708.D	1	03/02/23	TCH	n/a	n/a	V7W35
V7W35-BSD	7W00709.D	1	03/02/23	TCH	n/a	n/a	V7W35

The QC reported here applies to the following samples:

Method: TO-15

JD60927-1, JD60927-2

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	9.4	94	9.1	91	3	70-130/30
106-99-0	1,3-Butadiene	10	9.8	98	9.7	97	1	70-130/30
71-43-2	Benzene	10	8.2	82	8.3	83	1	70-130/30
75-27-4	Bromodichloromethane	10	9.0	90	8.9	89	1	70-130/30
75-25-2	Bromoform	10	8.7	87	8.6	86	1	70-130/30
74-83-9	Bromomethane	10	8.9	89	8.9	89	0	70-130/30
593-60-2	Bromoethene	10	8.5	85	8.7	87	2	70-130/30
100-44-7	Benzyl Chloride	10	6.2	62* a	6.1	61* a	2	70-130/30
75-15-0	Carbon disulfide	10	9.4	94	9.6	96	2	70-130/30
108-90-7	Chlorobenzene	10	8.6	86	8.5	85	1	70-130/30
75-00-3	Chloroethane	10	9.6	96	9.7	97	1	70-130/30
67-66-3	Chloroform	10	8.5	85	8.6	86	1	70-130/30
74-87-3	Chloromethane	10	10.6	106	10.7	107	1	70-130/30
107-05-1	3-Chloropropene	10	9.5	95	9.6	96	1	70-130/30
95-49-8	2-Chlorotoluene	10	8.6	86	8.5	85	1	70-130/30
56-23-5	Carbon tetrachloride	10	8.2	82	8.4	84	2	70-130/30
110-82-7	Cyclohexane	10	8.7	87	8.6	86	1	70-130/30
75-34-3	1,1-Dichloroethane	10	8.8	88	8.8	88	0	70-130/30
75-35-4	1,1-Dichloroethylene	10	8.7	87	8.9	89	2	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	8.8	88	8.7	87	1	70-130/30
107-06-2	1,2-Dichloroethane	10	8.6	86	8.7	87	1	70-130/30
78-87-5	1,2-Dichloropropane	10	8.7	87	8.6	86	1	70-130/30
123-91-1	1,4-Dioxane	10	8.9	89	9.0	90	1	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.7	97	9.6	96	1	70-130/30
124-48-1	Dibromochloromethane	10	8.9	89	8.7	87	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	8.3	83	8.5	85	2	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	8.3	83	8.4	84	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	8.6	86	8.5	85	1	70-130/30
541-73-1	m-Dichlorobenzene	10	8.5	85	8.6	86	1	70-130/30
95-50-1	o-Dichlorobenzene	10	8.6	86	8.6	86	0	70-130/30
106-46-7	p-Dichlorobenzene	10	8.4	84	8.3	83	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	8.5	85	8.4	84	1	70-130/30
64-17-5	Ethanol	10	10.2	102	10.3	103	1	70-130/30
100-41-4	Ethylbenzene	10	8.1	81	8.1	81	0	70-130/30
141-78-6	Ethyl Acetate	10	9.2	92	9.2	92	0	70-130/30
622-96-8	4-Ethyltoluene	10	9.0	90	8.9	89	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Page 2 of 3

Job Number: JD60927

Account: ESCVAR WSP USA Environment & Infrastructure Inc

Project: Former Ithaca Power Transmission, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W35-BS	7W00708.D	1	03/02/23	TCH	n/a	n/a	V7W35
V7W35-BSD	7W00709.D	1	03/02/23	TCH	n/a	n/a	V7W35

The QC reported here applies to the following samples:

Method: TO-15

JD60927-1, JD60927-2

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	8.5	85	8.7	87	2	70-130/30
76-14-2	Freon 114	10	9.2	92	9.3	93	1	70-130/30
142-82-5	Heptane	10	9.0	90	9.1	91	1	70-130/30
87-68-3	Hexachlorobutadiene	10	7.7	77	7.6	76	1	70-130/30
110-54-3	Hexane	10	9.1	91	9.1	91	0	70-130/30
591-78-6	2-Hexanone	10	8.7	87	8.7	87	0	70-130/30
67-63-0	Isopropyl Alcohol	10	9.8	98	10.1	101	3	70-130/30
75-09-2	Methylene chloride	10	8.8	88	8.8	88	0	70-130/30
78-93-3	Methyl ethyl ketone	10	8.5	85	8.6	86	1	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	8.5	85	8.4	84	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	7.7	77	8.0	80	4	70-130/30
80-62-6	Methylmethacrylate	10	8.8	88	8.5	85	3	70-130/30
115-07-1	Propylene	10	9.9	99	10.1	101	2	70-130/30
100-42-5	Styrene	10	8.7	87	8.7	87	0	70-130/30
71-55-6	1,1,1-Trichloroethane	10	8.1	81	8.3	83	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	9.2	92	9.0	90	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10	8.7	87	8.6	86	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	6.9	69* a	7.0	70	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	9.2	92	9.1	91	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	8.8	88	8.8	88	0	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	9.1	91	9.0	90	1	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	9.7	97	9.7	97	0	70-130/30
127-18-4	Tetrachloroethylene	10	7.8	78	7.9	79	1	70-130/30
109-99-9	Tetrahydrofuran	10	8.7	87	9.0	90	3	70-130/30
108-88-3	Toluene	10	7.9	79	7.8	78	1	70-130/30
79-01-6	Trichloroethylene	10	8.6	86	8.6	86	0	70-130/30
75-69-4	Trichlorofluoromethane	10	8.9	89	9.0	90	1	70-130/30
75-01-4	Vinyl chloride	10	9.6	96	9.9	99	3	70-130/30
108-05-4	Vinyl Acetate	10	8.1	81	8.3	83	2	70-130/30
	m,p-Xylene	20	16.5	83	16.4	82	1	70-130/30
95-47-6	o-Xylene	10	8.3	83	8.2	82	1	70-130/30
1330-20-7	Xylenes (total)	30	24.8	83	24.7	82	0	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD60927
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: Former Ithaca Power Transmission, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W35-BS	7W00708.D	1	03/02/23	TCH	n/a	n/a	V7W35
V7W35-BSD	7W00709.D	1	03/02/23	TCH	n/a	n/a	V7W35

The QC reported here applies to the following samples: Method: TO-15

JD60927-1, JD60927-2

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	97%	98%	65-128%

(a) Outside in house control limits.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 3

Job Number: JD60927

Account: ESCVAR WSP USA Environment & Infrastructure Inc

Project: Former Ithaca Power Transmission, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W9-BS	8W00205.D	1	02/06/23	TCH	n/a	n/a	V8W9
V8W9-BSD	8W00207.D	1	02/06/23	TCH	n/a	n/a	V8W9

The QC reported here applies to the following samples:

Method: TO-15

V8W9-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	9.6	96	9.5	95	1	70-130/30
106-99-0	1,3-Butadiene	10	11.3	113	10.8	108	5	70-130/30
71-43-2	Benzene	10	10.4	104	10.3	103	1	70-130/30
75-27-4	Bromodichloromethane	10	11.1	111	11.3	113	2	70-130/30
75-25-2	Bromoform	10	9.9	99	10.1	101	2	70-130/30
74-83-9	Bromomethane	10	10.5	105	10.2	102	3	70-130/30
593-60-2	Bromoethene	10	10.3	103	10.1	101	2	70-130/30
100-44-7	Benzyl Chloride	10	8.6	86	8.7	87	1	70-130/30
75-15-0	Carbon disulfide	10	11.1	111	10.7	107	4	70-130/30
108-90-7	Chlorobenzene	10	10.6	106	10.7	107	1	70-130/30
75-00-3	Chloroethane	10	10.7	107	10.5	105	2	70-130/30
67-66-3	Chloroform	10	11.4	114	11.5	115	1	70-130/30
74-87-3	Chloromethane	10	9.9	99	9.6	96	3	70-130/30
107-05-1	3-Chloropropene	10	11.1	111	10.6	106	5	70-130/30
95-49-8	2-Chlorotoluene	10	10.5	105	10.6	106	1	70-130/30
56-23-5	Carbon tetrachloride	10	10.5	105	10.4	104	1	70-130/30
110-82-7	Cyclohexane	10	10.6	106	10.6	106	0	70-130/30
75-34-3	1,1-Dichloroethane	10	11.0	110	10.9	109	1	70-130/30
75-35-4	1,1-Dichloroethylene	10	10.9	109	10.7	107	2	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	10.8	108	10.9	109	1	70-130/30
107-06-2	1,2-Dichloroethane	10	11.3	113	11.4	114	1	70-130/30
78-87-5	1,2-Dichloropropane	10	11.0	110	11.0	110	0	70-130/30
123-91-1	1,4-Dioxane	10	10.4	104	10.6	106	2	70-130/30
75-71-8	Dichlorodifluoromethane	10	11.9	119	11.8	118	1	70-130/30
124-48-1	Dibromochloromethane	10	10.4	104	10.5	105	1	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	10.6	106	10.6	106	0	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	10.6	106	10.5	105	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	9.7	97	9.7	97	0	70-130/30
541-73-1	m-Dichlorobenzene	10	11.2	112	11.4	114	2	70-130/30
95-50-1	o-Dichlorobenzene	10	11.6	116	11.8	118	2	70-130/30
106-46-7	p-Dichlorobenzene	10	11.2	112	11.4	114	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	9.5	95	9.5	95	0	70-130/30
64-17-5	Ethanol	10	11.6	116	11.3	113	3	70-130/30
100-41-4	Ethylbenzene	10	9.0	90	9.0	90	0	70-130/30
141-78-6	Ethyl Acetate	10	11.5	115	11.6	116	1	70-130/30
622-96-8	4-Ethyltoluene	10	11.4	114	11.5	115	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Page 2 of 3

Job Number: JD60927

Account: ESCVAR WSP USA Environment & Infrastructure Inc

Project: Former Ithaca Power Transmission, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W9-BS	8W00205.D	1	02/06/23	TCH	n/a	n/a	V8W9
V8W9-BSD	8W00207.D	1	02/06/23	TCH	n/a	n/a	V8W9

The QC reported here applies to the following samples:

Method: TO-15

V8W9-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	10.8	108	10.6	106	2	70-130/30
76-14-2	Freon 114	10	11.6	116	11.4	114	2	70-130/30
142-82-5	Heptane	10	10.3	103	10.4	104	1	70-130/30
87-68-3	Hexachlorobutadiene	10	10.5	105	10.8	108	3	70-130/30
110-54-3	Hexane	10	11.4	114	11.4	114	0	70-130/30
591-78-6	2-Hexanone	10	11.1	111	11.2	112	1	70-130/30
67-63-0	Isopropyl Alcohol	10	10.0	100	9.7	97	3	70-130/30
75-09-2	Methylene chloride	10	10.6	106	10.3	103	3	70-130/30
78-93-3	Methyl ethyl ketone	10	10.8	108	10.6	106	2	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	10.7	107	10.8	108	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	9.8	98	9.5	95	3	70-130/30
80-62-6	Methylmethacrylate	10	10.7	107	10.7	107	0	70-130/30
115-07-1	Propylene	10	10.2	102	10.0	100	2	70-130/30
100-42-5	Styrene	10	10.6	106	10.7	107	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10	10.5	105	10.4	104	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	11.6	116	11.8	118	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10	11.3	113	11.4	114	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	11.1	111	11.3	113	2	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	12.3	123	12.4	124	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	11.4	114	11.7	117	3	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10.9	109	11.0	110	1	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	9.5	95	9.2	92	3	70-130/30
127-18-4	Tetrachloroethylene	10	10.8	108	11.0	110	2	70-130/30
109-99-9	Tetrahydrofuran	10	10.8	108	10.7	107	1	70-130/30
108-88-3	Toluene	10	9.5	95	9.6	96	1	70-130/30
79-01-6	Trichloroethylene	10	10.7	107	10.9	109	2	70-130/30
75-69-4	Trichlorofluoromethane	10	11.4	114	11.4	114	0	70-130/30
75-01-4	Vinyl chloride	10	11.2	112	11.0	110	2	70-130/30
108-05-4	Vinyl Acetate	10	9.9	99	9.6	96	3	70-130/30
	m,p-Xylene	20	18.7	94	18.9	95	1	70-130/30
95-47-6	o-Xylene	10	9.5	95	9.6	96	1	70-130/30
1330-20-7	Xylenes (total)	30	28.2	94	28.5	95	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD60927
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: Former Ithaca Power Transmission, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W9-BS	8W00205.D	1	02/06/23	TCH	n/a	n/a	V8W9
V8W9-BSD	8W00207.D	1	02/06/23	TCH	n/a	n/a	V8W9

The QC reported here applies to the following samples: Method: TO-15

V8W9-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	100%	100%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Page 1 of 3

Job Number: JD60927

Account: ESCVAR WSP USA Environment & Infrastructure Inc

Project: Former Ithaca Power Transmission, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD60927-1DUP	7W00714.D	1	03/02/23	TCH	n/a	n/a	V7W35
JD60927-1	7W00713.D	1	03/02/23	TCH	n/a	n/a	V7W35

The QC reported here applies to the following samples:

Method: TO-15

JD60927-1, JD60927-2

CAS No.	Compound	JD60927-1 ppbv	DUP Q	ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	1.4		1.5		7	25
106-99-0	1,3-Butadiene	ND		ND		nc	25
71-43-2	Benzene	ND		ND		nc	25
75-27-4	Bromodichloromethane	ND		ND		nc	25
75-25-2	Bromoform	ND		ND		nc	25
74-83-9	Bromomethane	ND		ND		nc	25
593-60-2	Bromoethene	ND		ND		nc	25
100-44-7	Benzyl Chloride	ND		ND		nc	25
75-15-0	Carbon disulfide	ND		ND		nc	25
108-90-7	Chlorobenzene	ND		ND		nc	25
75-00-3	Chloroethane	ND		ND		nc	25
67-66-3	Chloroform	ND		ND		nc	25
74-87-3	Chloromethane	0.80		0.91		13	25
107-05-1	3-Chloropropene	ND		ND		nc	25
95-49-8	2-Chlorotoluene	ND		ND		nc	25
56-23-5	Carbon tetrachloride	ND		ND		nc	25
110-82-7	Cyclohexane	ND		ND		nc	25
75-34-3	1,1-Dichloroethane	ND		ND		nc	25
75-35-4	1,1-Dichloroethylene	ND		ND		nc	25
106-93-4	1,2-Dibromoethane (EDB)	ND		ND		nc	25
107-06-2	1,2-Dichloroethane	ND		ND		nc	25
78-87-5	1,2-Dichloropropane	ND		ND		nc	25
123-91-1	1,4-Dioxane	ND		ND		nc	25
75-71-8	Dichlorodifluoromethane	0.47	J	0.46	J	2	25
124-48-1	Dibromochloromethane	ND		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	0.47	J	0.43	J	9	25
156-59-2	cis-1,2-Dichloroethylene	100		105		5	25
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	25
541-73-1	m-Dichlorobenzene	ND		ND		nc	25
95-50-1	o-Dichlorobenzene	ND		ND		nc	25
106-46-7	p-Dichlorobenzene	ND		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	25
64-17-5	Ethanol	5.4		5.6		4	25
100-41-4	Ethylbenzene	ND		ND		nc	25
141-78-6	Ethyl Acetate	0.65	J	0.78	J	18	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Page 2 of 3

Job Number: JD60927

Account: ESCVAR WSP USA Environment & Infrastructure Inc

Project: Former Ithaca Power Transmission, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD60927-1DUP	7W00714.D	1	03/02/23	TCH	n/a	n/a	V7W35
JD60927-1	7W00713.D	1	03/02/23	TCH	n/a	n/a	V7W35

The QC reported here applies to the following samples:

Method: TO-15

JD60927-1, JD60927-2

CAS No.	Compound	JD60927-1 ppbv	DUP Q	ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND		ND		nc	25
76-14-2	Freon 114	ND		ND		nc	25
142-82-5	Heptane	ND		ND		nc	25
87-68-3	Hexachlorobutadiene	ND		ND		nc	25
110-54-3	Hexane	ND		ND		nc	25
591-78-6	2-Hexanone	ND		ND		nc	25
67-63-0	Isopropyl Alcohol	ND		ND		nc	25
75-09-2	Methylene chloride	ND		ND		nc	25
78-93-3	Methyl ethyl ketone	ND		ND		nc	25
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	25
80-62-6	Methylmethacrylate	ND		ND		nc	25
115-07-1	Propylene	ND		ND		nc	25
100-42-5	Styrene	ND		ND		nc	25
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	25
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	25
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	25
540-84-1	2,2,4-Trimethylpentane	ND		ND		nc	25
75-65-0	Tertiary Butyl Alcohol	ND		ND		nc	25
127-18-4	Tetrachloroethylene	ND		ND		nc	25
109-99-9	Tetrahydrofuran	ND		ND		nc	25
108-88-3	Toluene	ND		ND		nc	25
79-01-6	Trichloroethylene	40.9		44.0		7	25
75-69-4	Trichlorofluoromethane	ND		ND		nc	25
75-01-4	Vinyl chloride	6.0		6.4		6	25
108-05-4	Vinyl Acetate	ND		ND		nc	25
	m,p-Xylene	ND		ND		nc	25
95-47-6	o-Xylene	ND		ND		nc	25
1330-20-7	Xylenes (total)	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD60927
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: Former Ithaca Power Transmission, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD60927-1DUP	7W00714.D	1	03/02/23	TCH	n/a	n/a	V7W35
JD60927-1	7W00713.D	1	03/02/23	TCH	n/a	n/a	V7W35

The QC reported here applies to the following samples: Method: TO-15

JD60927-1, JD60927-2

CAS No.	Surrogate Recoveries	DUP	JD60927-1	Limits
460-00-4	4-Bromofluorobenzene	98%	90%	65-128%

* = Outside of Control Limits.

Summa Cleaning Certification

Page 1 of 3

Job Number: JD60927

Account: ESCVAR WSP USA Environment & Infrastructure Inc

Project: Former Ithaca Power Transmission, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W9-SCC	8W00211.D	1	02/06/23	TCH	n/a	n/a	V8W9

The QC reported here (Summa A398) applies to the following samples:

Method: TO-15

Batch CP12078 cleaned 01/31/23: JD60927-1(A1106), JD60927-2(A422)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.062	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.11	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.097	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.032	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

Page 2 of 3

Job Number: JD60927

Account: ESCVAR WSP USA Environment & Infrastructure Inc

Project: Former Ithaca Power Transmission, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W9-SCC	8W00211.D	1	02/06/23	TCH	n/a	n/a	V8W9

The QC reported here (Summa A398) applies to the following samples:

Method: TO-15

Batch CP12078 cleaned 01/31/23: JD60927-1(A1106), JD60927-2(A422)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.092	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.12	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.095	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.036	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JD60927
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: Former Ithaca Power Transmission, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V8W9-SCC	8W00211.D	1	02/06/23	TCH	n/a	n/a	V8W9

The QC reported here (Summa A398) applies to the following samples: Method: TO-15

Batch CP12078 cleaned 01/31/23: JD60927-1(A1106), JD60927-2(A422)

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	95% 65-128%

6.4.1
6

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JD60927

Account: ESCVAR WSP USA Environment & Infrastructure Inc

Project: Former Ithaca Power Transmission, Ithaca, NY

Sample: V7W5-BFB

Injection Date: 11/30/22

Lab File ID: 7W00090.D

Injection Time: 09:57

Instrument ID: GCMS7W

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	15648	20.2	Pass
75	30.0 - 66.0% of mass 95	39362	50.9	Pass
95	Base peak, 100% relative abundance	77379	100.0	Pass
96	5.0 - 9.0% of mass 95	4703	6.08	Pass
173	Less than 2.0% of mass 174	502	0.65 (0.84) ^a	Pass
174	50.0 - 120.0% of mass 95	60048	77.6	Pass
175	4.0 - 9.01% of mass 174	4685	6.05 (7.80) ^a	Pass
176	93.0 - 101.0% of mass 174	59629	77.1 (99.3) ^a	Pass
177	5.0 - 9.0% of mass 176	4038	5.22 (6.77) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W5-IC0005	7W00093.D	11/30/22	11:33	01:36	Initial cal 0.04
V7W5-IC0005	7W00094.D	11/30/22	12:06	02:09	Initial cal 0.1
V7W5-IC0005	7W00095.D	11/30/22	12:38	02:41	Initial cal 0.2
V7W5-IC0005	7W00096.D	11/30/22	13:09	03:12	Initial cal 0.5
V7W5-IC0005	7W00098.D	11/30/22	14:12	04:15	Initial cal 5
V7W5-IC0005	7W00099.D	11/30/22	14:44	04:47	Initial cal 10
V7W5-IC0005	7W00100.D	11/30/22	15:16	05:19	Initial cal 20
V7W5-IC0005	7W00101.D	11/30/22	15:51	05:54	Initial cal 40
V7W5-IC0005	7W00102.D	11/30/22	16:26	06:29	Initial cal 50
V7W5-ICV0005	7W00105.D	11/30/22	17:59	08:02	Initial cal verification 10

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JD60927

Account: ESCVAR WSP USA Environment & Infrastructure Inc

Project: Former Ithaca Power Transmission, Ithaca, NY

Sample: V7W35-BFB

Injection Date: 03/02/23

Lab File ID: 7W00706.D

Injection Time: 09:50

Instrument ID: GCMS7W

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	35312	20.7	Pass
75	30.0 - 66.0% of mass 95	90376	52.9	Pass
95	Base peak, 100% relative abundance	170731	100.0	Pass
96	5.0 - 9.0% of mass 95	10899	6.38	Pass
173	Less than 2.0% of mass 174	1192	0.70 (0.95) ^a	Pass
174	50.0 - 120.0% of mass 95	124821	73.1	Pass
175	4.0 - 9.01% of mass 174	9031	5.29 (7.24) ^a	Pass
176	93.0 - 101.0% of mass 174	117973	69.1 (94.5) ^a	Pass
177	5.0 - 9.0% of mass 176	7569	4.43 (6.42) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W35-CC5	7W00707.D	03/02/23	10:21	00:31	Continuing cal 10
V7W35-BS	7W00708.D	03/02/23	11:32	01:42	Blank Spike
V7W35-BSD	7W00709.D	03/02/23	12:26	02:36	Blank Spike Duplicate
V7W35-MB	7W00712.D	03/02/23	15:13	05:23	Method Blank
JD60927-1	7W00713.D	03/02/23	17:04	07:14	VPOST GAC
JD60927-1DUP	7W00714.D	03/02/23	17:36	07:46	Duplicate
JD60927-2	7W00715.D	03/02/23	18:07	08:17	VINF
ZZZZZZ	7W00716.D	03/02/23	18:43	08:53	(unrelated sample)
ZZZZZZ	7W00717.D	03/02/23	19:19	09:29	(unrelated sample)
ZZZZZZ	7W00718.D	03/02/23	19:55	10:05	(unrelated sample)
ZZZZZZ	7W00719.D	03/02/23	20:33	10:43	(unrelated sample)
ZZZZZZ	7W00720.D	03/02/23	21:11	11:21	(unrelated sample)

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JD60927

Account: ESCVAR WSP USA Environment & Infrastructure Inc

Project: Former Ithaca Power Transmission, Ithaca, NY

Sample: V8W1-BFB

Injection Date: 12/16/22

Lab File ID: 8W00006.D

Injection Time: 16:27

Instrument ID: GCMS8W

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	15729	13.6	Pass
75	30.0 - 66.0% of mass 95	56885	49.3	Pass
95	Base peak, 100% relative abundance	115283	100.0	Pass
96	5.0 - 9.0% of mass 95	7956	6.90	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	94600	82.1	Pass
175	4.0 - 9.01% of mass 174	6689	5.80 (7.07) ^a	Pass
176	93.0 - 101.0% of mass 174	91331	79.2 (96.5) ^a	Pass
177	5.0 - 9.0% of mass 176	5825	5.05 (6.38) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V8W1-IC0001	8W00007.D	12/16/22	17:01	00:34	Initial cal 0.04
V8W1-IC0001	8W00008.D	12/16/22	17:35	01:08	Initial cal 0.1
V8W1-IC0001	8W00009.D	12/16/22	18:09	01:42	Initial cal 0.2
V8W1-IC0001	8W00010.D	12/16/22	18:46	02:19	Initial cal 0.5
V8W1-IC0001	8W00012.D	12/16/22	19:56	03:29	Initial cal 5
V8W1-ICC0001	8W00013.D	12/16/22	20:32	04:05	Initial cal 10
V8W1-IC0001	8W00014.D	12/16/22	21:10	04:43	Initial cal 20
V8W1-IC0001	8W00015.D	12/16/22	21:51	05:24	Initial cal 40
V8W1-IC0001	8W00016.D	12/16/22	22:34	06:07	Initial cal 50
V8W1-ICV0001	8W00019.D	12/17/22	00:17	07:50	Initial cal verification 10

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: JD60927

Account: ESCVAR WSP USA Environment & Infrastructure Inc

Project: Former Ithaca Power Transmission, Ithaca, NY

Sample: V8W9-BFB

Injection Date: 02/06/23

Lab File ID: 8W00203.D

Injection Time: 09:14

Instrument ID: GCMS8W

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	16022	14.3	Pass
75	30.0 - 66.0% of mass 95	57443	51.4	Pass
95	Base peak, 100% relative abundance	111709	100.0	Pass
96	5.0 - 9.0% of mass 95	7879	7.05	Pass
173	Less than 2.0% of mass 174	543	0.49 (0.63) ^a	Pass
174	50.0 - 120.0% of mass 95	85963	77.0	Pass
175	4.0 - 9.01% of mass 174	6389	5.72 (7.43) ^a	Pass
176	93.0 - 101.0% of mass 174	81645	73.1 (95.0) ^a	Pass
177	5.0 - 9.0% of mass 176	5443	4.87 (6.67) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V8W9-CC0001	8W00204.D	02/06/23	09:50	00:36	Continuing cal 10
V8W9-BS	8W00205.D	02/06/23	11:10	01:56	Blank Spike
V8W9-BSD	8W00207.D	02/06/23	14:00	04:46	Blank Spike Duplicate
V8W9-MB	8W00209.D	02/06/23	15:29	06:15	Method Blank
V8W9-SCC	8W00210.D	02/06/23	16:37	07:23	Summa Cleaning Certification
V8W9-SCC	8W00211.D	02/06/23	17:12	07:58	Summa Cleaning Certification
V8W9-SCC	8W00213.D	02/06/23	18:27	09:13	Summa Cleaning Certification
V8W9-SCC	8W00214.D	02/06/23	19:08	09:54	Summa Cleaning Certification
V8W9-SCC	8W00215.D	02/06/23	19:47	10:33	Summa Cleaning Certification
V8W9-SCC	8W00216.D	02/06/23	20:28	11:14	Summa Cleaning Certification
V8W9-SCC	8W00217.D	02/06/23	21:09	11:55	Summa Cleaning Certification
V8W9-SCC	8W00219.D	02/06/23	22:30	13:16	Summa Cleaning Certification
V8W9-SCC	8W00220.D	02/06/23	23:05	13:51	Summa Cleaning Certification
V8W9-SCC	8W00221.D	02/06/23	23:40	14:26	Summa Cleaning Certification
V8W9-SCC	8W00222.D	02/07/23	00:15	15:01	Summa Cleaning Certification
V8W9-SCC	8W00223.D	02/07/23	00:55	15:41	Summa Cleaning Certification

Surrogate Recovery Summary

Job Number: JD60927
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: Former Ithaca Power Transmission, Ithaca, NY

Method: TO-15	Matrix: AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JD60927-1	7W00713.D	90
JD60927-2	7W00715.D	97
JD60927-1DUP	7W00714.D	98
V7W35-BS	7W00708.D	97
V7W35-BSD	7W00709.D	98
V7W35-MB	7W00712.D	90
V8W9-SCC	8W00211.D	95
V8W9-BS	8W00205.D	100
V8W9-BSD	8W00207.D	100
V8W9-MB	8W00209.D	94

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%

Q2 2023 AQUEOUS DATA

DPE AND TREATMENT SYSTEM

Sample Summary

WSP USA Environment & Infrastructure Inc

Job No: JD68580

EPT, Ithaca, NY
Project No: 31405608.00102

Sample Number	Collected		Matrix Received	Code	Type	Client Sample ID
	Date	Time By				

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

JD68580-1	06/29/23	12:20 NW	06/30/23	AQ	Water	WPOST GAC
JD68580-2	06/29/23	12:25 NW	06/30/23	AQ	Water	WMID GAC
JD68580-3	06/29/23	12:30 NW	06/30/23	AQ	Water	WAS
JD68580-4	06/29/23	12:40 NW	06/30/23	AQ	Influent	WINF

Report of Analysis

Page 1 of 2

Client Sample ID:	WPOST GAC	Date Sampled:	06/29/23
Lab Sample ID:	JD68580-1	Date Received:	06/30/23
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1K08462.D	1	07/04/23 09:22	NW	n/a	n/a	V1K248
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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	1.8	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 ^b	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	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	4.8	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	WPOST GAC	Date Sampled:	06/29/23
Lab Sample ID:	JD68580-1	Date Received:	06/30/23
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	4.9	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	
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 ^b	ND	1.0	0.52	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%		80-120%
17060-07-0	1,2-Dichloroethane-D4	98%		80-120%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	107%		82-114%

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

(b) Associated CCV outside of control limits high, 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

Page 1 of 2

Client Sample ID:	WMID GAC	Date Sampled:	06/29/23
Lab Sample ID:	JD68580-2	Date Received:	06/30/23
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1K08463.D	1	07/04/23 09:48	NW	n/a	n/a	V1K248
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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	1.8	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 ^b	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	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	6.3	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	4.8	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	WMID GAC	Date Sampled:	06/29/23
Lab Sample ID:	JD68580-2	Date Received:	06/30/23
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	4.9	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	
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 ^b	ND	1.0	0.52	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	98%		80-120%
2037-26-5	Toluene-D8	105%		80-120%
460-00-4	4-Bromofluorobenzene	106%		82-114%

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

(b) Associated CCV outside of control limits high, 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

Page 1 of 2

Client Sample ID:	WAS						
Lab Sample ID:	JD68580-3					Date Sampled:	06/29/23
Matrix:	AQ - Water					Date Received:	06/30/23
Method:	SW846 8260D					Percent Solids:	n/a
Project:	EPT, Ithaca, NY						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1K08464.D	1	07/04/23 10:13	NW	n/a	n/a	V1K248
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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	1.8	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 ^b	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	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	9.0	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	4.8	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	WAS	Date Sampled:	06/29/23
Lab Sample ID:	JD68580-3	Date Received:	06/30/23
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	4.9	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	
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	0.67	1.0	0.53	ug/l	J
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride ^b	ND	1.0	0.52	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	98%		80-120%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	105%		82-114%

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

(b) Associated CCV outside of control limits high, 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

Page 1 of 2

Client Sample ID:	WINF	Date Sampled:	06/29/23
Lab Sample ID:	JD68580-4	Date Received:	06/30/23
Matrix:	AQ - Influent	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1K08446.D	4	07/04/23 02:38	NW	n/a	n/a	V1K248
Run #2	2U58460.D	4	07/11/23 15:44	KD	n/a	n/a	V2U2268
Run #3	1U58338.D	100	07/07/23 13:15	KD	n/a	n/a	V1U2262

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	40	12	ug/l	
71-43-2	Benzene	ND	2.0	1.7	ug/l	
75-27-4	Bromodichloromethane	ND	4.0	1.8	ug/l	
75-25-2	Bromoform	ND	4.0	2.5	ug/l	
74-83-9	Bromomethane	ND	8.0	6.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	40	11	ug/l	
75-15-0	Carbon disulfide ^b	ND	8.0	7.2	ug/l	
56-23-5	Carbon tetrachloride	ND	4.0	2.2	ug/l	
108-90-7	Chlorobenzene	ND	4.0	2.2	ug/l	
75-00-3	Chloroethane ^c	ND	4.0	2.9	ug/l	
67-66-3	Chloroform	ND	4.0	2.0	ug/l	
74-87-3	Chloromethane	ND	4.0	3.0	ug/l	
110-82-7	Cyclohexane	ND	20	3.1	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	8.0	2.1	ug/l	
124-48-1	Dibromochloromethane	ND	4.0	2.2	ug/l	
106-93-4	1,2-Dibromoethane	ND	4.0	1.9	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.0	2.1	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.0	2.2	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.0	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	8.0	2.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	4.0	2.3	ug/l	
107-06-2	1,2-Dichloroethane	ND	4.0	2.4	ug/l	
75-35-4	1,1-Dichloroethene	10.7	4.0	2.4	ug/l	
156-59-2	cis-1,2-Dichloroethene	4680 ^d	100	51	ug/l	
156-60-5	trans-1,2-Dichloroethene	83.6	4.0	2.1	ug/l	
78-87-5	1,2-Dichloropropane	ND	4.0	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	4.0	1.9	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	4.0	1.7	ug/l	
100-41-4	Ethylbenzene	ND	4.0	2.4	ug/l	
76-13-1	Freon 113	ND	20	2.3	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

Page 2 of 2

Client Sample ID:	WINF	Date Sampled:	06/29/23
Lab Sample ID:	JD68580-4	Date Received:	06/30/23
Matrix:	AQ - Influent	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	20	19	ug/l	
98-82-8	Isopropylbenzene	ND	4.0	2.6	ug/l	
79-20-9	Methyl Acetate	ND	20	3.2	ug/l	
108-87-2	Methylcyclohexane	ND	20	2.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	20	19	ug/l	
75-09-2	Methylene chloride	ND	8.0	4.0	ug/l	
100-42-5	Styrene	ND	4.0	1.9	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.0	2.6	ug/l	
127-18-4	Tetrachloroethene	ND	4.0	2.2	ug/l	
108-88-3	Toluene	ND	4.0	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.0	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	4.0	2.1	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	4.0	2.1	ug/l	
79-01-6	Trichloroethene	2560 ^d	100	53	ug/l	
75-69-4	Trichlorofluoromethane	ND	8.0	1.6	ug/l	
75-01-4	Vinyl chloride	45.7 ^e	4.0	2.1	ug/l	
1330-20-7	Xylene (total)	ND	4.0	2.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	102%	96%	102%	80-120%
17060-07-0	1,2-Dichloroethane-D4	95%	96%	100%	80-120%
2037-26-5	Toluene-D8	104%	90%	91%	80-120%
460-00-4	4-Bromofluorobenzene	108%	94%	94%	82-114%

(a) Dilution required due to high concentration of target compound.

(b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

(c) Associated CCV outside of control limits high, sample was ND.

(d) Result is from Run# 3

(e) 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

ww

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

Page 1 of 1

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

[illegible]

1240

JD68580: Chain of Custody

Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD68580

Client: WSP

Project: EPT, ITHACA, NY

Date / Time Received: 6/30/2023 10:15:00 AM

Delivery Method: Fedex

Airbill #s:
Cooler Temps (Raw Measured) °C: Cooler 1: (2.2);

Cooler Temps (Corrected) °C: Cooler 1: (2.0);

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: IR Gun 40	
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

JD68580: Chain of Custody

Page 2 of 2

Q3 2023 AQUEOUS DATA

DPE AND TREATMENT SYSTEM

Sample Summary

WSP USA Environment & Infrastructure Inc

Job No: JD71208

EPT, Ithaca, NY
Project No: 31405608.001 02

Sample Number	Collected		Matrix		Client Sample ID
	Date	Time By	Received	Code Type	

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

JD71208-1	08/16/23	14:30 NW/K	08/17/23	AQ	Water	WPOST GAC
JD71208-2	08/16/23	14:35 NW/K	08/17/23	AQ	Water	WMID GAC
JD71208-3	08/16/23	14:40 NW/K	08/17/23	AQ	Water	WAS
JD71208-4	08/16/23	14:45 NW/K	08/17/23	AQ	Influent	WINF

Report of Analysis

Page 1 of 2

Client Sample ID:	WPOST GAC	
Lab Sample ID:	JD71208-1	Date Sampled: 08/16/23
Matrix:	AQ - Water	Date Received: 08/17/23
Method:	SW846 8260D	Percent Solids: n/a
Project:	EPT, Ithaca, NY	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5A679.D	1	08/18/23 23:48	LD	n/a	n/a	V5A19
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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	1.8	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 ^a	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane ^b	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	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	4.3	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	4.8	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	WPOST GAC	Date Sampled:	08/16/23
Lab Sample ID:	JD71208-1	Date Received:	08/17/23
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	4.9	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	
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 ^b	ND	1.0	0.52	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	106%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

(b) Associated CCV outside of control limits high, 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

Page 1 of 2

Client Sample ID:	WMID GAC	
Lab Sample ID:	JD71208-2	Date Sampled: 08/16/23
Matrix:	AQ - Water	Date Received: 08/17/23
Method:	SW846 8260D	Percent Solids: n/a
Project:	EPT, Ithaca, NY	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2N4344.D	1	08/21/23 11:49	LD	n/a	n/a	V2N118
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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	1.8	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 ^a	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	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	4.8	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	WMID GAC	Date Sampled:	08/16/23
Lab Sample ID:	JD71208-2	Date Received:	08/17/23
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	4.9	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	
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	
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	114%		80-120%
17060-07-0	1,2-Dichloroethane-D4	102%		80-120%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	101%		82-114%

(a) Associated CCV outside of control limits high, 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

Page 1 of 2

Client Sample ID:	WAS	
Lab Sample ID:	JD71208-3	Date Sampled: 08/16/23
Matrix:	AQ - Water	Date Received: 08/17/23
Method:	SW846 8260D	Percent Solids: n/a
Project:	EPT, Ithaca, NY	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5A681.D	1	08/19/23 00:24	LD	n/a	n/a	V5A19
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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	1.8	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 ^a	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane ^b	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	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	1.7	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	4.8	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	WAS	Date Sampled:	08/16/23
Lab Sample ID:	JD71208-3	Date Received:	08/17/23
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	4.9	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	
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 ^b	ND	1.0	0.52	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%		80-120%
17060-07-0	1,2-Dichloroethane-D4	102%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	102%		82-114%

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

(b) Associated CCV outside of control limits high, 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

Page 1 of 2

Client Sample ID:	WINF	Date Sampled:	08/16/23
Lab Sample ID:	JD71208-4	Date Received:	08/17/23
Matrix:	AQ - Influent	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4A682.D	1	08/19/23 00:42	LD	n/a	n/a	V4A19
Run #2	2N4342.D	4	08/21/23 11:21	LD	n/a	n/a	V2N118
Run #3	1N4343.D	40	08/21/23 11:35	LD	n/a	n/a	V1N118

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

VOA TCL List (OLM4.2)

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	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform ^a	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	1.8	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 ^b	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 ^a	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan ^a	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	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	0.90	1.0	0.59	ug/l	J
156-59-2	cis-1,2-Dichloroethene	1600 ^c	40	20	ug/l	
156-60-5	trans-1,2-Dichloroethene	5.6	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	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WINF	Date Sampled:	08/16/23
Lab Sample ID:	JD71208-4	Date Received:	08/17/23
Matrix:	AQ - Influent	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	4.8	ug/l	
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	4.9	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	
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	183	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	53.3 ^d	4.0	2.1	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	101%	116%	116%	80-120%
17060-07-0	1,2-Dichloroethane-D4	99%	103%	101%	80-120%
2037-26-5	Toluene-D8	101%	103%	106%	80-120%
460-00-4	4-Bromofluorobenzene	103%	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) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- (c) Result is from Run# 3
- (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

4.7
FR-40

SGS Sample Receipt Summary

Job Number: JD71208

Client: WSP

Project: FORMER ITHACA POWER TRANSMISSI

Date / Time Received: 8/17/2023 10:32:00 AM

Delivery Method: FED EX

Airbill #s:
Cooler Temps (Raw Measured) °C: Cooler 1: (4.7);

Cooler Temps (Corrected) °C: Cooler 1: (4.4);

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: IR Gun 40	
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

JD71208: Chain of Custody

Page 2 of 2

Q3 2023 VAPOR DATA

DPE AND TREATMENT SYSTEM

Sample Summary

WSP USA Environment & Infrastructure Inc

Job No: JD71332

Emersub 15, LLC, Ithaca, NY
Project No: 31405608.001 02

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID

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

JD71332-1	08/16/23	15:00	NTW	08/18/23	AIR	Air	VINF

JD71332-2	08/16/23	15:10	NTW	08/18/23	AIR	Air	VPOSTGAC

Report of Analysis

Page 1 of 2

Client Sample ID:	VINF	Date Sampled:	08/16/23
Lab Sample ID:	JD71332-1	Date Received:	08/18/23
Matrix:	AIR - Air Summa ID: A1121	Percent Solids:	n/a
Method:	TO-15		
Project:	Emersub 15, LLC, Ithaca, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8W01580.D	1	08/21/23 17:06	TS	n/a	n/a	V8W65
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	11.6	0.80	0.58	ppbv		27.6	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	ND	0.80	0.58	ppbv		ND	2.6	1.9	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.40	0.12	ppbv		ND	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.16	0.28	ppbv		ND	1.7	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.16	0.16	ppbv		ND	1.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.18	ppbv		ND	2.8	0.62	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.16	0.24	ppbv		ND	0.63	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	1.7	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.80	0.42	ppbv		ND	4.0	2.1	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.40	0.21	ppbv		ND	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	1.8	0.16	0.12	ppbv		7.1	0.63	0.48	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.40	0.16	ppbv		ND	2.4	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.16	0.28	ppbv		ND	0.96	1.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.40	0.32	ppbv		ND	2.4	1.9	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

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:	VINF		
Lab Sample ID:	JD71332-1		
Matrix:	AIR - Air	Summa ID:	A1121
Method:	TO-15	Date Sampled:	08/16/23
Project:	Emersub 15, LLC, Ithaca, NY	Date Received:	08/18/23
		Percent Solids:	n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	4.1	2.0	1.6	ppbv		7.7	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.42	ppbv		ND	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.40	0.20	ppbv		ND	2.8	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.18	ppbv		ND	3.3	0.74	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.36	0.25	ppbv		ND	3.8	2.7	ug/m3
110-54-3	86.18	Hexane	ND	0.80	0.21	ppbv		ND	2.8	0.74	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.56	ppbv		ND	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.22	ppbv		ND	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.58	0.80	0.44	ppbv	J	1.7	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.21	ppbv		ND	3.4	0.89	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.40	0.19	ppbv		ND	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.40	0.48	ppbv		ND	3.0	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.16	ppbv		ND	3.7	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.16	0.056	ppbv		ND	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	ND	0.80	0.23	ppbv		ND	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	0.79	0.16	0.076	ppbv		4.2	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.40	0.62	ppbv		ND	2.2	3.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.16	0.28	ppbv		ND	0.41	0.72	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		65-128%

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	VPOSTGAC	Date Sampled:	08/16/23
Lab Sample ID:	JD71332-2	Date Received:	08/18/23
Matrix:	AIR - Air Summa ID: A1147	Percent Solids:	n/a
Method:	TO-15		
Project:	Emersub 15, LLC, Ithaca, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8W01581.D	1	08/21/23 17:40	TS	n/a	n/a	V8W65
Run #2							

Run #	Initial Volume
Run #1	40.0 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	3.5	2.0	1.5	ppbv		8.3	4.8	3.6	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	2.0	0.84	ppbv		ND	4.4	1.9	ug/m3
71-43-2	78.11	Benzene	ND	2.0	1.5	ppbv		ND	6.4	4.8	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	1.0	0.30	ppbv		ND	6.7	2.0	ug/m3
75-25-2	252.8	Bromoform	ND	0.40	0.71	ppbv		ND	4.1	7.3	ug/m3
74-83-9	94.94	Bromomethane	ND	2.0	0.69	ppbv		ND	7.8	2.7	ug/m3
593-60-2	106.9	Bromoethene	ND	2.0	0.61	ppbv		ND	8.7	2.7	ug/m3
100-44-7	126	Benzyl Chloride	ND	2.0	1.3	ppbv		ND	10	6.7	ug/m3
75-15-0	76.14	Carbon disulfide	ND	2.0	0.45	ppbv		ND	6.2	1.4	ug/m3
108-90-7	112.6	Chlorobenzene	ND	2.0	0.74	ppbv		ND	9.2	3.4	ug/m3
75-00-3	64.52	Chloroethane	ND	2.0	0.68	ppbv		ND	5.3	1.8	ug/m3
67-66-3	119.4	Chloroform	ND	2.0	0.37	ppbv		ND	9.8	1.8	ug/m3
74-87-3	50.49	Chloromethane	ND	2.0	0.90	ppbv		ND	4.1	1.9	ug/m3
107-05-1	76.53	3-Chloropropene	ND	2.0	0.83	ppbv		ND	6.3	2.6	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	2.0	0.72	ppbv		ND	10	3.7	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.40	0.40	ppbv		ND	2.5	2.5	ug/m3
110-82-7	84.16	Cyclohexane	ND	2.0	0.45	ppbv		ND	6.9	1.5	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	2.0	0.57	ppbv		ND	8.1	2.3	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.40	0.59	ppbv		ND	1.6	2.3	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	1.0	0.30	ppbv		ND	7.7	2.3	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	2.0	0.70	ppbv		ND	8.1	2.8	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	2.0	0.62	ppbv		ND	9.2	2.9	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	2.0	1.2	ppbv		ND	7.2	4.3	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	2.0	1.0	ppbv		ND	9.9	4.9	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	1.0	0.52	ppbv		ND	8.5	4.4	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	2.1	2.0	0.28	ppbv		8.3	7.9	1.1	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	287	0.40	0.30	ppbv		1140	1.6	1.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	2.0	0.62	ppbv		ND	9.1	2.8	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	1.0	0.40	ppbv		ND	6.0	2.4	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.40	0.69	ppbv		ND	2.4	4.1	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	1.0	0.79	ppbv		ND	6.0	4.7	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	2.0	1.0	ppbv		ND	9.1	4.5	ug/m3

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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:	VPOSTGAC	Date Sampled:	08/16/23
Lab Sample ID:	JD71332-2	Date Received:	08/18/23
Matrix:	AIR - Air Summa ID: A1147	Percent Solids:	n/a
Method:	TO-15		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	5.0	3.9	ppbv		ND	9.4	7.3	ug/m3
100-41-4	106.2	Ethylbenzene	ND	2.0	0.61	ppbv		ND	8.7	2.6	ug/m3
141-78-6	88	Ethyl Acetate	ND	2.0	1.0	ppbv		ND	7.2	3.6	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	2.0	0.95	ppbv		ND	9.8	4.7	ug/m3
76-13-1	187.4	Freon 113	ND	1.0	0.31	ppbv		ND	7.7	2.4	ug/m3
76-14-2	170.9	Freon 114	ND	1.0	0.50	ppbv		ND	7.0	3.5	ug/m3
142-82-5	100.2	Heptane	ND	2.0	0.45	ppbv		ND	8.2	1.8	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.90	0.62	ppbv		ND	9.6	6.6	ug/m3
110-54-3	86.18	Hexane	ND	2.0	0.52	ppbv		ND	7.0	1.8	ug/m3
591-78-6	100	2-Hexanone	ND	2.0	1.5	ppbv		ND	8.2	6.1	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	2.0	1.4	ppbv		ND	4.9	3.4	ug/m3
75-09-2	84.94	Methylene chloride	ND	2.0	0.56	ppbv		ND	6.9	1.9	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	2.0	1.1	ppbv		ND	5.9	3.2	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	2.0	0.73	ppbv		ND	8.2	3.0	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	2.0	0.80	ppbv		ND	7.2	2.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	2.0	0.70	ppbv		ND	8.2	2.9	ug/m3
115-07-1	42	Propylene	ND	5.0	1.4	ppbv		ND	8.6	2.4	ug/m3
100-42-5	104.1	Styrene	ND	2.0	0.53	ppbv		ND	8.5	2.3	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	1.0	0.37	ppbv		ND	5.5	2.0	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	1.0	0.48	ppbv		ND	6.9	3.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	1.0	0.38	ppbv		ND	5.5	2.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	1.0	1.2	ppbv		ND	7.4	8.9	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	2.0	0.87	ppbv		ND	9.8	4.3	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	2.0	0.80	ppbv		ND	9.8	3.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	2.0	0.40	ppbv		ND	9.3	1.9	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	2.0	0.93	ppbv		ND	6.1	2.8	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.40	0.14	ppbv		ND	2.7	0.95	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	2.0	0.90	ppbv		ND	5.9	2.7	ug/m3
108-88-3	92.14	Toluene	ND	2.0	0.57	ppbv		ND	7.5	2.1	ug/m3
79-01-6	131.4	Trichloroethylene	104	0.40	0.19	ppbv		559	2.1	1.0	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	1.0	1.5	ppbv		ND	5.6	8.4	ug/m3
75-01-4	62.5	Vinyl chloride	20.9	0.40	0.69	ppbv		53.4	1.0	1.8	ug/m3
108-05-4	86	Vinyl Acetate	ND	2.0	1.1	ppbv		ND	7.0	3.9	ug/m3
	106.2	m,p-Xylene	ND	2.0	1.4	ppbv		ND	8.7	6.1	ug/m3
95-47-6	106.2	o-Xylene	ND	2.0	0.77	ppbv		ND	8.7	3.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	2.0	0.77	ppbv		ND	8.7	3.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		65-128%

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

Q4 2023 AQUEOUS DATA

DPE AND TREATMENT SYSTEM

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

WSP USA Environment & Infrastructure Inc

Emersub 15, LLC, Ithaca, NY

31405608.001/TASK02

SGS Job Number: JD74178

Sampling Date: 10/04/23

Report to:

jeffrey.baker@wsp.com

ATTN: Distribution5

Total number of pages in report: **16**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

David Chastain
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary 3

Section 2: Summary of Hits 4

Section 3: Sample Results 5

3.1: JD74178-1: WPOSTGAC 6

3.2: JD74178-2: WMIDGAC 8

3.3: JD74178-3: WAS 10

3.4: JD74178-4: WINF 12

Section 4: Misc. Forms 14

4.1: Chain of Custody 15



Sample Summary

WSP USA Environment & Infrastructure Inc

Job No: JD74178

Emersub 15, LLC, Ithaca, NY
Project No: 31405608.001/TASK02

Sample Number	Collected		Matrix		Client	
	Date	Time By	Received	Code Type	Sample ID	

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

JD74178-1	10/04/23	10:20 KGG	10/05/23	AQ	Water	WPOSTGAC
JD74178-2	10/04/23	10:30 KGG	10/05/23	AQ	Water	WMIDGAC
JD74178-3	10/04/23	10:40 KGG	10/05/23	AQ	Water	WAS
JD74178-4	10/04/23	10:50 KGG	10/05/23	AQ	Influent	WINF

Summary of Hits

Page 1 of 1

Job Number: JD74178
Account: WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Collected: 10/04/23

Lab Sample ID	Client Sample ID	Result/ Analyte Qual	RL	MDL	Units	Method
JD74178-1	WPOSTGAC					
Acetone		4.1 J	5.0	3.0	ug/l	EPA 624.1
cis-1,2-Dichloroethene		4.6	1.0	0.51	ug/l	EPA 624.1
JD74178-2	WMIDGAC					
No hits reported in this sample.						
JD74178-3	WAS					
cis-1,2-Dichloroethene		2.1	1.0	0.51	ug/l	EPA 624.1
JD74178-4	WINF					
1,1-Dichloroethene ^a		4.3 J	5.0	2.2	ug/l	EPA 624.1
cis-1,2-Dichloroethene		2590	50	25	ug/l	EPA 624.1
trans-1,2-Dichloroethene ^a		36.6	5.0	2.3	ug/l	EPA 624.1
Trichloroethene ^a		711	5.0	2.1	ug/l	EPA 624.1
Vinyl chloride ^a		190	5.0	3.9	ug/l	EPA 624.1

(a) Dilution required due to high concentration of target compound.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	WPOSTGAC	Date Sampled:	10/04/23
Lab Sample ID:	JD74178-1	Date Received:	10/05/23
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	EPA 624.1		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L359642.D	1	10/07/23 04:34	NW	n/a	n/a	VL10953
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.1	5.0	3.0	ug/l	J
71-43-2	Benzene	ND	1.0	0.71	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.94	ug/l	
75-25-2	Bromoform	ND	1.0	0.60	ug/l	
74-83-9	Bromomethane	ND	1.0	0.87	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.52	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.87	ug/l	
75-00-3	Chloroethane	ND	1.0	0.54	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.78	ug/l	
98-82-8	Cumene	ND	1.0	0.77	ug/l	
110-82-7	Cyclohexane	ND	2.0	0.66	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.98	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.1	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	4.6	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.46	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.96	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	0.93	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
76-13-1	Freon 113	ND	2.0	0.87	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.8	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:	WPOSTGAC	Date Sampled:	10/04/23
Lab Sample ID:	JD74178-1	Date Received:	10/05/23
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	EPA 624.1		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.94	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	3.2	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.41	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.64	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	1.4	ug/l	
100-42-5	Styrene	ND	2.0	0.98	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.73	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.76	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	93%		80-128%
2037-26-5	Toluene-D8 (SUR)	101%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	89%		79-117%
1868-53-7	Dibromofluoromethane (S)	108%		84-121%

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:	WMIDGAC	Date Sampled:	10/04/23
Lab Sample ID:	JD74178-2	Date Received:	10/05/23
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	EPA 624.1		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L359643.D	1	10/07/23 04:57	NW	n/a	n/a	VL10953
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.71	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.94	ug/l	
75-25-2	Bromoform	ND	1.0	0.60	ug/l	
74-83-9	Bromomethane	ND	1.0	0.87	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.52	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.87	ug/l	
75-00-3	Chloroethane	ND	1.0	0.54	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.78	ug/l	
98-82-8	Cumene	ND	1.0	0.77	ug/l	
110-82-7	Cyclohexane	ND	2.0	0.66	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.98	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.1	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	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	0.46	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.96	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	0.93	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
76-13-1	Freon 113	ND	2.0	0.87	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.8	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:	WMIDGAC	Date Sampled:	10/04/23
Lab Sample ID:	JD74178-2	Date Received:	10/05/23
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	EPA 624.1		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.94	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	3.2	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.41	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.64	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	1.4	ug/l	
100-42-5	Styrene	ND	2.0	0.98	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.73	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.76	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	92%		80-128%
2037-26-5	Toluene-D8 (SUR)	102%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	89%		79-117%
1868-53-7	Dibromofluoromethane (S)	108%		84-121%

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:	WAS	
Lab Sample ID:	JD74178-3	Date Sampled: 10/04/23
Matrix:	AQ - Water	Date Received: 10/05/23
Method:	EPA 624.1	Percent Solids: n/a
Project:	Emersub 15, LLC, Ithaca, NY	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L359644.D	1	10/07/23 05:20	NW	n/a	n/a	VL10953
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.71	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.94	ug/l	
75-25-2	Bromoform	ND	1.0	0.60	ug/l	
74-83-9	Bromomethane	ND	1.0	0.87	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.0	ug/l	
75-15-0	Carbon disulfide	ND	1.0	0.52	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.87	ug/l	
75-00-3	Chloroethane	ND	1.0	0.54	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.78	ug/l	
98-82-8	Cumene	ND	1.0	0.77	ug/l	
110-82-7	Cyclohexane	ND	2.0	0.66	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.98	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.1	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.1	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.46	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.96	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	0.93	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
76-13-1	Freon 113	ND	2.0	0.87	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.8	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:	WAS	Date Sampled:	10/04/23
Lab Sample ID:	JD74178-3	Date Received:	10/05/23
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	EPA 624.1		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.94	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	3.2	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.41	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.64	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	1.4	ug/l	
100-42-5	Styrene	ND	2.0	0.98	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.73	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.33	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.76	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	97%		80-128%
2037-26-5	Toluene-D8 (SUR)	100%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	89%		79-117%
1868-53-7	Dibromofluoromethane (S)	109%		84-121%

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:	WINF	Date Sampled:	10/04/23
Lab Sample ID:	JD74178-4	Date Received:	10/05/23
Matrix:	AQ - Influent	Percent Solids:	n/a
Method:	EPA 624.1		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L359646.D	5	10/07/23 06:06	NW	n/a	n/a	VL10953
Run #2	L359645.D	50	10/07/23 05:43	NW	n/a	n/a	VL10953

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

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	15	ug/l	
71-43-2	Benzene	ND	5.0	3.6	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	4.7	ug/l	
75-25-2	Bromoform	ND	5.0	3.0	ug/l	
74-83-9	Bromomethane	ND	5.0	4.3	ug/l	
78-93-3	2-Butanone (MEK)	ND	25	9.9	ug/l	
75-15-0	Carbon disulfide	ND	5.0	2.6	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.8	ug/l	
108-90-7	Chlorobenzene	ND	5.0	4.4	ug/l	
75-00-3	Chloroethane	ND	5.0	2.7	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
74-87-3	Chloromethane	ND	5.0	3.9	ug/l	
98-82-8	Cumene	ND	5.0	3.8	ug/l	
110-82-7	Cyclohexane	ND	10	3.3	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	4.9	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	1.4	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	5.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	4.6	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	3.5	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	2.1	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	4.8	ug/l	
75-35-4	1,1-Dichloroethene	4.3	5.0	2.2	ug/l	J
156-59-2	cis-1,2-Dichloroethene	2590 ^b	50	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	36.6	5.0	2.3	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	4.8	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	4.6	ug/l	
100-41-4	Ethylbenzene	ND	5.0	4.2	ug/l	
76-13-1	Freon 113	ND	10	4.3	ug/l	
591-78-6	2-Hexanone	ND	25	8.8	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WINF	Date Sampled:	10/04/23
Lab Sample ID:	JD74178-4	Date Received:	10/05/23
Matrix:	AQ - Influent	Percent Solids:	n/a
Method:	EPA 624.1		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	4.7	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	25	16	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
79-20-9	Methyl Acetate	ND	25	3.2	ug/l	
108-87-2	Methylcyclohexane	ND	25	7.2	ug/l	
100-42-5	Styrene	ND	10	4.9	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	3.6	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	2.0	ug/l	
108-88-3	Toluene	ND	5.0	3.8	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.2	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.0	ug/l	
79-01-6	Trichloroethene	711	5.0	2.1	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	1.7	ug/l	
75-01-4	Vinyl chloride	190	5.0	3.9	ug/l	
1330-20-7	Xylenes (total)	ND	5.0	3.8	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	91%	90%	80-128%
2037-26-5	Toluene-D8 (SUR)	98%	103%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	87%	87%	79-117%
1868-53-7	Dibromofluoromethane (S)	106%	105%	84-121%

(a) Dilution required due to high concentration of target compound.

(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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



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

FED-ES Trapping # 7005 21832 0303	Bottle Style TM-02623-135
SGS Queue #	SGS Job # JD 74478

[illegible]

EISA DAC 0023-05 Rev. Data: 8/5/77

Dr-40

Page 1 of 2



JD74178

SGS Sample Receipt Summary

Job Number: JD74178

Client: WSP

Project: FORMER ITHACA POWER TRANSMISSI

Date / Time Received: 10/5/2023 10:10:00 AM

Delivery Method: FED EX

Airbill #'s: 7003 7832 0303

Cooler Temps (Raw Measured) °C: Cooler 1: (4.7);

Cooler Temps (Corrected) °C: Cooler 1: (4.4);

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: IR Gun 40	
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

JD74178: Chain of Custody

Page 2 of 2

Q4 2023 VAPOR DATA

DPE AND TREATMENT SYSTEM

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

WSP USA Environment & Infrastructure Inc

Former Ithaca Power Transmission, Ithaca, NY

31405608.001/TASK02

SGS Job Number: JD74233

Sampling Date: 10/04/23

Report to:

WSP
5411 SkyCenter Drive Suite 650
Tampa, FL 33607
Jeffrey.Baker@wsp.com

ATTN: Jeffrey Baker

Total number of pages in report: 17



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

A handwritten signature in blue ink, appearing to read "D. Chastain".

David Chastain
General Manager

Client Service contact: Tammy McCloskey 732-329-0200
Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary 3

Section 2: Summary of Hits 4

Section 3: Sample Results 6

3.1: JD74233-1: VINF 7

3.2: JD74233-2: VPOSTGAC 10

Section 4: Misc. Forms 12

4.1: Chain of Custody 13

4.2: Summa Canister and Flow Controller Log 15

4.3: Sample Tracking Chronicle 16

4.4: Internal Chain of Custody 17



Sample Summary

WSP USA Environment & Infrastructure Inc

Job No: JD74233

Former Ithaca Power Transmission, Ithaca, NY
Project No: 31405608.001/TASK02

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID

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

JD74233-1	10/04/23	11:00	KGG	10/05/23	AIR	Air	VINF

JD74233-2	10/04/23	11:10	KGG	10/05/23	AIR	Air	VPOSTGAC

Summary of Hits

Job Number: JD74233
Account: WSP USA Environment & Infrastructure Inc
Project: Former Ithaca Power Transmission, Ithaca, NY
Collected: 10/04/23

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JD74233-1 VINF

Acetone (2-Propanone)	9.5	0.80	0.58	ppbv	TO-15
Chloromethane	0.65 J	0.80	0.36	ppbv	TO-15
1,1-Dichloroethylene	2.2	0.16	0.24	ppbv	TO-15
Dichlorodifluoromethane	0.44 J	0.80	0.42	ppbv	TO-15
trans-1,2-Dichloroethylene	5.8	0.80	0.11	ppbv	TO-15
cis-1,2-Dichloroethylene	739	1.3	0.95	ppbv	TO-15
Ethanol	5.1	2.0	1.6	ppbv	TO-15
Hexane	1.1	0.80	0.21	ppbv	TO-15
Methylene chloride	2.0	0.80	0.22	ppbv	TO-15
Methyl ethyl ketone	0.89	0.80	0.44	ppbv	TO-15
Tetrachloroethylene	0.26	0.16	0.056	ppbv	TO-15
Trichloroethylene	263	1.3	0.60	ppbv	TO-15
Vinyl chloride	93.4	0.16	0.28	ppbv	TO-15
Acetone (2-Propanone)	23	1.9	1.4	ug/m3	TO-15
Chloromethane	1.3 J	1.7	0.74	ug/m3	TO-15
1,1-Dichloroethylene	8.7	0.63	0.95	ug/m3	TO-15
Dichlorodifluoromethane	2.2 J	4.0	2.1	ug/m3	TO-15
trans-1,2-Dichloroethylene	23	3.2	0.44	ug/m3	TO-15
cis-1,2-Dichloroethylene	2930	5.2	3.8	ug/m3	TO-15
Ethanol	9.6	3.8	3.0	ug/m3	TO-15
Hexane	3.9	2.8	0.74	ug/m3	TO-15
Methylene chloride	6.9	2.8	0.76	ug/m3	TO-15
Methyl ethyl ketone	2.6	2.4	1.3	ug/m3	TO-15
Tetrachloroethylene	1.8	1.1	0.38	ug/m3	TO-15
Trichloroethylene	1410	7.0	3.2	ug/m3	TO-15
Vinyl chloride	239	0.41	0.72	ug/m3	TO-15

JD74233-2 VPOSTGAC

Acetone (2-Propanone)	2.0	0.80	0.58	ppbv	TO-15
Chloromethane	0.53 J	0.80	0.36	ppbv	TO-15
trans-1,2-Dichloroethylene	0.82	0.80	0.11	ppbv	TO-15
cis-1,2-Dichloroethylene	187	0.16	0.12	ppbv	TO-15
Ethanol	2.7	2.0	1.6	ppbv	TO-15
Ethyl Acetate	15.8	0.80	0.42	ppbv	TO-15
Hexane	0.59 J	0.80	0.21	ppbv	TO-15
Isopropyl Alcohol	1.2	0.80	0.56	ppbv	TO-15
Methylene chloride	1.2	0.80	0.22	ppbv	TO-15
Tetrachloroethylene	0.16	0.16	0.056	ppbv	TO-15
Trichloroethylene	67.4	0.16	0.076	ppbv	TO-15
Vinyl chloride	8.4	0.16	0.28	ppbv	TO-15
Acetone (2-Propanone)	4.8	1.9	1.4	ug/m3	TO-15
Chloromethane	1.1 J	1.7	0.74	ug/m3	TO-15

Summary of Hits

Job Number: JD74233
Account: WSP USA Environment & Infrastructure Inc
Project: Former Ithaca Power Transmission, Ithaca, NY
Collected: 10/04/23

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Analyte						
trans-1,2-Dichloroethylene		3.3	3.2	0.44	ug/m3	TO-15
cis-1,2-Dichloroethylene		741	0.63	0.48	ug/m3	TO-15
Ethanol		5.1	3.8	3.0	ug/m3	TO-15
Ethyl Acetate		56.9	2.9	1.5	ug/m3	TO-15
Hexane		2.1 J	2.8	0.74	ug/m3	TO-15
Isopropyl Alcohol		2.9	2.0	1.4	ug/m3	TO-15
Methylene chloride		4.2	2.8	0.76	ug/m3	TO-15
Tetrachloroethylene		1.1	1.1	0.38	ug/m3	TO-15
Trichloroethylene		362	0.86	0.41	ug/m3	TO-15
Vinyl chloride		21	0.41	0.72	ug/m3	TO-15

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	VINF	Date Sampled:	10/04/23
Lab Sample ID:	JD74233-1	Date Received:	10/05/23
Matrix:	AIR - Air Summa ID: A567	Percent Solids:	n/a
Method:	TO-15		
Project:	Former Ithaca Power Transmission, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W82275.D	1.58	10/06/23 18:18	WC	n/a	n/a	V3W3241
Run #2	3W82306.D	1.58	10/08/23 03:32	TS	n/a	n/a	V3W3242

	Initial Volume
Run #1	158 ml
Run #2	20.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	9.5	0.80	0.58	ppbv		23	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	ND	0.80	0.58	ppbv		ND	2.6	1.9	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.40	0.12	ppbv		ND	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.16	0.28	ppbv		ND	1.7	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	0.65	0.80	0.36	ppbv	J	1.3	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.16	0.16	ppbv		ND	1.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.18	ppbv		ND	2.8	0.62	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	2.2	0.16	0.24	ppbv		8.7	0.63	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	1.7	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.44	0.80	0.42	ppbv	J	2.2	4.0	2.1	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.40	0.21	ppbv		ND	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	5.8	0.80	0.11	ppbv		23	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	739 ^a	1.3	0.95	ppbv		2930 ^a	5.2	3.8	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.40	0.16	ppbv		ND	2.4	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.16	0.28	ppbv		ND	0.96	1.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.40	0.32	ppbv		ND	2.4	1.9	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

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:	VINF	Date Sampled:	10/04/23
Lab Sample ID:	JD74233-1	Date Received:	10/05/23
Matrix:	AIR - Air Summa ID: A567	Percent Solids:	n/a
Method:	TO-15		
Project:	Former Ithaca Power Transmission, Ithaca, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	5.1	2.0	1.6	ppbv		9.6	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.42	ppbv		ND	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.40	0.20	ppbv		ND	2.8	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.18	ppbv		ND	3.3	0.74	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.36	0.25	ppbv		ND	3.8	2.7	ug/m3
110-54-3	86.18	Hexane	1.1	0.80	0.21	ppbv		3.9	2.8	0.74	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.56	ppbv		ND	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	2.0	0.80	0.22	ppbv		6.9	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.89	0.80	0.44	ppbv		2.6	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.21	ppbv		ND	3.4	0.89	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.40	0.19	ppbv		ND	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.40	0.48	ppbv		ND	3.0	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.16	ppbv		ND	3.7	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.26	0.16	0.056	ppbv		1.8	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	ND	0.80	0.23	ppbv		ND	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	263 ^a	1.3	0.60	ppbv		1410 ^a	7.0	3.2	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.40	0.62	ppbv		ND	2.2	3.5	ug/m3
75-01-4	62.5	Vinyl chloride	93.4	0.16	0.28	ppbv		239	0.41	0.72	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%	98%	65-128%

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	VINF		
Lab Sample ID:	JD74233-1	Date Sampled:	10/04/23
Matrix:	AIR - Air	Date Received:	10/05/23
Method:	TO-15	Percent Solids:	n/a
Project:	Former Ithaca Power Transmission, Ithaca, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Result is from Run# 2

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

Report of Analysis

Client Sample ID:	VPOSTGAC	Date Sampled:	10/04/23
Lab Sample ID:	JD74233-2	Date Received:	10/05/23
Matrix:	AIR - Air Summa ID: A606	Percent Solids:	n/a
Method:	TO-15		
Project:	Former Ithaca Power Transmission, Ithaca, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W82276.D	1	10/06/23 18:59	WC	n/a	n/a	V3W3241
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	2.0	0.80	0.58	ppbv		4.8	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	ND	0.80	0.58	ppbv		ND	2.6	1.9	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.40	0.12	ppbv		ND	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.16	0.28	ppbv		ND	1.7	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	0.53	0.80	0.36	ppbv	J	1.1	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.16	0.16	ppbv		ND	1.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.18	ppbv		ND	2.8	0.62	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.16	0.24	ppbv		ND	0.63	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	1.7	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.80	0.42	ppbv		ND	4.0	2.1	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.40	0.21	ppbv		ND	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.82	0.80	0.11	ppbv		3.3	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	187	0.16	0.12	ppbv		741	0.63	0.48	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.40	0.16	ppbv		ND	2.4	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.16	0.28	ppbv		ND	0.96	1.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.40	0.32	ppbv		ND	2.4	1.9	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

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:	VPOSTGAC	Date Sampled:	10/04/23
Lab Sample ID:	JD74233-2	Date Received:	10/05/23
Matrix:	AIR - Air Summa ID: A606	Percent Solids:	n/a
Method:	TO-15		
Project:	Former Ithaca Power Transmission, Ithaca, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	2.7	2.0	1.6	ppbv		5.1	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	15.8	0.80	0.42	ppbv		56.9	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.40	0.20	ppbv		ND	2.8	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.18	ppbv		ND	3.3	0.74	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.36	0.25	ppbv		ND	3.8	2.7	ug/m3
110-54-3	86.18	Hexane	0.59	0.80	0.21	ppbv	J	2.1	2.8	0.74	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.2	0.80	0.56	ppbv		2.9	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	1.2	0.80	0.22	ppbv		4.2	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.21	ppbv		ND	3.4	0.89	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.40	0.19	ppbv		ND	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.40	0.48	ppbv		ND	3.0	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.16	ppbv		ND	3.7	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.16	0.16	0.056	ppbv		1.1	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	ND	0.80	0.23	ppbv		ND	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	67.4	0.16	0.076	ppbv		362	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.40	0.62	ppbv		ND	2.2	3.5	ug/m3
75-01-4	62.5	Vinyl chloride	8.4	0.16	0.28	ppbv		21	0.41	0.72	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		65-128%

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log
- Sample Tracking Chronicle
- Internal Chain of Custody



Page __ of __

FED-EX Tracking # 7003 2832 0597	Bottle Order Control # TM-02623-142
SGS Quote #	SGS Job # JD74233

[illegible]

SGS Sample Receipt Summary

Job Number: JD74233

Client: WSP

Project: FORMER ITHACA POWER TRANSMISSION

Date / Time Received: 10/5/2023 10:10:00 AM

Delivery Method: FEDEX

Airbill #s: 700378320597

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

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:	N/A	
3. Cooler media:	N/A	
4. No. Coolers:	N/A	

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

JD74233: Chain of Custody

Page 2 of 2

Summa Canister and Flow Controller Log

Job Number: JD74233
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: Former Ithaca Power Transmission, Ithaca, NY
Received: 10/05/23

SUMMA CANISTERS													
Shipping							Receiving						
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A567	1	30	10/02/23	ML	CP123918W01984.D		JD74233-1	10/06/23	DG	9.5		1.1	1.58
A606	1	30	10/02/23	ML	CP123918W01984.D		JD74233-2	10/06/23	DG	1.5			1

SGS Bottle Order(s):
TM-02623-142

Prep Date Room Temp(F) Bar Pres "Hg
10/02/23 70 29.92

Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

Job No: JD74233

Former Ithaca Power Transmission, Ithaca, NY
Project No: 31405608.001/TASK02

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD74233-1 Collected: 04-OCT-23 11:00 By: KGG Received: 05-OCT-23 By: JW VINP						
JD74233-1	TO-15	06-OCT-23 18:18	WC			VTO15NYSVLL
JD74233-1	TO-15	08-OCT-23 03:32	TS			VTO15NYSVLL
JD74233-2 Collected: 04-OCT-23 11:10 By: KGG Received: 05-OCT-23 By: JW VPOSTGAC						
JD74233-2	TO-15	06-OCT-23 18:59	WC			VTO15NYSVLL

SGS Internal Chain of Custody

Job Number: JD74233
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: Former Ithaca Power Transmission, Ithaca, NY
Received: 10/05/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD74233-1.1	Bilaal Nazar	Secured Storage	10/05/23 20:01	Return to Storage
JD74233-2.1	Bilaal Nazar	Secured Storage	10/05/23 20:01	Return to Storage

4.4
4

APRIL 2023

GROUNDWATER DATA

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

WSP USA Environment & Infrastructure Inc

Emersub 15, LLC, Ithaca, NY

31405608.001 02

SGS Job Number: JD64431

Sampling Dates: 04/17/23 - 04/21/23

Report to:

jeffrey.baker@wsp.com

ATTN: Distribution6

Total number of pages in report: **176**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in blue ink, appearing to read "D. Chastain".

David Chastain
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	4
Section 2: Summary of Hits	9
Section 3: Sample Results	17
3.1: JD64431-1: EXB-9	18
3.2: JD64431-2: EXB-10	20
3.3: JD64431-3: MW-50-160D	22
3.4: JD64431-4: MW-041723A	24
3.5: JD64431-5: MW-44T	26
3.6: JD64431-6: MW-04172023	28
3.7: JD64431-7: EB-041723	30
3.8: JD64431-8: MW-7-40	34
3.9: JD64431-9: MW-31B	36
3.10: JD64431-10: LBA-MW-30	39
3.11: JD64431-11: MW-16-10D	41
3.12: JD64431-12: EXB-7	43
3.13: JD64431-13: WSP-MW-06C	45
3.14: JD64431-14: WSP-MW-04B	46
3.15: JD64431-15: EB-041823	50
3.16: JD64431-16: MW-40T	54
3.17: JD64431-17: EB-042023	56
3.18: JD64431-18: MW-22B	58
3.19: JD64431-19: MW-32B	60
3.20: JD64431-20: MW-042123	62
3.21: JD64431-21: MW-20B	64
3.22: JD64431-22: MW-8-40	66
3.23: JD64431-23: MW-18A	68
3.24: JD64431-24: TRIP BLANK	70
3.25: JD64431-25: LBA-MW-23	72
3.26: JD64431-26: MW-1B	74
3.27: JD64431-27: MW-2B	76
3.28: JD64431-28: LBA-MW-35	78
3.29: JD64431-29: LBA-MW-18	80
3.30: JD64431-30: LBA-MW-34N	81
3.31: JD64431-31: LBA-MW-39	84
3.32: JD64431-32: LBA-MW-26	86
3.33: JD64431-33: EB-041923	87
3.34: JD64431-34: MW-7B	91
3.35: JD64431-35: MW-46-72C	93
3.36: JD64431-36: MW-042023	95
3.37: JD64431-37: MW-46-43C	97
3.38: JD64431-38: MW-5-10D	99
3.39: JD64431-39: MW-5-40	101

Table of Contents

-2-

3.40: JD64431-40: MW-3B	103
3.41: JD64431-41: MW-5B	105
3.42: JD64431-42: MW-4B	107
3.43: JD64431-43: LBA-MW-08	109
3.44: JD64431-44: LBA-MW-43S	110
3.45: JD64431-45: EW-9R-72C	112
3.46: JD64431-46: EW-11-43C	114
3.47: JD64431-47: EW-12-45C	116
3.48: JD64431-48: EW-01-62C	118
3.49: JD64431-49: EW-02-62C	120
3.50: JD64431-50: EW-03-60C	122
3.51: JD64431-51: EW-04-25B	124
3.52: JD64431-52: EW-05-25B	126
3.53: JD64431-53: EW-06-60C	128
3.54: JD64431-54: EW-07-25B	130
3.55: JD64431-55: EW-08-62C	132
3.56: JD64431-56: EW-10-25B	134
3.57: JD64431-57: LBA-MW-43N	136
Section 4: Misc. Forms	137
4.1: Chain of Custody	138
4.2: Sample Tracking Chronicle	149
4.3: Internal Chain of Custody	158



Sample Summary

WSP USA Environment & Infrastructure Inc

Job No: JD64431

Emersub 15, LLC, Ithaca, NY
Project No: 31405608.001 02

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID

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

JD64431-1	04/17/23	11:35	NW	04/21/23	AQ	Ground Water	EXB-9
JD64431-1D	04/17/23	11:35	NW	04/21/23	AQ	Water Dup/MSD	EXB-9-MSD
JD64431-1S	04/17/23	11:35	NW	04/21/23	AQ	Water Matrix Spike	EXB-9-MS
JD64431-2	04/17/23	15:40	NW	04/21/23	AQ	Ground Water	EXB-10
JD64431-3	04/17/23	16:00	NW	04/21/23	AQ	Ground Water	MW-50-160D
JD64431-4	04/17/23	12:00	NW	04/21/23	AQ	Ground Water	MW-041723A
JD64431-5	04/17/23	16:00	NW	04/21/23	AQ	Ground Water	MW-44T
JD64431-6	04/17/23	16:05	NW	04/21/23	AQ	Ground Water	MW-04172023
JD64431-7	04/17/23	16:55	NW	04/21/23	AQ	Equipment Blank	EB-041723
JD64431-8	04/18/23	10:40	NW	04/21/23	AQ	Ground Water	MW-7-40
JD64431-9	04/18/23	10:25	NW	04/21/23	AQ	Ground Water	MW-31B
JD64431-10	04/18/23	10:59	NW	04/21/23	AQ	Ground Water	LBA-MW-30



Sample Summary
(continued)

WSP USA Environment & Infrastructure Inc

Job No: JD64431

Emersub 15, LLC, Ithaca, NY
Project No: 31405608.001 02

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JD64431-11	04/18/23	12:55 NW	04/21/23	AQ	Ground Water	MW-16-10D
JD64431-12	04/18/23	13:10 NW	04/21/23	AQ	Ground Water	EXB-7
JD64431-13	04/18/23	13:35 NW	04/21/23	AQ	Ground Water	WSP-MW-06C
JD64431-14	04/18/23	17:11 NW	04/21/23	AQ	Ground Water	WSP-MW-04B
JD64431-15	04/19/23	06:00 NW	04/21/23	AQ	Equipment Blank	EB-041823
JD64431-16	04/19/23	08:30 NW	04/21/23	AQ	Ground Water	MW-40T
JD64431-17	04/20/23	16:00 NW	04/21/23	AQ	Equipment Blank	EB-042023
JD64431-18	04/21/23	07:45 NW	04/21/23	AQ	Ground Water	MW-22B
JD64431-19	04/21/23	08:00 NW	04/21/23	AQ	Ground Water	MW-32B
JD64431-20	04/21/23	07:00 NW	04/21/23	AQ	Ground Water	MW-042123
JD64431-21	04/21/23	08:15 NW	04/21/23	AQ	Ground Water	MW-20B
JD64431-22	04/21/23	08:25 NW	04/21/23	AQ	Ground Water	MW-8-40
JD64431-23	04/21/23	08:35 NW	04/21/23	AQ	Ground Water	MW-18A



Sample Summary
(continued)

WSP USA Environment & Infrastructure Inc

Job No: JD64431

Emersub 15, LLC, Ithaca, NY
Project No: 31405608.001 02

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JD64431-23D	04/21/23	08:35 NW	04/21/23	AQ	Water Dup/MSD	MW-18A-MSD
JD64431-23S	04/21/23	08:35 NW	04/21/23	AQ	Water Matrix Spike	MW-18A-MS
JD64431-24	04/21/23	08:35 NW	04/21/23	AQ	Trip Blank Water	TRIP BLANK
JD64431-25	04/19/23	08:40 NW	04/21/23	AQ	Ground Water	LBA-MW-23
JD64431-26	04/19/23	08:50 NW	04/21/23	AQ	Ground Water	MW-1B
JD64431-27	04/19/23	09:00 NW	04/21/23	AQ	Ground Water	MW-2B
JD64431-28	04/19/23	09:35 NW	04/21/23	AQ	Ground Water	LBA-MW-35
JD64431-29	04/19/23	10:13 NW	04/21/23	AQ	Ground Water	LBA-MW-18
JD64431-30	04/19/23	14:23 NW	04/21/23	AQ	Ground Water	LBA-MW-34N
JD64431-31	04/19/23	13:47 NW	04/21/23	AQ	Ground Water	LBA-MW-39
JD64431-32	04/19/23	16:17 NW	04/21/23	AQ	Ground Water	LBA-MW-26
JD64431-33	04/20/23	08:15 NW	04/21/23	AQ	Equipment Blank	EB-041923
JD64431-34	04/20/23	08:25 NW	04/21/23	AQ	Ground Water	MW-7B



Sample Summary
(continued)

WSP USA Environment & Infrastructure Inc

Job No: JD64431

Emersub 15, LLC, Ithaca, NY
Project No: 31405608.001 02

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JD64431-35	04/20/23	08:35 NW	04/21/23	AQ	Ground Water	MW-46-72C
JD64431-36	04/20/23	08:00 NW	04/21/23	AQ	Ground Water	MW-042023
JD64431-37	04/20/23	08:45 NW	04/21/23	AQ	Ground Water	MW-46-43C
JD64431-38	04/20/23	08:55 NW	04/21/23	AQ	Ground Water	MW-5-10D
JD64431-39	04/20/23	09:05 NW	04/21/23	AQ	Ground Water	MW-5-40
JD64431-40	04/20/23	09:20 NW	04/21/23	AQ	Ground Water	MW-3B
JD64431-41	04/20/23	09:30 NW	04/21/23	AQ	Ground Water	MW-5B
JD64431-41D	04/20/23	09:30 NW	04/21/23	AQ	Water Dup/MSD	MW-5B-MSD
JD64431-41S	04/20/23	09:30 NW	04/21/23	AQ	Water Matrix Spike	MW-5B-MS
JD64431-42	04/20/23	09:40 NW	04/21/23	AQ	Ground Water	MW-4B
JD64431-43	04/20/23	10:20 NW	04/21/23	AQ	Ground Water	LBA-MW-08
JD64431-44	04/20/23	10:55 NW	04/21/23	AQ	Ground Water	LBA-MW-43S
JD64431-45	04/20/23	12:55 NW	04/21/23	AQ	Ground Water	EW-9R-72C



Sample Summary
(continued)

WSP USA Environment & Infrastructure Inc

Job No: JD64431

Emersub 15, LLC, Ithaca, NY
Project No: 31405608.001 02

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JD64431-46	04/20/23	13:10 NW	04/21/23	AQ	Ground Water	EW-11-43C
JD64431-47	04/20/23	13:20 NW	04/21/23	AQ	Ground Water	EW-12-45C
JD64431-48	04/20/23	13:45 NW	04/21/23	AQ	Ground Water	EW-01-62C
JD64431-49	04/20/23	13:55 NW	04/21/23	AQ	Ground Water	EW-02-62C
JD64431-50	04/20/23	14:05 NW	04/21/23	AQ	Ground Water	EW-03-60C
JD64431-51	04/20/23	14:15 NW	04/21/23	AQ	Ground Water	EW-04-25B
JD64431-52	04/20/23	14:25 NW	04/21/23	AQ	Ground Water	EW-05-25B
JD64431-53	04/20/23	14:39 NW	04/21/23	AQ	Ground Water	EW-06-60C
JD64431-54	04/20/23	14:45 NW	04/21/23	AQ	Ground Water	EW-07-25B
JD64431-55	04/20/23	14:55 NW	04/21/23	AQ	Ground Water	EW-08-62C
JD64431-56	04/20/23	15:05 NW	04/21/23	AQ	Ground Water	EW-10-25B
JD64431-57	04/20/23	14:02 NW	04/21/23	AQ	Ground Water	LBA-MW-43N

Summary of Hits

Page 1 of 8

Job Number: JD64431
Account: WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Collected: 04/17/23 thru 04/21/23

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method

JD64431-1 **EXB-9**

No hits reported in this sample.

JD64431-2 **EXB-10**

Benzene	1.4	0.50	0.43	ug/l	SW846 8260D
Cyclohexane	2.9 J	5.0	0.78	ug/l	SW846 8260D
cis-1,2-Dichloroethene	1.6	1.0	0.51	ug/l	SW846 8260D
Vinyl chloride	1.0	1.0	0.52	ug/l	SW846 8260D

JD64431-3 **MW-50-160D**

1,1-Dichloroethene ^a	3.2 J	5.0	3.0	ug/l	SW846 8260D
cis-1,2-Dichloroethene	1870	50	25	ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a	8.7	5.0	2.7	ug/l	SW846 8260D
Trichloroethene ^a	18.9	5.0	2.6	ug/l	SW846 8260D
Vinyl chloride ^a	900	5.0	2.6	ug/l	SW846 8260D

JD64431-4 **MW-041723A**

cis-1,2-Dichloroethene	1830	100	51	ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a	7.5 J	10	5.4	ug/l	SW846 8260D
Trichloroethene ^a	18.5	10	5.3	ug/l	SW846 8260D
Vinyl chloride ^a	883	10	5.2	ug/l	SW846 8260D

JD64431-5 **MW-44T**

Barium	1860	200	13	ug/l	SW846 6010D
Cyanide	0.019	0.010	0.0041	mg/l	EPA 335.4/LACHAT

JD64431-6 **MW-04172023**

Barium	1880	200	13	ug/l	SW846 6010D
Cyanide	0.036	0.010	0.0041	mg/l	EPA 335.4/LACHAT

JD64431-7 **EB-041723**

No hits reported in this sample.

JD64431-8 **MW-7-40**

cis-1,2-Dichloroethene	79.4	1.0	0.51	ug/l	SW846 8260D
trans-1,2-Dichloroethene	0.57 J	1.0	0.54	ug/l	SW846 8260D
Vinyl chloride	1.6	1.0	0.52	ug/l	SW846 8260D

Summary of Hits

Job Number: JD64431
Account: WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Collected: 04/17/23 thru 04/21/23

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JD64431-9 MW-31B

Trichloroethene	13.2	1.0	0.53	ug/l	SW846 8260D
Barium	80.1 J	200	13	ug/l	SW846 6010D

JD64431-10 LBA-MW-30

Barium	487	200	13	ug/l	SW846 6010D
Cyanide	0.061	0.010	0.0041	mg/l	EPA 335.4/LACHAT

JD64431-11 MW-16-10D

cis-1,2-Dichloroethene	15.3	1.0	0.51	ug/l	SW846 8260D
Vinyl chloride	73.1	1.0	0.52	ug/l	SW846 8260D

JD64431-12 EXB-7

cis-1,2-Dichloroethene	1050	50	25	ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a	16.2	5.0	2.7	ug/l	SW846 8260D
Trichloroethene ^a	280	5.0	2.6	ug/l	SW846 8260D

JD64431-13 WSP-MW-06C

Barium	5760	200	13	ug/l	SW846 6010D

JD64431-14 WSP-MW-04B

1,1-Dichloroethane	3.8	1.0	0.57	ug/l	SW846 8260D
1,1-Dichloroethene	1.8	1.0	0.59	ug/l	SW846 8260D
cis-1,2-Dichloroethene	289	10	5.1	ug/l	SW846 8260D
trans-1,2-Dichloroethene	68.1	1.0	0.54	ug/l	SW846 8260D
1,1,1-Trichloroethane	4.7	1.0	0.54	ug/l	SW846 8260D
Trichloroethene	96.1	1.0	0.53	ug/l	SW846 8260D
Vinyl chloride	66.3	1.0	0.52	ug/l	SW846 8260D
Barium	322	200	13	ug/l	SW846 6010D
Lead	3.3	3.0	1.8	ug/l	SW846 6010D
Silver	8.4 J	10	6.1	ug/l	SW846 6010D
Cyanide	0.38	0.010	0.0041	mg/l	EPA 335.4/LACHAT

JD64431-15 EB-041823

No hits reported in this sample.

Summary of Hits

Job Number: JD64431
Account: WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Collected: 04/17/23 thru 04/21/23

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method

JD64431-16 MW-40T

1,1-Dichloroethane	0.99 J	1.0	0.57	ug/l	SW846 8260D
1,1-Dichloroethene	7.8	5.0	3.0	ug/l	SW846 8260D
cis-1,2-Dichloroethene	2270	50	25	ug/l	SW846 8260D
trans-1,2-Dichloroethene	24.2	1.0	0.54	ug/l	SW846 8260D
Trichloroethene	73.6	1.0	0.53	ug/l	SW846 8260D
Vinyl chloride	176	1.0	0.52	ug/l	SW846 8260D

JD64431-17 EB-042023

No hits reported in this sample.

JD64431-18 MW-22B

cis-1,2-Dichloroethene	0.80 J	1.0	0.51	ug/l	SW846 8260D
Vinyl chloride	0.91 J	1.0	0.52	ug/l	SW846 8260D

JD64431-19 MW-32B

cis-1,2-Dichloroethene	6.7	1.0	0.51	ug/l	SW846 8260D
Trichloroethene	18.0	1.0	0.53	ug/l	SW846 8260D

JD64431-20 MW-042123

cis-1,2-Dichloroethene	8.2	1.0	0.51	ug/l	SW846 8260D
Trichloroethene	14.6	1.0	0.53	ug/l	SW846 8260D

JD64431-21 MW-20B

No hits reported in this sample.

JD64431-22 MW-8-40

No hits reported in this sample.

JD64431-23 MW-18A

Acetone ^b	3.3 J	10	3.1	ug/l	SW846 8260D

JD64431-24 TRIP BLANK

No hits reported in this sample.

Summary of Hits

Job Number: JD64431
Account: WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Collected: 04/17/23 thru 04/21/23

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD64431-25 LBA-MW-23						
Acetone ^b		3.7 J	10	3.1	ug/l	SW846 8260D
cis-1,2-Dichloroethene		1.9	1.0	0.51	ug/l	SW846 8260D
JD64431-26 MW-1B						
cis-1,2-Dichloroethene		15.6	1.0	0.51	ug/l	SW846 8260D
Trichloroethene		26.2	1.0	0.53	ug/l	SW846 8260D
JD64431-27 MW-2B						
cis-1,2-Dichloroethene ^a		4980	50	25	ug/l	SW846 8260D
Trichloroethene ^a		8160	50	26	ug/l	SW846 8260D
Vinyl chloride ^a		46.4 J	50	26	ug/l	SW846 8260D
JD64431-28 LBA-MW-35						
Barium		2950	200	13	ug/l	SW846 6010D
Cyanide		0.24	0.010	0.0041	mg/l	EPA 335.4/LACHAT
JD64431-29 LBA-MW-18						
Barium		2520	200	13	ug/l	SW846 6010D
JD64431-30 LBA-MW-34N						
Chloroethane		2.5	1.0	0.73	ug/l	SW846 8260D
1,1-Dichloroethane		157	1.0	0.57	ug/l	SW846 8260D
1,1-Dichloroethene		6.7	1.0	0.59	ug/l	SW846 8260D
cis-1,2-Dichloroethene		766	10	5.1	ug/l	SW846 8260D
trans-1,2-Dichloroethene		12.1	1.0	0.54	ug/l	SW846 8260D
1,1,1-Trichloroethane		20.4	1.0	0.54	ug/l	SW846 8260D
Trichloroethene		18.1	1.0	0.53	ug/l	SW846 8260D
Vinyl chloride		463	10	5.2	ug/l	SW846 8260D
Barium		1850	200	13	ug/l	SW846 6010D
JD64431-31 LBA-MW-39						
Barium		228	200	13	ug/l	SW846 6010D
Cyanide		0.18	0.010	0.0041	mg/l	EPA 335.4/LACHAT
JD64431-32 LBA-MW-26						
Barium		1680	200	13	ug/l	SW846 6010D

Summary of Hits

Job Number: JD64431
Account: WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Collected: 04/17/23 thru 04/21/23

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JD64431-33 EB-041923

Acetone ^b	5.3 J	10	3.1	ug/l	SW846 8260D
Cyanide	0.0089 J	0.010	0.0041	mg/l	EPA 335.4/LACHAT

JD64431-34 MW-7B

No hits reported in this sample.

JD64431-35 MW-46-72C

1,1-Dichloroethene	7.9	1.0	0.59	ug/l	SW846 8260D
cis-1,2-Dichloroethene	3740	50	25	ug/l	SW846 8260D
trans-1,2-Dichloroethene	23.0	1.0	0.54	ug/l	SW846 8260D
Methylcyclohexane	1.6 J	5.0	0.60	ug/l	SW846 8260D
Toluene	1.0	1.0	0.49	ug/l	SW846 8260D
Trichloroethene	128	1.0	0.53	ug/l	SW846 8260D
Vinyl chloride	1870	50	26	ug/l	SW846 8260D

JD64431-36 MW-042023

1,1-Dichloroethene ^a	6.3 J	10	5.9	ug/l	SW846 8260D
cis-1,2-Dichloroethene	3060	100	51	ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a	11.3	10	5.4	ug/l	SW846 8260D
Trichloroethene ^a	94.6	10	5.3	ug/l	SW846 8260D
Vinyl chloride ^a	1640	10	5.2	ug/l	SW846 8260D

JD64431-37 MW-46-43C

cis-1,2-Dichloroethene	11900	500	250	ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a	124	50	27	ug/l	SW846 8260D
Vinyl chloride ^a	7560	50	26	ug/l	SW846 8260D

JD64431-38 MW-5-10D

Chloroethane	3.8	1.0	0.73	ug/l	SW846 8260D
cis-1,2-Dichloroethene	17.0	1.0	0.51	ug/l	SW846 8260D
Vinyl chloride	11.6	1.0	0.52	ug/l	SW846 8260D

JD64431-39 MW-5-40

cis-1,2-Dichloroethene ^a	8650	50	25	ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a	253	50	27	ug/l	SW846 8260D
Trichloroethene ^a	2080	50	26	ug/l	SW846 8260D

Summary of Hits

Job Number: JD64431
Account: WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Collected: 04/17/23 thru 04/21/23

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Vinyl chloride ^a		3870	50	26	ug/l	SW846 8260D
JD64431-40	MW-3B					
1,1-Dichloroethene ^a		12.0	10	5.9	ug/l	SW846 8260D
cis-1,2-Dichloroethene		5100	50	25	ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a		36.2	10	5.4	ug/l	SW846 8260D
Trichloroethene		4650	50	26	ug/l	SW846 8260D
Vinyl chloride ^a		119	10	5.2	ug/l	SW846 8260D
JD64431-41	MW-5B					
cis-1,2-Dichloroethene ^a		705	5.0	2.5	ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a		10.2	5.0	2.7	ug/l	SW846 8260D
Trichloroethene ^a		383	5.0	2.6	ug/l	SW846 8260D
Vinyl chloride ^a		47.7	5.0	2.6	ug/l	SW846 8260D
JD64431-42	MW-4B					
Vinyl chloride		0.63 J	1.0	0.52	ug/l	SW846 8260D
JD64431-43	LBA-MW-08					
Cyanide		4.1	0.10	0.041	mg/l	EPA 335.4/LACHAT
JD64431-44	LBA-MW-43S					
Barium		6180	200	13	ug/l	SW846 6010D
Cyanide		0.40	0.010	0.0041	mg/l	EPA 335.4/LACHAT
JD64431-45	EW-9R-72C					
cis-1,2-Dichloroethene ^a		3630	20	10	ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a		22.1	20	11	ug/l	SW846 8260D
Trichloroethene ^a		66.4	20	11	ug/l	SW846 8260D
Vinyl chloride ^a		767	20	10	ug/l	SW846 8260D
JD64431-46	EW-11-43C					
1,1-Dichloroethene ^a		13.4	4.0	2.4	ug/l	SW846 8260D
cis-1,2-Dichloroethene		5500	100	51	ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a		131	4.0	2.1	ug/l	SW846 8260D
Trichloroethene		3940	100	53	ug/l	SW846 8260D
Vinyl chloride ^a		191	4.0	2.1	ug/l	SW846 8260D

Summary of Hits

Job Number: JD64431
Account: WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Collected: 04/17/23 thru 04/21/23

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JD64431-47 EW-12-45C

1,1-Dichloroethene ^a	5.1	4.0	2.4	ug/l	SW846 8260D
cis-1,2-Dichloroethene	3140	50	25	ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a	14.0	4.0	2.1	ug/l	SW846 8260D
Trichloroethene	2210	50	26	ug/l	SW846 8260D
Vinyl chloride ^a	133	4.0	2.1	ug/l	SW846 8260D

JD64431-48 EW-01-62C

Acetone ^c	7.7 J	10	3.1	ug/l	SW846 8260D
cis-1,2-Dichloroethene	219	10	5.1	ug/l	SW846 8260D
trans-1,2-Dichloroethene	4.1	1.0	0.54	ug/l	SW846 8260D
Trichloroethene	56.5	1.0	0.53	ug/l	SW846 8260D
Vinyl chloride	12.1	1.0	0.52	ug/l	SW846 8260D

JD64431-49 EW-02-62C

1,1-Dichloroethene	2.9	1.0	0.59	ug/l	SW846 8260D
cis-1,2-Dichloroethene	821	20	10	ug/l	SW846 8260D
trans-1,2-Dichloroethene	7.7	1.0	0.54	ug/l	SW846 8260D
Trichloroethene	960	20	11	ug/l	SW846 8260D
Vinyl chloride	6.7	1.0	0.52	ug/l	SW846 8260D

JD64431-50 EW-03-60C

1,1-Dichloroethene ^a	3.3 J	4.0	2.4	ug/l	SW846 8260D
cis-1,2-Dichloroethene ^a	767	4.0	2.0	ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a	12.5	4.0	2.1	ug/l	SW846 8260D
Trichloroethene	1890	50	26	ug/l	SW846 8260D
Vinyl chloride ^a	17.7	4.0	2.1	ug/l	SW846 8260D

JD64431-51 EW-04-25B

1,1-Dichloroethene ^a	2.5 J	4.0	2.4	ug/l	SW846 8260D
cis-1,2-Dichloroethene	879	50	25	ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a	12.4	4.0	2.1	ug/l	SW846 8260D
Trichloroethene	2390	50	26	ug/l	SW846 8260D

JD64431-52 EW-05-25B

1,1-Dichloroethene ^a	14.5	5.0	3.0	ug/l	SW846 8260D
cis-1,2-Dichloroethene	5420	100	51	ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a	53.1	5.0	2.7	ug/l	SW846 8260D
Trichloroethene	4790	100	53	ug/l	SW846 8260D

Summary of Hits

Job Number: JD64431
Account: WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Collected: 04/17/23 thru 04/21/23

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Vinyl chloride ^a		134	5.0	2.6	ug/l	SW846 8260D
JD64431-53	EW-06-60C					
cis-1,2-Dichloroethene		12100	500	250	ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a		50.5	50	27	ug/l	SW846 8260D
Trichloroethene ^a		5330	50	26	ug/l	SW846 8260D
JD64431-54	EW-07-25B					
1,1-Dichloroethene ^a		7.1 J	10	5.9	ug/l	SW846 8260D
cis-1,2-Dichloroethene		2730	100	51	ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a		21.9	10	5.4	ug/l	SW846 8260D
Trichloroethene ^a		114	10	5.3	ug/l	SW846 8260D
Vinyl chloride ^a		147	10	5.2	ug/l	SW846 8260D
JD64431-55	EW-08-62C					
cis-1,2-Dichloroethene		10500	500	250	ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a		66.9	50	27	ug/l	SW846 8260D
Trichloroethene ^a		2610	50	26	ug/l	SW846 8260D
Vinyl chloride ^d		30.8 J	50	26	ug/l	SW846 8260D
JD64431-56	EW-10-25B					
cis-1,2-Dichloroethene		146	1.0	0.51	ug/l	SW846 8260D
trans-1,2-Dichloroethene		2.1	1.0	0.54	ug/l	SW846 8260D
Trichloroethene		113	1.0	0.53	ug/l	SW846 8260D
Vinyl chloride		0.86 J	1.0	0.52	ug/l	SW846 8260D
JD64431-57	LBA-MW-43N					
Cyanide		0.53	0.010	0.0041	mg/l	EPA 335.4/LACHAT

(a) Dilution required due to high concentration of target compound.

(b) Associated CCV outside of control limits high. This compound in blank spike is outside in house QC limits bias high.

(c) Associated CCV outside of control limits high.

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

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	EXB-9	Date Sampled:	04/17/23
Lab Sample ID:	JD64431-1	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1E173801.D	1	04/26/23 12:59	ED	n/a	n/a	V1E8650
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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 ^b	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	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	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:	EXB-9	Date Sampled:	04/17/23
Lab Sample ID:	JD64431-1	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane ^b	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	
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	
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	103%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

(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:	EXB-10	Date Sampled:	04/17/23
Lab Sample ID:	JD64431-2	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1E173810.D	1	04/26/23 16:52	ED	n/a	n/a	V1E8650
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	10	3.1	ug/l	
71-43-2	Benzene	1.4	0.50	0.43	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 ^b	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	2.9	5.0	0.78	ug/l	J
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	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	1.6	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EXB-10	Date Sampled:	04/17/23
Lab Sample ID:	JD64431-2	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane ^b	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	
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	1.0	1.0	0.52	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	101%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	96%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

(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-50-160D	Date Sampled:	04/17/23
Lab Sample ID:	JD64431-3	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1E173815.D	5	04/26/23 19:01	ED	n/a	n/a	V1E8650
Run #2	1V96432.D	50	04/27/23 16:42	KD	n/a	n/a	V1V3890

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

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	50	15	ug/l	
71-43-2	Benzene	ND	2.5	2.1	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 ^c	ND	10	8.2	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	14	ug/l	
75-15-0	Carbon disulfide	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	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	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	3.2	5.0	3.0	ug/l	J
156-59-2	cis-1,2-Dichloroethene	1870 ^d	50	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	8.7	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	
98-82-8	Isopropylbenzene	ND	5.0	3.2	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50-160D	Date Sampled:	04/17/23
Lab Sample ID:	JD64431-3	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	25	4.0	ug/l	
108-87-2	Methylcyclohexane ^c	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	
120-82-1	1,2,4-Trichlorobenzene	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	18.9	5.0	2.6	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	2.0	ug/l	
75-01-4	Vinyl chloride	900	5.0	2.6	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	107%	98%	80-120%
17060-07-0	1,2-Dichloroethane-D4	104%	94%	80-120%
2037-26-5	Toluene-D8	100%	98%	80-120%
460-00-4	4-Bromofluorobenzene	97%	94%	82-114%

- (a) Dilution required due to high concentration of target compound.
 (b) Associated CCV outside of control limits high, sample was ND.
 (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-041723A	Date Sampled:	04/17/23
Lab Sample ID:	JD64431-4	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1E173816.D	10	04/26/23 19:27	ED	n/a	n/a	V1E8650
Run #2	1G2455A.D	100	04/28/23 14:41	KD	n/a	n/a	V1G90

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

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	100	31	ug/l	
71-43-2	Benzene	ND	5.0	4.3	ug/l	
75-27-4	Bromodichloromethane	ND	10	4.5	ug/l	
75-25-2	Bromoform	ND	10	6.3	ug/l	
74-83-9	Bromomethane ^c	ND	20	16	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	27	ug/l	
75-15-0	Carbon disulfide	ND	20	4.6	ug/l	
56-23-5	Carbon tetrachloride	ND	10	5.5	ug/l	
108-90-7	Chlorobenzene	ND	10	5.6	ug/l	
75-00-3	Chloroethane	ND	10	7.3	ug/l	
67-66-3	Chloroform	ND	10	5.0	ug/l	
74-87-3	Chloromethane	ND	10	7.6	ug/l	
110-82-7	Cyclohexane	ND	50	7.8	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	20	5.3	ug/l	
124-48-1	Dibromochloromethane	ND	10	5.6	ug/l	
106-93-4	1,2-Dibromoethane	ND	10	4.8	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	5.3	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	5.4	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	5.1	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	5.6	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	5.7	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	6.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	10	5.9	ug/l	
156-59-2	cis-1,2-Dichloroethene	1830 ^d	100	51	ug/l	
156-60-5	trans-1,2-Dichloroethene	7.5	10	5.4	ug/l	J
78-87-5	1,2-Dichloropropane	ND	10	5.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	4.7	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	4.3	ug/l	
100-41-4	Ethylbenzene	ND	10	6.0	ug/l	
76-13-1	Freon 113	ND	50	5.8	ug/l	
591-78-6	2-Hexanone	ND	50	20	ug/l	
98-82-8	Isopropylbenzene	ND	10	6.5	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-041723A	Date Sampled:	04/17/23
Lab Sample ID:	JD64431-4	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	50	8.0	ug/l	
108-87-2	Methylcyclohexane ^c	ND	50	6.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	5.1	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	50	19	ug/l	
75-09-2	Methylene chloride	ND	20	10	ug/l	
100-42-5	Styrene	ND	10	4.9	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	6.5	ug/l	
127-18-4	Tetrachloroethene	ND	10	5.6	ug/l	
108-88-3	Toluene	ND	10	4.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	5.4	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	5.3	ug/l	
79-01-6	Trichloroethene	18.5	10	5.3	ug/l	
75-69-4	Trichlorofluoromethane	ND	20	4.0	ug/l	
75-01-4	Vinyl chloride	883	10	5.2	ug/l	
1330-20-7	Xylene (total)	ND	10	5.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%	88%	80-120%
17060-07-0	1,2-Dichloroethane-D4	103%	111%	80-120%
2037-26-5	Toluene-D8	101%	107%	80-120%
460-00-4	4-Bromofluorobenzene	95%	106%	82-114%

- (a) Dilution required due to high concentration of target compound.
 (b) Associated CCV outside of control limits high, sample was ND.
 (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-44T	Date Sampled:	04/17/23
Lab Sample ID:	JD64431-5	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	1860	200	13	ug/l	1	04/25/23	04/26/23 ND	SW846 6010D ¹	SW846 3010A ²

(1) Instrument QC Batch: MA54072
(2) Prep QC Batch: MP39216

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-44T	Date Sampled:	04/17/23
Lab Sample ID:	JD64431-5	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.019	0.010	0.0041	mg/l	1	04/26/23 12:54 MM	EPA 335.4/LACHAT	

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-04172023	Date Sampled:	04/17/23
Lab Sample ID:	JD64431-6	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	1880	200	13	ug/l	1	04/25/23	04/26/23 ND	SW846 6010D ¹	SW846 3010A ²

(1) Instrument QC Batch: MA54072
(2) Prep QC Batch: MP39216

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-04172023	Date Sampled:	04/17/23
Lab Sample ID:	JD64431-6	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.036	0.010	0.0041	mg/l	1	04/26/23 12:55 MM	EPA 335.4/LACHAT	

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EB-041723	Date Sampled:	04/17/23
Lab Sample ID:	JD64431-7	Date Received:	04/21/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1E173809.D	1	04/26/23 16:26	ED	n/a	n/a	V1E8650
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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 ^b	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	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB-041723	Date Sampled:	04/17/23
Lab Sample ID:	JD64431-7	Date Received:	04/21/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane ^b	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	
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	
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%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	97%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

(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:	EB-041723	Date Sampled:	04/17/23
Lab Sample ID:	JD64431-7	Date Received:	04/21/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	13 U	200	13	ug/l	1	04/25/23	04/26/23 ND	SW846 6010D ¹	SW846 3010A ²

(1) Instrument QC Batch: MA54072
(2) Prep QC Batch: MP39216

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EB-041723	Date Sampled:	04/17/23
Lab Sample ID:	JD64431-7	Date Received:	04/21/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.0041 U	0.010	0.0041	mg/l	1	04/26/23 12:56 MM	EPA 335.4/LACHAT	

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-7-40	Date Sampled:	04/18/23
Lab Sample ID:	JD64431-8	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1E173811.D	1	04/26/23 17:18	ED	n/a	n/a	V1E8650
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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 ^b	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	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	79.4	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.57	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-7-40	Date Sampled:	04/18/23
Lab Sample ID:	JD64431-8	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane ^b	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	
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	1.6	1.0	0.52	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	102%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

(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-31B	Date Sampled:	04/18/23
Lab Sample ID:	JD64431-9	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1E173812.D	1	04/26/23 17:43	ED	n/a	n/a	V1E8650
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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 ^b	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	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	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-31B	Date Sampled:	04/18/23
Lab Sample ID:	JD64431-9	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane ^b	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	
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	13.2	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	
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	107%		80-120%
17060-07-0	1,2-Dichloroethane-D4	103%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	97%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

(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-31B	Date Sampled:	04/18/23
Lab Sample ID:	JD64431-9	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	80.1 J	200	13	ug/l	1	04/25/23	04/26/23 ND	SW846 6010D ¹	SW846 3010A ²

(1) Instrument QC Batch: MA54072
(2) Prep QC Batch: MP39216

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	LBA-MW-30	Date Sampled:	04/18/23
Lab Sample ID:	JD64431-10	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	487	200	13	ug/l	1	04/25/23	04/26/23 ND	SW846 6010D ¹	SW846 3010A ²

(1) Instrument QC Batch: MA54072
(2) Prep QC Batch: MP39216

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	LBA-MW-30	Date Sampled:	04/18/23
Lab Sample ID:	JD64431-10	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.061	0.010	0.0041	mg/l	1	04/26/23 12:57 MM	EPA 335.4/LACHAT	

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 2

Client Sample ID:	MW-16-10D	Date Sampled:	04/18/23
Lab Sample ID:	JD64431-11	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1E173813.D	1	04/26/23 18:09	ED	n/a	n/a	V1E8650
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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 ^b	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	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	15.3	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-16-10D	Date Sampled:	04/18/23
Lab Sample ID:	JD64431-11	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane ^b	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	
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	73.1	1.0	0.52	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	103%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	96%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

(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:	EXB-7	Date Sampled:	04/18/23
Lab Sample ID:	JD64431-12	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1E173817.D	5	04/26/23 19:53	ED	n/a	n/a	V1E8650
Run #2	1G2459A.D	50	04/28/23 16:22	KD	n/a	n/a	V1G90

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

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	50	15	ug/l	
71-43-2	Benzene	ND	2.5	2.1	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 ^c	ND	10	8.2	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	14	ug/l	
75-15-0	Carbon disulfide	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	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	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	1050 ^d	50	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	16.2	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	
98-82-8	Isopropylbenzene	ND	5.0	3.2	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:	EXB-7	Date Sampled:	04/18/23
Lab Sample ID:	JD64431-12	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	25	4.0	ug/l	
108-87-2	Methylcyclohexane ^c	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	
120-82-1	1,2,4-Trichlorobenzene	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	280	5.0	2.6	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	2.0	ug/l	
75-01-4	Vinyl chloride	ND	5.0	2.6	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	106%	85%	80-120%
17060-07-0	1,2-Dichloroethane-D4	100%	107%	80-120%
2037-26-5	Toluene-D8	103%	106%	80-120%
460-00-4	4-Bromofluorobenzene	97%	108%	82-114%

- (a) Dilution required due to high concentration of target compound.
 (b) Associated CCV outside of control limits high, sample was ND.
 (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:	WSP-MW-06C	Date Sampled:	04/18/23
Lab Sample ID:	JD64431-13	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	5760	200	13	ug/l	1	04/25/23	04/26/23 ND	SW846 6010D ¹	SW846 3010A ²

(1) Instrument QC Batch: MA54072
(2) Prep QC Batch: MP39216

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 2

Client Sample ID:	WSP-MW-04B	Date Sampled:	04/18/23
Lab Sample ID:	JD64431-14	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1E173814.D	1	04/26/23 18:35	ED	n/a	n/a	V1E8650
Run #2	1G2449A.D	10	04/28/23 12:10	KD	n/a	n/a	V1G90

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

VOA TCL List (OLM4.2)

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	
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 ^b	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	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	3.8	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	1.8	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	289 ^c	10	5.1	ug/l	
156-60-5	trans-1,2-Dichloroethene	68.1	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WSP-MW-04B	Date Sampled:	04/18/23
Lab Sample ID:	JD64431-14	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane ^b	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	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	4.7	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	96.1	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	66.3	1.0	0.52	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	106%	86%	80-120%
17060-07-0	1,2-Dichloroethane-D4	96%	105%	80-120%
2037-26-5	Toluene-D8	100%	108%	80-120%
460-00-4	4-Bromofluorobenzene	99%	106%	82-114%

- (a) Associated CCV outside of control limits high, sample was ND.
 (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: WSP-MW-04B

Lab Sample ID: JD64431-14

Matrix: AQ - Ground Water

Project: Emersub 15, LLC, Ithaca, NY

Date Sampled: 04/18/23

Date Received: 04/21/23

Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method	
Arsenic ^a	5.6 U	6.0	5.6	ug/l	2	04/25/23	04/28/23	ND	SW846 6010D ³	SW846 3010A ⁴
Barium	322	200	13	ug/l	1	04/25/23	04/26/23	ND	SW846 6010D ¹	SW846 3010A ⁴
Cadmium	1.0 U	3.0	1.0	ug/l	1	04/25/23	04/26/23	ND	SW846 6010D ¹	SW846 3010A ⁴
Chromium ^a	4.0 U	20	4.0	ug/l	2	04/25/23	04/28/23	ND	SW846 6010D ³	SW846 3010A ⁴
Lead	3.3	3.0	1.8	ug/l	1	04/25/23	04/26/23	ND	SW846 6010D ¹	SW846 3010A ⁴
Mercury	0.095 U	0.20	0.095	ug/l	1	04/26/23	04/27/23	LM	SW846 7470A ²	SW846 7470A ⁵
Selenium ^a	9.8 U	20	9.8	ug/l	2	04/25/23	04/28/23	ND	SW846 6010D ³	SW846 3010A ⁴
Silver	8.4 J	10	6.1	ug/l	1	04/25/23	04/26/23	ND	SW846 6010D ¹	SW846 3010A ⁴

(1) Instrument QC Batch: MA54072

(2) Instrument QC Batch: MA54074

(3) Instrument QC Batch: MA54088

(4) Prep QC Batch: MP39216

(5) Prep QC Batch: MP39255

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

RL = Reporting Limit

MDL = Method Detection Limit

U = Indicates a result < MDL

J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	WSP-MW-04B	Date Sampled:	04/18/23
Lab Sample ID:	JD64431-14	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.38	0.010	0.0041	mg/l	1	04/26/23 12:57 MM	EPA 335.4/LACHAT	

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 2

Client Sample ID:	EB-041823	Date Sampled:	04/19/23
Lab Sample ID:	JD64431-15	Date Received:	04/21/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1S002353.D	1	04/28/23 01:52	NW	n/a	n/a	V1S66
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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 ^b	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 ^b	ND	1.0	0.73	ug/l	
67-66-3	Chloroform ^b	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	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 ^b	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene ^b	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	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:	EB-041823	Date Sampled:	04/19/23
Lab Sample ID:	JD64431-15	Date Received:	04/21/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
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	
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	95%		80-120%
17060-07-0	1,2-Dichloroethane-D4	84%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

- (a) Associated CCV outside of control limits high, sample was ND.
 (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: EB-041823
Lab Sample ID: JD64431-15
Matrix: AQ - Equipment Blank
Project: Emersub 15, LLC, Ithaca, NY

Date Sampled: 04/19/23
Date Received: 04/21/23
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method	
Arsenic	2.8 U	3.0	2.8	ug/l	1	04/25/23	04/26/23	ND	SW846 6010D ¹	SW846 3010A ³
Barium	13 U	200	13	ug/l	1	04/25/23	04/26/23	ND	SW846 6010D ¹	SW846 3010A ³
Cadmium	1.0 U	3.0	1.0	ug/l	1	04/25/23	04/26/23	ND	SW846 6010D ¹	SW846 3010A ³
Chromium	2.0 U	10	2.0	ug/l	1	04/25/23	04/26/23	ND	SW846 6010D ¹	SW846 3010A ³
Lead	1.8 U	3.0	1.8	ug/l	1	04/25/23	04/26/23	ND	SW846 6010D ¹	SW846 3010A ³
Mercury	0.095 U	0.20	0.095	ug/l	1	04/26/23	04/27/23	LM	SW846 7470A ²	SW846 7470A ⁴
Selenium	4.9 U	10	4.9	ug/l	1	04/25/23	04/26/23	ND	SW846 6010D ¹	SW846 3010A ³
Silver	6.1 U	10	6.1	ug/l	1	04/25/23	04/26/23	ND	SW846 6010D ¹	SW846 3010A ³

- (1) Instrument QC Batch: MA54072
 (2) Instrument QC Batch: MA54074
 (3) Prep QC Batch: MP39216
 (4) Prep QC Batch: MP39255

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EB-041823	Date Sampled:	04/19/23
Lab Sample ID:	JD64431-15	Date Received:	04/21/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.0041 U	0.010	0.0041	mg/l	1	04/26/23 13:00 MM	EPA 335.4/LACHAT	

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-40T	Date Sampled:	04/19/23
Lab Sample ID:	JD64431-16	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1S002404.D	1	04/28/23 23:10	ED	n/a	n/a	V1S68
Run #2	1V96577.D	5	05/02/23 12:23	KD	n/a	n/a	V1V3895
Run #3	1V96584.D	50	05/02/23 15:18	KD	n/a	n/a	V1V3895

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

VOA TCL List (OLM4.2)

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	
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 ^b	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 ^b	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane ^b	ND	1.0	0.73	ug/l	
67-66-3	Chloroform ^b	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane ^b	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	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	0.99	1.0	0.57	ug/l	J
107-06-2	1,2-Dichloroethane ^b	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	7.8 ^c	5.0	3.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	2270 ^d	50	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	24.2	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	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-40T	Date Sampled:	04/19/23
Lab Sample ID:	JD64431-16	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
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	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane ^b	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	73.6	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane ^b	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	176	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	97%	109%	108%	80-120%
17060-07-0	1,2-Dichloroethane-D4	93%	104%	105%	80-120%
2037-26-5	Toluene-D8	96%	98%	99%	80-120%
460-00-4	4-Bromofluorobenzene	96%	101%	100%	82-114%

(a) Associated CCV outside of control limits high, sample was ND.

(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

(d) Result is from Run# 3

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:	EB-042023	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-17	Date Received:	04/21/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	13 U	200	13	ug/l	1	04/25/23	04/26/23 ND	SW846 6010D ¹	SW846 3010A ²

(1) Instrument QC Batch: MA54072
(2) Prep QC Batch: MP39216

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EB-042023	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-17	Date Received:	04/21/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.0041 U	0.010	0.0041	mg/l	1	04/26/23 13:01 MM	EPA 335.4/LACHAT	

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-22B	Date Sampled:	04/21/23
Lab Sample ID:	JD64431-18	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1V96589.D	1	05/02/23 17:31	KD	n/a	n/a	V1V3895
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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) ^a	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	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	0.80	1.0	0.51	ug/l	J
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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-22B	Date Sampled:	04/21/23
Lab Sample ID:	JD64431-18	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
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	0.91	1.0	0.52	ug/l	J
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	107%		80-120%
17060-07-0	1,2-Dichloroethane-D4	102%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

(a) Associated CCV outside of control limits high, 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

Page 1 of 2

Client Sample ID:	MW-32B	Date Sampled:	04/21/23
Lab Sample ID:	JD64431-19	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1S002406.D	1	04/29/23 00:02	ED	n/a	n/a	V1S68
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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 ^b	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 ^b	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane ^b	ND	1.0	0.73	ug/l	
67-66-3	Chloroform ^b	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane ^b	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	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 ^b	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene ^b	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	6.7	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	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-32B	Date Sampled:	04/21/23
Lab Sample ID:	JD64431-19	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane ^b	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	18.0	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane ^b	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	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	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	95%		80-120%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	96%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

(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

Page 1 of 2

Client Sample ID:	MW-042123	Date Sampled:	04/21/23
Lab Sample ID:	JD64431-20	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E173961.D	1	04/29/23 06:06	NW	n/a	n/a	V2E8655
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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	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	8.2	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-042123	Date Sampled:	04/21/23
Lab Sample ID:	JD64431-20	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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 ^a	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	
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	14.6	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	
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	111%		80-120%
17060-07-0	1,2-Dichloroethane-D4	105%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	96%		82-114%

(a) Associated CCV outside of control limits high, 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-20B	
Lab Sample ID:	JD64431-21	Date Sampled: 04/21/23
Matrix:	AQ - Ground Water	Date Received: 04/21/23
Method:	SW846 8260D	Percent Solids: n/a
Project:	Emersub 15, LLC, Ithaca, NY	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E173962.D	1	04/29/23 06:32	NW	n/a	n/a	V2E8655
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-20B	Date Sampled:	04/21/23
Lab Sample ID:	JD64431-21	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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 ^a	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	
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	
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	101%		80-120%
2037-26-5	Toluene-D8	106%		80-120%
460-00-4	4-Bromofluorobenzene	95%		82-114%

(a) Associated CCV outside of control limits high, 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-8-40	Date Sampled:	04/21/23
Lab Sample ID:	JD64431-22	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E173920.D	1	04/28/23 14:19	NW	n/a	n/a	V2E8654
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8-40	Date Sampled:	04/21/23
Lab Sample ID:	JD64431-22	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
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	
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	111%		80-120%
17060-07-0	1,2-Dichloroethane-D4	102%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	96%		82-114%

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias 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-18A	Date Sampled:	04/21/23
Lab Sample ID:	JD64431-23	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E173918.D	1	04/28/23 13:53	NW	n/a	n/a	V2E8654
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	3.3	10	3.1	ug/l	J
71-43-2	Benzene	ND	0.50	0.43	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	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-18A	Date Sampled:	04/21/23
Lab Sample ID:	JD64431-23	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
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	
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	103%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	95%		82-114%

(a) Associated CCV outside of control limits high. This compound in blank spike is outside in house QC limits bias 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:	TRIP BLANK	Date Sampled:	04/21/23
Lab Sample ID:	JD64431-24	Date Received:	04/21/23
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1E174041.D	1	05/01/23 14:01	NW	n/a	n/a	V1E8657
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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 ^b	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	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK	Date Sampled:	04/21/23
Lab Sample ID:	JD64431-24	Date Received:	04/21/23
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
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	
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	116%		80-120%
17060-07-0	1,2-Dichloroethane-D4	109%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

- (a) Associated CCV outside of control limits high, sample was ND.
 (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:	LBA-MW-23	Date Sampled:	04/19/23
Lab Sample ID:	JD64431-25	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E173937.D	1	04/28/23 19:42	NW	n/a	n/a	V2E8654
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	3.7	10	3.1	ug/l	J
71-43-2	Benzene	ND	0.50	0.43	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	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	1.9	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LBA-MW-23	Date Sampled:	04/19/23
Lab Sample ID:	JD64431-25	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
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	
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	106%		80-120%
17060-07-0	1,2-Dichloroethane-D4	105%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	96%		82-114%

(a) Associated CCV outside of control limits high. This compound in blank spike is outside in house QC limits bias 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-1B	Date Sampled:	04/19/23
Lab Sample ID:	JD64431-26	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E173938.D	1	04/28/23 20:08	NW	n/a	n/a	V2E8654
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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	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	15.6	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	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-1B	Date Sampled:	04/19/23
Lab Sample ID:	JD64431-26	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
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	26.2	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	
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	100%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	95%		82-114%

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias 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-2B	Date Sampled:	04/19/23
Lab Sample ID:	JD64431-27	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2E173940.D	50	04/28/23 21:00	NW	n/a	n/a	V2E8654
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	500	150	ug/l	
71-43-2	Benzene	ND	25	21	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	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	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	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	4980	50	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	50	27	ug/l	
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	
98-82-8	Isopropylbenzene	ND	50	32	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-2B	Date Sampled:	04/19/23
Lab Sample ID:	JD64431-27	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	250	40	ug/l	
108-87-2	Methylcyclohexane	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	
120-82-1	1,2,4-Trichlorobenzene	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	8160	50	26	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	20	ug/l	
75-01-4	Vinyl chloride	46.4	50	26	ug/l	J
1330-20-7	Xylene (total)	ND	50	30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		80-120%
17060-07-0	1,2-Dichloroethane-D4	97%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	96%		82-114%

(a) Dilution required due to high concentration of target compound.

(b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias 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:	LBA-MW-35	Date Sampled:	04/19/23
Lab Sample ID:	JD64431-28	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	2950	200	13	ug/l	1	04/25/23	04/26/23 ND	SW846 6010D ¹	SW846 3010A ²

(1) Instrument QC Batch: MA54072
(2) Prep QC Batch: MP39216

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	LBA-MW-35	Date Sampled:	04/19/23
Lab Sample ID:	JD64431-28	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.24	0.010	0.0041	mg/l	1	04/26/23 13:02 MM	EPA 335.4/LACHAT	

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	LBA-MW-18	Date Sampled:	04/19/23
Lab Sample ID:	JD64431-29	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	2520	200	13	ug/l	1	04/25/23	04/26/23 ND	SW846 6010D ¹	SW846 3010A ²

(1) Instrument QC Batch: MA54072
(2) Prep QC Batch: MP39216

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 2

Client Sample ID:	LBA-MW-34N	Date Sampled:	04/19/23
Lab Sample ID:	JD64431-30	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E173939.D	1	04/28/23 20:34	NW	n/a	n/a	V2E8654
Run #2	2E174044.D	10	05/01/23 14:40	NW	n/a	n/a	V2E8657

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

VOA TCL List (OLM4.2)

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	
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	2.5	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	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	157	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	6.7	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	766 ^b	10	5.1	ug/l	
156-60-5	trans-1,2-Dichloroethene	12.1	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: LBA-MW-34N
Lab Sample ID: JD64431-30
Matrix: AQ - Ground Water
Method: SW846 8260D
Project: Emersub 15, LLC, Ithaca, NY

Date Sampled: 04/19/23
Date Received: 04/21/23
Percent Solids: n/a

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	20.4	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	18.1	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	463 ^b	10	5.2	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	106%	118%	80-120%
17060-07-0	1,2-Dichloroethane-D4	100%	105%	80-120%
2037-26-5	Toluene-D8	102%	101%	80-120%
460-00-4	4-Bromofluorobenzene	99%	96%	82-114%

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

(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:	LBA-MW-34N	Date Sampled:	04/19/23
Lab Sample ID:	JD64431-30	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	1850	200	13	ug/l	1	04/25/23	04/26/23 ND	SW846 6010D ¹	SW846 3010A ²

(1) Instrument QC Batch: MA54072
(2) Prep QC Batch: MP39216

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	LBA-MW-39	Date Sampled:	04/19/23
Lab Sample ID:	JD64431-31	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	228	200	13	ug/l	1	04/25/23	04/26/23 ND	SW846 6010D ¹	SW846 3010A ²

(1) Instrument QC Batch: MA54072
(2) Prep QC Batch: MP39216

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	LBA-MW-39	Date Sampled:	04/19/23
Lab Sample ID:	JD64431-31	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.18	0.010	0.0041	mg/l	1	04/26/23 13:03 MM	EPA 335.4/LACHAT	

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	LBA-MW-26	Date Sampled:	04/19/23
Lab Sample ID:	JD64431-32	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	1680	200	13	ug/l	1	04/25/23	04/26/23 ND	SW846 6010D ¹	SW846 3010A ²

(1) Instrument QC Batch: MA54072
(2) Prep QC Batch: MP39216

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EB-041923	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-33	Date Received:	04/21/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E173935.D	1	04/28/23 18:51	NW	n/a	n/a	V2E8654
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	5.3	10	3.1	ug/l	J
71-43-2	Benzene	ND	0.50	0.43	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	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB-041923	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-33	Date Received:	04/21/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
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	
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	106%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	97%		82-114%

(a) Associated CCV outside of control limits high. This compound in blank spike is outside in house QC limits bias 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:	EB-041923	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-33	Date Received:	04/21/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	13 U	200	13	ug/l	1	04/25/23	04/26/23 ND	SW846 6010D ¹	SW846 3010A ²

(1) Instrument QC Batch: MA54072
(2) Prep QC Batch: MP39216

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EB-041923	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-33	Date Received:	04/21/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.0089 J	0.010	0.0041	mg/l	1	04/26/23 13:04 MM	EPA 335.4/LACHAT	

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MW-7B	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-34	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1E174047.D	1	05/01/23 15:20	NW	n/a	n/a	V1E8657
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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 ^b	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	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-7B	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-34	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
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	
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	117%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	97%		82-114%

- (a) Associated CCV outside of control limits high, sample was ND.
 (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-46-72C	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-35	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E174042.D	1	05/01/23 14:14	NW	n/a	n/a	V2E8657
Run #2	2E173941.D	50	04/28/23 21:26	NW	n/a	n/a	V2E8654

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

VOA TCL List (OLM4.2)

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	
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 ^b	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	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	7.9	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	3740 ^c	50	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	23.0	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-46-72C	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-35	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	J
108-87-2	Methylcyclohexane	1.6	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	1.0	1.0	0.49	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	128	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	1870 ^c	50	26	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	113%	109%	80-120%
17060-07-0	1,2-Dichloroethane-D4	100%	105%	80-120%
2037-26-5	Toluene-D8	101%	100%	80-120%
460-00-4	4-Bromofluorobenzene	99%	96%	82-114%

- (a) Associated CCV outside of control limits high, sample was ND.
 (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-042023	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-36	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2T1432.D	10	04/29/23 03:22	ED	n/a	n/a	V2T46
Run #2	1K06113.D	100	05/02/23 13:29	NW	n/a	n/a	V1K176

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

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	100	31	ug/l	
71-43-2	Benzene	ND	5.0	4.3	ug/l	
75-27-4	Bromodichloromethane	ND	10	4.5	ug/l	
75-25-2	Bromoform	ND	10	6.3	ug/l	
74-83-9	Bromomethane ^c	ND	20	16	ug/l	
78-93-3	2-Butanone (MEK) ^b	ND	100	27	ug/l	
75-15-0	Carbon disulfide	ND	20	4.6	ug/l	
56-23-5	Carbon tetrachloride	ND	10	5.5	ug/l	
108-90-7	Chlorobenzene	ND	10	5.6	ug/l	
75-00-3	Chloroethane	ND	10	7.3	ug/l	
67-66-3	Chloroform	ND	10	5.0	ug/l	
74-87-3	Chloromethane	ND	10	7.6	ug/l	
110-82-7	Cyclohexane	ND	50	7.8	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	20	5.3	ug/l	
124-48-1	Dibromochloromethane	ND	10	5.6	ug/l	
106-93-4	1,2-Dibromoethane	ND	10	4.8	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	5.3	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	5.4	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	5.1	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	5.6	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	5.7	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	6.0	ug/l	
75-35-4	1,1-Dichloroethene	6.3	10	5.9	ug/l	J
156-59-2	cis-1,2-Dichloroethene	3060 ^d	100	51	ug/l	
156-60-5	trans-1,2-Dichloroethene	11.3	10	5.4	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	5.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	4.7	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	4.3	ug/l	
100-41-4	Ethylbenzene	ND	10	6.0	ug/l	
76-13-1	Freon 113	ND	50	5.8	ug/l	
591-78-6	2-Hexanone	ND	50	20	ug/l	
98-82-8	Isopropylbenzene	ND	10	6.5	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-042023	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-36	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	50	8.0	ug/l	
108-87-2	Methylcyclohexane	ND	50	6.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	5.1	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	50	19	ug/l	
75-09-2	Methylene chloride	ND	20	10	ug/l	
100-42-5	Styrene	ND	10	4.9	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	6.5	ug/l	
127-18-4	Tetrachloroethene	ND	10	5.6	ug/l	
108-88-3	Toluene	ND	10	4.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	5.4	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	5.3	ug/l	
79-01-6	Trichloroethene	94.6	10	5.3	ug/l	
75-69-4	Trichlorofluoromethane	ND	20	4.0	ug/l	
75-01-4	Vinyl chloride	1640	10	5.2	ug/l	
1330-20-7	Xylene (total)	ND	10	5.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	98%	80-120%
17060-07-0	1,2-Dichloroethane-D4	112%	94%	80-120%
2037-26-5	Toluene-D8	100%	101%	80-120%
460-00-4	4-Bromofluorobenzene	94%	95%	82-114%

- (a) Dilution required due to high concentration of target compound.
 (b) Associated CCV outside of control limits high, sample was ND.
 (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-46-43C	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-37	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2T1433.D	50	04/29/23 03:48	ED	n/a	n/a	V2T46
Run #2	1K06114.D	500	05/02/23 13:54	NW	n/a	n/a	V1K176

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

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	500	150	ug/l	
71-43-2	Benzene	ND	25	21	ug/l	
75-27-4	Bromodichloromethane	ND	50	23	ug/l	
75-25-2	Bromoform	ND	50	32	ug/l	
74-83-9	Bromomethane ^c	ND	100	82	ug/l	
78-93-3	2-Butanone (MEK) ^b	ND	500	140	ug/l	
75-15-0	Carbon disulfide	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	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	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	11900 ^d	500	250	ug/l	
156-60-5	trans-1,2-Dichloroethene	124	50	27	ug/l	
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	
98-82-8	Isopropylbenzene	ND	50	32	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-46-43C	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-37	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	250	40	ug/l	
108-87-2	Methylcyclohexane	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	
120-82-1	1,2,4-Trichlorobenzene	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	7560	50	26	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	105%	98%	80-120%
17060-07-0	1,2-Dichloroethane-D4	113%	93%	80-120%
2037-26-5	Toluene-D8	100%	102%	80-120%
460-00-4	4-Bromofluorobenzene	99%	94%	82-114%

- (a) Dilution required due to high concentration of target compound.
 (b) Associated CCV outside of control limits high, sample was ND.
 (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-5-10D	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-38	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2T1434.D	1	04/29/23 04:15	ED	n/a	n/a	V2T46
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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 ^b	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^a	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	3.8	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	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	17.0	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	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-5-10D	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-38	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
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	11.6	1.0	0.52	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%		80-120%
17060-07-0	1,2-Dichloroethane-D4	106%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	100%		82-114%

- (a) Associated CCV outside of control limits high, sample was ND.
 (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-5-40	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-39	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2T1435.D	50	04/29/23 04:41	ED	n/a	n/a	V2T46
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	500	150	ug/l	
71-43-2	Benzene	ND	25	21	ug/l	
75-27-4	Bromodichloromethane	ND	50	23	ug/l	
75-25-2	Bromoform	ND	50	32	ug/l	
74-83-9	Bromomethane ^c	ND	100	82	ug/l	
78-93-3	2-Butanone (MEK) ^b	ND	500	140	ug/l	
75-15-0	Carbon disulfide	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	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	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	8650	50	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	253	50	27	ug/l	
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	
98-82-8	Isopropylbenzene	ND	50	32	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-5-40	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-39	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	250	40	ug/l	
108-87-2	Methylcyclohexane	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	
120-82-1	1,2,4-Trichlorobenzene	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	2080	50	26	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	20	ug/l	
75-01-4	Vinyl chloride	3870	50	26	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	106%		80-120%
17060-07-0	1,2-Dichloroethane-D4	113%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

- (a) Dilution required due to high concentration of target compound.
 (b) Associated CCV outside of control limits high, sample was ND.
 (c) 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-3B	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-40	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1V96585.D	10	05/02/23 15:43	KD	n/a	n/a	V1V3895
Run #2	2T1436.D	50	04/29/23 05:07	ED	n/a	n/a	V2T46

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

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	100	31	ug/l	
71-43-2	Benzene	ND	5.0	4.3	ug/l	
75-27-4	Bromodichloromethane	ND	10	4.5	ug/l	
75-25-2	Bromoform	ND	10	6.3	ug/l	
74-83-9	Bromomethane	ND	20	16	ug/l	
78-93-3	2-Butanone (MEK) ^b	ND	100	27	ug/l	
75-15-0	Carbon disulfide	ND	20	4.6	ug/l	
56-23-5	Carbon tetrachloride	ND	10	5.5	ug/l	
108-90-7	Chlorobenzene	ND	10	5.6	ug/l	
75-00-3	Chloroethane	ND	10	7.3	ug/l	
67-66-3	Chloroform	ND	10	5.0	ug/l	
74-87-3	Chloromethane	ND	10	7.6	ug/l	
110-82-7	Cyclohexane	ND	50	7.8	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	20	5.3	ug/l	
124-48-1	Dibromochloromethane	ND	10	5.6	ug/l	
106-93-4	1,2-Dibromoethane	ND	10	4.8	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	5.3	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	5.4	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	5.1	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	5.6	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	5.7	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	6.0	ug/l	
75-35-4	1,1-Dichloroethene	12.0	10	5.9	ug/l	
156-59-2	cis-1,2-Dichloroethene	5100 ^c	50	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	36.2	10	5.4	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	5.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	4.7	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	4.3	ug/l	
100-41-4	Ethylbenzene	ND	10	6.0	ug/l	
76-13-1	Freon 113	ND	50	5.8	ug/l	
591-78-6	2-Hexanone	ND	50	20	ug/l	
98-82-8	Isopropylbenzene	ND	10	6.5	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-3B	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-40	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	50	8.0	ug/l	
108-87-2	Methylcyclohexane	ND	50	6.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	5.1	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	50	19	ug/l	
75-09-2	Methylene chloride	ND	20	10	ug/l	
100-42-5	Styrene	ND	10	4.9	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	6.5	ug/l	
127-18-4	Tetrachloroethene	ND	10	5.6	ug/l	
108-88-3	Toluene	ND	10	4.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	5.4	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	5.3	ug/l	
79-01-6	Trichloroethene	4650 ^c	50	26	ug/l	
75-69-4	Trichlorofluoromethane	ND	20	4.0	ug/l	
75-01-4	Vinyl chloride	119	10	5.2	ug/l	
1330-20-7	Xylene (total)	ND	10	5.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%	105%	80-120%
17060-07-0	1,2-Dichloroethane-D4	105%	111%	80-120%
2037-26-5	Toluene-D8	98%	100%	80-120%
460-00-4	4-Bromofluorobenzene	99%	100%	82-114%

(a) Dilution required due to high concentration of target compound.

(b) Associated CCV outside of control limits high, 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-5B	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-41	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2T1425.D	5	04/29/23 00:20	ED	n/a	n/a	V2T46
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	50	15	ug/l	
71-43-2	Benzene	ND	2.5	2.1	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 ^c	ND	10	8.2	ug/l	
78-93-3	2-Butanone (MEK) ^b	ND	50	14	ug/l	
75-15-0	Carbon disulfide	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	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	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	705	5.0	2.5	ug/l	
156-60-5	trans-1,2-Dichloroethene	10.2	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	
98-82-8	Isopropylbenzene	ND	5.0	3.2	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5B	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-41	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	25	4.0	ug/l	
108-87-2	Methylcyclohexane	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	
120-82-1	1,2,4-Trichlorobenzene	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	383	5.0	2.6	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	2.0	ug/l	
75-01-4	Vinyl chloride	47.7	5.0	2.6	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	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	107%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

- (a) Dilution required due to high concentration of target compound.
 (b) Associated CCV outside of control limits high, sample was ND.
 (c) 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-4B	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-42	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2T1437.D	1	04/29/23 05:33	ED	n/a	n/a	V2T46
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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 ^b	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^a	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	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4B	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-42	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
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	0.63	1.0	0.52	ug/l	J
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	110%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

- (a) Associated CCV outside of control limits high, sample was ND.
 (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:	LBA-MW-08	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-43	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	4.1	0.10	0.041	mg/l	10	04/26/23 13:25 MM	EPA 335.4/LACHAT	

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	LBA-MW-43S	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-44	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	6180	200	13	ug/l	1	04/25/23	04/26/23 ND	SW846 6010D ¹	SW846 3010A ²

(1) Instrument QC Batch: MA54072
(2) Prep QC Batch: MP39216

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	LBA-MW-43S	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-44	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.40	0.010	0.0041	mg/l	1	04/26/23 13:06 MM	EPA 335.4/LACHAT	

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EW-9R-72C	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-45	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2T1438.D	20	04/29/23 05:59	ED	n/a	n/a	V2T46
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
75-27-4	Bromodichloromethane	ND	20	9.0	ug/l	
75-25-2	Bromoform	ND	20	13	ug/l	
74-83-9	Bromomethane ^c	ND	40	33	ug/l	
78-93-3	2-Butanone (MEK) ^b	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	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	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	3630	20	10	ug/l	
156-60-5	trans-1,2-Dichloroethene	22.1	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	ND	20	12	ug/l	
76-13-1	Freon 113	ND	100	12	ug/l	
591-78-6	2-Hexanone	ND	100	41	ug/l	
98-82-8	Isopropylbenzene	ND	20	13	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:	EW-9R-72C	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-45	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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)	ND	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	ND	20	9.8	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	66.4	20	11	ug/l	
75-69-4	Trichlorofluoromethane	ND	40	8.0	ug/l	
75-01-4	Vinyl chloride	767	20	10	ug/l	
1330-20-7	Xylene (total)	ND	20	12	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	112%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

- (a) Dilution required due to high concentration of target compound.
 (b) Associated CCV outside of control limits high, sample was ND.
 (c) 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:	EW-11-43C	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-46	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2T1439.D	4	04/29/23 06:25	ED	n/a	n/a	V2T46
Run #2	1K06115.D	100	05/02/23 14:19	NW	n/a	n/a	V1K176

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

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	40	12	ug/l	
71-43-2	Benzene	ND	2.0	1.7	ug/l	
75-27-4	Bromodichloromethane	ND	4.0	1.8	ug/l	
75-25-2	Bromoform	ND	4.0	2.5	ug/l	
74-83-9	Bromomethane ^c	ND	8.0	6.6	ug/l	
78-93-3	2-Butanone (MEK) ^b	ND	40	11	ug/l	
75-15-0	Carbon disulfide	ND	8.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	4.0	2.2	ug/l	
108-90-7	Chlorobenzene	ND	4.0	2.2	ug/l	
75-00-3	Chloroethane	ND	4.0	2.9	ug/l	
67-66-3	Chloroform	ND	4.0	2.0	ug/l	
74-87-3	Chloromethane	ND	4.0	3.0	ug/l	
110-82-7	Cyclohexane	ND	20	3.1	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	8.0	2.1	ug/l	
124-48-1	Dibromochloromethane	ND	4.0	2.2	ug/l	
106-93-4	1,2-Dibromoethane	ND	4.0	1.9	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.0	2.1	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.0	2.2	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.0	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	8.0	2.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	4.0	2.3	ug/l	
107-06-2	1,2-Dichloroethane	ND	4.0	2.4	ug/l	
75-35-4	1,1-Dichloroethene	13.4	4.0	2.4	ug/l	
156-59-2	cis-1,2-Dichloroethene	5500 ^d	100	51	ug/l	
156-60-5	trans-1,2-Dichloroethene	131	4.0	2.1	ug/l	
78-87-5	1,2-Dichloropropane	ND	4.0	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	4.0	1.9	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	4.0	1.7	ug/l	
100-41-4	Ethylbenzene	ND	4.0	2.4	ug/l	
76-13-1	Freon 113	ND	20	2.3	ug/l	
591-78-6	2-Hexanone	ND	20	8.1	ug/l	
98-82-8	Isopropylbenzene	ND	4.0	2.6	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EW-11-43C	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-46	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	20	3.2	ug/l	
108-87-2	Methylcyclohexane	ND	20	2.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	20	7.4	ug/l	
75-09-2	Methylene chloride	ND	8.0	4.0	ug/l	
100-42-5	Styrene	ND	4.0	1.9	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.0	2.6	ug/l	
127-18-4	Tetrachloroethene	ND	4.0	2.2	ug/l	
108-88-3	Toluene	ND	4.0	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.0	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	4.0	2.1	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	4.0	2.1	ug/l	
79-01-6	Trichloroethene	3940 ^d	100	53	ug/l	
75-69-4	Trichlorofluoromethane	ND	8.0	1.6	ug/l	
75-01-4	Vinyl chloride	191	4.0	2.1	ug/l	
1330-20-7	Xylene (total)	ND	4.0	2.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%	95%	80-120%
17060-07-0	1,2-Dichloroethane-D4	114%	91%	80-120%
2037-26-5	Toluene-D8	100%	103%	80-120%
460-00-4	4-Bromofluorobenzene	99%	96%	82-114%

- (a) Dilution required due to high concentration of target compound.
 (b) Associated CCV outside of control limits high, sample was ND.
 (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:	EW-12-45C	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-47	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2T1440.D	4	04/29/23 06:51	ED	n/a	n/a	V2T46
Run #2	1K06117.D	50	05/02/23 15:10	NW	n/a	n/a	V1K176

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

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	40	12	ug/l	
71-43-2	Benzene	ND	2.0	1.7	ug/l	
75-27-4	Bromodichloromethane	ND	4.0	1.8	ug/l	
75-25-2	Bromoform	ND	4.0	2.5	ug/l	
74-83-9	Bromomethane ^c	ND	8.0	6.6	ug/l	
78-93-3	2-Butanone (MEK) ^b	ND	40	11	ug/l	
75-15-0	Carbon disulfide	ND	8.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	4.0	2.2	ug/l	
108-90-7	Chlorobenzene	ND	4.0	2.2	ug/l	
75-00-3	Chloroethane	ND	4.0	2.9	ug/l	
67-66-3	Chloroform	ND	4.0	2.0	ug/l	
74-87-3	Chloromethane	ND	4.0	3.0	ug/l	
110-82-7	Cyclohexane	ND	20	3.1	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	8.0	2.1	ug/l	
124-48-1	Dibromochloromethane	ND	4.0	2.2	ug/l	
106-93-4	1,2-Dibromoethane	ND	4.0	1.9	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.0	2.1	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.0	2.2	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.0	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	8.0	2.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	4.0	2.3	ug/l	
107-06-2	1,2-Dichloroethane	ND	4.0	2.4	ug/l	
75-35-4	1,1-Dichloroethene	5.1	4.0	2.4	ug/l	
156-59-2	cis-1,2-Dichloroethene	3140 ^d	50	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	14.0	4.0	2.1	ug/l	
78-87-5	1,2-Dichloropropane	ND	4.0	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	4.0	1.9	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	4.0	1.7	ug/l	
100-41-4	Ethylbenzene	ND	4.0	2.4	ug/l	
76-13-1	Freon 113	ND	20	2.3	ug/l	
591-78-6	2-Hexanone	ND	20	8.1	ug/l	
98-82-8	Isopropylbenzene	ND	4.0	2.6	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EW-12-45C	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-47	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	20	3.2	ug/l	
108-87-2	Methylcyclohexane	ND	20	2.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	20	7.4	ug/l	
75-09-2	Methylene chloride	ND	8.0	4.0	ug/l	
100-42-5	Styrene	ND	4.0	1.9	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.0	2.6	ug/l	
127-18-4	Tetrachloroethene	ND	4.0	2.2	ug/l	
108-88-3	Toluene	ND	4.0	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.0	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	4.0	2.1	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	4.0	2.1	ug/l	
79-01-6	Trichloroethene	2210 ^d	50	26	ug/l	
75-69-4	Trichlorofluoromethane	ND	8.0	1.6	ug/l	
75-01-4	Vinyl chloride	133	4.0	2.1	ug/l	
1330-20-7	Xylene (total)	ND	4.0	2.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%	98%	80-120%
17060-07-0	1,2-Dichloroethane-D4	111%	95%	80-120%
2037-26-5	Toluene-D8	100%	101%	80-120%
460-00-4	4-Bromofluorobenzene	97%	94%	82-114%

- (a) Dilution required due to high concentration of target compound.
 (b) Associated CCV outside of control limits high, sample was ND.
 (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

Page 1 of 2

Client Sample ID:	EW-01-62C	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-48	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2T1427.D	1	04/29/23 01:12	ED	n/a	n/a	V2T46
Run #2	2T1430.D	10	04/29/23 02:30	ED	n/a	n/a	V2T46

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

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	7.7	10	3.1	ug/l	J
71-43-2	Benzene	ND	0.50	0.43	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 ^b	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^c	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	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	219 ^d	10	5.1	ug/l	
156-60-5	trans-1,2-Dichloroethene	4.1	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EW-01-62C	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-48	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
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	56.5	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	12.1	1.0	0.52	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%	105%	80-120%
17060-07-0	1,2-Dichloroethane-D4	111%	114%	80-120%
2037-26-5	Toluene-D8	99%	99%	80-120%
460-00-4	4-Bromofluorobenzene	99%	100%	82-114%

- (a) Associated CCV outside of control limits high.
 (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) Associated CCV outside of control limits high, 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

Page 1 of 2

Client Sample ID:	EW-02-62C	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-49	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2T1441.D	1	04/29/23 07:17	ED	n/a	n/a	V2T46
Run #2	1K06148.D	20	05/03/23 12:33	NW	n/a	n/a	V1K177

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

VOA TCL List (OLM4.2)

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	
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 ^b	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^a	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	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	2.9	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	821 ^c	20	10	ug/l	
156-60-5	trans-1,2-Dichloroethene	7.7	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EW-02-62C	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-49	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
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	960 ^c	20	11	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	6.7	1.0	0.52	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%	98%	80-120%
17060-07-0	1,2-Dichloroethane-D4	113%	92%	80-120%
2037-26-5	Toluene-D8	100%	101%	80-120%
460-00-4	4-Bromofluorobenzene	99%	94%	82-114%

- (a) Associated CCV outside of control limits high, sample was ND.
 (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:	EW-03-60C	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-50	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2T1442.D	4	04/29/23 07:43	ED	n/a	n/a	V2T46
Run #2	1V96578.D	50	05/02/23 12:48	KD	n/a	n/a	V1V3895

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

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	40	12	ug/l	
71-43-2	Benzene	ND	2.0	1.7	ug/l	
75-27-4	Bromodichloromethane	ND	4.0	1.8	ug/l	
75-25-2	Bromoform	ND	4.0	2.5	ug/l	
74-83-9	Bromomethane ^c	ND	8.0	6.6	ug/l	
78-93-3	2-Butanone (MEK) ^b	ND	40	11	ug/l	
75-15-0	Carbon disulfide	ND	8.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	4.0	2.2	ug/l	
108-90-7	Chlorobenzene	ND	4.0	2.2	ug/l	
75-00-3	Chloroethane	ND	4.0	2.9	ug/l	
67-66-3	Chloroform	ND	4.0	2.0	ug/l	
74-87-3	Chloromethane	ND	4.0	3.0	ug/l	
110-82-7	Cyclohexane	ND	20	3.1	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	8.0	2.1	ug/l	
124-48-1	Dibromochloromethane	ND	4.0	2.2	ug/l	
106-93-4	1,2-Dibromoethane	ND	4.0	1.9	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.0	2.1	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.0	2.2	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.0	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	8.0	2.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	4.0	2.3	ug/l	
107-06-2	1,2-Dichloroethane	ND	4.0	2.4	ug/l	
75-35-4	1,1-Dichloroethene	3.3	4.0	2.4	ug/l	J
156-59-2	cis-1,2-Dichloroethene	767	4.0	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	12.5	4.0	2.1	ug/l	
78-87-5	1,2-Dichloropropane	ND	4.0	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	4.0	1.9	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	4.0	1.7	ug/l	
100-41-4	Ethylbenzene	ND	4.0	2.4	ug/l	
76-13-1	Freon 113	ND	20	2.3	ug/l	
591-78-6	2-Hexanone	ND	20	8.1	ug/l	
98-82-8	Isopropylbenzene	ND	4.0	2.6	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:	EW-03-60C	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-50	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	20	3.2	ug/l	
108-87-2	Methylcyclohexane	ND	20	2.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	20	7.4	ug/l	
75-09-2	Methylene chloride	ND	8.0	4.0	ug/l	
100-42-5	Styrene	ND	4.0	1.9	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.0	2.6	ug/l	
127-18-4	Tetrachloroethene	ND	4.0	2.2	ug/l	
108-88-3	Toluene	ND	4.0	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.0	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	4.0	2.1	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	4.0	2.1	ug/l	
79-01-6	Trichloroethene	1890 ^d	50	26	ug/l	
75-69-4	Trichlorofluoromethane	ND	8.0	1.6	ug/l	
75-01-4	Vinyl chloride	17.7	4.0	2.1	ug/l	
1330-20-7	Xylene (total)	ND	4.0	2.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%	110%	80-120%
17060-07-0	1,2-Dichloroethane-D4	109%	107%	80-120%
2037-26-5	Toluene-D8	101%	98%	80-120%
460-00-4	4-Bromofluorobenzene	99%	100%	82-114%

- (a) Dilution required due to high concentration of target compound.
 (b) Associated CCV outside of control limits high, sample was ND.
 (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:	EW-04-25B	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-51	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2T1443.D	4	04/29/23 08:09	ED	n/a	n/a	V2T46
Run #2	1V96588.D	50	05/02/23 16:58	KD	n/a	n/a	V1V3895

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

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	40	12	ug/l	
71-43-2	Benzene	ND	2.0	1.7	ug/l	
75-27-4	Bromodichloromethane	ND	4.0	1.8	ug/l	
75-25-2	Bromoform	ND	4.0	2.5	ug/l	
74-83-9	Bromomethane ^c	ND	8.0	6.6	ug/l	
78-93-3	2-Butanone (MEK) ^b	ND	40	11	ug/l	
75-15-0	Carbon disulfide	ND	8.0	1.8	ug/l	
56-23-5	Carbon tetrachloride	ND	4.0	2.2	ug/l	
108-90-7	Chlorobenzene	ND	4.0	2.2	ug/l	
75-00-3	Chloroethane	ND	4.0	2.9	ug/l	
67-66-3	Chloroform	ND	4.0	2.0	ug/l	
74-87-3	Chloromethane	ND	4.0	3.0	ug/l	
110-82-7	Cyclohexane	ND	20	3.1	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	8.0	2.1	ug/l	
124-48-1	Dibromochloromethane	ND	4.0	2.2	ug/l	
106-93-4	1,2-Dibromoethane	ND	4.0	1.9	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.0	2.1	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.0	2.2	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.0	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	8.0	2.2	ug/l	
75-34-3	1,1-Dichloroethane	ND	4.0	2.3	ug/l	
107-06-2	1,2-Dichloroethane	ND	4.0	2.4	ug/l	
75-35-4	1,1-Dichloroethene	2.5	4.0	2.4	ug/l	J
156-59-2	cis-1,2-Dichloroethene	879 ^d	50	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	12.4	4.0	2.1	ug/l	
78-87-5	1,2-Dichloropropane	ND	4.0	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	4.0	1.9	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	4.0	1.7	ug/l	
100-41-4	Ethylbenzene	ND	4.0	2.4	ug/l	
76-13-1	Freon 113	ND	20	2.3	ug/l	
591-78-6	2-Hexanone	ND	20	8.1	ug/l	
98-82-8	Isopropylbenzene	ND	4.0	2.6	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EW-04-25B	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-51	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	20	3.2	ug/l	
108-87-2	Methylcyclohexane	ND	20	2.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	20	7.4	ug/l	
75-09-2	Methylene chloride	ND	8.0	4.0	ug/l	
100-42-5	Styrene	ND	4.0	1.9	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.0	2.6	ug/l	
127-18-4	Tetrachloroethene	ND	4.0	2.2	ug/l	
108-88-3	Toluene	ND	4.0	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.0	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	4.0	2.1	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	4.0	2.1	ug/l	
79-01-6	Trichloroethene	2390 ^d	50	26	ug/l	
75-69-4	Trichlorofluoromethane	ND	8.0	1.6	ug/l	
75-01-4	Vinyl chloride	ND	4.0	2.1	ug/l	
1330-20-7	Xylene (total)	ND	4.0	2.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%	106%	80-120%
17060-07-0	1,2-Dichloroethane-D4	111%	104%	80-120%
2037-26-5	Toluene-D8	100%	98%	80-120%
460-00-4	4-Bromofluorobenzene	99%	100%	82-114%

- (a) Dilution required due to high concentration of target compound.
 (b) Associated CCV outside of control limits high, sample was ND.
 (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:	EW-05-25B	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-52	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2T1444.D	5	04/29/23 08:35	ED	n/a	n/a	V2T46
Run #2	1E174109.D	100	05/02/23 16:19	NW	n/a	n/a	V1E8658

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

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	50	15	ug/l	
71-43-2	Benzene	ND	2.5	2.1	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 ^c	ND	10	8.2	ug/l	
78-93-3	2-Butanone (MEK) ^b	ND	50	14	ug/l	
75-15-0	Carbon disulfide	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	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	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	14.5	5.0	3.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	5420 ^d	100	51	ug/l	
156-60-5	trans-1,2-Dichloroethene	53.1	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	
98-82-8	Isopropylbenzene	ND	5.0	3.2	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EW-05-25B	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-52	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	25	4.0	ug/l	
108-87-2	Methylcyclohexane	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	
120-82-1	1,2,4-Trichlorobenzene	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	4790 ^d	100	53	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	2.0	ug/l	
75-01-4	Vinyl chloride	134	5.0	2.6	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	108%	97%	80-120%
17060-07-0	1,2-Dichloroethane-D4	115%	95%	80-120%
2037-26-5	Toluene-D8	100%	99%	80-120%
460-00-4	4-Bromofluorobenzene	99%	96%	82-114%

- (a) Dilution required due to high concentration of target compound.
 (b) Associated CCV outside of control limits high, sample was ND.
 (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:	EW-06-60C	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-53	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2T1445.D	50	04/29/23 09:01	ED	n/a	n/a	V2T46
Run #2	2E174110.D	500	05/02/23 16:32	NW	n/a	n/a	V2E8658

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

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	500	150	ug/l	
71-43-2	Benzene	ND	25	21	ug/l	
75-27-4	Bromodichloromethane	ND	50	23	ug/l	
75-25-2	Bromoform	ND	50	32	ug/l	
74-83-9	Bromomethane ^c	ND	100	82	ug/l	
78-93-3	2-Butanone (MEK) ^b	ND	500	140	ug/l	
75-15-0	Carbon disulfide	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	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	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	12100 ^d	500	250	ug/l	
156-60-5	trans-1,2-Dichloroethene	50.5	50	27	ug/l	
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	
98-82-8	Isopropylbenzene	ND	50	32	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:	EW-06-60C	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-53	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	250	40	ug/l	
108-87-2	Methylcyclohexane	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	
120-82-1	1,2,4-Trichlorobenzene	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	5330	50	26	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	20	ug/l	
75-01-4	Vinyl chloride	ND	50	26	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	107%	101%	80-120%
17060-07-0	1,2-Dichloroethane-D4	112%	96%	80-120%
2037-26-5	Toluene-D8	100%	100%	80-120%
460-00-4	4-Bromofluorobenzene	98%	98%	82-114%

- (a) Dilution required due to high concentration of target compound.
 (b) Associated CCV outside of control limits high, sample was ND.
 (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:	EW-07-25B	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-54	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2T1426.D	10	04/29/23 00:46	ED	n/a	n/a	V2T46
Run #2	1E174111.D	100	05/02/23 16:45	NW	n/a	n/a	V1E8658

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

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	100	31	ug/l	
71-43-2	Benzene	ND	5.0	4.3	ug/l	
75-27-4	Bromodichloromethane	ND	10	4.5	ug/l	
75-25-2	Bromoform	ND	10	6.3	ug/l	
74-83-9	Bromomethane ^c	ND	20	16	ug/l	
78-93-3	2-Butanone (MEK) ^b	ND	100	27	ug/l	
75-15-0	Carbon disulfide	ND	20	4.6	ug/l	
56-23-5	Carbon tetrachloride	ND	10	5.5	ug/l	
108-90-7	Chlorobenzene	ND	10	5.6	ug/l	
75-00-3	Chloroethane	ND	10	7.3	ug/l	
67-66-3	Chloroform	ND	10	5.0	ug/l	
74-87-3	Chloromethane	ND	10	7.6	ug/l	
110-82-7	Cyclohexane	ND	50	7.8	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	20	5.3	ug/l	
124-48-1	Dibromochloromethane	ND	10	5.6	ug/l	
106-93-4	1,2-Dibromoethane	ND	10	4.8	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	5.3	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	5.4	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	5.1	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	5.6	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	5.7	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	6.0	ug/l	
75-35-4	1,1-Dichloroethene	7.1	10	5.9	ug/l	J
156-59-2	cis-1,2-Dichloroethene	2730 ^d	100	51	ug/l	
156-60-5	trans-1,2-Dichloroethene	21.9	10	5.4	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	5.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	4.7	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	4.3	ug/l	
100-41-4	Ethylbenzene	ND	10	6.0	ug/l	
76-13-1	Freon 113	ND	50	5.8	ug/l	
591-78-6	2-Hexanone	ND	50	20	ug/l	
98-82-8	Isopropylbenzene	ND	10	6.5	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EW-07-25B	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-54	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	50	8.0	ug/l	
108-87-2	Methylcyclohexane	ND	50	6.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	5.1	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	50	19	ug/l	
75-09-2	Methylene chloride	ND	20	10	ug/l	
100-42-5	Styrene	ND	10	4.9	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	6.5	ug/l	
127-18-4	Tetrachloroethene	ND	10	5.6	ug/l	
108-88-3	Toluene	ND	10	4.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	5.4	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	5.3	ug/l	
79-01-6	Trichloroethene	114	10	5.3	ug/l	
75-69-4	Trichlorofluoromethane	ND	20	4.0	ug/l	
75-01-4	Vinyl chloride	147	10	5.2	ug/l	
1330-20-7	Xylene (total)	ND	10	5.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%	100%	80-120%
17060-07-0	1,2-Dichloroethane-D4	114%	97%	80-120%
2037-26-5	Toluene-D8	99%	100%	80-120%
460-00-4	4-Bromofluorobenzene	100%	97%	82-114%

- (a) Dilution required due to high concentration of target compound.
 (b) Associated CCV outside of control limits high, sample was ND.
 (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:	EW-08-62C	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-55	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2E174112.D	50	05/02/23 16:59	NW	n/a	n/a	V2E8658
Run #2	1E174127.D	500	05/02/23 20:24	NW	n/a	n/a	V1E8658

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

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	500	150	ug/l	
71-43-2	Benzene	ND	25	21	ug/l	
75-27-4	Bromodichloromethane	ND	50	23	ug/l	
75-25-2	Bromoform	ND	50	32	ug/l	
74-83-9	Bromomethane ^c	ND	100	82	ug/l	
78-93-3	2-Butanone (MEK)	ND	500	140	ug/l	
75-15-0	Carbon disulfide ^c	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 ^c	ND	50	36	ug/l	
67-66-3	Chloroform	ND	50	25	ug/l	
74-87-3	Chloromethane	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	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 ^c	ND	50	30	ug/l	
156-59-2	cis-1,2-Dichloroethene	10500 ^d	500	250	ug/l	
156-60-5	trans-1,2-Dichloroethene	66.9	50	27	ug/l	
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 ^c	ND	250	29	ug/l	
591-78-6	2-Hexanone ^e	ND	250	100	ug/l	
98-82-8	Isopropylbenzene	ND	50	32	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:	EW-08-62C	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-55	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	250	40	ug/l	
108-87-2	Methylcyclohexane	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	
120-82-1	1,2,4-Trichlorobenzene	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	2610	50	26	ug/l	
75-69-4	Trichlorofluoromethane ^c	ND	100	20	ug/l	
75-01-4	Vinyl chloride ^f	30.8	50	26	ug/l	J
1330-20-7	Xylene (total)	ND	50	30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	101%	80-120%
17060-07-0	1,2-Dichloroethane-D4	97%	104%	80-120%
2037-26-5	Toluene-D8	100%	101%	80-120%
460-00-4	4-Bromofluorobenzene	98%	98%	82-114%

- (a) Dilution required due to high concentration of target compound.
- (b) This compound in blank spike is outside in house QC limits bias high. Associated CCV outside of control limits high, sample was ND.
- (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
- (e) Associated CCV outside of control limits high, sample was ND.
- (f) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte.

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

Page 1 of 2

Client Sample ID:	EW-10-25B	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-56	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2T1447.D	1	04/29/23 09:53	ED	n/a	n/a	V2T46
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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 ^b	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) ^a	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	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	146	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	2.1	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	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EW-10-25B	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-56	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	
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	113	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	0.86	1.0	0.52	ug/l	J
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	106%		80-120%
17060-07-0	1,2-Dichloroethane-D4	110%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

- (a) Associated CCV outside of control limits high, sample was ND.
 (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:	LBA-MW-43N	Date Sampled:	04/20/23
Lab Sample ID:	JD64431-57	Date Received:	04/21/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.53	0.010	0.0041	mg/l	1	04/26/23 13:07 MM	EPA 335.4/LACHAT	

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

WSP Office Address 40 Ls Riviere Dr., Ste. 320 Buffalo, NY 14202				Requested Analyses & Preservatives				No. JD64431			
Project Name Former EPT Ithaca		WSP Contact Name Nathaniel Winston		SW646 B2P00D TCL 42 BARIUM CYANIDE RURA METALS + Hg Sample #				Laboratory Name & Location SGS DAYTON, NJ			
Project Location Ithaca, NY		WSP Contact E-mail Nathaniel.Winston@wsp.com						Tm-04623-210 Laboratory Project Manager			
Project Number & Task 31405608.001 02		WSP Contact Phone 315-420-9973						TAMMY McCloskey			
Sampler(s) Name(s) Nathaniel Winston		Sampler(s) Signature(s) 						Requested Turn-Around-Time ☒ Standard (7-day) ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ _____ HR			
Sample Identification		Matrix	Collection Start* Date Time	Collection Stop* Date Time	Number of Containers			Sample Comments			
EXB-9-MS/MSD		AG	4/17/13 1135	4/17/13 1540	3	X				1	AS
EXB-10				1540	3	X				2	G-7TY
MW-50-1600				1600	3	X				3	V969,
MW-041723A				1200	3	X				4	V970
MW-44T				1600	2		X	X		5	V971
MW-04172033				1605	2		X	X		6	
EB-041723				1655	5	X	X	X		7	
MW-7-40				4/18/13 1040	3	X				8	
MW-31B				1035	4	X	X			9	
LBA-MW-30				1059	2		X	X		10	
MW-16-100				1355	3	X				11	
EXB-17				1310	3	X				12	
MWSP-MW-06C				1335	1		X			13	Initial Assessment 3/1/13
WSP-MW-04B				1711	6	X		X	X	17	Label Verification
EB-041833				4/19/13 0800	6	X		X	X	15	
MW-40T				4/19/13 0830	3	X				16	
Relinquished By (Signature) 		Date 04/21/13	Time 14:38	Received By (Signature) Eddie C		Date 4/21/13	Time 14:41	Shipment Method		Tracking Number(s)	
Relinquished By (Signature)		Date	Time	Received By (Signature)		Date	Time	Number of Packages		Custody Seal Number(s)	

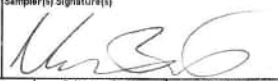
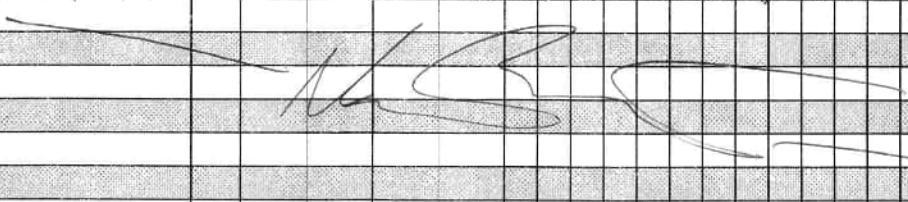
*Use stop time/date for composite and/or air samples; use only start time/date for all other samples.

Matrix: AU = Aqueous, B = Soil, SE = Sediment, A = Air, W = Wipe, B = Bulk, O = Other (detail in comments)

1.53.1 IP40
1.0

JD64431: Chain of Custody

Page 1 of 11

WSP Office Address 40 Ls Riviere Dr., Ste. 320 Buffalo, NY 14202				Requested Analyses & Preservatives										No. JD64431		
Project Name Former EPT Ithaca		WSP Contact Name Nathaniel Winston		SW645 82600 TCL 42 Number of Containers BARIUM CYANIDE Sample #										Laboratory Name & Location SGS DAYTON, NJ		
Project Location Ithaca, NY		WSP Contact E-mail Nathaniel.Winston@wsp.com												Laboratory Project Manager TAMMY McDERMID		
Project Number & Task 31405608 001 02		WSP Contact Phone 315-420-9873												Requested Turn-Around-Time ☒ Standard (7-cay) ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 1 HR		
Sampler(s) Name(s) Nathaniel Winston		Sampler(s) Signature(s) 												Sample Comments		
Sample Identification	Matrix	Collection Start* Date	Time	Collection Stop* Date	Time											
LBA-MW-43N	AQ	4/30/23	1402	1		X										
EB-042023		4/30/23	1600	2		X	X									
MW-22B		4/31/23	0945	3		X										
MW-32B		4/31/23	0800	3		X										
MW-042123		4/31/23	0900	3		X										
MW-20B		4/31/23	0945	3		X										
MW-B-40		4/31/23	0900	3		X										
MW-18A-M3/M40		4/31/23	0835	9		X										SAMPLE TIME: 0825
TAP BLANK				2		X										
																
Relinquished By (Signature) Parks	Date 04/21/23	Time 14:38	Received By (Signature) Eddie C	Date 4/21/23	Time 14:41	Shipment Method						Tracking Number(s)				
Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Number of Packages						Custody Seal Number(s)				
*Use stop time/date for composite and/or air samples; use only start time/date for all other samples.																
Matrix: AQ = Aqueous, S = Soil, SE = Sediment, A = Air, W = Waste, B = Bulk, O = Other (detail in comments)																

1.5 2.1 1.0 JF40

JD64431: Chain of Custody

Page 2 of 11



Chain of Custody Form

Page 3 of 4

WSP Office Address 40 Ls Riviere Dr., Ste. 320 Buffalo, NY 14202				Requested Analyses & Preservatives										No. JD 64431					
Project Name Former EPT Ithaca		WSP Contact Name Nathaniel Winston		SWB46 8260D TCL 42 Number of Containers BARIUM CYANIDE Sample #										Laboratory Name & Location SGS DAYTON, NJ					
Project Location Ithaca, NY		WSP Contact E-mail Nathaniel.Winston@wsp.com												Laboratory Project Manager <i>Tammy Madorsky</i>					
Project Number & Task 31405608.001.02		WSP Contact Phone 315-420-9973												Requested Turn-Around-Time ☒ Standard (7-day) ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ _____ HR					
Sampler(s) Name(s) Nathaniel Winston		Sampler(s) Signature(s) <i>NW</i>												Sample Comments					
Sample Identification		Matrix	Collection Start* Date Time	Collection Stop* Date Time															
LBA-MW-23		AQ	4/18/23 0640	3	X														
MW-1B			0650	3	X														
MW-2B			0900	3	X														
LBA-MW-35			0935	2		X	X												
LBA-MW-1B			1013	1		X													
LBA-MW-34N			1433	4		X	X												
LBA-MW-39			1347	2		X	X												
LBA-MW-26			1617	1		X													
EB-041923			4/20/23 0815	5		X	X	X											
MW-7B			0825	3		X													
MW-46-72C			0835	3		X													
MW-042023			0800	3		X													
MW-46-43C			0845	3		X													
MW-5-10D			0855	3		X													
MW-5-40			0905	3		X													
MW-3B			0920	3		X													
Relinquished By (Signature) <i>Pork</i>		Date 4/21/23	Time 14:38	Received By (Signature) <i>Eddie C</i>		Date 4/21/23	Time 14:41	Shipment Method		Tracking Number(s)									
Relinquished By (Signature)		Date	Time	Received By (Signature)		Date	Time	Number of Packages		Custody Seal Number(s)									

*Use stop time/date for composite and/or air samples; use only start time/date for all other samples.

Matrix: AQ = Aqueous, S = Soil, SL = Sediment, A = Air, W = Waste, B = Bulk, O = Other (detail in comments)

1.5 2.1 1.0 IP40

JD64431: Chain of Custody

Page 3 of 11

WSP Office Address 40 Ls Riviere Dr., Ste. 320 Buffalo, NY 14202				Requested Analyses & Preservatives				No. JD64431			
Project Name Former EPT Ithaca				WSP Contact Name Nathaniel Winston				Laboratory Name & Location SGS DAYTON, NJ			
Project Location Ithaca, NY				WSP Contact E-mail Nathaniel.Winston@wsp.com				Laboratory Project Manager Tommy McCloskey			
Project Number & Task 31405608.001.02				WSP Contact Phone 315-420-9973				Requested Turn-Around-Time ☒ Standard (7-day) ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ _____ HR			
Sampler(s) Name(s) Nathaniel Winston				Sampler(s) Signature(s) 				Sample Comments			
Sample Identification		Matrix	Collection Start* Date Time	Collection Stop* Date Time	Number of Containers	Requested Analyses & Preservatives		Sample #			
MW-5B-M3/MSD		AA	4/21/23 0930	4/21/23 0940	1	X			41		
MW-4B				0940	3	X			42		
LBA-MW-08				1030	1		X		43		
LBA-MW-43S				1055	2		X	X	44		
EW-7A-72C				1355	3	X			45		
EW-11-43C				1310	3	X			46		
EW-12-45C				1300	3	X			47		
EW-01-62C				1345	3	X			48		
EW-02-62C				1355	3	X			49		
EW-03-60C				1405	3	X			50		
EW-04-25B				1415	3	X			51		
EW-05-25B				1425	3	X			52		
EW-06-60C				1435	3	X			53		
EW-07-25B				1445	3	X			54		
EW-08-62C				1455	3	X			55		
EW-10-25B				1505	3	X			56		
Relinquished By (Signature) Pash		Date 04/21/23	Time 14:38	Received By (Signature) EUPip C		Date 4/21/23	Time 14:41	Shipment Method		Tracking Number(s)	
Relinquished By (Signature)		Date	Time	Received By (Signature)		Date	Time	Number of Packages		Custody Seal Number(s)	

*Use stop time/date for composite and/or air samples; use only start time/date for all other samples.

Matrix: AD = Aqueous, D = Soil, LB = Sediment, A = Air, W = Wipe, G = Other (detail in comments)

1.5 2.1 3R 40

JD64431: Chain of Custody

Page 4 of 11

SGS Sample Receipt Summary

Job Number: JD64431

Client: WSP USA

Project: EMERSUB 15, LLC, ITHACA, NY

Date / Time Received: 4/21/2023 2:41:00 PM

Delivery Method: Drop Off

Airbill #'s:
Cooler Temps (Raw Measured) °C: Cooler 1: (1.5); Cooler 2: (2.1); Cooler 3: (1.0);

Cooler Temps (Corrected) °C: Cooler 1: (1.3); Cooler 2: (1.9); Cooler 3: (0.8);

Cooler Security
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:

IR Gun

3. Cooler media:

Ice (Bag)

4. No. Coolers:

3

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

JD64431: Chain of Custody
Page 5 of 11

Page 6 of 11

Chain of Custody Form

Page 2 of 4

WSP Office Address
40 Ls Riviere Dr., Ste. 320 Buffalo, NY 14202

Project Name
Former EPT Ithaca

WSP Contact Name
Nathaniel Winston

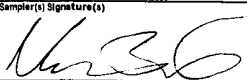
Project Location
Ithaca, NY

WSP Contact E-mail
Nathaniel.Winston@wsp.com

Project Number & Task
31405608.001.02

WSP Contact Phone
315-420-9973

Sampler(s) Name(s)
Nathaniel Winston

Sampler(s) Signature(s)


Requested Analytes & Preservatives

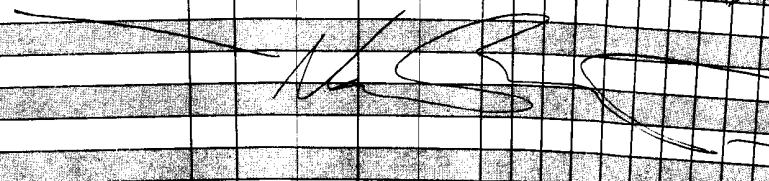
No. **JD64431**

Laboratory Name & Location
SGS DAYTON, NJ

Laboratory Project Manager
TAMMY MCDONALD

Requested Turn-Around-Time
☒ Standard (7-day) ☐ 24 HR
☐ 48 HR ☐ 72 HR
☐ _____ HR

Sample Comments

Sample Identification	Matrix	Collection Start* Date Time	Collection Stop* Date Time	Number of Containers	ANALYTES	PRESERVATIVES	Sample #
QA-MW-93N	AQ	4/10/23 1400	4/10/23 1600	1	X		1157
EB-042023		4/10/23 1600	4/10/23 1600	2	X	X	117
MW-22B		4/10/23 0945	4/10/23 0945	3	X		118
MW-32B		4/10/23 0800	4/10/23 0800	3	X		2019
MW-042123		4/10/23 0900	4/10/23 0900	3	X		20
MW-20B		4/10/23 0945	4/10/23 0945	3	X		21
MW-B-40		4/10/23 0945	4/10/23 0945	3	X		22
MW-18A-MS/MYD		4/12/23 0835	4/12/23 0835	9	X		23
TAIP BLANK				2	X		24
							

Relinquished By (Signature)
Park

Date
04/2/23

Time
14:38

Received By (Signature)
Eddie C

Date
4/2/23

Time
14:41

Shipment Method

Tracking Number(s)

Relinquished By (Signature)

Date

Time

Received By (Signature)

Date

Time

Number of Packages

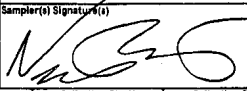
Custody Seal Number(s)

Matrix: AQ = Aqueous, S = Soil, SE = Sediment, A = Air, W = Wipe, B = Bulk, O = Other (detail in comments)

1.5 2.1 3.0 4.0

JD64431: Chain of Custody

Page 7 of 11

WSP Office Address 40 Ls Riviere Dr., Ste. 320 Buffalo, NY 14202				Requested Analyses & Preservatives										No. JD64431		
Project Name Former EPT Ithaca		WSP Contact Name Nathaniel Winston		Project Location Ithaca, NY		WSP Contact E-mail Nathaniel.Winston@wsp.com		Project Number & Task 31405608.001 02		WSP Contact Phone 315-420-9973		Laboratory Name & Location SGS DAYTON, NJ		Trm- 04623-210		
Sampler(s) Name(s) Nathaniel Winston		Sampler(s) Signature(s) 		Number of Containers SW846 8260D TCL 42		Matrix BARIUM CYANIDE PCRA METALS + Hg		Sample #		Requested Turn-Around-Time ☒ Standard (7-day) ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ ___ HR		Laboratory Project Manager TAMMY McCloskey		Sample Comments		
Sample Identification		Matrix	Collection Start*		Collection Stop*		Date		Time		Date		Time		Sample Comments	
EXB-4-MB/MSD		AO	---		---		4/18/23		1135		9		X		AS	
EXB-10			---		---		---		1540		3		X		G7TY	
MW-50-1600			---		---		---		1600		3		X		V969,	
MW-041723A			---		---		---		1200		3		X		V970	
MW-44T			---		---		---		1600		3		X X		V971	
MW-04172033			---		---		---		1605		2		X X			
EB-041723			---		---		---		1655		5		X X X			
MW-7-40			---		---		4/18/23		1040		3		X			
MW-31B			---		---		---		1035		4		X X X			
LBA-MW-30			---		---		---		1059		2		X X			
MW-16-100			---		---		---		1355		3		X			
EXB-7			---		---		---		1310		3		X			
MWSP-MW-06C			---		---		---		1335		1		X			
WSP-MW-04B			---		---		---		1711		6		X X X		Initial Assessment 3/1/23	
EB-041633			---		---		4/19/23		0600		6		X X X		Label Verification	
MW-40T			---		---		4/19/23		0830		3		X			
Relinquished By (Signature) 		Date 04/21/23	Time 14:38		Received By (Signature) Eddie C		Date 4/21/23	Time 14:41		Shipment Method		Tracking Number(s)				
Relinquished By (Signature)		Date	Time		Received By (Signature)		Date	Time		Number of Packages		Custody Seal Number(s)				

*Use stop time/date for composite and/or air samples; use only start time/date for all other samples.

Matrix: AO = Aqueous, S = Soil, SE = Sediment, A = Air, W = Wipe, B = Bulk, O = Other (detail in comments)

1.52.1 1440

JD64431: Chain of Custody

Page 8 of 11

[illegible]

1.5 2.1 No Dev/c

JD64431: Chain of Custody

Page 9 of 11

WSP Office Address 40 Ls Riviere Dr., Ste. 320 Buffalo, NY 14202				Requested Analyses & Preservatives				No. JD 64431			
Project Name Former EPT Ithaca		WSP Contact Name Nathaniel Winston		SW846 8260D TCL 42 Number of Containers BARNUM CYANIDE Sample #				Laboratory Name & Location SGS DAYTON, NJ			
Project Location Ithaca, NY		WSP Contact E-mail Nathaniel.Winston@wsp.com						Laboratory Project Manager <i>Tammy Moshney</i>			
Project Number & Task 31405608.001.02		WSP Contact Phone 315-420-9973						Requested Turn-Around-Time ☒ Standard (7-day) ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ _____ HR			
Sampler(s) Name(s) Nathaniel Winston		Sampler(s) Signature(s) <i>NW</i>						Sample Comments			
Sample Identification	Matrix	Collection Start* Date Time		Collection Stop* Date Time		Number of Containers					
LBA-MW-23	AA	4/13/23 0840		4/13/23 0850		3 X					
MW-1B				0850		3 X					
MW-2B				0900		3 X					
LBA-MW-35				0935		2 X X					
LBA-MW-18				1013		2 X					
LBA-MW-34N				1433		4 X X					
LBA-MW-39				1347		2 X X					
LBA-MW-26				1617		1 X					
EB-041923		4/13/23 0815		4/13/23 0815		5 X X X					
MW-7B				0835		3 X					
MW-46-73C				0835		3 X					
MW-042023				0800		3 X					
MW-46-43C				0845		3 X					
MW-5-100				0855		3 X					
MW-5-40				0905		3 X					
MW-3B				0920		3 X					
Relinquished By (Signature) <i>Pork</i>	Date 04/21/23	Time 14:38	Received By (Signature) <i>Eddie C</i>		Date 4/21/23	Time 14:41	Shipment Method		Tracking Number(s)		
Relinquished By (Signature)	Date	Time	Received By (Signature)		Date	Time	Number of Packages		Custody Seal Number(s)		

*Use stop time/date for composite and/or air samples; use only start time/date for all other samples.

Matrix: AL = Aqueous, S = Soil, SE = Sediment, A = Air, W = Waste, B = Bulk, O = Other (detail in comments)

1.5 2.1 1.0 1.0

JD64431: Chain of Custody

Page 10 of 11

WSP Office Address 40 Ls Riviere Dr., Ste 320 Buffalo, NY 14202				Requested Analyses & Preservatives										No. JD64431				
Project Name Former EPT Ithaca		WSP Contact Name Nathaniel Winston		SW846 8260D TCL 42 Number of Containers CYANIDE BARIUM Sample # 47										Laboratory Name & Location SGS DAYTON, NJ				
Project Location Ithaca, NY		WSP Contact E-mail Nathaniel.Winston@wsp.com												Laboratory Project Manager Tammy McQuinn				
Project Number & Task 31405608.001.02		WSP Contact Phone 315-420-9973												Requested Turn-Around-Time ☒ Standard (7-day) ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ HR				
Sampler(s) Name(s) Nathaniel Winston		Sampler(s) Signature(s) 												Sample Comments				
Sample Identification	Matrix	Collection Start Date	Collection Start Time	Collection Stop Date	Collection Stop Time	Number of Containers											Sample Comments	
MW-5B-M5/MSD	AO	4/21/23	0930			1	X											
MW-4B					0940	3	X											
LBA-MW-08					1020	1	X											
LBA-MW-43S					1055	2	X	X										
EW-9A-72C					1055	3	X											
EW-11-43C					1310	3	X											
EW-12-45C					1300	3	X											
EW-01-62C					1345	3	X											
EW-02-62C					1355	3	X											
EW-03-60C					1405	3	X											
EW-04-25B					1415	3	X											
EW-05-25B					1425	3	X											
EW-06-60C					1435	3	X											
EW-07-25B					1445	3	X											
EW-08-62C					1455	3	X											
EW-10-25B					1505	3	X											
Relinquished By (Signature) P. J. J.	Date 04/21/23	Time 14:38	Received By (Signature) EUCIP C		Date 4/21/23	Time 14:41	Shipment Method		Tracking Number(s)									
Relinquished By (Signature)	Date	Time	Received By (Signature)		Date	Time	Number of Packages		Custody Seal Number(s)									

Matrix: AO = Aqueous, S = Soil, SF = Sediment, A = Air, W = Wipe, B = Bulk, O = Other (detail in comments)

Use stop time/date for composite and/or air samples use only start time/date for all other samples

1.5 2.1 3R 40
1.0

JD64431: Chain of Custody

Page 11 of 11

Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

Job No: JD64431

Emersub 15, LLC, Ithaca, NY

Project No: 31405608.001 02

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD64431-1 EXB-9	Collected: 17-APR-23 11:35	By: NW	Received: 21-APR-23	By: JP		
JD64431-1	SW846 8260D	26-APR-23 12:59	ED			V8260TCL42
JD64431-2 EXB-10	Collected: 17-APR-23 15:40	By: NW	Received: 21-APR-23	By: JP		
JD64431-2	SW846 8260D	26-APR-23 16:52	ED			V8260TCL42
JD64431-3 MW-50-160D	Collected: 17-APR-23 16:00	By: NW	Received: 21-APR-23	By: JP		
JD64431-3	SW846 8260D	26-APR-23 19:01	ED			V8260TCL42
JD64431-3	SW846 8260D	27-APR-23 16:42	KD			V8260TCL42
JD64431-4 MW-041723A	Collected: 17-APR-23 12:00	By: NW	Received: 21-APR-23	By: JP		
JD64431-4	SW846 8260D	26-APR-23 19:27	ED			V8260TCL42
JD64431-4	SW846 8260D	28-APR-23 14:41	KD			V8260TCL42
JD64431-5 MW-44T	Collected: 17-APR-23 16:00	By: NW	Received: 21-APR-23	By: JP		
JD64431-5	EPA 335.4/LACHAT	26-APR-23 12:54	MM	25-APR-23	MH	CN
JD64431-5	SW846 6010D	26-APR-23 22:20	ND	25-APR-23	ND	BA
JD64431-6 MW-04172023	Collected: 17-APR-23 16:05	By: NW	Received: 21-APR-23	By: JP		
JD64431-6	EPA 335.4/LACHAT	26-APR-23 12:55	MM	25-APR-23	MH	CN
JD64431-6	SW846 6010D	26-APR-23 22:25	ND	25-APR-23	ND	BA
JD64431-7 EB-041723	Collected: 17-APR-23 16:55	By: NW	Received: 21-APR-23	By: JP		
JD64431-7	EPA 335.4/LACHAT	26-APR-23 12:56	MM	25-APR-23	MH	CN
JD64431-7	SW846 8260D	26-APR-23 16:26	ED			V8260TCL42
JD64431-7	SW846 6010D	26-APR-23 22:30	ND	25-APR-23	ND	BA

Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

Job No: JD64431

Emersub 15, LLC, Ithaca, NY

Project No: 31405608.001 02

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD64431-8 Collected: 18-APR-23 10:40 By: NW Received: 21-APR-23 By: JP MW-7-40						
JD64431-8	SW846 8260D	26-APR-23 17:18	ED			V8260TCL42
JD64431-9 Collected: 18-APR-23 10:25 By: NW Received: 21-APR-23 By: JP MW-31B						
JD64431-9	SW846 8260D	26-APR-23 17:43	ED			V8260TCL42
JD64431-9	SW846 6010D	26-APR-23 22:35	ND	25-APR-23	ND	BA
JD64431-10 Collected: 18-APR-23 10:59 By: NW Received: 21-APR-23 By: JP LBA-MW-30						
JD64431-10	EPA 335.4/LACHAT	26-APR-23 12:57	MM	25-APR-23	MH	CN
JD64431-10	SW846 6010D	26-APR-23 22:49	ND	25-APR-23	ND	BA
JD64431-11 Collected: 18-APR-23 12:55 By: NW Received: 21-APR-23 By: JP MW-16-10D						
JD64431-11	SW846 8260D	26-APR-23 18:09	ED			V8260TCL42
JD64431-12 Collected: 18-APR-23 13:10 By: NW Received: 21-APR-23 By: JP EXB-7						
JD64431-12	SW846 8260D	26-APR-23 19:53	ED			V8260TCL42
JD64431-12	SW846 8260D	28-APR-23 16:22	KD			V8260TCL42
JD64431-13 Collected: 18-APR-23 13:35 By: NW Received: 21-APR-23 By: JP WSP-MW-06C						
JD64431-13	SW846 6010D	26-APR-23 22:54	ND	25-APR-23	ND	BA
JD64431-14 Collected: 18-APR-23 17:11 By: NW Received: 21-APR-23 By: JP WSP-MW-04B						
JD64431-14	EPA 335.4/LACHAT	26-APR-23 12:57	MM	25-APR-23	MH	CN
JD64431-14	SW846 8260D	26-APR-23 18:35	ED			V8260TCL42
JD64431-14	SW846 6010D	26-APR-23 22:59	ND	25-APR-23	ND	AG,BA,CD,PB

Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

Job No: JD64431

Emersub 15, LLC, Ithaca, NY

Project No: 31405608.001 02

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD64431-14 SW846 7470A		27-APR-23 12:05	LM	26-APR-23	LM	HG
JD64431-14 SW846 8260D		28-APR-23 12:10	KD			V8260TCL42
JD64431-14 SW846 6010D		28-APR-23 13:35	ND	25-APR-23	ND	AS,CR,SE
JD64431-15 Collected: 19-APR-23 06:00 By: NW Received: 21-APR-23 By: JP EB-041823						
JD64431-15 EPA 335.4/LACHAT		26-APR-23 13:00	MM	25-APR-23	MH	CN
JD64431-15 SW846 6010D		26-APR-23 23:04	ND	25-APR-23	ND	AG,AS,BA,CD,CR,PB,SE
JD64431-15 SW846 7470A		27-APR-23 12:07	LM	26-APR-23	LM	HG
JD64431-15 SW846 8260D		28-APR-23 01:52	NW			V8260TCL42
JD64431-16 Collected: 19-APR-23 08:30 By: NW Received: 21-APR-23 By: JP MW-40T						
JD64431-16 SW846 8260D		28-APR-23 23:10	ED			V8260TCL42
JD64431-16 SW846 8260D		02-MAY-23 12:23	KD			V8260TCL42
JD64431-16 SW846 8260D		02-MAY-23 15:18	KD			V8260TCL42
JD64431-17 Collected: 20-APR-23 16:00 By: NW Received: 21-APR-23 By: JP EB-042023						
JD64431-17 EPA 335.4/LACHAT		26-APR-23 13:01	MM	25-APR-23	MH	CN
JD64431-17 SW846 6010D		26-APR-23 23:09	ND	25-APR-23	ND	BA
JD64431-18 Collected: 21-APR-23 07:45 By: NW Received: 21-APR-23 By: JP MW-22B						
JD64431-18 SW846 8260D		02-MAY-23 17:31	KD			V8260TCL42
JD64431-19 Collected: 21-APR-23 08:00 By: NW Received: 21-APR-23 By: JP MW-32B						
JD64431-19 SW846 8260D		29-APR-23 00:02	ED			V8260TCL42
JD64431-20 Collected: 21-APR-23 07:00 By: NW Received: 21-APR-23 By: JP MW-042123						
JD64431-20 SW846 8260D		29-APR-23 06:06	NW			V8260TCL42

Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

Job No: JD64431

Emersub 15, LLC, Ithaca, NY

Project No: 31405608.001 02

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD64431-21 Collected: 21-APR-23 08:15 By: NW Received: 21-APR-23 By: JP MW-20B						
JD64431-21	SW846 8260D	29-APR-23 06:32	NW			V8260TCL42
JD64431-22 Collected: 21-APR-23 08:25 By: NW Received: 21-APR-23 By: JP MW-8-40						
JD64431-22	SW846 8260D	28-APR-23 14:19	NW			V8260TCL42
JD64431-23 Collected: 21-APR-23 08:35 By: NW Received: 21-APR-23 By: JP MW-18A						
JD64431-23	SW846 8260D	28-APR-23 13:53	NW			V8260TCL42
JD64431-24 Collected: 21-APR-23 08:35 By: NW Received: 21-APR-23 By: JP TRIP BLANK						
JD64431-24	SW846 8260D	01-MAY-23 14:01	NW			V8260TCL42
JD64431-25 Collected: 19-APR-23 08:40 By: NW Received: 21-APR-23 By: JP LBA-MW-23						
JD64431-25	SW846 8260D	28-APR-23 19:42	NW			V8260TCL42
JD64431-26 Collected: 19-APR-23 08:50 By: NW Received: 21-APR-23 By: JP MW-1B						
JD64431-26	SW846 8260D	28-APR-23 20:08	NW			V8260TCL42
JD64431-27 Collected: 19-APR-23 09:00 By: NW Received: 21-APR-23 By: JP MW-2B						
JD64431-27	SW846 8260D	28-APR-23 21:00	NW			V8260TCL42
JD64431-28 Collected: 19-APR-23 09:35 By: NW Received: 21-APR-23 By: JP LBA-MW-35						
JD64431-28	EPA 335.4/LACHAT	26-APR-23 13:02	MM	25-APR-23	MH	CN

Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

Job No: JD64431

Emersub 15, LLC, Ithaca, NY

Project No: 31405608.001 02

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD64431-28	SW846 6010D	26-APR-23 23:14	ND	25-APR-23	ND	BA
JD64431-29 Collected: 19-APR-23 10:13 By: NW Received: 21-APR-23 By: JP LBA-MW-18						
JD64431-29	SW846 6010D	26-APR-23 23:19	ND	25-APR-23	ND	BA
JD64431-30 Collected: 19-APR-23 14:23 By: NW Received: 21-APR-23 By: JP LBA-MW-34N						
JD64431-30	SW846 6010D	26-APR-23 23:24	ND	25-APR-23	ND	BA
JD64431-30	SW846 8260D	28-APR-23 20:34	NW			V8260TCL42
JD64431-30	SW846 8260D	01-MAY-23 14:40	NW			V8260TCL42
JD64431-31 Collected: 19-APR-23 13:47 By: NW Received: 21-APR-23 By: JP LBA-MW-39						
JD64431-31	EPA 335.4/LACHAT	26-APR-23 13:03	MM	25-APR-23	MH	CN
JD64431-31	SW846 6010D	26-APR-23 23:28	ND	25-APR-23	ND	BA
JD64431-32 Collected: 19-APR-23 16:17 By: NW Received: 21-APR-23 By: JP LBA-MW-26						
JD64431-32	SW846 6010D	26-APR-23 23:43	ND	25-APR-23	ND	BA
JD64431-33 Collected: 20-APR-23 08:15 By: NW Received: 21-APR-23 By: JP EB-041923						
JD64431-33	EPA 335.4/LACHAT	26-APR-23 13:04	MM	25-APR-23	MH	CN
JD64431-33	SW846 6010D	26-APR-23 23:48	ND	25-APR-23	ND	BA
JD64431-33	SW846 8260D	28-APR-23 18:51	NW			V8260TCL42
JD64431-34 Collected: 20-APR-23 08:25 By: NW Received: 21-APR-23 By: JP MW-7B						
JD64431-34	SW846 8260D	01-MAY-23 15:20	NW			V8260TCL42
JD64431-35 Collected: 20-APR-23 08:35 By: NW Received: 21-APR-23 By: JP MW-46-72C						

Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

Job No: JD64431

Emersub 15, LLC, Ithaca, NY

Project No: 31405608.001 02

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD64431-35	SW846 8260D	28-APR-23 21:26	NW			V8260TCL42
JD64431-35	SW846 8260D	01-MAY-23 14:14	NW			V8260TCL42
JD64431-36 Collected: 20-APR-23 08:00 By: NW Received: 21-APR-23 By: JP MW-042023						
JD64431-36	SW846 8260D	29-APR-23 03:22	ED			V8260TCL42
JD64431-36	SW846 8260D	02-MAY-23 13:29	NW			V8260TCL42
JD64431-37 Collected: 20-APR-23 08:45 By: NW Received: 21-APR-23 By: JP MW-46-43C						
JD64431-37	SW846 8260D	29-APR-23 03:48	ED			V8260TCL42
JD64431-37	SW846 8260D	02-MAY-23 13:54	NW			V8260TCL42
JD64431-38 Collected: 20-APR-23 08:55 By: NW Received: 21-APR-23 By: JP MW-5-10D						
JD64431-38	SW846 8260D	29-APR-23 04:15	ED			V8260TCL42
JD64431-39 Collected: 20-APR-23 09:05 By: NW Received: 21-APR-23 By: JP MW-5-40						
JD64431-39	SW846 8260D	29-APR-23 04:41	ED			V8260TCL42
JD64431-40 Collected: 20-APR-23 09:20 By: NW Received: 21-APR-23 By: JP MW-3B						
JD64431-40	SW846 8260D	29-APR-23 05:07	ED			V8260TCL42
JD64431-40	SW846 8260D	02-MAY-23 15:43	KD			V8260TCL42
JD64431-41 Collected: 20-APR-23 09:30 By: NW Received: 21-APR-23 By: JP MW-5B						
JD64431-41	SW846 8260D	29-APR-23 00:20	ED			V8260TCL42
JD64431-42 Collected: 20-APR-23 09:40 By: NW Received: 21-APR-23 By: JP MW-4B						
JD64431-42	SW846 8260D	29-APR-23 05:33	ED			V8260TCL42

Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

Job No: JD64431

Emersub 15, LLC, Ithaca, NY

Project No: 31405608.001 02

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD64431-43 Collected: 20-APR-23 10:20 By: NW Received: 21-APR-23 By: JP LBA-MW-08						
JD64431-43	EPA 335.4/LACHAT	26-APR-23 13:25	MM	25-APR-23	MH	CN
JD64431-44 Collected: 20-APR-23 10:55 By: NW Received: 21-APR-23 By: JP LBA-MW-43S						
JD64431-44	EPA 335.4/LACHAT	26-APR-23 13:06	MM	25-APR-23	MH	CN
JD64431-44	SW846 6010D	26-APR-23 23:53	ND	25-APR-23	ND	BA
JD64431-45 Collected: 20-APR-23 12:55 By: NW Received: 21-APR-23 By: JP EW-9R-72C						
JD64431-45	SW846 8260D	29-APR-23 05:59	ED			V8260TCL42
JD64431-46 Collected: 20-APR-23 13:10 By: NW Received: 21-APR-23 By: JP EW-11-43C						
JD64431-46	SW846 8260D	29-APR-23 06:25	ED			V8260TCL42
JD64431-46	SW846 8260D	02-MAY-23 14:19	NW			V8260TCL42
JD64431-47 Collected: 20-APR-23 13:20 By: NW Received: 21-APR-23 By: JP EW-12-45C						
JD64431-47	SW846 8260D	29-APR-23 06:51	ED			V8260TCL42
JD64431-47	SW846 8260D	02-MAY-23 15:10	NW			V8260TCL42
JD64431-48 Collected: 20-APR-23 13:45 By: NW Received: 21-APR-23 By: JP EW-01-62C						
JD64431-48	SW846 8260D	29-APR-23 01:12	ED			V8260TCL42
JD64431-48	SW846 8260D	29-APR-23 02:30	ED			V8260TCL42
JD64431-49 Collected: 20-APR-23 13:55 By: NW Received: 21-APR-23 By: JP EW-02-62C						
JD64431-49	SW846 8260D	29-APR-23 07:17	ED			V8260TCL42
JD64431-49	SW846 8260D	03-MAY-23 12:33	NW			V8260TCL42

Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

Job No: JD64431

Emersub 15, LLC, Ithaca, NY

Project No: 31405608.001 02

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD64431-50 Collected: 20-APR-23 14:05 By: NW Received: 21-APR-23 By: JP EW-03-60C						
JD64431-50	SW846 8260D	29-APR-23 07:43	ED			V8260TCL42
JD64431-50	SW846 8260D	02-MAY-23 12:48	KD			V8260TCL42
JD64431-51 Collected: 20-APR-23 14:15 By: NW Received: 21-APR-23 By: JP EW-04-25B						
JD64431-51	SW846 8260D	29-APR-23 08:09	ED			V8260TCL42
JD64431-51	SW846 8260D	02-MAY-23 16:58	KD			V8260TCL42
JD64431-52 Collected: 20-APR-23 14:25 By: NW Received: 21-APR-23 By: JP EW-05-25B						
JD64431-52	SW846 8260D	29-APR-23 08:35	ED			V8260TCL42
JD64431-52	SW846 8260D	02-MAY-23 16:19	NW			V8260TCL42
JD64431-53 Collected: 20-APR-23 14:39 By: NW Received: 21-APR-23 By: JP EW-06-60C						
JD64431-53	SW846 8260D	29-APR-23 09:01	ED			V8260TCL42
JD64431-53	SW846 8260D	02-MAY-23 16:32	NW			V8260TCL42
JD64431-54 Collected: 20-APR-23 14:45 By: NW Received: 21-APR-23 By: JP EW-07-25B						
JD64431-54	SW846 8260D	29-APR-23 00:46	ED			V8260TCL42
JD64431-54	SW846 8260D	02-MAY-23 16:45	NW			V8260TCL42
JD64431-55 Collected: 20-APR-23 14:55 By: NW Received: 21-APR-23 By: JP EW-08-62C						
JD64431-55	SW846 8260D	02-MAY-23 16:59	NW			V8260TCL42
JD64431-55	SW846 8260D	02-MAY-23 20:24	NW			V8260TCL42
JD64431-56 Collected: 20-APR-23 15:05 By: NW Received: 21-APR-23 By: JP EW-10-25B						

Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

Job No: JD64431

Emersub 15, LLC, Ithaca, NY
Project No: 31405608.001 02

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD64431-56	SW846 8260D	29-APR-23 09:53	ED			V8260TCL42
JD64431-57 Collected: 20-APR-23 14:02 By: NW Received: 21-APR-23 By: EN LBA-MW-43N						
JD64431-57	EPA 335.4/LACHAT	26-APR-23 13:07	MM	25-APR-23	MH	CN

SGS Internal Chain of Custody

Page 1 of 19

Job Number: JD64431
Account: WSPENYC WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Received: 04/21/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD64431-1.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-1.1	Secured Storage	Edward Durner	04/26/23 14:13	Retrieve from Storage
JD64431-1.1	Edward Durner	GCMS1E	04/26/23 14:13	Load on Instrument
JD64431-1.1	GCMS1E	Edward Durner	04/27/23 09:58	Unload from Instrument
JD64431-1.1	Edward Durner	Secured Storage	04/27/23 09:58	Return to Storage
JD64431-1.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-1.2	Secured Storage	Edward Durner	04/26/23 14:13	Retrieve from Storage
JD64431-1.2	Edward Durner	GCMS1E	04/26/23 14:13	Load on Instrument
JD64431-1.2	GCMS1E	Edward Durner	04/27/23 09:58	Unload from Instrument
JD64431-1.2	Edward Durner	Secured Storage	04/27/23 09:58	Return to Storage
JD64431-1.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-1.4	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-1.5	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-1.6	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-1.6	Secured Storage	Edward Durner	04/26/23 14:13	Retrieve from Storage
JD64431-1.6	Edward Durner	GCMS1E	04/26/23 14:13	Load on Instrument
JD64431-1.6	GCMS1E	Edward Durner	04/27/23 09:58	Unload from Instrument
JD64431-1.6	Edward Durner	Secured Storage	04/27/23 09:58	Return to Storage
JD64431-1.7	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-1.8	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-1.9	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-2.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-2.1	Secured Storage	Edward Durner	04/26/23 14:13	Retrieve from Storage
JD64431-2.1	Edward Durner	GCMS1E	04/26/23 14:13	Load on Instrument
JD64431-2.1	GCMS1E	Edward Durner	04/27/23 09:58	Unload from Instrument
JD64431-2.1	Edward Durner	Secured Storage	04/27/23 09:58	Return to Storage
JD64431-2.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-2.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-3.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-3.1	Secured Storage	Edward Durner	04/26/23 14:13	Retrieve from Storage
JD64431-3.1	Edward Durner	GCMS1E	04/26/23 14:13	Load on Instrument
JD64431-3.1	GCMS1E	Edward Durner	04/27/23 09:58	Unload from Instrument

SGS Internal Chain of Custody

Job Number: JD64431
Account: WSPENYC WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Received: 04/21/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD64431-3.1	Edward Durner	Secured Storage	04/27/23 09:58	Return to Storage
JD64431-3.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-3.2	Secured Storage	Kinjal Desai	04/27/23 15:29	Retrieve from Storage
JD64431-3.2	Kinjal Desai	GCMS1V	04/27/23 15:30	Load on Instrument
JD64431-3.2	GCMS1V	Louie Devletter	04/28/23 08:52	Unload from Instrument
JD64431-3.2	Louie Devletter	Secured Storage	04/28/23 08:52	Return to Storage
JD64431-3.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-4.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-4.1	Secured Storage	Edward Durner	04/26/23 14:13	Retrieve from Storage
JD64431-4.1	Edward Durner	GCMS1E	04/26/23 14:13	Load on Instrument
JD64431-4.1	GCMS1E	Edward Durner	04/27/23 09:58	Unload from Instrument
JD64431-4.1	Edward Durner	Secured Storage	04/27/23 09:58	Return to Storage
JD64431-4.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-4.2	Secured Storage	Kinjal Desai	04/28/23 15:30	Retrieve from Storage
JD64431-4.2	Kinjal Desai	GCMS1G	04/28/23 15:30	Load on Instrument
JD64431-4.2	GCMS1G	Kinjal Desai	05/01/23 11:40	Unload from Instrument
JD64431-4.2	Kinjal Desai	Secured Storage	05/01/23 11:40	Return to Storage
JD64431-4.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-5.1	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-5.1	Secured Storage	Todd Shoemaker	04/25/23 10:49	Retrieve from Storage
JD64431-5.1	Todd Shoemaker	Secured Staging Area	04/25/23 10:50	Return to Storage
JD64431-5.1	Secured Staging Area	John Azer	04/25/23 12:22	Retrieve from Storage
JD64431-5.1	John Azer	Secured Storage	04/25/23 14:04	Return to Storage
JD64431-5.1.1	John Azer	Metals Digestion	04/25/23 13:18	Digestate from JD64431-5.1
JD64431-5.1.1	Metals Digestion	John Azer	04/25/23 13:19	Digestate from JD64431-5.1
JD64431-5.1.1	John Azer	Metals Digestate Storage	04/25/23 13:19	Return to Storage
JD64431-5.2	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-5.2	Secured Storage	Todd Shoemaker	04/25/23 08:10	Retrieve from Storage
JD64431-5.2	Todd Shoemaker	Secured Staging Area	04/25/23 08:11	Return to Storage
JD64431-5.2	Secured Staging Area	Morgana Haub	04/25/23 11:23	Retrieve from Storage
JD64431-5.2	Morgana Haub	Secured Storage	04/25/23 18:52	Return to Storage
JD64431-6.1	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-6.1	Secured Storage	Todd Shoemaker	04/25/23 10:49	Retrieve from Storage
JD64431-6.1	Todd Shoemaker	Secured Staging Area	04/25/23 10:50	Return to Storage
JD64431-6.1	Secured Staging Area	John Azer	04/25/23 12:22	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD64431
Account: WSPENYC WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Received: 04/21/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD64431-6.1	John Azer	Secured Storage	04/25/23 14:04	Return to Storage
JD64431-6.1.1	John Azer	Metals Digestion	04/25/23 13:18	Digestate from JD64431-6.1
JD64431-6.1.1	Metals Digestion	John Azer	04/25/23 13:19	Digestate from JD64431-6.1
JD64431-6.1.1	John Azer	Metals Digestate Storage	04/25/23 13:19	Return to Storage
JD64431-6.2	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-6.2	Secured Storage	Todd Shoemaker	04/25/23 08:10	Retrieve from Storage
JD64431-6.2	Todd Shoemaker	Secured Staging Area	04/25/23 08:11	Return to Storage
JD64431-6.2	Secured Staging Area	Morgana Haub	04/25/23 11:23	Retrieve from Storage
JD64431-6.2	Morgana Haub	Secured Storage	04/25/23 18:52	Return to Storage
JD64431-7.1	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-7.1	Secured Storage	Todd Shoemaker	04/25/23 10:49	Retrieve from Storage
JD64431-7.1	Todd Shoemaker	Secured Staging Area	04/25/23 10:50	Return to Storage
JD64431-7.1	Secured Staging Area	John Azer	04/25/23 12:22	Retrieve from Storage
JD64431-7.1	John Azer	Secured Storage	04/25/23 14:04	Return to Storage
JD64431-7.1.1	John Azer	Metals Digestion	04/25/23 13:18	Digestate from JD64431-7.1
JD64431-7.1.1	Metals Digestion	John Azer	04/25/23 13:19	Digestate from JD64431-7.1
JD64431-7.1.1	John Azer	Metals Digestate Storage	04/25/23 13:19	Return to Storage
JD64431-7.2	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-7.2	Secured Storage	Todd Shoemaker	04/25/23 08:10	Retrieve from Storage
JD64431-7.2	Todd Shoemaker	Secured Staging Area	04/25/23 08:11	Return to Storage
JD64431-7.2	Secured Staging Area	Morgana Haub	04/25/23 11:23	Retrieve from Storage
JD64431-7.2	Morgana Haub	Secured Storage	04/25/23 18:52	Return to Storage
JD64431-7.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-7.3	Secured Storage	Edward Durner	04/26/23 14:13	Retrieve from Storage
JD64431-7.3	Edward Durner	GCMS1E	04/26/23 14:13	Load on Instrument
JD64431-7.3	GCMS1E	Edward Durner	04/27/23 09:58	Unload from Instrument
JD64431-7.3	Edward Durner	Secured Storage	04/27/23 09:58	Return to Storage
JD64431-7.4	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-8.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-8.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-8.2	Secured Storage	Edward Durner	04/26/23 14:13	Retrieve from Storage
JD64431-8.2	Edward Durner	GCMS1E	04/26/23 14:13	Load on Instrument
JD64431-8.2	GCMS1E	Edward Durner	04/27/23 09:58	Unload from Instrument
JD64431-8.2	Edward Durner	Secured Storage	04/27/23 09:58	Return to Storage

SGS Internal Chain of Custody

Page 4 of 19

Job Number: JD64431
Account: WSPENYC WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Received: 04/21/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD64431-8.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-9.1	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-9.1	Secured Storage	Todd Shoemaker	04/25/23 10:49	Retrieve from Storage
JD64431-9.1	Todd Shoemaker	Secured Staging Area	04/25/23 10:50	Return to Storage
JD64431-9.1	Secured Staging Area	John Azer	04/25/23 12:22	Retrieve from Storage
JD64431-9.1	John Azer	Secured Storage	04/25/23 14:04	Return to Storage
JD64431-9.1.1	John Azer	Metals Digestion	04/25/23 13:18	Digestate from JD64431-9.1
JD64431-9.1.1	Metals Digestion	John Azer	04/25/23 13:19	Digestate from JD64431-9.1
JD64431-9.1.1	John Azer	Metals Digestate Storage	04/25/23 13:19	Return to Storage
JD64431-9.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-9.2	Secured Storage	Edward Durner	04/26/23 14:13	Retrieve from Storage
JD64431-9.2	Edward Durner	GCMS1E	04/26/23 14:13	Load on Instrument
JD64431-9.2	GCMS1E	Edward Durner	04/27/23 09:58	Unload from Instrument
JD64431-9.2	Edward Durner	Secured Storage	04/27/23 09:58	Return to Storage
JD64431-9.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-9.4	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-10.1	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-10.1	Secured Storage	Todd Shoemaker	04/25/23 10:49	Retrieve from Storage
JD64431-10.1	Todd Shoemaker	Secured Staging Area	04/25/23 10:50	Return to Storage
JD64431-10.1	Secured Staging Area	John Azer	04/25/23 12:22	Retrieve from Storage
JD64431-10.1	John Azer	Secured Storage	04/25/23 14:04	Return to Storage
JD64431-10.1.1	John Azer	Metals Digestion	04/25/23 13:18	Digestate from JD64431-10.1
JD64431-10.1.1	Metals Digestion	John Azer	04/25/23 13:19	Digestate from JD64431-10.1
JD64431-10.1.1	John Azer	Metals Digestate Storage	04/25/23 13:19	Return to Storage
JD64431-10.2	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-10.2	Secured Storage	Todd Shoemaker	04/25/23 08:10	Retrieve from Storage
JD64431-10.2	Todd Shoemaker	Secured Staging Area	04/25/23 08:11	Return to Storage
JD64431-10.2	Secured Staging Area	Morgana Haub	04/25/23 11:23	Retrieve from Storage
JD64431-10.2	Morgana Haub	Secured Storage	04/25/23 18:52	Return to Storage
JD64431-11.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-11.1	Secured Storage	Edward Durner	04/26/23 14:13	Retrieve from Storage
JD64431-11.1	Edward Durner	GCMS1E	04/26/23 14:13	Load on Instrument
JD64431-11.1	GCMS1E	Edward Durner	04/27/23 09:58	Unload from Instrument
JD64431-11.1	Edward Durner	Secured Storage	04/27/23 09:58	Return to Storage

SGS Internal Chain of Custody

Job Number: JD64431
Account: WSPENYC WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Received: 04/21/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD64431-11.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-11.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-12.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-12.1	Secured Storage	Edward Durner	04/26/23 14:13	Retrieve from Storage
JD64431-12.1	Edward Durner	GCMS1E	04/26/23 14:13	Load on Instrument
JD64431-12.1	GCMS1E	Edward Durner	04/27/23 09:58	Unload from Instrument
JD64431-12.1	Edward Durner	Secured Storage	04/27/23 09:58	Return to Storage
JD64431-12.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-12.2	Secured Storage	Kinjal Desai	04/28/23 15:30	Retrieve from Storage
JD64431-12.2	Kinjal Desai	GCMS1G	04/28/23 15:30	Load on Instrument
JD64431-12.2	GCMS1G	Kinjal Desai	05/01/23 11:40	Unload from Instrument
JD64431-12.2	Kinjal Desai	Secured Storage	05/01/23 11:40	Return to Storage
JD64431-12.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-13.1	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-13.1	Secured Storage	Todd Shoemaker	04/25/23 10:49	Retrieve from Storage
JD64431-13.1	Todd Shoemaker	Secured Staging Area	04/25/23 10:50	Return to Storage
JD64431-13.1	Secured Staging Area	John Azer	04/25/23 12:22	Retrieve from Storage
JD64431-13.1	John Azer	Secured Storage	04/25/23 14:04	Return to Storage
JD64431-13.1.1	John Azer	Metals Digestion	04/25/23 13:18	Digestate from JD64431-13.1
JD64431-13.1.1	Metals Digestion	John Azer	04/25/23 13:19	Digestate from JD64431-13.1
JD64431-13.1.1	John Azer	Metals Digestate Storage	04/25/23 13:19	Return to Storage
JD64431-14.1	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-14.1	Secured Storage	Todd Shoemaker	04/25/23 10:49	Retrieve from Storage
JD64431-14.1	Todd Shoemaker	Secured Staging Area	04/25/23 10:50	Return to Storage
JD64431-14.1	Secured Staging Area	John Azer	04/25/23 12:22	Retrieve from Storage
JD64431-14.1	John Azer	Secured Storage	04/25/23 14:04	Return to Storage
JD64431-14.1.1	John Azer	Metals Digestion	04/25/23 13:18	Digestate from JD64431-14.1
JD64431-14.1.1	Metals Digestion	John Azer	04/25/23 13:19	Digestate from JD64431-14.1
JD64431-14.1.1	John Azer	Metals Digestate Storage	04/25/23 13:19	Return to Storage
JD64431-14.2	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-14.2	Secured Storage	Dave Hunkele	04/26/23 06:08	Retrieve from Storage
JD64431-14.2	Dave Hunkele	Secured Staging Area	04/26/23 06:09	Return to Storage
JD64431-14.2	Secured Staging Area	Lauren Matthews	04/26/23 10:28	Retrieve from Storage
JD64431-14.2	Lauren Matthews	Secured Storage	04/26/23 12:24	Return to Storage

SGS Internal Chain of Custody

Page 6 of 19

Job Number: JD64431
Account: WSPENYC WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Received: 04/21/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD64431-14.3	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-14.3	Secured Storage	Todd Shoemaker	04/25/23 08:10	Retrieve from Storage
JD64431-14.3	Todd Shoemaker	Secured Staging Area	04/25/23 08:11	Return to Storage
JD64431-14.3	Secured Staging Area	Morgana Haub	04/25/23 11:23	Retrieve from Storage
JD64431-14.3	Morgana Haub	Secured Storage	04/25/23 18:52	Return to Storage
JD64431-14.4	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-14.4	Secured Storage	Edward Durner	04/26/23 14:13	Retrieve from Storage
JD64431-14.4	Edward Durner	GCMS1E	04/26/23 14:13	Load on Instrument
JD64431-14.4	GCMS1E	Edward Durner	04/27/23 09:58	Unload from Instrument
JD64431-14.4	Edward Durner	Secured Storage	04/27/23 09:58	Return to Storage
JD64431-14.5	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-14.5	Secured Storage	Kinjal Desai	04/28/23 15:30	Retrieve from Storage
JD64431-14.5	Kinjal Desai	GCMS1G	04/28/23 15:30	Load on Instrument
JD64431-14.5	GCMS1G	Kinjal Desai	05/01/23 11:40	Unload from Instrument
JD64431-14.5	Kinjal Desai	Secured Storage	05/01/23 11:40	Return to Storage
JD64431-14.6	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-15.1	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-15.1	Secured Storage	Todd Shoemaker	04/25/23 10:49	Retrieve from Storage
JD64431-15.1	Todd Shoemaker	Secured Staging Area	04/25/23 10:50	Return to Storage
JD64431-15.1	Secured Staging Area	John Azer	04/25/23 12:22	Retrieve from Storage
JD64431-15.1	John Azer	Secured Storage	04/25/23 14:04	Return to Storage
JD64431-15.1.1	John Azer	Metals Digestion	04/25/23 13:18	Digestate from JD64431-15.1
JD64431-15.1.1	Metals Digestion	John Azer	04/25/23 13:19	Digestate from JD64431-15.1
JD64431-15.1.1	John Azer	Metals Digestate Storage	04/25/23 13:19	Return to Storage
JD64431-15.2	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-15.2	Secured Storage	Dave Hunkele	04/26/23 06:08	Retrieve from Storage
JD64431-15.2	Dave Hunkele	Secured Staging Area	04/26/23 06:09	Return to Storage
JD64431-15.2	Secured Staging Area	Lauren Matthews	04/26/23 10:28	Retrieve from Storage
JD64431-15.2	Lauren Matthews	Secured Storage	04/26/23 12:24	Return to Storage
JD64431-15.3	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-15.3	Secured Storage	Todd Shoemaker	04/25/23 08:10	Retrieve from Storage
JD64431-15.3	Todd Shoemaker	Secured Staging Area	04/25/23 08:11	Return to Storage
JD64431-15.3	Secured Staging Area	Morgana Haub	04/25/23 11:23	Retrieve from Storage
JD64431-15.3	Morgana Haub	Secured Storage	04/25/23 18:52	Return to Storage
JD64431-15.4	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-15.4	Nicholas Weigand	GCMS1S	04/27/23 17:47	Load on Instrument

SGS Internal Chain of Custody

Job Number: JD64431
Account: WSPENYC WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Received: 04/21/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
Analyst chain of custody update error.				
JD64431-15.4	GCMS1S	Edward Durner	05/01/23 12:00	Unload from Instrument
JD64431-15.4	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-15.5	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-15.6	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-16.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-16.1	Nicholas Weigand	GCMS1S	04/27/23 17:47	Load on Instrument
Analyst chain of custody update error.				
JD64431-16.1	GCMS1S	Edward Durner	05/01/23 12:00	Unload from Instrument
JD64431-16.1	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-16.1	Secured Storage	Kinjal Desai	05/02/23 18:46	Retrieve from Storage
JD64431-16.1	Kinjal Desai	GCMS1V	05/02/23 18:46	Load on Instrument
JD64431-16.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-16.2	Secured Storage	Edward Durner	04/28/23 15:51	Retrieve from Storage
JD64431-16.2	Edward Durner	GCMS1S	04/28/23 15:51	Load on Instrument
JD64431-16.2	GCMS1S	Edward Durner	05/01/23 12:00	Unload from Instrument
JD64431-16.2	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-16.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-17.1	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-17.1	Secured Storage	Todd Shoemaker	04/25/23 10:49	Retrieve from Storage
JD64431-17.1	Todd Shoemaker	Secured Staging Area	04/25/23 10:50	Return to Storage
JD64431-17.1	Secured Staging Area	John Azer	04/25/23 12:22	Retrieve from Storage
JD64431-17.1	John Azer	Secured Storage	04/25/23 14:04	Return to Storage
JD64431-17.1.1	John Azer	Metals Digestion	04/25/23 13:18	Digestate from JD64431-17.1
JD64431-17.1.1	Metals Digestion	John Azer	04/25/23 13:19	Digestate from JD64431-17.1
JD64431-17.1.1	John Azer	Metals Digestate Storage	04/25/23 13:19	Return to Storage
JD64431-17.2	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-17.2	Secured Storage	Todd Shoemaker	04/25/23 08:10	Retrieve from Storage
JD64431-17.2	Todd Shoemaker	Secured Staging Area	04/25/23 08:11	Return to Storage
JD64431-17.2	Secured Staging Area	Morgana Haub	04/25/23 11:23	Retrieve from Storage
JD64431-17.2	Morgana Haub	Secured Storage	04/25/23 18:52	Return to Storage
JD64431-18.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-18.1	Nicholas Weigand	GCMS1S	04/27/23 17:47	Load on Instrument
Analyst chain of custody update error.				
JD64431-18.1	GCMS1S	Edward Durner	05/01/23 12:00	Unload from Instrument

SGS Internal Chain of Custody

Job Number: JD64431
Account: WSPENYC WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Received: 04/21/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD64431-18.1	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-18.1	Secured Storage	Kinjal Desai	05/02/23 18:46	Retrieve from Storage
JD64431-18.1	Kinjal Desai	GCMS1V	05/02/23 18:46	Load on Instrument
JD64431-18.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-18.2	Secured Storage	Edward Durner	04/28/23 15:51	Retrieve from Storage
JD64431-18.2	Edward Durner	GCMS1S	04/28/23 15:51	Load on Instrument
JD64431-18.2	GCMS1S	Edward Durner	05/01/23 12:00	Unload from Instrument
JD64431-18.2	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-18.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-19.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-19.1	Nicholas Weigand	GCMS1S	04/27/23 17:47	Load on Instrument
JD64431-19.1	GCMS1S	Edward Durner	05/01/23 12:00	Unload from Instrument
JD64431-19.1	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-19.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-19.2	Secured Storage	Edward Durner	04/28/23 15:51	Retrieve from Storage
JD64431-19.2	Edward Durner	GCMS1S	04/28/23 15:51	Load on Instrument
JD64431-19.2	GCMS1S	Edward Durner	05/01/23 12:00	Unload from Instrument
JD64431-19.2	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-19.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-20.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-20.1	Nicholas Weigand	GCMS1E	04/28/23 18:28	Load on Instrument
JD64431-20.1	GCMS1E	Nicholas Weigand	05/01/23 16:51	Unload from Instrument
JD64431-20.1	Nicholas Weigand	Secured Storage	05/01/23 16:51	Return to Storage
JD64431-20.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-20.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-21.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-21.1	Nicholas Weigand	GCMS1E	04/28/23 18:28	Load on Instrument
JD64431-21.1	GCMS1E	Nicholas Weigand	05/01/23 16:51	Unload from Instrument
JD64431-21.1	Nicholas Weigand	Secured Storage	05/01/23 16:51	Return to Storage
JD64431-21.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage

SGS Internal Chain of Custody

Page 9 of 19

Job Number: JD64431
Account: WSPENYC WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Received: 04/21/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD64431-21.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-22.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-22.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-22.2	Nicholas Weigand	GCMS1E	04/28/23 18:28	Load on Instrument
Analyst chain of custody update error.				
JD64431-22.2	GCMS1E	Nicholas Weigand	05/01/23 16:51	Unload from Instrument
JD64431-22.2	Nicholas Weigand	Secured Storage	05/01/23 16:51	Return to Storage
JD64431-22.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-23.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-23.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-23.2	Nicholas Weigand	GCMS1E	04/28/23 18:28	Load on Instrument
Analyst chain of custody update error.				
JD64431-23.2	GCMS1E	Nicholas Weigand	05/01/23 16:51	Unload from Instrument
JD64431-23.2	Nicholas Weigand	Secured Storage	05/01/23 16:51	Return to Storage
JD64431-23.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-23.4	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-23.5	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-23.6	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-23.7	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-23.7	Nicholas Weigand	GCMS1E	04/28/23 18:28	Load on Instrument
Analyst chain of custody update error.				
JD64431-23.7	GCMS1E	Nicholas Weigand	05/01/23 16:51	Unload from Instrument
JD64431-23.7	Nicholas Weigand	Secured Storage	05/01/23 16:51	Return to Storage
JD64431-23.8	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-23.8	Nicholas Weigand	GCMS1E	04/28/23 18:28	Load on Instrument
Analyst chain of custody update error.				
JD64431-23.8	GCMS1E	Nicholas Weigand	05/01/23 16:51	Unload from Instrument
JD64431-23.8	Nicholas Weigand	Secured Storage	05/01/23 16:51	Return to Storage
JD64431-23.9	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-24.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage

SGS Internal Chain of Custody

Job Number: JD64431
Account: WSPENYC WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Received: 04/21/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD64431-24.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-24.2	Nicholas Weigand	GCMS1E	05/01/23 16:54	Load on Instrument
JD64431-24.2	Analyst chain of custody update error.			
JD64431-24.2	GCMS1E	Nicholas Weigand	05/02/23 17:42	Unload from Instrument
JD64431-24.2	Nicholas Weigand	Secured Storage	05/02/23 17:42	Return to Storage
JD64431-24.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-24.4	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-25.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-25.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-25.2	Nicholas Weigand	GCMS1E	04/28/23 18:28	Load on Instrument
JD64431-25.2	Analyst chain of custody update error.			
JD64431-25.2	GCMS1E	Nicholas Weigand	05/01/23 16:51	Unload from Instrument
JD64431-25.2	Nicholas Weigand	Secured Storage	05/01/23 16:51	Return to Storage
JD64431-25.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-26.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-26.1	Nicholas Weigand	GCMS1E	04/28/23 18:28	Load on Instrument
JD64431-26.1	Analyst chain of custody update error.			
JD64431-26.1	GCMS1E	Nicholas Weigand	05/01/23 16:51	Unload from Instrument
JD64431-26.1	Nicholas Weigand	Secured Storage	05/01/23 16:51	Return to Storage
JD64431-26.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-26.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-27.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-27.1	Nicholas Weigand	GCMS1E	04/28/23 18:28	Load on Instrument
JD64431-27.1	Analyst chain of custody update error.			
JD64431-27.1	GCMS1E	Nicholas Weigand	05/01/23 16:51	Unload from Instrument
JD64431-27.1	Nicholas Weigand	Secured Storage	05/01/23 16:51	Return to Storage
JD64431-27.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-27.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-28.1	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-28.1	Secured Storage	Todd Shoemaker	04/25/23 10:49	Retrieve from Storage
JD64431-28.1	Todd Shoemaker	Secured Staging Area	04/25/23 10:50	Return to Storage
JD64431-28.1	Secured Staging Area	John Azer	04/25/23 12:22	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD64431
Account: WSPENYC WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Received: 04/21/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD64431-28.1	John Azer	Secured Storage	04/25/23 14:04	Return to Storage
JD64431-28.1.1	John Azer	Metals Digestion	04/25/23 13:18	Digestate from JD64431-28.1
JD64431-28.1.1	Metals Digestion	John Azer	04/25/23 13:19	Digestate from JD64431-28.1
JD64431-28.1.1	John Azer	Metals Digestate Storage	04/25/23 13:19	Return to Storage
JD64431-28.2	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-28.2	Secured Storage	Todd Shoemaker	04/25/23 08:10	Retrieve from Storage
JD64431-28.2	Todd Shoemaker	Secured Staging Area	04/25/23 08:11	Return to Storage
JD64431-28.2	Secured Staging Area	Morgana Haub	04/25/23 11:23	Retrieve from Storage
JD64431-28.2	Morgana Haub	Secured Storage	04/25/23 18:52	Return to Storage
JD64431-29.1	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-29.1	Secured Storage	Todd Shoemaker	04/25/23 10:49	Retrieve from Storage
JD64431-29.1	Todd Shoemaker	Secured Staging Area	04/25/23 10:50	Return to Storage
JD64431-29.1	Secured Staging Area	John Azer	04/25/23 12:22	Retrieve from Storage
JD64431-29.1	John Azer	Secured Storage	04/25/23 14:04	Return to Storage
JD64431-29.1.1	John Azer	Metals Digestion	04/25/23 13:18	Digestate from JD64431-29.1
JD64431-29.1.1	Metals Digestion	John Azer	04/25/23 13:19	Digestate from JD64431-29.1
JD64431-29.1.1	John Azer	Metals Digestate Storage	04/25/23 13:19	Return to Storage
JD64431-30.1	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-30.1	Secured Storage	Todd Shoemaker	04/25/23 10:49	Retrieve from Storage
JD64431-30.1	Todd Shoemaker	Secured Staging Area	04/25/23 10:50	Return to Storage
JD64431-30.1	Secured Staging Area	John Azer	04/25/23 12:22	Retrieve from Storage
JD64431-30.1	John Azer	Secured Storage	04/25/23 14:04	Return to Storage
JD64431-30.1.1	John Azer	Metals Digestion	04/25/23 13:18	Digestate from JD64431-30.1
JD64431-30.1.1	Metals Digestion	John Azer	04/25/23 13:19	Digestate from JD64431-30.1
JD64431-30.1.1	John Azer	Metals Digestate Storage	04/25/23 13:19	Return to Storage
JD64431-30.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-30.2	Nicholas Weigand	GCMS1E	04/28/23 18:28	Load on Instrument
Analyst chain of custody update error.				
JD64431-30.2	GCMS1E	Nicholas Weigand	05/01/23 16:51	Unload from Instrument
JD64431-30.2	Nicholas Weigand	Secured Storage	05/01/23 16:51	Return to Storage
JD64431-30.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-30.3	Nicholas Weigand	GCMS1E	05/01/23 16:54	Load on Instrument
Analyst chain of custody update error.				
JD64431-30.3	GCMS1E	Nicholas Weigand	05/02/23 17:42	Unload from Instrument
JD64431-30.3	Nicholas Weigand	Secured Storage	05/02/23 17:42	Return to Storage

SGS Internal Chain of Custody

Job Number: JD64431
Account: WSPENYC WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Received: 04/21/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD64431-30.4	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-31.1	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-31.1	Secured Storage	Todd Shoemaker	04/25/23 10:49	Retrieve from Storage
JD64431-31.1	Todd Shoemaker	Secured Staging Area	04/25/23 10:50	Return to Storage
JD64431-31.1	Secured Staging Area	John Azer	04/25/23 12:22	Retrieve from Storage
JD64431-31.1	John Azer	Secured Storage	04/25/23 14:04	Return to Storage
JD64431-31.1.1	John Azer	Metals Digestion	04/25/23 13:18	Digestate from JD64431-31.1
JD64431-31.1.1	Metals Digestion	John Azer	04/25/23 13:19	Digestate from JD64431-31.1
JD64431-31.1.1	John Azer	Metals Digestate Storage	04/25/23 13:19	Return to Storage
JD64431-31.2	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-31.2	Secured Storage	Todd Shoemaker	04/25/23 08:10	Retrieve from Storage
JD64431-31.2	Todd Shoemaker	Secured Staging Area	04/25/23 08:11	Return to Storage
JD64431-31.2	Secured Staging Area	Morgana Haub	04/25/23 11:23	Retrieve from Storage
JD64431-31.2	Morgana Haub	Secured Storage	04/25/23 18:52	Return to Storage
JD64431-32.1	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-32.1	Secured Storage	Todd Shoemaker	04/25/23 10:49	Retrieve from Storage
JD64431-32.1	Todd Shoemaker	Secured Staging Area	04/25/23 10:50	Return to Storage
JD64431-32.1	Secured Staging Area	John Azer	04/25/23 12:22	Retrieve from Storage
JD64431-32.1	John Azer	Secured Storage	04/25/23 14:04	Return to Storage
JD64431-32.1.1	John Azer	Metals Digestion	04/25/23 13:18	Digestate from JD64431-32.1
JD64431-32.1.1	Metals Digestion	John Azer	04/25/23 13:19	Digestate from JD64431-32.1
JD64431-32.1.1	John Azer	Metals Digestate Storage	04/25/23 13:19	Return to Storage
JD64431-33.1	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-33.1	Secured Storage	Todd Shoemaker	04/25/23 10:49	Retrieve from Storage
JD64431-33.1	Todd Shoemaker	Secured Staging Area	04/25/23 10:50	Return to Storage
JD64431-33.1	Secured Staging Area	John Azer	04/25/23 12:22	Retrieve from Storage
JD64431-33.1	John Azer	Secured Storage	04/25/23 14:04	Return to Storage
JD64431-33.1.1	John Azer	Metals Digestion	04/25/23 13:18	Digestate from JD64431-33.1
JD64431-33.1.1	Metals Digestion	John Azer	04/25/23 13:19	Digestate from JD64431-33.1
JD64431-33.1.1	John Azer	Metals Digestate Storage	04/25/23 13:19	Return to Storage
JD64431-33.2	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-33.2	Secured Storage	Todd Shoemaker	04/25/23 08:10	Retrieve from Storage
JD64431-33.2	Todd Shoemaker	Secured Staging Area	04/25/23 08:11	Return to Storage
JD64431-33.2	Secured Staging Area	Morgana Haub	04/25/23 11:23	Retrieve from Storage
JD64431-33.2	Morgana Haub	Secured Storage	04/25/23 18:52	Return to Storage

SGS Internal Chain of Custody

Job Number: JD64431
Account: WSPENYC WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Received: 04/21/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD64431-33.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-33.3	Nicholas Weigand	GCMS1E	04/28/23 18:28	Load on Instrument
Analyst chain of custody update error.				
JD64431-33.3	GCMS1E	Nicholas Weigand	05/01/23 16:51	Unload from Instrument
JD64431-33.3	Nicholas Weigand	Secured Storage	05/01/23 16:51	Return to Storage
JD64431-33.4	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-33.5	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-34.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-34.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-34.2	Nicholas Weigand	GCMS1E	05/01/23 16:54	Load on Instrument
Analyst chain of custody update error.				
JD64431-34.2	GCMS1E	Nicholas Weigand	05/02/23 17:42	Unload from Instrument
JD64431-34.2	Nicholas Weigand	Secured Storage	05/02/23 17:42	Return to Storage
JD64431-34.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-35.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-35.1	Nicholas Weigand	GCMS1E	05/01/23 16:54	Load on Instrument
Analyst chain of custody update error.				
JD64431-35.1	GCMS1E	Nicholas Weigand	05/02/23 17:42	Unload from Instrument
JD64431-35.1	Nicholas Weigand	Secured Storage	05/02/23 17:42	Return to Storage
JD64431-35.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-35.2	Nicholas Weigand	GCMS1E	04/28/23 18:28	Load on Instrument
Analyst chain of custody update error.				
JD64431-35.2	GCMS1E	Nicholas Weigand	05/01/23 16:51	Unload from Instrument
JD64431-35.2	Nicholas Weigand	Secured Storage	05/01/23 16:51	Return to Storage
JD64431-35.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-36.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-36.1	Nicholas Weigand	GCMS1K	05/02/23 16:36	Load on Instrument
Analyst chain of custody update error.				
JD64431-36.1	GCMS1K	Nicholas Weigand	05/02/23 17:42	Unload from Instrument
JD64431-36.1	Nicholas Weigand	Secured Storage	05/02/23 17:42	Return to Storage
JD64431-36.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-36.2	Secured Storage	Bridget Kelly	04/28/23 16:57	Retrieve from Storage
JD64431-36.2	Bridget Kelly	GCMS2T	04/28/23 16:57	Load on Instrument
JD64431-36.2	GCMS2T	Edward Durner	05/01/23 12:00	Unload from Instrument

SGS Internal Chain of Custody

Job Number: JD64431
Account: WSPENYC WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Received: 04/21/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD64431-36.2	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-36.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-37.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-37.1	Secured Storage	Bridget Kelly	04/28/23 16:57	Retrieve from Storage
JD64431-37.1	Bridget Kelly	GCMS2T	04/28/23 16:57	Load on Instrument
JD64431-37.1	GCMS2T	Edward Durner	05/01/23 12:00	Unload from Instrument
JD64431-37.1	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-37.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-37.2	Nicholas Weigand	GCMS1K	05/02/23 16:36	Load on Instrument
Analyst chain of custody update error.				
JD64431-37.2	GCMS1K	Nicholas Weigand	05/02/23 17:42	Unload from Instrument
JD64431-37.2	Nicholas Weigand	Secured Storage	05/02/23 17:42	Return to Storage
JD64431-37.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-38.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-38.1	Secured Storage	Bridget Kelly	04/28/23 16:57	Retrieve from Storage
JD64431-38.1	Bridget Kelly	GCMS2T	04/28/23 16:57	Load on Instrument
JD64431-38.1	GCMS2T	Edward Durner	05/01/23 12:00	Unload from Instrument
JD64431-38.1	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-38.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-38.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-39.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-39.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-39.2	Secured Storage	Bridget Kelly	04/28/23 16:57	Retrieve from Storage
JD64431-39.2	Bridget Kelly	GCMS2T	04/28/23 16:57	Load on Instrument
JD64431-39.2	GCMS2T	Edward Durner	05/01/23 12:00	Unload from Instrument
JD64431-39.2	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-39.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-40.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-40.1	Secured Storage	Kinjal Desai	05/02/23 18:46	Retrieve from Storage
JD64431-40.1	Kinjal Desai	GCMS1V	05/02/23 18:46	Load on Instrument
JD64431-40.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-40.2	Secured Storage	Bridget Kelly	04/28/23 16:57	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD64431
Account: WSPENYC WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Received: 04/21/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD64431-40.2	Bridget Kelly	GCMS2T	04/28/23 16:57	Load on Instrument
JD64431-40.2	GCMS2T	Edward Durner	05/01/23 12:00	Unload from Instrument
JD64431-40.2	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-40.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-41.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-41.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-41.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-41.4	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-41.5	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-41.6	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-41.6	Secured Storage	Bridget Kelly	04/28/23 16:57	Retrieve from Storage
JD64431-41.6	Bridget Kelly	GCMS2T	04/28/23 16:57	Load on Instrument
JD64431-41.6	GCMS2T	Edward Durner	05/01/23 12:00	Unload from Instrument
JD64431-41.6	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-41.7	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-41.8	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-41.9	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-42.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-42.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-42.2	Secured Storage	Bridget Kelly	04/28/23 16:57	Retrieve from Storage
JD64431-42.2	Bridget Kelly	GCMS2T	04/28/23 16:57	Load on Instrument
JD64431-42.2	GCMS2T	Edward Durner	05/01/23 12:00	Unload from Instrument
JD64431-42.2	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-42.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-43.1	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-43.1	Secured Storage	Todd Shoemaker	04/25/23 08:10	Retrieve from Storage
JD64431-43.1	Todd Shoemaker	Secured Staging Area	04/25/23 08:11	Return to Storage
JD64431-43.1	Secured Staging Area	Morgana Haub	04/25/23 11:23	Retrieve from Storage
JD64431-43.1	Morgana Haub	Secured Storage	04/25/23 18:52	Return to Storage

SGS Internal Chain of Custody

Job Number: JD64431
Account: WSPENYC WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Received: 04/21/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD64431-44.1	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-44.1	Secured Storage	Todd Shoemaker	04/25/23 10:49	Retrieve from Storage
JD64431-44.1	Todd Shoemaker	Secured Staging Area	04/25/23 10:50	Return to Storage
JD64431-44.1	Secured Staging Area	John Azer	04/25/23 12:22	Retrieve from Storage
JD64431-44.1	John Azer	Secured Storage	04/25/23 14:04	Return to Storage
JD64431-44.1.1	John Azer	Metals Digestion	04/25/23 13:18	Digestate from JD64431-44.1
JD64431-44.1.1	Metals Digestion	John Azer	04/25/23 13:19	Digestate from JD64431-44.1
JD64431-44.1.1	John Azer	Metals Digestate Storage	04/25/23 13:19	Return to Storage
JD64431-44.2	Joshua Reitan	Secured Storage	04/24/23 23:55	Return to Storage
JD64431-44.2	Secured Storage	Todd Shoemaker	04/25/23 08:10	Retrieve from Storage
JD64431-44.2	Todd Shoemaker	Secured Staging Area	04/25/23 08:11	Return to Storage
JD64431-44.2	Secured Staging Area	Morgana Haub	04/25/23 11:23	Retrieve from Storage
JD64431-44.2	Morgana Haub	Secured Storage	04/25/23 18:52	Return to Storage
JD64431-45.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-45.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-45.2	Secured Storage	Bridget Kelly	04/28/23 16:57	Retrieve from Storage
JD64431-45.2	Bridget Kelly	GCMS2T	04/28/23 16:57	Load on Instrument
JD64431-45.2	GCMS2T	Edward Durner	05/01/23 12:00	Unload from Instrument
JD64431-45.2	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-46.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-46.1	Nicholas Weigand	GCMS1K	05/02/23 16:36	Load on Instrument
Analyst chain of custody update error.				
JD64431-46.1	GCMS1K	Nicholas Weigand	05/02/23 17:42	Unload from Instrument
JD64431-46.1	Nicholas Weigand	Secured Storage	05/02/23 17:42	Return to Storage
JD64431-46.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-46.2	Secured Storage	Bridget Kelly	04/28/23 16:57	Retrieve from Storage
JD64431-46.2	Bridget Kelly	GCMS2T	04/28/23 16:57	Load on Instrument
JD64431-46.2	GCMS2T	Edward Durner	05/01/23 12:00	Unload from Instrument
JD64431-46.2	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-46.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-47.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-47.1	Nicholas Weigand	GCMS1K	05/02/23 16:36	Load on Instrument
Analyst chain of custody update error.				
JD64431-47.1	GCMS1K	Nicholas Weigand	05/02/23 17:42	Unload from Instrument
JD64431-47.1	Nicholas Weigand	Secured Storage	05/02/23 17:42	Return to Storage

SGS Internal Chain of Custody

Job Number: JD64431
Account: WSPENYC WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Received: 04/21/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD64431-47.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-47.2	Secured Storage	Bridget Kelly	04/28/23 16:57	Retrieve from Storage
JD64431-47.2	Bridget Kelly	GCMS2T	04/28/23 16:57	Load on Instrument
JD64431-47.2	GCMS2T	Edward Durner	05/01/23 12:00	Unload from Instrument
JD64431-47.2	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-47.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-48.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-48.1	Secured Storage	Bridget Kelly	04/28/23 16:57	Retrieve from Storage
JD64431-48.1	Bridget Kelly	GCMS2T	04/28/23 16:57	Load on Instrument
JD64431-48.1	GCMS2T	Edward Durner	05/01/23 12:00	Unload from Instrument
JD64431-48.1	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-48.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-48.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-49.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-49.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-49.2	Secured Storage	Bridget Kelly	04/28/23 16:57	Retrieve from Storage
JD64431-49.2	Bridget Kelly	GCMS2T	04/28/23 16:57	Load on Instrument
JD64431-49.2	GCMS2T	Edward Durner	05/01/23 12:00	Unload from Instrument
JD64431-49.2	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-49.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-50.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-50.1	Secured Storage	Bridget Kelly	04/28/23 16:57	Retrieve from Storage
JD64431-50.1	Bridget Kelly	GCMS2T	04/28/23 16:57	Load on Instrument
JD64431-50.1	GCMS2T	Edward Durner	05/01/23 12:00	Unload from Instrument
JD64431-50.1	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-50.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-50.2	Secured Storage	Kinjal Desai	05/02/23 18:46	Retrieve from Storage
JD64431-50.2	Kinjal Desai	GCMS1V	05/02/23 18:46	Load on Instrument
JD64431-50.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-51.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-51.1	Secured Storage	Kinjal Desai	05/02/23 18:46	Retrieve from Storage
JD64431-51.1	Kinjal Desai	GCMS1V	05/02/23 18:46	Load on Instrument

SGS Internal Chain of Custody

Job Number: JD64431
Account: WSPENYC WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Received: 04/21/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD64431-51.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-51.2	Secured Storage	Bridget Kelly	04/28/23 16:57	Retrieve from Storage
JD64431-51.2	Bridget Kelly	GCMS2T	04/28/23 16:57	Load on Instrument
JD64431-51.2	GCMS2T	Edward Durner	05/01/23 12:00	Unload from Instrument
JD64431-51.2	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-51.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-52.1	Secured Storage	Bridget Kelly	04/28/23 16:57	Retrieve from Storage
JD64431-52.1	Bridget Kelly	GCMS2T	04/28/23 16:57	Load on Instrument
JD64431-52.1	GCMS2T	Edward Durner	05/01/23 12:00	Unload from Instrument
JD64431-52.1	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-52.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-52.2	Nicholas Weigand	GCMS1E	05/02/23 17:46	Load on Instrument
Analyst chain of custody update error.				
JD64431-52.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-53.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-53.1	Secured Storage	Bridget Kelly	04/28/23 16:57	Retrieve from Storage
JD64431-53.1	Bridget Kelly	GCMS2T	04/28/23 16:57	Load on Instrument
JD64431-53.1	GCMS2T	Edward Durner	05/01/23 12:00	Unload from Instrument
JD64431-53.1	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-53.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-53.2	Nicholas Weigand	GCMS1E	05/02/23 17:46	Load on Instrument
Analyst chain of custody update error.				
JD64431-53.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-54.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-54.1	Nicholas Weigand	GCMS1E	05/02/23 17:46	Load on Instrument
Analyst chain of custody update error.				
JD64431-54.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-54.2	Secured Storage	Bridget Kelly	04/28/23 16:57	Retrieve from Storage
JD64431-54.2	Bridget Kelly	GCMS2T	04/28/23 16:57	Load on Instrument
JD64431-54.2	GCMS2T	Edward Durner	05/01/23 12:00	Unload from Instrument
JD64431-54.2	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-54.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-55.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage

SGS Internal Chain of Custody

Job Number: JD64431
Account: WSPENYC WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Received: 04/21/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD64431-55.1	Nicholas Weigand	GCMS1E	05/02/23 17:46	Load on Instrument
Analyst chain of custody update error.				
JD64431-55.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-55.2	Secured Storage	Bridget Kelly	04/28/23 16:57	Retrieve from Storage
JD64431-55.2	Bridget Kelly	GCMS2T	04/28/23 16:57	Load on Instrument
JD64431-55.2	GCMS2T	Edward Durner	05/01/23 12:00	Unload from Instrument
JD64431-55.2	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-55.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-56.1	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-56.1	Secured Storage	Bridget Kelly	04/28/23 16:57	Retrieve from Storage
JD64431-56.1	Bridget Kelly	GCMS2T	04/28/23 16:57	Load on Instrument
JD64431-56.1	GCMS2T	Edward Durner	05/01/23 12:00	Unload from Instrument
JD64431-56.1	Edward Durner	Secured Storage	05/01/23 12:00	Return to Storage
JD64431-56.2	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-56.3	Epiphania Njoku	Secured Storage	04/24/23 23:50	Return to Storage
JD64431-57.1	Secured Storage	Todd Shoemaker	04/25/23 08:10	Retrieve from Storage
JD64431-57.1	Todd Shoemaker	Secured Staging Area	04/25/23 08:11	Return to Storage
JD64431-57.1	Secured Staging Area	Morgana Haub	04/25/23 11:23	Retrieve from Storage
JD64431-57.1	Morgana Haub	Secured Storage	04/25/23 18:52	Return to Storage

SEPTEMBER 2023

GROUNDWATER DATA

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

WSP USA Environment & Infrastructure Inc

Emersub 15, LLC, Ithaca, NY

31405608.001 02

SGS Job Number: JD73381

Sampling Dates: 09/19/23 - 09/21/23

Report to:

jeffrey.baker@wsp.com

ATTN: Distribution6

Total number of pages in report: 52



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

David Chastain
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	5
Section 3: Sample Results	8
3.1: JD73381-1: MW-50-160D	9
3.2: JD73381-2: MW-7B	11
3.3: JD73381-3: EXB-9	13
3.4: JD73381-4: MW-46-72C	15
3.5: JD73381-5: MW-46-43C	17
3.6: JD73381-6: MW-0923	19
3.7: JD73381-7: EB-091923	21
3.8: JD73381-8: MW-5-40	23
3.9: JD73381-9: MW-4B	25
3.10: JD73381-10: MW-1B	27
3.11: JD73381-11: MW-2B	29
3.12: JD73381-12: EXB-10	31
3.13: JD73381-13: EB-092023	33
3.14: JD73381-14: MW-5-100	35
3.15: JD73381-15: MW-3B	37
3.16: JD73381-16: MW-5B	39
Section 4: Misc. Forms	41
4.1: Chain of Custody	42
4.2: Sample Tracking Chronicle	45
4.3: Internal Chain of Custody	48



Sample Summary

WSP USA Environment & Infrastructure Inc

Job No: JD73381

Emersub 15, LLC, Ithaca, NY
Project No: 31405608.001 02

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID

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

JD73381-1	09/19/23	10:35	EM/KG	09/22/23	AQ	Ground Water	MW-50-160D
JD73381-2	09/19/23	14:10	EM/KG	09/22/23	AQ	Ground Water	MW-7B
JD73381-3	09/19/23	14:30	EM/KG	09/22/23	AQ	Ground Water	EXB-9
JD73381-3D	09/19/23	14:30	EM/KG	09/22/23	AQ	Water Dup/MSD	EXB-9-MSD
JD73381-3S	09/19/23	14:30	EM/KG	09/22/23	AQ	Water Matrix Spike	EXB-9-MS
JD73381-4	09/19/23	15:35	EM/KG	09/22/23	AQ	Ground Water	MW-46-72C
JD73381-5	09/19/23	16:05	EM/KG	09/22/23	AQ	Ground Water	MW-46-43C
JD73381-6	09/19/23	08:00	EM/KG	09/22/23	AQ	Ground Water	MW-0923
JD73381-7	09/19/23	11:10	EM/KG	09/22/23	AQ	Equipment Blank	EB-091923
JD73381-8	09/20/23	09:00	EM/KG	09/22/23	AQ	Ground Water	MW-5-40
JD73381-9	09/20/23	11:10	EM/KG	09/22/23	AQ	Ground Water	MW-4B
JD73381-10	09/20/23	11:30	EM/KG	09/22/23	AQ	Ground Water	MW-1B



Sample Summary
(continued)

WSP USA Environment & Infrastructure Inc

Job No: JD73381

Emersub 15, LLC, Ithaca, NY
Project No: 31405608.001 02

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JD73381-11	09/20/23	11:50	EM/KC09/22/23	AQ	Ground Water	MW-2B
JD73381-12	09/20/23	15:07	EM/KC09/22/23	AQ	Ground Water	EXB-10
JD73381-13	09/20/23	15:55	EM/KC09/22/23	AQ	Equipment Blank	EB-092023
JD73381-14	09/20/23	08:50	EM/KC09/22/23	AQ	Ground Water	MW-5-100
JD73381-15	09/21/23	09:20	EM/KC09/22/23	AQ	Ground Water	MW-3B
JD73381-16	09/21/23	09:40	EM/KC09/22/23	AQ	Ground Water	MW-5B

Summary of Hits

Page 1 of 3

Job Number: JD73381
Account: WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Collected: 09/19/23 thru 09/21/23

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JD73381-1 MW-50-160D

cis-1,2-Dichloroethene	2930	100	51	ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a	6.4 J	10	5.4	ug/l	SW846 8260D
Vinyl chloride ^a	1010	10	5.2	ug/l	SW846 8260D

JD73381-2 MW-7B

cis-1,2-Dichloroethene	24.7	1.0	0.51	ug/l	SW846 8260D
Trichloroethene	1.2	1.0	0.53	ug/l	SW846 8260D
Vinyl chloride	34.7	1.0	0.52	ug/l	SW846 8260D

JD73381-3 EXB-9

No hits reported in this sample.

JD73381-4 MW-46-72C

1,1-Dichloroethene ^a	12.4 J	20	12	ug/l	SW846 8260D
cis-1,2-Dichloroethene	6470	200	100	ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a	29.7	20	11	ug/l	SW846 8260D
Trichloroethene ^a	2860	20	11	ug/l	SW846 8260D
Vinyl chloride ^a	956	20	10	ug/l	SW846 8260D

JD73381-5 MW-46-43C

cis-1,2-Dichloroethene	19000	250	130	ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a	148	50	27	ug/l	SW846 8260D
Vinyl chloride ^a	6690	50	26	ug/l	SW846 8260D

JD73381-6 MW-0923

cis-1,2-Dichloroethene	2870	100	51	ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a	18.9	10	5.4	ug/l	SW846 8260D
Vinyl chloride ^a	1450	10	5.2	ug/l	SW846 8260D

JD73381-7 EB-091923

No hits reported in this sample.

JD73381-8 MW-5-40

cis-1,2-Dichloroethene	12300	250	130	ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a	195	50	27	ug/l	SW846 8260D
Trichloroethene ^a	4080	50	26	ug/l	SW846 8260D

Summary of Hits

Job Number: JD73381
Account: WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Collected: 09/19/23 thru 09/21/23

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Vinyl chloride ^a		2520	50	26	ug/l	SW846 8260D
JD73381-9	MW-4B					
Vinyl chloride		4.1	1.0	0.52	ug/l	SW846 8260D
JD73381-10	MW-1B					
cis-1,2-Dichloroethene		1.1	1.0	0.51	ug/l	SW846 8260D
JD73381-11	MW-2B					
cis-1,2-Dichloroethene ^a		5990	50	25	ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a		28.5 J	50	27	ug/l	SW846 8260D
Trichloroethene		9870	500	260	ug/l	SW846 8260D
Vinyl chloride ^a		138	50	26	ug/l	SW846 8260D
JD73381-12	EXB-10					
Benzene		0.78	0.50	0.43	ug/l	SW846 8260D
Cyclohexane		1.4 J	5.0	0.78	ug/l	SW846 8260D
cis-1,2-Dichloroethene		4.8	1.0	0.51	ug/l	SW846 8260D
Vinyl chloride		2.9	1.0	0.52	ug/l	SW846 8260D
JD73381-13	EB-092023					
No hits reported in this sample.						
JD73381-14	MW-5-100					
cis-1,2-Dichloroethene		19.2	1.0	0.51	ug/l	SW846 8260D
Trichloroethene		0.81 J	1.0	0.53	ug/l	SW846 8260D
Vinyl chloride		13.0	1.0	0.52	ug/l	SW846 8260D
JD73381-15	MW-3B					
1,1-Dichloroethene ^a		16.1 J	25	15	ug/l	SW846 8260D
cis-1,2-Dichloroethene		10400	250	130	ug/l	SW846 8260D
trans-1,2-Dichloroethene ^a		62.3	25	13	ug/l	SW846 8260D
Trichloroethene ^a		4650	25	13	ug/l	SW846 8260D
Vinyl chloride ^a		202	25	13	ug/l	SW846 8260D
JD73381-16	MW-5B					
cis-1,2-Dichloroethene		870	5.0	2.5	ug/l	SW846 8260D

Summary of Hits

Job Number: JD73381
Account: WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Collected: 09/19/23 thru 09/21/23

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Analyte						
trans-1,2-Dichloroethene ^a		15.1	4.0	2.1	ug/l	SW846 8260D
Trichloroethene ^a		583	4.0	2.1	ug/l	SW846 8260D
Vinyl chloride		16.3	5.0	2.6	ug/l	SW846 8260D

(a) Dilution required due to high concentration of target compound.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-50-160D	Date Sampled:	09/19/23
Lab Sample ID:	JD73381-1	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1G5559A.D	10	09/27/23 05:05	LD	n/a	n/a	V1G184
Run #2	1K11171.D	100	09/28/23 14:38	LD	n/a	n/a	V1K321

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

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	100	31	ug/l	
71-43-2	Benzene	ND	5.0	4.3	ug/l	
75-27-4	Bromodichloromethane	ND	10	4.5	ug/l	
75-25-2	Bromoform ^c	ND	10	6.3	ug/l	
74-83-9	Bromomethane ^b	ND	20	16	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	27	ug/l	
75-15-0	Carbon disulfide	ND	20	18	ug/l	
56-23-5	Carbon tetrachloride	ND	10	5.5	ug/l	
108-90-7	Chlorobenzene	ND	10	5.6	ug/l	
75-00-3	Chloroethane ^b	ND	10	7.3	ug/l	
67-66-3	Chloroform	ND	10	5.0	ug/l	
74-87-3	Chloromethane	ND	10	7.6	ug/l	
110-82-7	Cyclohexane	ND	50	7.8	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	20	5.3	ug/l	
124-48-1	Dibromochloromethane	ND	10	5.6	ug/l	
106-93-4	1,2-Dibromoethane	ND	10	4.8	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	5.3	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	5.4	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	5.1	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	5.6	ug/l	
75-34-3	1,1-Dichloroethane ^c	ND	10	5.7	ug/l	
107-06-2	1,2-Dichloroethane ^c	ND	10	6.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	10	5.9	ug/l	
156-59-2	cis-1,2-Dichloroethene	2930 ^d	100	51	ug/l	
156-60-5	trans-1,2-Dichloroethene	6.4	10	5.4	ug/l	J
78-87-5	1,2-Dichloropropane	ND	10	5.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	4.7	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	4.3	ug/l	
100-41-4	Ethylbenzene	ND	10	6.0	ug/l	
76-13-1	Freon 113	ND	50	5.8	ug/l	
591-78-6	2-Hexanone	ND	50	48	ug/l	
98-82-8	Isopropylbenzene	ND	10	6.5	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-50-160D	Date Sampled:	09/19/23
Lab Sample ID:	JD73381-1	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	50	8.0	ug/l	
108-87-2	Methylcyclohexane	ND	50	6.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	5.1	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	50	49	ug/l	
75-09-2	Methylene chloride	ND	20	10	ug/l	
100-42-5	Styrene	ND	10	4.9	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	6.5	ug/l	
127-18-4	Tetrachloroethene	ND	10	5.6	ug/l	
108-88-3	Toluene	ND	10	4.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	5.4	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	5.3	ug/l	
79-01-6	Trichloroethene	ND	10	5.3	ug/l	
75-69-4	Trichlorofluoromethane	ND	20	4.0	ug/l	
75-01-4	Vinyl chloride	1010	10	5.2	ug/l	
1330-20-7	Xylene (total)	ND	10	5.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	110%	80-120%
17060-07-0	1,2-Dichloroethane-D4	91%	102%	80-120%
2037-26-5	Toluene-D8	101%	95%	80-120%
460-00-4	4-Bromofluorobenzene	96%	90%	82-114%

- (a) Dilution required due to high concentration of target compound.
 (b) Associated CCV outside of control limits high, sample was ND.
 (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-7B	Date Sampled:	09/19/23
Lab Sample ID:	JD73381-2	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1K11161.D	1	09/28/23 11:53	LD	n/a	n/a	V1K321
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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	1.8	ug/l	
56-23-5	Carbon tetrachloride ^b	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane ^a	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 ^b	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	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	24.7	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	4.8	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	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-7B	Date Sampled:	09/19/23
Lab Sample ID:	JD73381-2	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane ^b	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	4.9	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	
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	1.2	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	34.7	1.0	0.52	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	96%		80-120%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	89%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

(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:	EXB-9	Date Sampled:	09/19/23
Lab Sample ID:	JD73381-3	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G5558A.D	1	09/27/23 04:50	LD	n/a	n/a	V2G184
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform ^a	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	1.8	ug/l	
56-23-5	Carbon tetrachloride ^a	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane ^b	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	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane ^a	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane ^a	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	4.8	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	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:	EXB-9	Date Sampled:	09/19/23
Lab Sample ID:	JD73381-3	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	4.9	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	
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 ^a	ND	1.0	0.52	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	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	84%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	94%		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) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias 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-46-72C	Date Sampled:	09/19/23
Lab Sample ID:	JD73381-4	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1K11169.D	20	09/28/23 14:05	LD	n/a	n/a	V1K321
Run #2	1K11183.D	200	09/28/23 17:56	LD	n/a	n/a	V1K321

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

VOA TCL List (OLM4.2)

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	
75-27-4	Bromodichloromethane	ND	20	9.0	ug/l	
75-25-2	Bromoform	ND	20	13	ug/l	
74-83-9	Bromomethane	ND	40	33	ug/l	
78-93-3	2-Butanone (MEK)	ND	200	55	ug/l	
75-15-0	Carbon disulfide	ND	40	36	ug/l	
56-23-5	Carbon tetrachloride ^c	ND	20	11	ug/l	
108-90-7	Chlorobenzene	ND	20	11	ug/l	
75-00-3	Chloroethane ^b	ND	20	15	ug/l	
67-66-3	Chloroform	ND	20	10	ug/l	
74-87-3	Chloromethane	ND	20	15	ug/l	
110-82-7	Cyclohexane ^c	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	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	12.4	20	12	ug/l	J
156-59-2	cis-1,2-Dichloroethene	6470 ^d	200	100	ug/l	
156-60-5	trans-1,2-Dichloroethene	29.7	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	ND	20	12	ug/l	
76-13-1	Freon 113	ND	100	12	ug/l	
591-78-6	2-Hexanone	ND	100	96	ug/l	
98-82-8	Isopropylbenzene	ND	20	13	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-46-72C	Date Sampled:	09/19/23
Lab Sample ID:	JD73381-4	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	100	16	ug/l	
108-87-2	Methylcyclohexane ^c	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)	ND	100	97	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	ND	20	9.8	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	2860	20	11	ug/l	
75-69-4	Trichlorofluoromethane	ND	40	8.0	ug/l	
75-01-4	Vinyl chloride	956	20	10	ug/l	
1330-20-7	Xylene (total)	ND	20	12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%	111%	80-120%
17060-07-0	1,2-Dichloroethane-D4	102%	105%	80-120%
2037-26-5	Toluene-D8	94%	95%	80-120%
460-00-4	4-Bromofluorobenzene	90%	91%	82-114%

- (a) Dilution required due to high concentration of target compound.
 (b) Associated CCV outside of control limits high, sample was ND.
 (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-46-43C	Date Sampled:	09/19/23
Lab Sample ID:	JD73381-5	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1G5561A.D	50	09/27/23 05:33	LD	n/a	n/a	V1G184
Run #2	2K11164.D	250	09/28/23 12:42	LD	n/a	n/a	V2K321

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

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	500	150	ug/l	
71-43-2	Benzene	ND	25	21	ug/l	
75-27-4	Bromodichloromethane	ND	50	23	ug/l	
75-25-2	Bromoform ^c	ND	50	32	ug/l	
74-83-9	Bromomethane ^b	ND	100	82	ug/l	
78-93-3	2-Butanone (MEK)	ND	500	140	ug/l	
75-15-0	Carbon disulfide	ND	100	90	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 ^b	ND	50	36	ug/l	
67-66-3	Chloroform	ND	50	25	ug/l	
74-87-3	Chloromethane	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	ND	100	28	ug/l	
75-34-3	1,1-Dichloroethane ^c	ND	50	28	ug/l	
107-06-2	1,2-Dichloroethane ^c	ND	50	30	ug/l	
75-35-4	1,1-Dichloroethene	ND	50	30	ug/l	
156-59-2	cis-1,2-Dichloroethene	19000 ^d	250	130	ug/l	
156-60-5	trans-1,2-Dichloroethene	148	50	27	ug/l	
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	240	ug/l	
98-82-8	Isopropylbenzene	ND	50	32	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-46-43C	Date Sampled:	09/19/23
Lab Sample ID:	JD73381-5	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	250	40	ug/l	
108-87-2	Methylcyclohexane	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	240	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	
120-82-1	1,2,4-Trichlorobenzene	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	6690	50	26	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	98%	107%	80-120%
17060-07-0	1,2-Dichloroethane-D4	87%	98%	80-120%
2037-26-5	Toluene-D8	102%	96%	80-120%
460-00-4	4-Bromofluorobenzene	93%	91%	82-114%

- (a) Dilution required due to high concentration of target compound.
 (b) Associated CCV outside of control limits high, sample was ND.
 (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-0923	Date Sampled:	09/19/23
Lab Sample ID:	JD73381-6	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2K11166.D	10	09/28/23 13:15	LD	n/a	n/a	V2K321
Run #2	2K11184.D	100	09/28/23 18:13	LD	n/a	n/a	V2K321

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

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	100	31	ug/l	
71-43-2	Benzene	ND	5.0	4.3	ug/l	
75-27-4	Bromodichloromethane	ND	10	4.5	ug/l	
75-25-2	Bromoform	ND	10	6.3	ug/l	
74-83-9	Bromomethane	ND	20	16	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	27	ug/l	
75-15-0	Carbon disulfide	ND	20	18	ug/l	
56-23-5	Carbon tetrachloride	ND	10	5.5	ug/l	
108-90-7	Chlorobenzene	ND	10	5.6	ug/l	
75-00-3	Chloroethane ^b	ND	10	7.3	ug/l	
67-66-3	Chloroform	ND	10	5.0	ug/l	
74-87-3	Chloromethane	ND	10	7.6	ug/l	
110-82-7	Cyclohexane	ND	50	7.8	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	20	5.3	ug/l	
124-48-1	Dibromochloromethane	ND	10	5.6	ug/l	
106-93-4	1,2-Dibromoethane	ND	10	4.8	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	5.3	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	5.4	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	5.1	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	5.6	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	5.7	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	6.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	10	5.9	ug/l	
156-59-2	cis-1,2-Dichloroethene	2870 ^c	100	51	ug/l	
156-60-5	trans-1,2-Dichloroethene	18.9	10	5.4	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	5.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	4.7	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	4.3	ug/l	
100-41-4	Ethylbenzene	ND	10	6.0	ug/l	
76-13-1	Freon 113	ND	50	5.8	ug/l	
591-78-6	2-Hexanone	ND	50	48	ug/l	
98-82-8	Isopropylbenzene	ND	10	6.5	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-0923	Date Sampled:	09/19/23
Lab Sample ID:	JD73381-6	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	50	8.0	ug/l	
108-87-2	Methylcyclohexane ^d	ND	50	6.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	5.1	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	50	49	ug/l	
75-09-2	Methylene chloride	ND	20	10	ug/l	
100-42-5	Styrene	ND	10	4.9	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	6.5	ug/l	
127-18-4	Tetrachloroethene	ND	10	5.6	ug/l	
108-88-3	Toluene	ND	10	4.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	5.4	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	5.3	ug/l	
79-01-6	Trichloroethene	ND	10	5.3	ug/l	
75-69-4	Trichlorofluoromethane	ND	20	4.0	ug/l	
75-01-4	Vinyl chloride	1450	10	5.2	ug/l	
1330-20-7	Xylene (total)	ND	10	5.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%	108%	80-120%
17060-07-0	1,2-Dichloroethane-D4	104%	103%	80-120%
2037-26-5	Toluene-D8	95%	96%	80-120%
460-00-4	4-Bromofluorobenzene	90%	91%	82-114%

- (a) Dilution required due to high concentration of target compound.
 (b) Associated CCV outside of control limits high, sample was ND.
 (c) Result is from Run# 2
 (d) 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:	EB-091923	Date Sampled:	09/19/23
Lab Sample ID:	JD73381-7	Date Received:	09/22/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G5573A.D	1	09/27/23 08:25	LD	n/a	n/a	V1G184
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform ^b	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	1.8	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 ^a	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	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane ^b	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane ^b	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	4.8	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	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:	EB-091923	Date Sampled:	09/19/23
Lab Sample ID:	JD73381-7	Date Received:	09/22/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	4.9	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	
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	
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	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	87%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	92%		82-114%

- (a) Associated CCV outside of control limits high, sample was ND.
 (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-5-40	Date Sampled:	09/20/23
Lab Sample ID:	JD73381-8	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1G5563A.D	50	09/27/23 06:02	LD	n/a	n/a	V1G184
Run #2	2K11172.D	250	09/28/23 14:54	LD	n/a	n/a	V2K321

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

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	500	150	ug/l	
71-43-2	Benzene	ND	25	21	ug/l	
75-27-4	Bromodichloromethane	ND	50	23	ug/l	
75-25-2	Bromoform ^c	ND	50	32	ug/l	
74-83-9	Bromomethane ^b	ND	100	82	ug/l	
78-93-3	2-Butanone (MEK)	ND	500	140	ug/l	
75-15-0	Carbon disulfide	ND	100	90	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 ^b	ND	50	36	ug/l	
67-66-3	Chloroform	ND	50	25	ug/l	
74-87-3	Chloromethane	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	ND	100	28	ug/l	
75-34-3	1,1-Dichloroethane ^c	ND	50	28	ug/l	
107-06-2	1,2-Dichloroethane ^c	ND	50	30	ug/l	
75-35-4	1,1-Dichloroethene	ND	50	30	ug/l	
156-59-2	cis-1,2-Dichloroethene	12300 ^d	250	130	ug/l	
156-60-5	trans-1,2-Dichloroethene	195	50	27	ug/l	
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	240	ug/l	
98-82-8	Isopropylbenzene	ND	50	32	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-5-40	Date Sampled:	09/20/23
Lab Sample ID:	JD73381-8	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	250	40	ug/l	
108-87-2	Methylcyclohexane	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	240	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	
120-82-1	1,2,4-Trichlorobenzene	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	4080	50	26	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	20	ug/l	
75-01-4	Vinyl chloride	2520	50	26	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	95%	107%	80-120%
17060-07-0	1,2-Dichloroethane-D4	86%	102%	80-120%
2037-26-5	Toluene-D8	103%	95%	80-120%
460-00-4	4-Bromofluorobenzene	89%	90%	82-114%

- (a) Dilution required due to high concentration of target compound.
 (b) Associated CCV outside of control limits high, sample was ND.
 (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	Date Sampled:	09/20/23
Lab Sample ID:	JD73381-9	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G5577A.D	1	09/27/23 09:23	LD	n/a	n/a	V1G184
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform ^b	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	1.8	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 ^a	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	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane ^b	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane ^b	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	4.8	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	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	Date Sampled:	09/20/23
Lab Sample ID:	JD73381-9	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	4.9	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	
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	4.1	1.0	0.52	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	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	80%		80-120%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	91%		82-114%

- (a) Associated CCV outside of control limits high, sample was ND.
 (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-1B	Date Sampled:	09/20/23
Lab Sample ID:	JD73381-10	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G5578A.D	1	09/27/23 09:37	LD	n/a	n/a	V2G184
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform ^a	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	1.8	ug/l	
56-23-5	Carbon tetrachloride ^a	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane ^b	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	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane ^a	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane ^a	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	1.1	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	4.8	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1B	Date Sampled:	09/20/23
Lab Sample ID:	JD73381-10	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	4.9	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	
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 ^a	ND	1.0	0.52	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	87%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	93%		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) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias 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-2B	Date Sampled:	09/20/23
Lab Sample ID:	JD73381-11	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1K11167.D	50	09/28/23 13:32	LD	n/a	n/a	V1K321
Run #2	1K11185.D	500	09/28/23 18:29	LD	n/a	n/a	V1K321

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

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	500	150	ug/l	
71-43-2	Benzene	ND	25	21	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	ND	100	90	ug/l	
56-23-5	Carbon tetrachloride ^c	ND	50	28	ug/l	
108-90-7	Chlorobenzene	ND	50	28	ug/l	
75-00-3	Chloroethane ^b	ND	50	36	ug/l	
67-66-3	Chloroform	ND	50	25	ug/l	
74-87-3	Chloromethane	ND	50	38	ug/l	
110-82-7	Cyclohexane ^c	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	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	5990	50	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	28.5	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	240	ug/l	
98-82-8	Isopropylbenzene	ND	50	32	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-2B	Date Sampled:	09/20/23
Lab Sample ID:	JD73381-11	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	250	40	ug/l	
108-87-2	Methylcyclohexane ^c	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	240	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	
120-82-1	1,2,4-Trichlorobenzene	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	9870 ^d	500	260	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	20	ug/l	
75-01-4	Vinyl chloride	138	50	26	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	110%	110%	80-120%
17060-07-0	1,2-Dichloroethane-D4	103%	100%	80-120%
2037-26-5	Toluene-D8	94%	95%	80-120%
460-00-4	4-Bromofluorobenzene	91%	89%	82-114%

- (a) Dilution required due to high concentration of target compound.
 (b) Associated CCV outside of control limits high, sample was ND.
 (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:	EXB-10	Date Sampled:	09/20/23
Lab Sample ID:	JD73381-12	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G5579A.D	1	09/27/23 09:52	LD	n/a	n/a	V1G184
Run #2							

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

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	ND	10	3.1	ug/l	
71-43-2	Benzene	0.78	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform ^b	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	1.8	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 ^a	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	1.4	5.0	0.78	ug/l	J
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	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane ^b	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane ^b	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	4.8	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	4.8	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	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:	EXB-10	Date Sampled:	09/20/23
Lab Sample ID:	JD73381-12	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	4.9	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	
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	2.9	1.0	0.52	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	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	86%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	87%		82-114%

- (a) Associated CCV outside of control limits high, sample was ND.
 (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:	EB-092023	Date Sampled:	09/20/23
Lab Sample ID:	JD73381-13	Date Received:	09/22/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G5574A.D	1	09/27/23 08:40	LD	n/a	n/a	V2G184
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform ^a	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	1.8	ug/l	
56-23-5	Carbon tetrachloride ^a	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane ^b	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	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane ^a	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane ^a	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	4.8	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	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:	EB-092023	Date Sampled:	09/20/23
Lab Sample ID:	JD73381-13	Date Received:	09/22/23
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
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	4.9	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	
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 ^a	ND	1.0	0.52	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%		80-120%
17060-07-0	1,2-Dichloroethane-D4	81%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	92%		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) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias 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-5-100	Date Sampled:	09/20/23
Lab Sample ID:	JD73381-14	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2K11188.D	1	09/28/23 19:19	LD	n/a	n/a	V2K321
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

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	
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	1.8	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 ^a	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	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	19.2	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	4.8	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5-100	Date Sampled:	09/20/23
Lab Sample ID:	JD73381-14	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane ^b	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	4.9	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	
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	0.81	1.0	0.53	ug/l	J
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	13.0	1.0	0.52	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	102%		80-120%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	89%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

(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-3B	Date Sampled:	09/21/23
Lab Sample ID:	JD73381-15	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1G5565A.D	25	09/27/23 06:31	LD	n/a	n/a	V1G184
Run #2	2K11170.D	250	09/28/23 14:21	LD	n/a	n/a	V2K321

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

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	250	76	ug/l	
71-43-2	Benzene	ND	13	11	ug/l	
75-27-4	Bromodichloromethane	ND	25	11	ug/l	
75-25-2	Bromoform ^c	ND	25	16	ug/l	
74-83-9	Bromomethane ^b	ND	50	41	ug/l	
78-93-3	2-Butanone (MEK)	ND	250	68	ug/l	
75-15-0	Carbon disulfide	ND	50	45	ug/l	
56-23-5	Carbon tetrachloride	ND	25	14	ug/l	
108-90-7	Chlorobenzene	ND	25	14	ug/l	
75-00-3	Chloroethane ^b	ND	25	18	ug/l	
67-66-3	Chloroform	ND	25	13	ug/l	
74-87-3	Chloromethane	ND	25	19	ug/l	
110-82-7	Cyclohexane	ND	130	20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	13	ug/l	
124-48-1	Dibromochloromethane	ND	25	14	ug/l	
106-93-4	1,2-Dibromoethane	ND	25	12	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	25	13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	25	14	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	25	13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	50	14	ug/l	
75-34-3	1,1-Dichloroethane ^c	ND	25	14	ug/l	
107-06-2	1,2-Dichloroethane ^c	ND	25	15	ug/l	
75-35-4	1,1-Dichloroethene	16.1	25	15	ug/l	J
156-59-2	cis-1,2-Dichloroethene	10400 ^d	250	130	ug/l	
156-60-5	trans-1,2-Dichloroethene	62.3	25	13	ug/l	
78-87-5	1,2-Dichloropropane	ND	25	13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	25	12	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	25	15	ug/l	
76-13-1	Freon 113	ND	130	15	ug/l	
591-78-6	2-Hexanone	ND	130	120	ug/l	
98-82-8	Isopropylbenzene	ND	25	16	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3B	Date Sampled:	09/21/23
Lab Sample ID:	JD73381-15	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	130	20	ug/l	
108-87-2	Methylcyclohexane	ND	130	15	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	25	13	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	130	120	ug/l	
75-09-2	Methylene chloride	ND	50	25	ug/l	
100-42-5	Styrene	ND	25	12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	16	ug/l	
127-18-4	Tetrachloroethene	ND	25	14	ug/l	
108-88-3	Toluene	ND	25	12	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	25	13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	25	13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	25	13	ug/l	
79-01-6	Trichloroethene	4650	25	13	ug/l	
75-69-4	Trichlorofluoromethane	ND	50	10	ug/l	
75-01-4	Vinyl chloride	202	25	13	ug/l	
1330-20-7	Xylene (total)	ND	25	15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	109%	80-120%
17060-07-0	1,2-Dichloroethane-D4	85%	105%	80-120%
2037-26-5	Toluene-D8	100%	95%	80-120%
460-00-4	4-Bromofluorobenzene	93%	89%	82-114%

- (a) Dilution required due to high concentration of target compound.
 (b) Associated CCV outside of control limits high, sample was ND.
 (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-5B	Date Sampled:	09/21/23
Lab Sample ID:	JD73381-16	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2G5566A.D	4	09/27/23 06:45	LD	n/a	n/a	V2G184
Run #2	1K11165.D	5	09/28/23 12:59	LD	n/a	n/a	V1K321

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

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^b	ND	40	12	ug/l	
71-43-2	Benzene	ND	2.0	1.7	ug/l	
75-27-4	Bromodichloromethane	ND	4.0	1.8	ug/l	
75-25-2	Bromoform ^b	ND	4.0	2.5	ug/l	
74-83-9	Bromomethane	ND	8.0	6.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	40	11	ug/l	
75-15-0	Carbon disulfide	ND	8.0	7.2	ug/l	
56-23-5	Carbon tetrachloride ^b	ND	4.0	2.2	ug/l	
108-90-7	Chlorobenzene	ND	4.0	2.2	ug/l	
75-00-3	Chloroethane ^c	ND	4.0	2.9	ug/l	
67-66-3	Chloroform	ND	4.0	2.0	ug/l	
74-87-3	Chloromethane ^b	ND	4.0	3.0	ug/l	
110-82-7	Cyclohexane	ND	20	3.1	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	8.0	2.1	ug/l	
124-48-1	Dibromochloromethane	ND	4.0	2.2	ug/l	
106-93-4	1,2-Dibromoethane	ND	4.0	1.9	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.0	2.1	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.0	2.2	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.0	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	8.0	2.2	ug/l	
75-34-3	1,1-Dichloroethane ^b	ND	4.0	2.3	ug/l	
107-06-2	1,2-Dichloroethane ^b	ND	4.0	2.4	ug/l	
75-35-4	1,1-Dichloroethene	ND	4.0	2.4	ug/l	
156-59-2	cis-1,2-Dichloroethene	870 ^d	5.0	2.5	ug/l	
156-60-5	trans-1,2-Dichloroethene	15.1	4.0	2.1	ug/l	
78-87-5	1,2-Dichloropropane	ND	4.0	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	4.0	1.9	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	4.0	1.7	ug/l	
100-41-4	Ethylbenzene	ND	4.0	2.4	ug/l	
76-13-1	Freon 113	ND	20	2.3	ug/l	
591-78-6	2-Hexanone	ND	20	19	ug/l	
98-82-8	Isopropylbenzene	ND	4.0	2.6	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5B	Date Sampled:	09/21/23
Lab Sample ID:	JD73381-16	Date Received:	09/22/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260D		
Project:	Emersub 15, LLC, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	20	3.2	ug/l	
108-87-2	Methylcyclohexane	ND	20	2.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	20	19	ug/l	
75-09-2	Methylene chloride	ND	8.0	4.0	ug/l	
100-42-5	Styrene	ND	4.0	1.9	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.0	2.6	ug/l	
127-18-4	Tetrachloroethene	ND	4.0	2.2	ug/l	
108-88-3	Toluene	ND	4.0	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.0	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	4.0	2.1	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	4.0	2.1	ug/l	
79-01-6	Trichloroethene	583	4.0	2.1	ug/l	
75-69-4	Trichlorofluoromethane	ND	8.0	1.6	ug/l	
75-01-4	Vinyl chloride	16.3 ^d	5.0	2.6	ug/l	
1330-20-7	Xylene (total)	ND	4.0	2.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	109%	80-120%
17060-07-0	1,2-Dichloroethane-D4	88%	102%	80-120%
2037-26-5	Toluene-D8	100%	95%	80-120%
460-00-4	4-Bromofluorobenzene	91%	89%	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) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
 (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

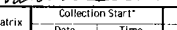
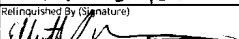
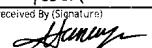


Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

WSP Office Address 40 Ls Riviere Dr., Ste. 320 Buffalo, NY 14202				Requested Analyses & Preservatives				No. 5073381	
Project Name Former EPT Ithaca				WSP Contact Name Nathaniel Winston Elliott Martynkiewicz				Laboratory Name & Location SGS DAYTON, NJ	
Project Location Ithaca, NY				WSP Contact E-mail Nathaniel.Winston@wsp.com Elliott.Martynkiewicz@wsp.com				Laboratory Project Manager Tammy McClosky	
Project Number & Task 31405608 001 02				WSP Contact Phone 716 420 0023 716 - 380 8295				Requested Turn-Around-Time ☒ Standard (1-day) ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ _____ HR	
Sampler(s) Name(s) Nathaniel Winston Elliott Martynkiewicz Kevin Griswold				Sampler(s) Signature(s)   				Number of Containers 42	
Sample Identification		Matrix	Collection Start*		Collection Stop*		Sample Comments		
			Date	Time	Date	Time			
MW-50-1600		GW	9/19/03	1035	-	-	3	X	
MW-7B		GW	9/19/03	1410	-	-	3	X	
EXB-9		GW	9/19/03	1430	-	-	3	X	
EXB-9-MS		GW	9/19/03	1430	-	-	3	X	
EXB-9-MSD		GW	9/19/03	1430	-	-	3	X	
MW-46-72C		GW	9/19/03	1535	-	-	3	X	
MW-46-43C		GW	9/19/03	1605	-	-	3	X	
MW-0923		GW	9/19/03	0800	-	-	3	X	
EB-091923		GW	9/19/03	1110	-	-	3	X	
MW-5-40		GW	9/20/03	0900	-	-	3	X	
MW-4B		GW	9/20/03	1110	-	-	3	X	
MW-1B		GW	9/20/03	1130	-	-	3	X	
MW-2B		GW	9/20/03	1150	-	-	3	X	
EXB-10		GW	9/20/03	1507	-	-	3	X	
EB-092023		GW	9/20/03	1555	-	-	3	X	
MW-5-100		GW	9/20/03	0850	-	-	3	X	
Retained by (Signature) 		Date 09/21/03	Time 1100	Received By (Signature) Fedex		Date 9/22	Time 1020	Shipment Method Fedex	
Retained by (Signature) Fedex		Date 9/22	Time 1020	Received By (Signature) 		Date 9/22	Time 1020	Custody Seal Number(s) 7003 7831 2636	

210.000

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JD73381: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: JD73381

Client: WSP USA

Project: EMERSUB 15, LLC, ITHACA, NY

Date / Time Received: 9/22/2023 10:20:00 AM

Delivery Method: FEDEX

Airbill #'s:
Cooler Temps (Raw Measured) °C: Cooler 1: (3.7);

Cooler Temps (Corrected) °C: Cooler 1: (3.4);

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:	IR Gun 40	
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

JD73381: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

Job No: JD73381

Emersub 15, LLC, Ithaca, NY

Project No: 31405608.001 02

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD73381-1 Collected: 19-SEP-23 10:35 By: EM/KG Received: 22-SEP-23 By: EN MW-50-160D						
JD73381-1	SW846 8260D	27-SEP-23 05:05	LD			V8260TCL42
JD73381-1	SW846 8260D	28-SEP-23 14:38	LD			V8260TCL42
JD73381-2 Collected: 19-SEP-23 14:10 By: EM/KG Received: 22-SEP-23 By: EN MW-7B						
JD73381-2	SW846 8260D	28-SEP-23 11:53	LD			V8260TCL42
JD73381-3 Collected: 19-SEP-23 14:30 By: EM/KG Received: 22-SEP-23 By: EN EXB-9						
JD73381-3	SW846 8260D	27-SEP-23 04:50	LD			V8260TCL42
JD73381-4 Collected: 19-SEP-23 15:35 By: EM/KG Received: 22-SEP-23 By: EN MW-46-72C						
JD73381-4	SW846 8260D	28-SEP-23 14:05	LD			V8260TCL42
JD73381-4	SW846 8260D	28-SEP-23 17:56	LD			V8260TCL42
JD73381-5 Collected: 19-SEP-23 16:05 By: EM/KG Received: 22-SEP-23 By: EN MW-46-43C						
JD73381-5	SW846 8260D	27-SEP-23 05:33	LD			V8260TCL42
JD73381-5	SW846 8260D	28-SEP-23 12:42	LD			V8260TCL42
JD73381-6 Collected: 19-SEP-23 08:00 By: EM/KG Received: 22-SEP-23 By: EN MW-0923						
JD73381-6	SW846 8260D	28-SEP-23 13:15	LD			V8260TCL42
JD73381-6	SW846 8260D	28-SEP-23 18:13	LD			V8260TCL42
JD73381-7 Collected: 19-SEP-23 11:10 By: EM/KG Received: 22-SEP-23 By: EN EB-091923						
JD73381-7	SW846 8260D	27-SEP-23 08:25	LD			V8260TCL42

Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

Job No: JD73381

Emersub 15, LLC, Ithaca, NY
Project No: 31405608.001 02

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD73381-8 Collected: 20-SEP-23 09:00 By: EM/KG Received: 22-SEP-23 By: EN MW-5-40						
JD73381-8	SW846 8260D	27-SEP-23 06:02	LD			V8260TCL42
JD73381-8	SW846 8260D	28-SEP-23 14:54	LD			V8260TCL42
JD73381-9 Collected: 20-SEP-23 11:10 By: EM/KG Received: 22-SEP-23 By: EN MW-4B						
JD73381-9	SW846 8260D	27-SEP-23 09:23	LD			V8260TCL42
JD73381-10 Collected: 20-SEP-23 11:30 By: EM/KG Received: 22-SEP-23 By: EN MW-1B						
JD73381-10	SW846 8260D	27-SEP-23 09:37	LD			V8260TCL42
JD73381-11 Collected: 20-SEP-23 11:50 By: EM/KG Received: 22-SEP-23 By: EN MW-2B						
JD73381-11	SW846 8260D	28-SEP-23 13:32	LD			V8260TCL42
JD73381-11	SW846 8260D	28-SEP-23 18:29	LD			V8260TCL42
JD73381-12 Collected: 20-SEP-23 15:07 By: EM/KG Received: 22-SEP-23 By: EN EXB-10						
JD73381-12	SW846 8260D	27-SEP-23 09:52	LD			V8260TCL42
JD73381-13 Collected: 20-SEP-23 15:55 By: EM/KG Received: 22-SEP-23 By: EN EB-092023						
JD73381-13	SW846 8260D	27-SEP-23 08:40	LD			V8260TCL42
JD73381-14 Collected: 20-SEP-23 08:50 By: EM/KG Received: 22-SEP-23 By: EN MW-5-100						
JD73381-14	SW846 8260D	28-SEP-23 19:19	LD			V8260TCL42

Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

Job No: JD73381

Emersub 15, LLC, Ithaca, NY
Project No: 31405608.001 02

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes

JD73381-15 Collected: 21-SEP-23 09:20 By: EM/KG Received: 22-SEP-23 By: EN
MW-3B

JD73381-15 SW846 8260D	27-SEP-23 06:31	LD		V8260TCL42
JD73381-15 SW846 8260D	28-SEP-23 14:21	LD		V8260TCL42

JD73381-16 Collected: 21-SEP-23 09:40 By: EM/KG Received: 22-SEP-23 By: EN
MW-5B

JD73381-16 SW846 8260D	27-SEP-23 06:45	LD		V8260TCL42
JD73381-16 SW846 8260D	28-SEP-23 12:59	LD		V8260TCL42

SGS Internal Chain of Custody

Page 1 of 5

Job Number: JD73381
Account: WSPENYC WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Received: 09/22/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD73381-1.1	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-1.1	Secured Storage	Kinjal Desai	09/28/23 17:15	Retrieve from Storage
JD73381-1.1	Kinjal Desai	GCMS1K	09/28/23 17:15	Load on Instrument
JD73381-1.1	GCMS1K	Camille Fiumara	09/29/23 16:17	Unload from Instrument
JD73381-1.1	Camille Fiumara	Secured Storage	09/29/23 16:17	Return to Storage
JD73381-1.2	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-1.2	Secured Storage	Camille Fiumara	09/26/23 17:57	Retrieve from Storage
JD73381-1.2	Camille Fiumara	GCMS1G	09/26/23 17:57	Load on Instrument
JD73381-1.3	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-2.1	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-2.1	Secured Storage	Kinjal Desai	09/28/23 17:15	Retrieve from Storage
JD73381-2.1	Kinjal Desai	GCMS1K	09/28/23 17:15	Load on Instrument
JD73381-2.1	GCMS1K	Camille Fiumara	09/29/23 16:17	Unload from Instrument
JD73381-2.1	Camille Fiumara	Secured Storage	09/29/23 16:17	Return to Storage
JD73381-2.2	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-2.2	Secured Storage	Camille Fiumara	09/26/23 17:57	Retrieve from Storage
JD73381-2.2	Camille Fiumara	GCMS1G	09/26/23 17:57	Load on Instrument
JD73381-2.3	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-3.1	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-3.2	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-3.2	Secured Storage	Camille Fiumara	09/26/23 17:57	Retrieve from Storage
JD73381-3.2	Camille Fiumara	GCMS1G	09/26/23 17:57	Load on Instrument
JD73381-3.3	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-3.3	Secured Storage	Camille Fiumara	09/26/23 17:57	Retrieve from Storage
JD73381-3.3	Camille Fiumara	GCMS1G	09/26/23 17:57	Load on Instrument
JD73381-3.4	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-3.5	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-3.6	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-3.6	Secured Storage	Camille Fiumara	09/26/23 17:57	Retrieve from Storage
JD73381-3.6	Camille Fiumara	GCMS1G	09/26/23 17:57	Load on Instrument
JD73381-3.7	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage

SGS Internal Chain of Custody

Page 2 of 5

Job Number: JD73381
Account: WSPENYC WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Received: 09/22/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD73381-3.8	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-3.9	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-4.1	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-4.1	Secured Storage	Camille Fiumara	09/26/23 17:57	Retrieve from Storage
JD73381-4.1	Camille Fiumara	GCMS1G	09/26/23 17:57	Load on Instrument
JD73381-4.2	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-4.2	Secured Storage	Kinjal Desai	09/28/23 17:15	Retrieve from Storage
JD73381-4.2	Kinjal Desai	GCMS1K	09/28/23 17:15	Load on Instrument
JD73381-4.2	GCMS1K	Camille Fiumara	09/29/23 16:17	Unload from Instrument
JD73381-4.2	Camille Fiumara	Secured Storage	09/29/23 16:17	Return to Storage
JD73381-4.3	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-5.1	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-5.1	Secured Storage	Camille Fiumara	09/26/23 17:57	Retrieve from Storage
JD73381-5.1	Camille Fiumara	GCMS1G	09/26/23 17:57	Load on Instrument
JD73381-5.2	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-5.2	Secured Storage	Kinjal Desai	09/28/23 17:15	Retrieve from Storage
JD73381-5.2	Kinjal Desai	GCMS1K	09/28/23 17:15	Load on Instrument
JD73381-5.2	GCMS1K	Camille Fiumara	09/29/23 16:17	Unload from Instrument
JD73381-5.2	Camille Fiumara	Secured Storage	09/29/23 16:17	Return to Storage
JD73381-5.3	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-6.1	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-6.1	Secured Storage	Kinjal Desai	09/28/23 17:15	Retrieve from Storage
JD73381-6.1	Kinjal Desai	GCMS1K	09/28/23 17:15	Load on Instrument
JD73381-6.1	GCMS1K	Camille Fiumara	09/29/23 16:17	Unload from Instrument
JD73381-6.1	Camille Fiumara	Secured Storage	09/29/23 16:17	Return to Storage
JD73381-6.2	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-6.2	Secured Storage	Camille Fiumara	09/26/23 17:57	Retrieve from Storage
JD73381-6.2	Camille Fiumara	GCMS1G	09/26/23 17:57	Load on Instrument
JD73381-6.3	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-7.1	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-7.2	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-7.2	Secured Storage	Camille Fiumara	09/26/23 17:57	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD73381
Account: WSPENYC WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Received: 09/22/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD73381-7.2	Camille Fiumara	GCMS1G	09/26/23 17:57	Load on Instrument
JD73381-7.3	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-8.1	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-8.1	Secured Storage	Camille Fiumara	09/26/23 17:57	Retrieve from Storage
JD73381-8.1	Camille Fiumara	GCMS1G	09/26/23 17:57	Load on Instrument
JD73381-8.2	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-8.2	Secured Storage	Kinjal Desai	09/28/23 17:15	Retrieve from Storage
JD73381-8.2	Kinjal Desai	GCMS1K	09/28/23 17:15	Load on Instrument
JD73381-8.2	GCMS1K	Camille Fiumara	09/29/23 16:17	Unload from Instrument
JD73381-8.2	Camille Fiumara	Secured Storage	09/29/23 16:17	Return to Storage
JD73381-8.3	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-9.1	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-9.2	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-9.2	Secured Storage	Camille Fiumara	09/26/23 17:57	Retrieve from Storage
JD73381-9.2	Camille Fiumara	GCMS1G	09/26/23 17:57	Load on Instrument
JD73381-9.3	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-10.1	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-10.1	Secured Storage	Camille Fiumara	09/26/23 17:57	Retrieve from Storage
JD73381-10.1	Camille Fiumara	GCMS1G	09/26/23 17:57	Load on Instrument
JD73381-10.2	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-10.3	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-11.1	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-11.1	Secured Storage	Kinjal Desai	09/28/23 17:15	Retrieve from Storage
JD73381-11.1	Kinjal Desai	GCMS1K	09/28/23 17:15	Load on Instrument
JD73381-11.1	GCMS1K	Camille Fiumara	09/29/23 16:17	Unload from Instrument
JD73381-11.1	Camille Fiumara	Secured Storage	09/29/23 16:17	Return to Storage
JD73381-11.2	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-11.2	Secured Storage	Camille Fiumara	09/26/23 17:57	Retrieve from Storage
JD73381-11.2	Camille Fiumara	GCMS1G	09/26/23 17:57	Load on Instrument
JD73381-11.3	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage

SGS Internal Chain of Custody

Page 4 of 5

Job Number: JD73381
Account: WSPENYC WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Received: 09/22/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD73381-12.1	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-12.2	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-12.2	Secured Storage	Camille Fiumara	09/26/23 17:57	Retrieve from Storage
JD73381-12.2	Camille Fiumara	GCMS1G	09/26/23 17:57	Load on Instrument
JD73381-12.3	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-13.1	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-13.2	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-13.2	Secured Storage	Camille Fiumara	09/26/23 17:57	Retrieve from Storage
JD73381-13.2	Camille Fiumara	GCMS1G	09/26/23 17:57	Load on Instrument
JD73381-13.3	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-14.1	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-14.1	Secured Storage	Kinjal Desai	09/28/23 17:15	Retrieve from Storage
JD73381-14.1	Kinjal Desai	GCMS1K	09/28/23 17:15	Load on Instrument
JD73381-14.1	GCMS1K	Camille Fiumara	09/29/23 16:17	Unload from Instrument
JD73381-14.1	Camille Fiumara	Secured Storage	09/29/23 16:17	Return to Storage
JD73381-14.2	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-14.2	Secured Storage	Camille Fiumara	09/26/23 17:57	Retrieve from Storage
JD73381-14.2	Camille Fiumara	GCMS1G	09/26/23 17:57	Load on Instrument
JD73381-14.3	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-15.1	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-15.1	Secured Storage	Kinjal Desai	09/28/23 17:15	Retrieve from Storage
JD73381-15.1	Kinjal Desai	GCMS1K	09/28/23 17:15	Load on Instrument
JD73381-15.1	GCMS1K	Camille Fiumara	09/29/23 16:17	Unload from Instrument
JD73381-15.1	Camille Fiumara	Secured Storage	09/29/23 16:17	Return to Storage
JD73381-15.2	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-15.2	Secured Storage	Camille Fiumara	09/26/23 17:57	Retrieve from Storage
JD73381-15.2	Camille Fiumara	GCMS1G	09/26/23 17:57	Load on Instrument
JD73381-15.3	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-16.1	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-16.1	Secured Storage	Kinjal Desai	09/28/23 17:15	Retrieve from Storage
JD73381-16.1	Kinjal Desai	GCMS1K	09/28/23 17:15	Load on Instrument
JD73381-16.1	GCMS1K	Camille Fiumara	09/29/23 16:17	Unload from Instrument

SGS Internal Chain of Custody

Job Number: JD73381
Account: WSPENYC WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Received: 09/22/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD73381-16.1	Camille Fiumara	Secured Storage	09/29/23 16:17	Return to Storage
JD73381-16.2	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage
JD73381-16.2	Secured Storage	Camille Fiumara	09/26/23 17:57	Retrieve from Storage
JD73381-16.2	Camille Fiumara	GCMS1G	09/26/23 17:57	Load on Instrument
JD73381-16.3	Suresh Patel	Secured Storage	09/22/23 23:07	Return to Storage

4.3
4

DECEMBER 2023 – MW-19B

GROUNDWATER DATA

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

WSP USA Environment & Infrastructure Inc

Emersub 15, LLC, Ithaca, NY

31405608.001/Task 02

SGS Job Number: JD79705

Sampling Date: 12/27/23



Report to:

WSP USA
7000 E. GENESEE STREET BUILDING D, 2ND FLOOR
FAYETTEVILLE, NY 13066
Amy.Romano@WSPGroup.com; Jeffrey.Baker@WSP.com;
Elliott.Martynkiewicz@wsp.com
ATTN: Amy Romano

Total number of pages in report: 44



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

David Chastain
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129),NY(10983),CA,CO,CT,FL,HI,IL,IN,KY,LA (120428),MA,MD,ME,MN,NC,NH,NV, AK (UST-103),AZ (AZ0786),PA(68-00408),RI,SC,TX (T104704234),UT,VA,WA,WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary 3

Section 2: Case Narrative/Conformance Summary 4

Section 3: Summary of Hits 5

Section 4: Sample Results 6

4.1: JD79705-1: MW-19B 7

Section 5: Misc. Forms 8

5.1: Chain of Custody 9

5.2: Sample Tracking Chronicle 11

5.3: Internal Chain of Custody 12

Section 6: General Chemistry - QC Data Summaries 13

6.1: Method Blank and Spike Results Summary 14

6.2: Duplicate Results Summary 15

6.3: Matrix Spike Results Summary 16

6.4: Inst QC GN49837: Cyanide 17

Section 7: General Chemistry - Raw Data 21

7.1: Raw Data GN49837: Cyanide 22



Sample Summary

WSP USA Environment & Infrastructure Inc

Job No: JD79705

Emersub 15, LLC, Ithaca, NY
Project No: 31405608.001/Task 02

Sample Number	Collected		Matrix Code	Type	Client Sample ID
	Date	Time By			
JD79705-1	12/27/23	11:07 KGG	12/28/23	AQ Ground Water	MW-19B

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: WSP USA Environment & Infrastructure Inc

Job No: JD79705

Site: Emersub 15, LLC, Ithaca, NY

Report Date 1/2/2024 10:52:04 AM

On 12/28/2023, 1 sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 4.7 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JD79705 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

General Chemistry By Method EPA 335.4/LACHAT

Matrix: AQ

Batch ID: GP51322

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) LA96667-1DUP, LA96667-1MS were used as the QC samples for the Cyanide analysis.
- The matrix spike (MS) recovery(s) of Cyanide are outside control limits. Spike recovery indicates possible matrix interference.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JD79705
Account: WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Collected: 12/27/23



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD79705-1	MW-19B					
Cyanide		91.2	3.2	1.3	mg/l	EPA 335.4/LACHAT



Dayton, NJ

Section 4

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-19B	Date Sampled:	12/27/23
Lab Sample ID:	JD79705-1	Date Received:	12/28/23
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emersub 15, LLC, Ithaca, NY		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	91.2	3.2	1.3	mg/l	320	12/30/23 14:27 SS	EPA 335.4/LACHAT	

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Misc. Forms

5

Custody Documents and Other Forms

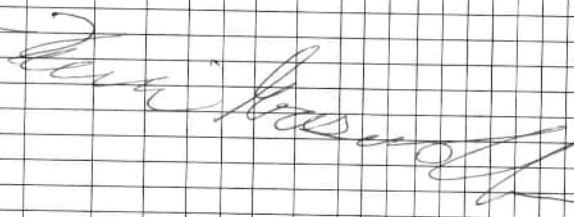
Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody



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

Page 1 of 1

FED-EX Tracking # 7803 7834 1779 Bottle Count / Sample # 181 - 12123-128		2235 Route 130, Dayton, NJ 08510 TEL. 732-329-0200 www.sgs.com/vehusa		Client / Reporting Information Company Name: WSP USA Inc Street Address: 13530 Dulles Technology Drive City State Zip: Herndon VA 20171 Project Contact: Elliott Markowitz Phone #: 716-380-8095 Sample(s) Name(s): Kevin Griswold		Project Information Project Name: EMERSON (Ithaca) Street: 620 South Aurora City State Zip: Ithaca NY Billing Information (if different from Report to): Company Name: WSP USA Inc Street Address: 13530 Dulles Technology Drive City State Zip: Herndon VA 20171 Client Purchase Order #: _____ Attention: Environment Accounts Payable		Matrix Codes DW - Drinking Water GW - Ground Water WW - Wastewater SW - Surface Water SO - Soil SL - Sludge SED - Sediment LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Waste FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank																																													
		Collection		Number of Bottles		pH Check (Lab Use Only)																																															
NDS Sample #	Field ID / Point of Collection	METHOD/VOL	Date	Time	Sampled By	Gross Weight (g)	Net Weight (g)	Matrix	# of bottles	HCl	NaOH	H ₂ O ₂	NO ₂ -N	Di-Nitrate	MECH	ENCODED																																					
1	MW-19B		12/27/23	1107	KGG	6	N/GW	1	1								X																																				
																																																					
Turn Around Time (Business Days) ☐ 10 Business Days ☐ 5 Business Days ☐ 3 Business Days* ☐ 2 Business Days* ☐ 1 Business Day* ☒ Other 7 Business Days All data available via SGS Engage		Approved By (SGS PM) / Date: _____ _____ _____ _____ _____		☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☐ NJ Reduced (Level 3) ☐ Full Tier I (Level 4) ☐ Commercial "C" ☐ NJ KOP		Deliverable ☐ NYASP Category A ☒ NYASP Category B ☐ MA MCP Criteria ☐ CT RCP Criteria ☐ State Forms ☐ EDD Format		Comments / Special Instructions Initial Assessment Label Verification SARA																																													
* Approval needed for 1-3 BD TAT Commercial "A" = Results only. Commercial "B" = Results + QC Summary Commercial "C" = Results + QC Summary + Passive Data data																																																					
Sample Custody must be documented below each time samples change possession, including courier delivery. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Relinquished by:</th> <th>Date / Time:</th> <th>Received By:</th> <th>Relinquished by:</th> <th>Date / Time:</th> <th>Received By:</th> <th>Relinquished by:</th> <th>Date / Time:</th> <th>Received By:</th> </tr> </thead> <tbody> <tr> <td>1. Kevin Griswold</td> <td>12/27/23 0150</td> <td>1. Fed Ex</td> <td>2. Fed Ex</td> <td>10:30</td> <td>2. JAMES KWON</td> <td>3. JAMES KWON</td> <td>12/28/23</td> <td>4. JAMES KWON</td> </tr> <tr> <td>3. _____</td> <td>_____</td> <td>3. _____</td> <td>4. _____</td> <td>_____</td> <td>4. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>5. _____</td> <td>_____</td> <td>5. _____</td> <td>Custody Seal #</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> </tbody> </table>																		Relinquished by:	Date / Time:	Received By:	Relinquished by:	Date / Time:	Received By:	Relinquished by:	Date / Time:	Received By:	1. Kevin Griswold	12/27/23 0150	1. Fed Ex	2. Fed Ex	10:30	2. JAMES KWON	3. JAMES KWON	12/28/23	4. JAMES KWON	3. _____	_____	3. _____	4. _____	_____	4. _____	_____	_____	_____	5. _____	_____	5. _____	Custody Seal #	_____	_____	_____	_____	_____
Relinquished by:	Date / Time:	Received By:	Relinquished by:	Date / Time:	Received By:	Relinquished by:	Date / Time:	Received By:																																													
1. Kevin Griswold	12/27/23 0150	1. Fed Ex	2. Fed Ex	10:30	2. JAMES KWON	3. JAMES KWON	12/28/23	4. JAMES KWON																																													
3. _____	_____	3. _____	4. _____	_____	4. _____	_____	_____	_____																																													
5. _____	_____	5. _____	Custody Seal #	_____	_____	_____	_____	_____																																													
Intact: ☐ Not Intact: ☐ Aliquot: ☐ Therm ID: _____ On Ice: ☐ Cooler Temp: °C 4.7 See Sample Receipt Summary																																																					

EHSA-DAC-0023-05 Rev. Date 11/5/22

FB-40

JD79705: Chain of Custody

Page 1 of 2



9 of 44

JD79705

SGS Sample Receipt Summary

Job Number: JD79705

Client: WSP USA

Project: EMERSUB 15, LLC, ITHACA, NY

Date / Time Received: 12/28/2023 10:30:00 AM

Delivery Method: FED EX

Airbill #'s: 7003 7834 1779

Cooler Temps (Raw Measured) °C: Cooler 1: (4.7);

Cooler Temps (Corrected) °C: Cooler 1: (4.7);

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

JD79705: Chain of Custody

Page 2 of 2

Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

Job No: JD79705

Emersub 15, LLC, Ithaca, NY
Project No: 31405608.001/Task 02

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD79705-1	Collected: 27-DEC-23 11:07	By: KGG	Received: 28-DEC-23	By: JK		
MW-19B						
JD79705-1	EPA 335.4/LACHAT	30-DEC-23 14:27	SS	29-DEC-23	MB	CN

SGS Internal Chain of Custody

Job Number: JD79705
Account: WSPENYC WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY
Received: 12/28/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD79705-1.1	Erica Aanestad	Secured Storage	12/28/23 13:26	Return to Storage
JD79705-1.1	Secured Storage	Dave Hunkele	12/29/23 06:02	Retrieve from Storage
JD79705-1.1	Dave Hunkele	Secured Staging Area	12/29/23 06:02	Return to Storage
JD79705-1.1	Secured Staging Area	Melanie Buen	12/29/23 10:14	Retrieve from Storage
JD79705-1.1	Melanie Buen	Secured Storage	12/29/23 14:54	Return to Storage

5.3
5

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD79705
Account: WSPENYC - WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Cyanide	GP51322/GN49837	0.010	0.0	mg/l	0.2	0.189	94.5	90-110%

Associated Samples:
Batch GP51322: JD79705-1
(*) Outside of QC limits

6.1
6

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD79705
Account: WSPENYC - WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Cyanide	GP51322/GN49837	LA96667-1	mg/l	0.0	0.0	0.0	0-32%

Associated Samples:
Batch GP51322: JD79705-1
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD79705
Account: WSPENYC - WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Cyanide	GP51322/GN49837	LA96667-1	mg/l	0.0	0.2	0.062	31.0N(a)	90-110%

Associated Samples:

Batch GP51322: JD79705-1

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(a) Spike recovery indicates possible matrix interference.

6.3

6

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD79705

Account: WSPENYC - WSP USA Environment & Infrastructure Inc

Project: Emersub 15, LLC, Ithaca, NY

File ID: D123023W1.CN

Date Analyzed: 12/30/23

Methods: EPA 335.4/LACHAT, SW846 9012B/LACHAT

Analyst: SS

Run ID: GN49837

Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:41	GN49837-STD1	1		STDA
12:42	GN49837-STD2	1		STDC
12:43	GN49837-STD3	1		STDB
12:44	GN49837-STD4	1		STDD
12:45	GN49837-STD5	1		STDE
12:46	GN49837-STD6	1		STDF
12:47	GN49837-STD7	1		STDG
12:48	GN49837-ICV1	1		
12:49	GN49837-ICB1	1		
12:50	GN49837-CCV1	1		
12:51	GN49837-CCB1	1		
12:52	GP51324-MB1	1		
12:53	GP51324-S1	1		
12:54	GP51324-S2	1		
12:55	GP51324-D1	1		
12:56	GP51324-B1	1		
12:57	JD79463-1	1		(sample used for QC only; not part of login JD79705)
12:58	ZZZZZZ	1		
12:59	ZZZZZZ	1		
13:00	ZZZZZZ	1		
13:01	GN49837-CCV2	1		
13:02	GN49837-CCB2	1		
13:03	ZZZZZZ	1		
13:03	ZZZZZZ	1		
13:04	JD79344-1	1		(sample used for QC only; not part of login JD79705)
13:05	ZZZZZZ	1		
13:06	ZZZZZZ	1		
13:07	ZZZZZZ	1		
13:08	ZZZZZZ	1		
13:09	ZZZZZZ	1		
13:10	ZZZZZZ	1		
13:11	ZZZZZZ	1		
13:12	GN49837-CCV3	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD79705
Account: WSPENYC - WSP USA Environment & Infrastructure Inc
Project: Emersub 15, LLC, Ithaca, NY

File ID: D123023W1.CN Date Analyzed: 12/30/23 Methods: EPA 335.4/LACHAT, SW846 9012B/LACHAT
Analyst: SS Run ID: GN49837
Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:12	GN49837-CCB3	1		
13:13	ZZZZZZ	1		
13:14	ZZZZZZ	1		
13:15	ZZZZZZ	1		
13:16	ZZZZZZ	1		
13:17	ZZZZZZ	1		
13:18	GP51322-MB1	1		
13:19	GP51322-B1	1		
13:20	GP51322-S1	1		
13:21	GP51322-D1	1		
13:22	LA96667-1	1		(sample used for QC only; not part of login JD79705)
13:23	GN49837-CCV4	1		
13:23	GN49837-CCB4	1		
13:24	ZZZZZZ	1		
13:25	ZZZZZZ	1		
13:26	ZZZZZZ	1		
13:27	ZZZZZZ	1		
13:28	ZZZZZZ	1		
13:29	ZZZZZZ	1		
13:30	ZZZZZZ	1		
13:31	JD79705-1	1		
13:33	GN49837-CCV5	1		
13:34	GN49837-CCB5	1		
14:17	GN49837-CCV6	1		
14:18	GN49837-CCB6	1		
14:21	JD79705-1	20		
14:22	JD79705-1	40		
14:22	ZZZZZZ	1		
14:26	JD79705-1	80		
14:26	JD79705-1	160		
14:27	JD79705-1	320		
14:28	JD79705-1	640		
14:31	GN49837-CCV7	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: JD79705

Account: WSPENYC - WSP USA Environment & Infrastructure Inc

Project: Emersub 15, LLC, Ithaca, NY

File ID: D123023W1.CN

Date Analyzed: 12/30/23

Methods: EPA 335.4/LACHAT, SW846 9012B/LACHAT

Analyst: SS

Run ID: GN49837

Parameters: Cyanide

Time	Sample Description	Dilution PS		Comments
		Factor	Recov	

14:32 GN49837-CCB7 1

Refer to raw data for calibration curve and standards.

6.4

6

Instrument QC Summary
Inorganics Analyses

Login Number: JD79705

Account: WSPENYC - WSP USA Environment & Infrastructure Inc

Project: Emersub 15, LLC, Ithaca, NY

File ID: D123023W1.CN

Date Analyzed: 12/30/23

Methods: EPA 335.4/LACHAT, SW846 9012B/LACHAT

Run ID: GN49837

Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN49837-ICV1	Cyanide	0.304	0.010	0.0041	.3	101.3	90-110
GN49837-ICB1	Cyanide	-0.00421	0.010	0.0041			
GN49837-CCV1	Cyanide	0.411	0.010	0.0041	.4	102.8	90-110
GN49837-CCB1	Cyanide	0.0041 U	0.010	0.0041			
GN49837-CCV2	Cyanide	0.402	0.010	0.0041	.4	100.5	90-110
GN49837-CCB2	Cyanide	0.0041 U	0.010	0.0041			
GN49837-CCV3	Cyanide	0.400	0.010	0.0041	.4	100.0	90-110
GN49837-CCB3	Cyanide	-0.00536	0.010	0.0041			
GN49837-CCV4	Cyanide	0.399	0.010	0.0041	.4	99.8	90-110
GN49837-CCB4	Cyanide	-0.00493	0.010	0.0041			
GN49837-CCV5	Cyanide	0.402	0.010	0.0041	.4	100.5	90-110
GN49837-CCB5	Cyanide	0.0041 U	0.010	0.0041			
GN49837-CCV6	Cyanide	0.399	0.010	0.0041	.4	99.8	90-110
GN49837-CCB6	Cyanide	-0.00602	0.010	0.0041			
GN49837-CCV7	Cyanide	0.399	0.010	0.0041	.4	99.8	90-110
GN49837-CCB7	Cyanide	-0.00613	0.010	0.0041			

(!) Outside of QC limits

General Chemistry

Raw Data

7

LABORATORY REVIEW SIGNATURE FORM
(To be stored with the raw data)File ID: D123023W1.CN
Analyst: SSDate Analyzed: 12/30/23
Run ID: GN49837

Methods: EPA 335.4/LACHAT, SW846 9012B/LACHAT

The following analyst(s) have reviewed this run and attest that, to the best of their knowledge, this documentation is complete and correct:

Analyst: JD Date 12/30/23

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

Analyst: _____ Date _____

The following supervisor or their designee has reviewed this run and attests that, to the best of their knowledge, this documentation is complete and correct:

Supervisor (or designee): [Signature] Date 1/2/24

Author: Chemistry

Date : 12/30/2023

Original Run Filename: OM_12-30-2023_12-39-57PM.OMN Created: 12/30/2023 12:39:57 PM

Original Run Author's Signature: [Chemistry]

Current Run Filename: OM_12-30-2023_12-39-57PM.OMN Last Modified: 12/30/2023 2:35:56 PM

Current Run Author's Signature: [Chemistry]

Description: Default new Run

Sample	Rep.	Cup No.	Channel 2 CN	Detection Time	MDF
STDA	1	1	0.800	12/30/2023@12:41:06 PM	
conf	1	2	0.600	12/30/2023@12:42:02 PM	
STDC	1	3	0.400	12/30/2023@12:42:59 PM	
STDB	1	2	0.600	12/30/2023@12:43:54 PM	
STDD	1	4	0.100	12/30/2023@12:44:50 PM	
STDE	1	5	0.0200	12/30/2023@12:45:45 PM	
STDF	1	6	0.0100	12/30/2023@12:46:40 PM	
STDG	1	7	0.00	12/30/2023@12:47:35 PM	
ICV	1	8	0.304	12/30/2023@12:48:30 PM	
Known Conc:			0.300		
ICB	1	9	-4.21e-3	12/30/2023@12:49:24 PM	
Known Conc:			0.00		
CCV	1	10	0.411	12/30/2023@12:50:19 PM	
Known Conc:			0.400		
CCB	1	11	-3.51e-3	12/30/2023@12:51:13 PM	
Known Conc:			0.00		
GP51324-MB1	1	12	1.89e-3	12/30/2023@12:52:06 PM	
conf	1	13	0.0169	12/30/2023@12:53:00 PM	
GP51324-S1	1	14	0.0581	12/30/2023@12:53:53 PM	
GP51324-S2	1	15	0.0494	12/30/2023@12:54:47 PM	
GP51324-D1	1	16	4.65e-3	12/30/2023@12:55:41 PM	
GP51324-B1	1	13	0.202	12/30/2023@12:56:36 PM	
JD79463-1	1	17	0.0109	12/30/2023@12:57:31 PM	
JD79463-2	1	18	5.75e-3	12/30/2023@12:58:27 PM	
JD79463-3	1	19	3.33e-3	12/30/2023@12:59:22 PM	
JD79331-3	1	20	3.35e-3	12/30/2023@1:00:18 PM	
CCV	1	10	0.402	12/30/2023@1:01:12 PM	
Known Conc:			0.400		
CCB	1	11	-2.20e-3	12/30/2023@1:02:06 PM	
Known Conc:			0.00		
JD79331-4	1	21	4.87e-3	12/30/2023@1:03:00 PM	
JD79331-5	1	22	1.13e-3	12/30/2023@1:03:55 PM	
JD79344-1	1	23	3.23e-3	12/30/2023@1:04:50 PM	
JD79344-2	1	24	3.47e-3	12/30/2023@1:05:44 PM	
JD79344-3	1	25	3.45e-3	12/30/2023@1:06:39 PM	
JD79344-4	1	26	5.18e-3	12/30/2023@1:07:33 PM	
JD79344-5	1	27	5.51e-3	12/30/2023@1:08:26 PM	
JD79344-6	1	28	5.47e-3	12/30/2023@1:09:20 PM	
JD79344-7	1	29	5.02e-3	12/30/2023@1:10:14 PM	
JD79344-8	1	30	2.13e-3	12/30/2023@1:11:07 PM	
CCV	1	10	0.400	12/30/2023@1:12:01 PM	
Known Conc:			0.400		
CCB	1	11	-5.36e-3	12/30/2023@1:12:54 PM	
Known Conc:			0.00		
JD79344-9	1	31	6.93e-3	12/30/2023@1:13:49 PM	
JD79344-10	1	32	3.06e-3	12/30/2023@1:14:45 PM	
JD79344-11	1	33	3.60e-3	12/30/2023@1:15:41 PM	
JD79344-12	1	34	5.04e-3	12/30/2023@1:16:37 PM	
LA96692-1	1	35	0.0395	12/30/2023@1:17:33 PM	
GP51322-MB1	1	36	1.49e-3	12/30/2023@1:18:28 PM	
GP51322-B1	1	37	0.189	12/30/2023@1:19:23 PM	
GP51322-S1	1	38	0.0618	12/30/2023@1:20:17 PM	
GP51322-D1	1	39	-1.59e-3	12/30/2023@1:21:12 PM	
LA96667-1	1	40	2.91e-3	12/30/2023@1:22:06 PM	
CCV	1	10	0.399	12/30/2023@1:23:00 PM	
Known Conc:			0.400		
CCB	1	11	-4.93e-3	12/30/2023@1:23:54 PM	
Known Conc:			0.00		
LA96673-1	1	41	6.27e-3	12/30/2023@1:24:48 PM	
LA96673-2	1	42	4.83e-4	12/30/2023@1:25:42 PM	

CN
GN49837 / GN49838
d 12 30 23 w1.cn

101.3%

102.8%

out of range

101%

100.5%

100%

99.5%

99.8%

Author: Chemistry

Date : 12/30/2023

LA96383-2	1	43	-5.11e-3	12/30/2023@1:26:35 PM
LA96383-3	1	44	2.88e-3	12/30/2023@1:27:29 PM
LA96383-4	1	45	9.28e-4	12/30/2023@1:28:22 PM
JD79654-1	1	46	7.72e-3	12/30/2023@1:29:16 PM
LA96432-1	1	47	2.02e-3	12/30/2023@1:30:12 PM
JD79705-1	1	48	4.35	12/30/2023@1:31:08 PM
conf	1	49	0.0243	12/30/2023@1:32:04 PM
GP51305-MB1	1	50	8.98e-3	12/30/2023@1:32:59 PM
CCV	1	10	0.402	12/30/2023@1:33:54 PM
Known Conc:			0.400	
CCB	1	11	-1.63e-3	12/30/2023@1:34:48 PM
Known Conc:			0.00	
GP51305-B1	1	51	0.102	12/30/2023@1:35:42 PM
GP51305-D1	1	52	-3.22e-3	12/30/2023@1:36:37 PM
JD79374-1	1	53	-3.45e-3	12/30/2023@1:37:32 PM
JD79127-2	1	54	-3.16e-3	12/30/2023@1:38:26 PM
JD79127-6	1	55	-3.92e-3	12/30/2023@1:39:21 PM
JD79127-10	1	56	-5.16e-3	12/30/2023@1:40:15 PM
Calibration: Table/Fig. : 1				
JD79474-6	1	57	-2.69e-3	12/30/2023@1:41:08 PM
JD79522-1	1	58	-4.72e-3	12/30/2023@1:42:02 PM
JD79522-2	1	59	-1.29e-3	12/30/2023@1:42:55 PM
JD79522-3	1	60	-2.71e-3	12/30/2023@1:43:48 PM
CCV	1	10	0.400	12/30/2023@1:44:42 PM
Known Conc:			0.400	
CCB	1	11	-3.23e-3	12/30/2023@1:45:36 PM
Known Conc:			0.00	
JD79522-4	1	61	-3.02e-3	12/30/2023@1:46:31 PM
JD79522-5	1	62	-3.01e-3	12/30/2023@1:47:27 PM
GP51300-MB1	1	63	-4.14e-3	12/30/2023@1:48:23 PM
GP51300-B1	1	64	0.0978	12/30/2023@1:49:18 PM
GP51300-D1	1	65	-5.49e-3	12/30/2023@1:50:14 PM
JD79491-1	1	66	-5.51e-3	12/30/2023@1:51:09 PM
JD58277-36	1	67	-4.33e-3	12/30/2023@1:52:04 PM
LA96578-1A	1	68	-4.77e-3	12/30/2023@1:52:58 PM
LA96664-1A	1	69	-5.22e-3	12/30/2023@1:53:53 PM
GP51302-MB1	1	70	-3.24e-3	12/30/2023@1:54:47 PM
CCV	1	10	0.397	12/30/2023@1:55:41 PM
Known Conc:			0.400	
CCB	1	11	-2.35e-3	12/30/2023@1:56:35 PM
Known Conc:			0.00	
GP51302-B1	1	71	0.0515	12/30/2023@1:57:29 PM
GP51302-D1	1	72	-7.39e-3	12/30/2023@1:58:23 PM
LA96642-1A	1	73	-7.12e-3	12/30/2023@1:59:16 PM
JD79460-1	1	74	-6.33e-3	12/30/2023@2:00:10 PM
JD79460-3	1	75	-5.98e-3	12/30/2023@2:01:03 PM
JD79460-5	1	76	-6.13e-3	12/30/2023@2:01:58 PM
JD79460-7	1	77	-6.32e-3	12/30/2023@2:02:54 PM
JD79460-9	1	78	-1.63e-3	12/30/2023@2:03:50 PM
JD79460-11	1	79	-6.08e-3	12/30/2023@2:04:45 PM
JD79460-13	1	80	-2.45e-3	12/30/2023@2:05:41 PM
CCV	1	10	0.397	12/30/2023@2:06:36 PM
Known Conc:			0.400	
CCB	1	11	-5.22e-3	12/30/2023@2:07:29 PM
Known Conc:			0.00	
JD79460-15	1	81	-3.46e-3	12/30/2023@2:08:24 PM
JD79460-17	1	82	-3.97e-3	12/30/2023@2:09:18 PM
JD79280-1	1	83	-3.66e-3	12/30/2023@2:10:13 PM
JD79280-2	1	84	-2.62e-3	12/30/2023@2:11:07 PM
JD79280-3	1	85	-5.37e-3	12/30/2023@2:12:02 PM
JD79280-4	1	86	-3.59e-3	12/30/2023@2:12:56 PM
JD79280-5	1	87	-3.89e-3	12/30/2023@2:13:49 PM
LA96474-1A	1	88	-5.15e-3	12/30/2023@2:14:43 PM
JD79463-1	1	89	-6.06e-3	12/30/2023@2:15:37 PM
JD79463-2	1	90	-3.62e-3	12/30/2023@2:16:30 PM
CCV	1	10	0.399	12/30/2023@2:17:25 PM
Known Conc:			0.400	
CCB	1	11	-6.02e-3	12/30/2023@2:18:18 PM

-conf range

-100.5%

CREAC
GN49838
d123023w2-cn

-5.1%

-100%

-4.87%

-99.3%

-2.6%

-99.3%

-99.8%

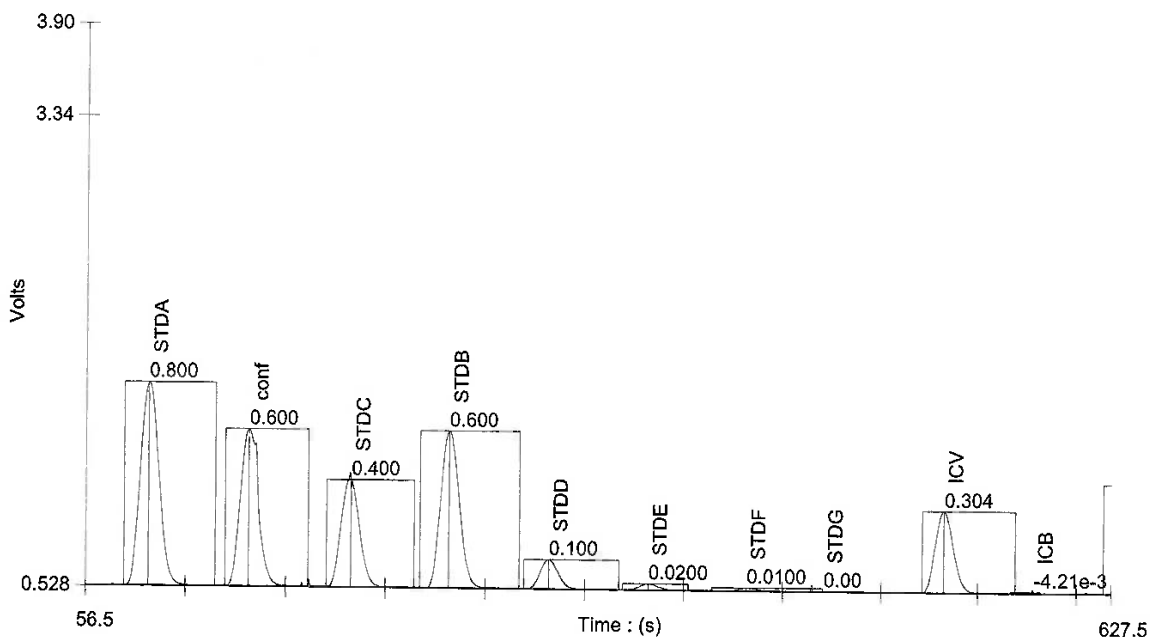
Author: Chemistry

Date : 12/30/2023

	Known Conc:		0.00		
JD79463-3	1	91	-7.15e-3	12/30/2023@2:19:13 PM	
JD79471-6	1	92	-3.88e-3	12/30/2023@2:20:09 PM	
JD79705-1	1	93	2.70	12/30/2023@2:21:05 PM	20.00
JD79705-1	1	94	2.32	12/30/2023@2:22:01 PM	40.00
LA96717-2	1	49	5.03e-3	12/30/2023@2:22:56 PM	
JD79705-1	1	95	1.85	12/30/2023@2:26:01 PM	80.00
JD79705-1	1	96	0.901	12/30/2023@2:26:57 PM	160.00
JD79705-1	1	97	0.285	12/30/2023@2:27:52 PM	320.00
JD79705-1	1	98	0.132	12/30/2023@2:28:47 PM	640.00
CCV	1	10	0.399	12/30/2023@2:31:51 PM	
	Known Conc:		0.400		
CCB	1	11	-6.13e-3	12/30/2023@2:32:45 PM	
	Known Conc:		0.00		

out of range CN
out of range
1 ml sample, 639 ml DI H₂O
5 mL 1:80 sample, 35 mL DI H₂O
99.8%

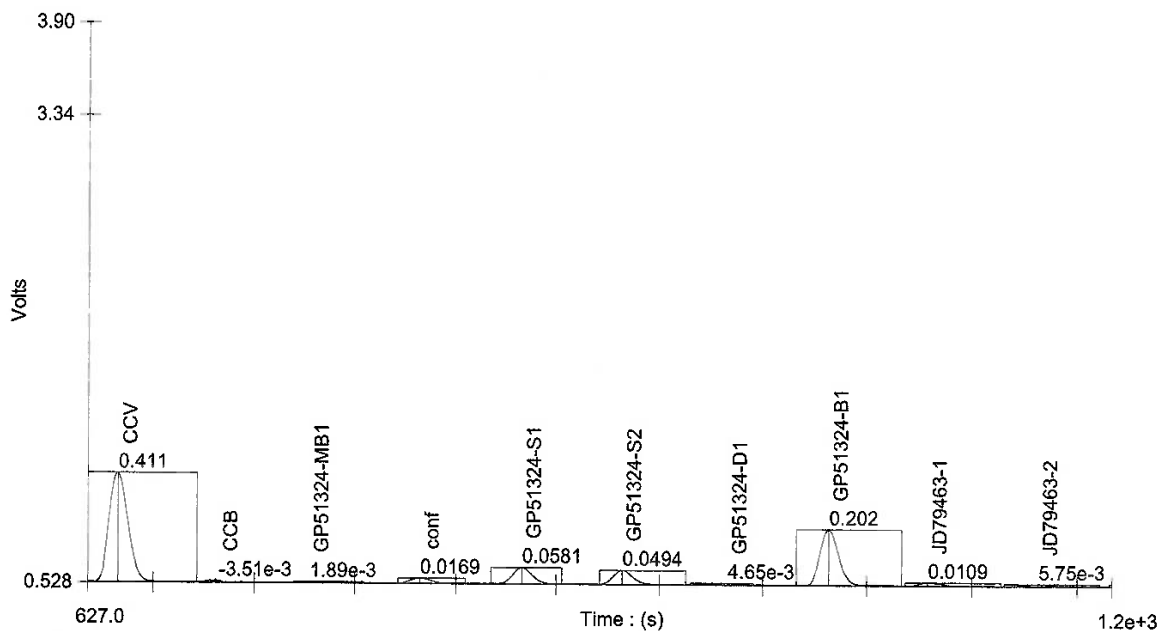
Channel 2 - Set: 1 / 12



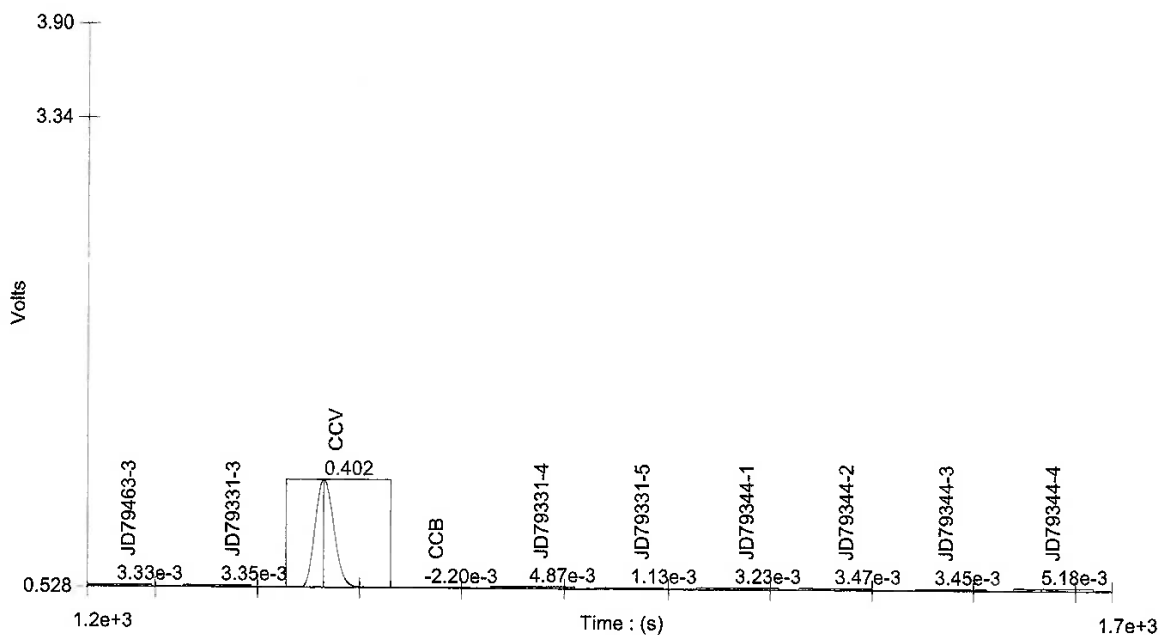
Author: Chemistry

Date : 12/30/2023

Channel 2 - Set: 2 / 12



Channel 2 - Set: 3 / 12

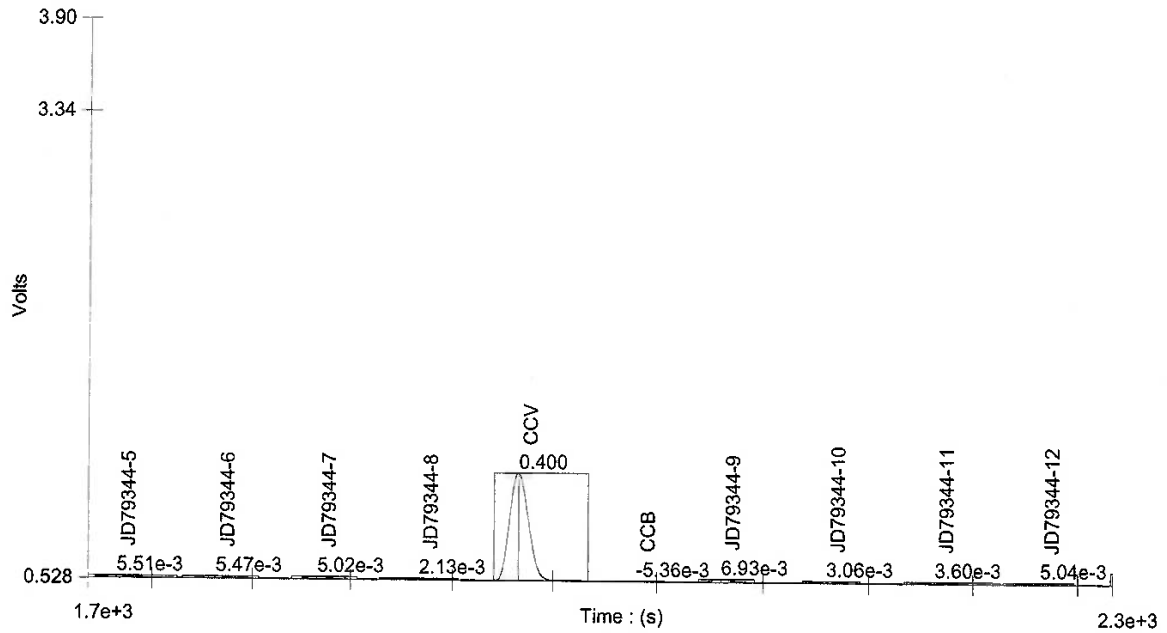


- 4 -

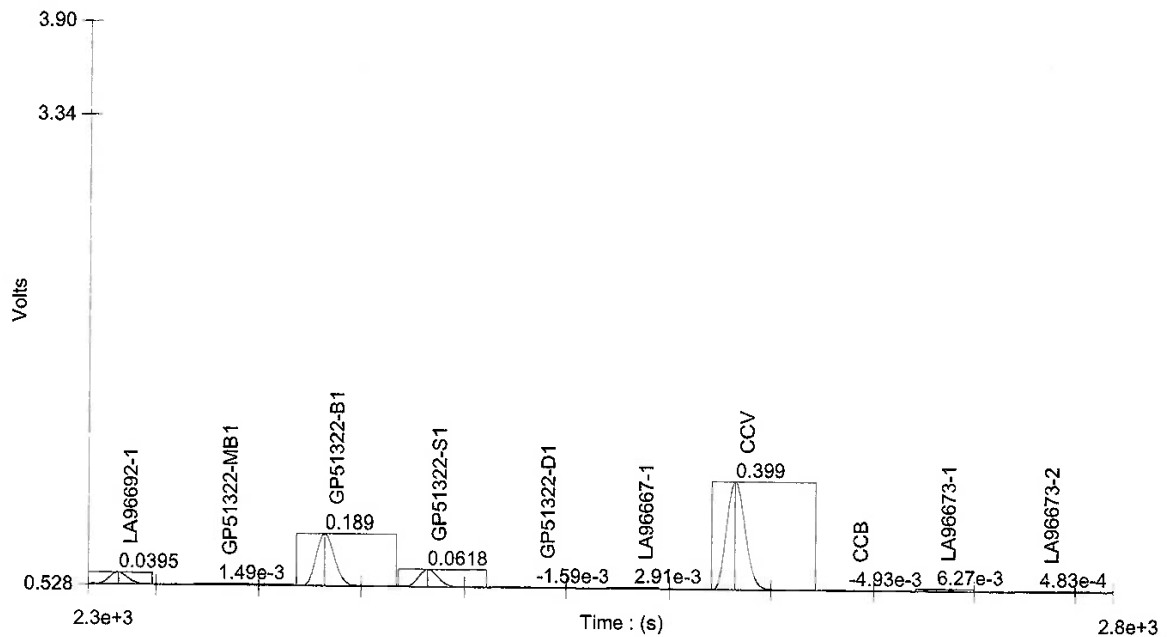
Author: Chemistry

Date : 12/30/2023

Channel 2 - Set: 4 / 12



Channel 2 - Set: 5 / 12

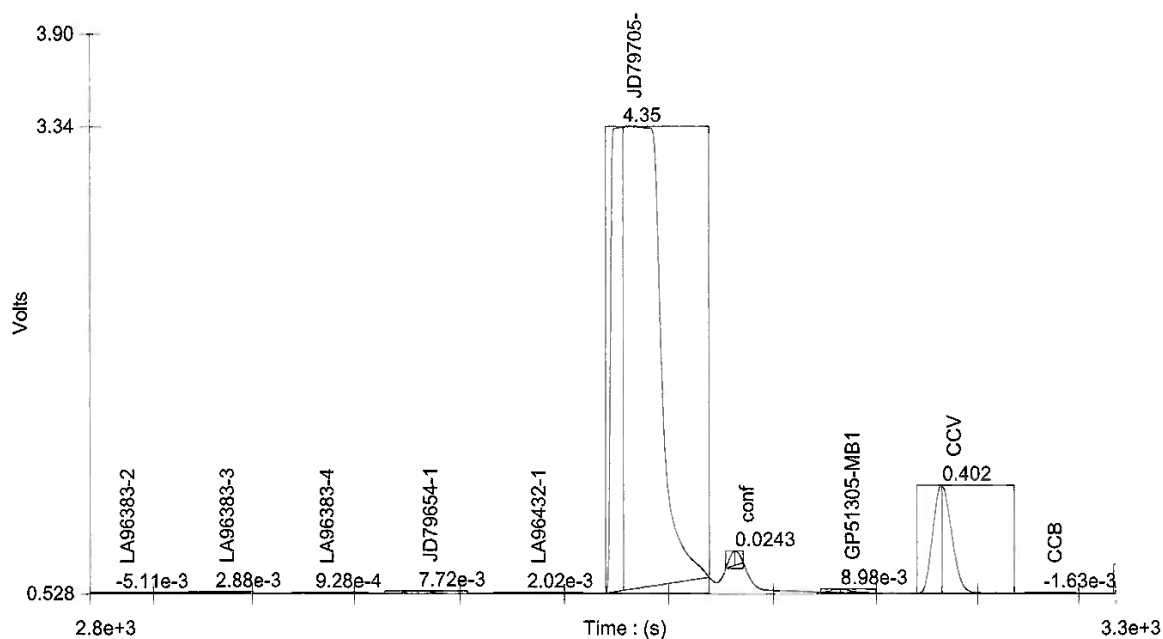


- 5 -

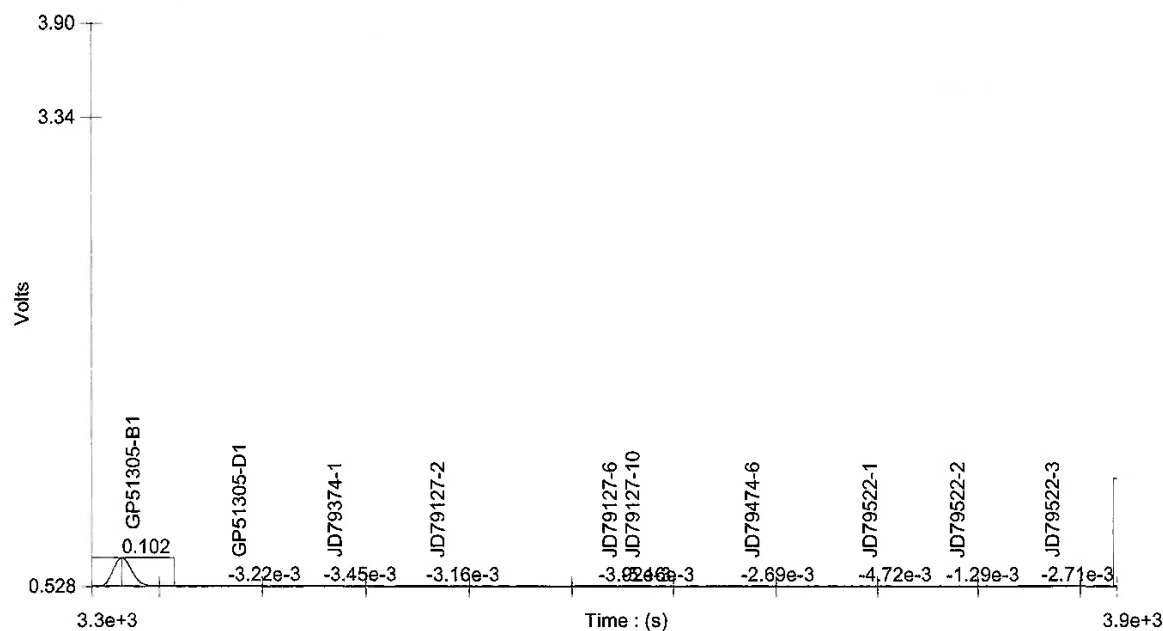
Author: Chemistry

Date : 12/30/2023

Channel 2 - Set: 6 / 12



Channel 2 - Set: 7 / 12

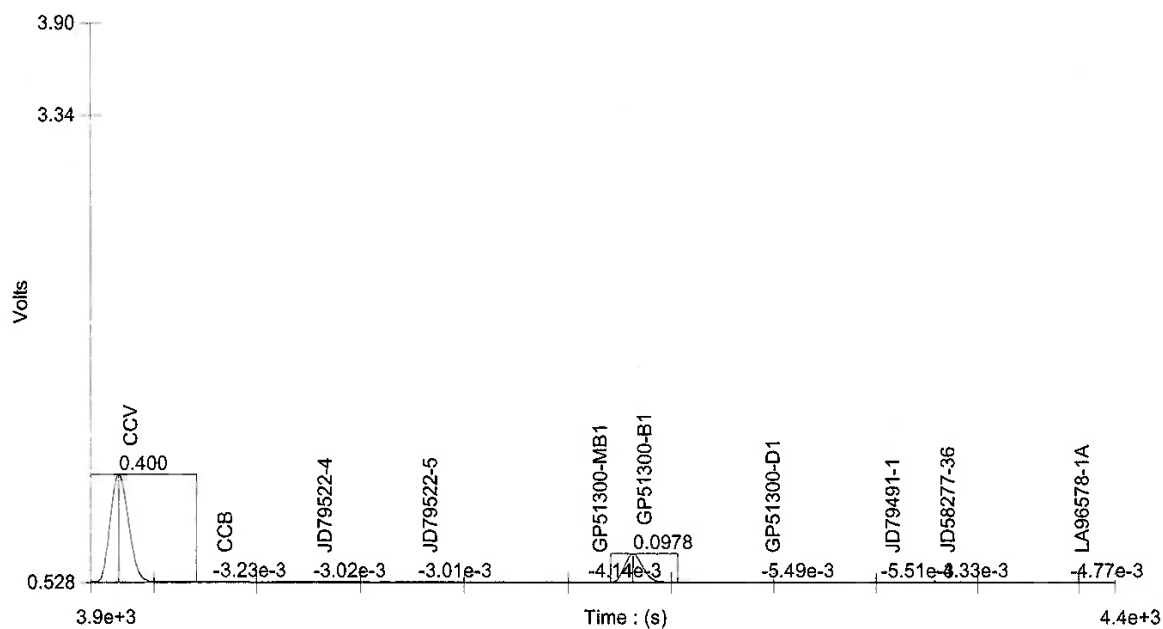


- 6 -

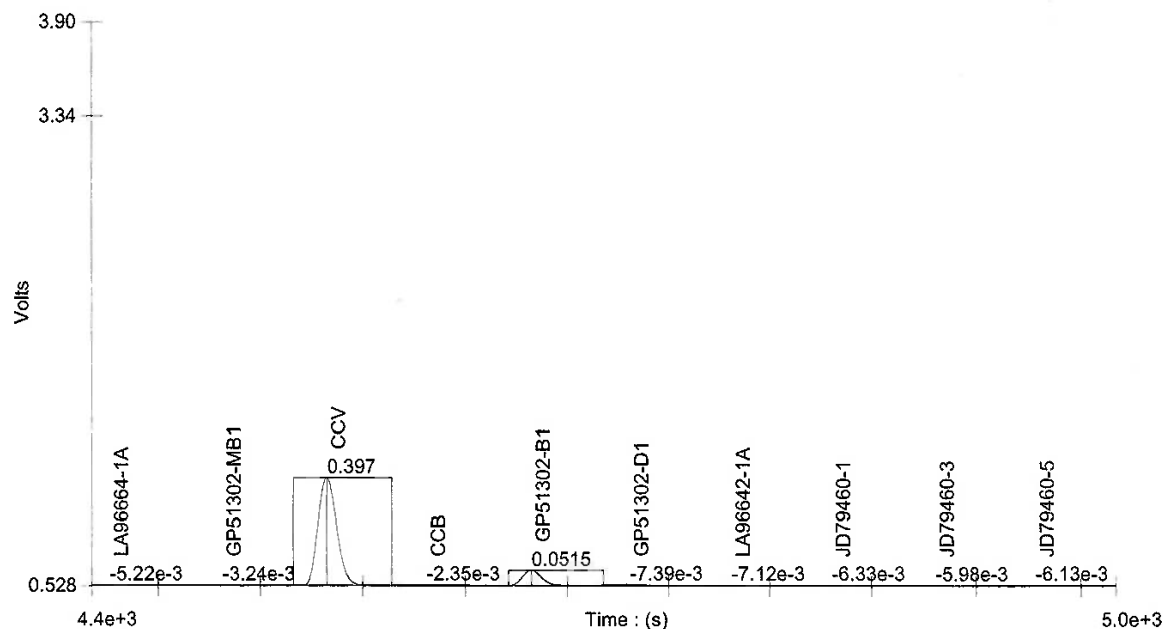
Author: Chemistry

Date : 12/30/2023

Channel 2 - Set: 8 / 12



Channel 2 - Set: 9 / 12

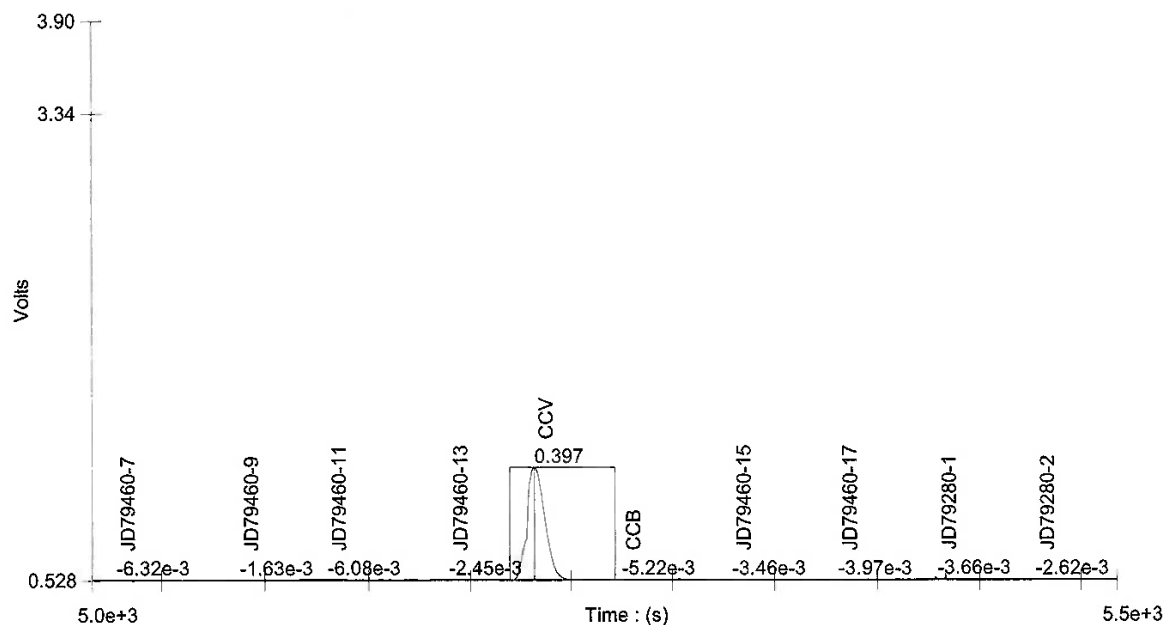


- 7 -

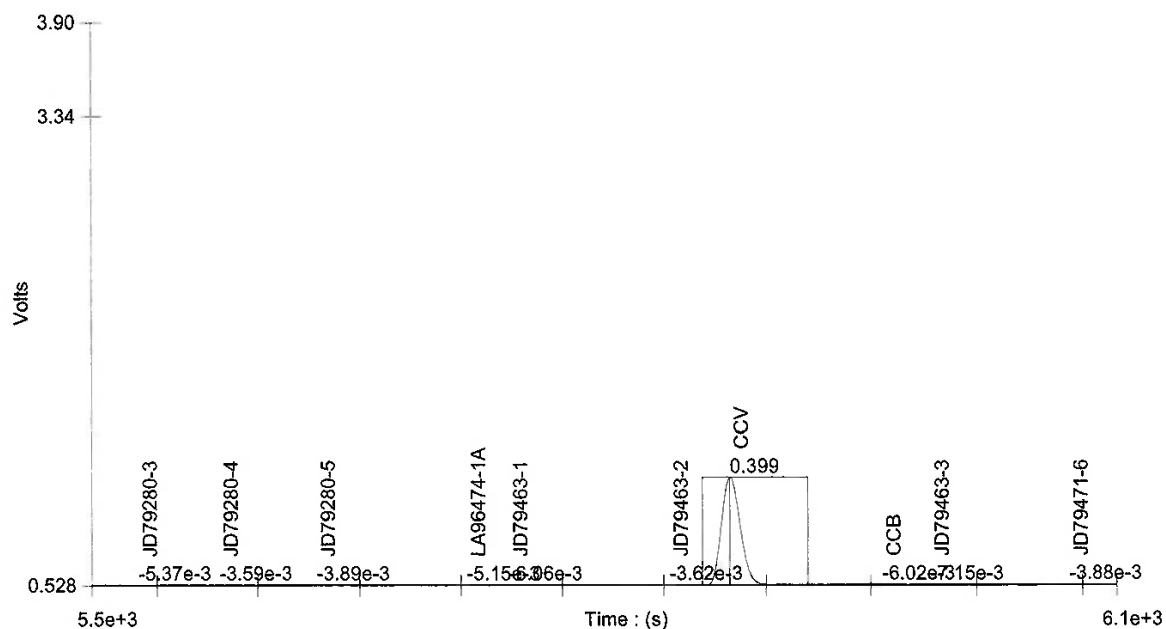
Author: Chemistry

Date : 12/30/2023

Channel 2 - Set: 10 / 12



Channel 2 - Set: 11 / 12



- 8 -

Author: Chemistry

Date : 12/30/2023

Channel 2 - Set: 12 / 12

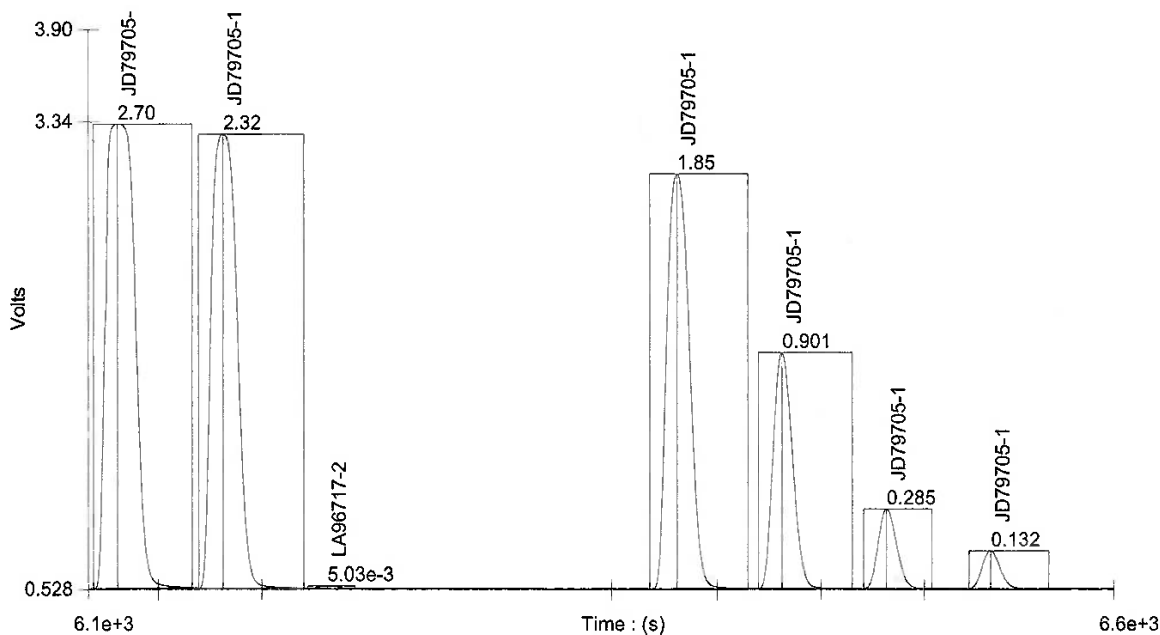
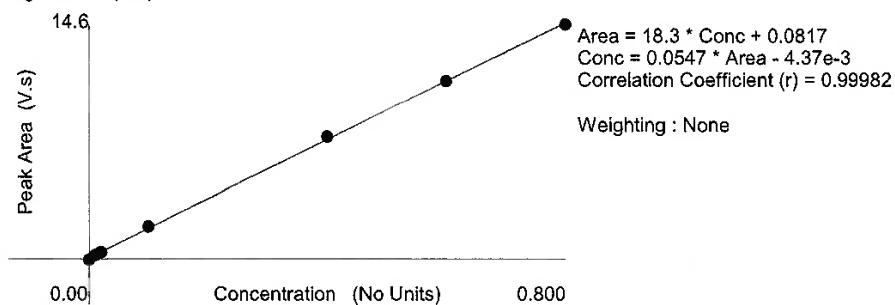


Table : 1 (CN)

	Known Conc. ()	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc ()	Detection Date	Detection Time
1	0.800	1	14.6	1.22	0.0	0.7	0.794	12/30/2023	12:41:06 PM
2	0.600	1	11.0	0.938	0.0	0.0	0.600	12/30/2023	12:43:54 PM
3	0.400	1	7.57	0.645	0.0	-2.5	0.410	12/30/2023	12:42:59 PM
4	0.100	1	2.02	0.176	0.0	-6.1	0.106	12/30/2023	12:44:50 PM
5	0.0200	1	0.412	0.0361	0.0	7.8	0.0182	12/30/2023	12:45:45 PM
6	0.0100	1	0.233	0.0173	0.0	11.8	8.39e-3	12/30/2023	12:46:40 PM
7	0.00	1	-0.0469	-1.80e-3			-6.94e-3	12/30/2023	12:47:35 PM

Figure : 1 (CN)



1975



Batch ID: 695324

Date: 12-29-23
Analyst: MB

CYANIDE DISTILLATION LOG (SOILS- MICRO DISTILLATION)

Autopipette ID: Class A

Method: SW-846 9012B

Block ID (circle): 1 2 3 4

Sample ID	Perform Prior to Distillation				Initial Weight (g)	Final Volume (ml)	Temp °C (a)	Start Time	End Time	QC ID & Spike Amounts	Comments
	pH >12 (Y/N)	Sulfide Present (Y/N) (c)	(d) Sulfamic Acid, H2SO4, MgCl Added (Check v)								
MB1	Y	N	✓		0.25	6	120°	14:32	15:17	MB1	
B1					1					B1: (0.10 ml of 5.0 mg/l (b)	
S1 JD79463-1					0.26					S1: (0.10 ml of 5.0 mg/l)	
S2 JD79344-1					0.29					S2: (0.10 ml of 5.0 mg/l)	
D1 JD79463-1					0.24					D1	
JD79463-1					0.26						
-2					0.25						
-3					0.25						
JD79331-3					0.22						
-4					0.22						
-5					0.29						
JD79344-1					0.26						
-2					0.25						
-3					0.27						
-4					0.30						
-5					0.27						
-6					0.23						
-7					0.24						
-8					0.22						
-9					0.30						
-10					0.23						
-11					0.25						
-12					0.23						
LA96692-1					0.30						

(a) Record temp. from the LED readout on the distillation block.

(b) If the calibration curve is not distilled, then in addition to the BS, you must also prepare two distilled standards using 0.10 ml of 1.0 mg/l & 0.15 ml of 20.0 mg/l.

(c) Check with Lead Acetate strips. Add Cadmium if Sulfide is present.

(d) Add 0.02 g Sulfamic acid, 0.3 ml Conc H2SO4 & 0.24 ml MgCl

Form: GN324-01(formerly GN012-04A) Rev Date: 3/23/23



GENERAL CHEMISTRY STANDARD PREPARATION LOG

Product:

CN

Analyst:

MB

GN/GP number:

GP5334

Prep Date:

16/26/2023

Intermediate Standard Description	Stock used to prepare standard	Stock concentration	Stock expiration date	Stock volume used in ml	Pipette ID*	Diluent	Final Volume	Final Conc. of Intermediate (mg/l)	Standardization Expiration Date	Standardization Date	Standard ID
5 PPM intermediate 5 PPM ext.	GN-10-72835-CN GN-10-72836-CN	1000 mg/l 1000 mg/l	4/25/2024 4/25/2024	1 1	58 58	0.25N NaOH 0.25N NaOH	200 ml 200 ml	5 5	1/2/2024 1/2/2024	12/26/2023 12/26/2023	CN-5-120423 CNE-5-120423
Distilled Stds											
STD A	CN-5-120423	5 mg/l		16.0	56	0.25N NaOH	100 ml	0.8	1/2/2024	12/18/2023	STDA--120423
STD B	CN-5-120423	5 mg/l		12.0	56	0.25N NaOH	100 ml	0.6	1/2/2024	12/18/2023	STDB--120423
STD C	CN-5-120423	5 mg/l		8.0	56	0.25N NaOH	100 ml	0.4	1/2/2024	12/18/2023	STDC--120423
STD D	CN-5-120423	5 mg/l		2.0	56	0.25N NaOH	100 ml	0.1	1/2/2024	12/18/2023	STD--120423
STD E	CN-5-120423	5 mg/l		0.4	58	0.25N NaOH	100 ml	0.02	1/2/2024	12/18/2023	STDE--120423
STD F	CN-5-120423	5 mg/l		0.2	58	0.25N NaOH	100 ml	0.01	1/2/2024	12/18/2023	STDF--120423
Undistilled											
Undistilled ICV	CNE-5-120423	5 mg/l	4/25/2024	6	56	0.25N NaOH	100 ml	0.3	1/2/2024	12/26/2023	ICV-120423
Undistilled CCV	CN-5-120423	5 mg/l	4/25/2024	8	56	0.25N NaOH	100 ml	0.4	1/2/2024	12/26/2023	CCV-120423

*If Class A glass pipettes are used, enter an A.



Reagent Information Log - CN - Distillation

GP Numbers: GP51324

Reagent	Reagent # or Manufacturer/Lot	Expiration date
Silver Nitrate Solution 0.0192 N	GNE10-72558-CN	3/27/2024
Magnesium Chloride Solution	GNE11-73180-CN	5/29/2024
Sulfamic Acid	RICCA 4309G36	4/14/2025
Sulfuric Acid	FISHER 220502	9/6/2024
Sodium Hydroxide 0.25N	GNE10-72594-REAC	4/6/2024
Cadmium Carbonate, Powder	Alfa Aesar 10225597	12/7/2026
Acetic acid buffer	GNE12-73258-CN	6/5/2024
Micro Distillation tubes	env. 221380-3158-AM	N/A
.95 NaOH	GNE12-73281-CN	6/7/2024
Cyanide Stock Solution A - spiking/standards	GNE10-72835-CN	4/25/2024
Cyanide Stock Solution B- externals	GNE10-72836-CN	4/25/2024
Lead Acetate Test Paper	Whatman: 1222	1/4/2028
pH paper - range 12.5 to 14	HYDRION: 210114A	N/A
pH paper - range 1 to 14	HYDRION: 226322	9/15/2025
Benzalrthodanine	Ricca 4305N67	5/24/2024
silica sand	GNE1-53352-XCRA	N/A

Form: GN087A-28

Rev. Date: 03/19/13

Batch ID: GP51322

Date: 12-29-23

Analyst: MB

Autopipette ID: 56

Method EPA 335.4 or SW-846 9012B (Circle Method)

CYANIDE DISTILLATION LOG (WATERS- MICRO DISTILLATION)

Block ID (circle): 1 2 3 4

[illegible]

(a) Record temp. from the LED readout on the distillation block

(b) If the calibration curve is not distilled, then in addition to the BS, you must also prepare two distilled standards using 0.10 ml of 1.0 mg/l & 0.15 ml of 20.0 mg/l

(c) Check with Lead Acetate strips. Add Cadmium if Sulfide is present.

(d) Test with KI paper. Add ascorbic acid if present.

(e) Add 0.02 g Sulfamic acid, 0.3 ml Conc H₂SO₄ & 0.24 ml MgCl

Form: GN012-09 Rev Date 3/23/2023



GENERAL CHEMISTRY STANDARD PREPARATION LOG

Product:

CN

GN/GP number:

G PSI 382

Analyst:

MB

Prep Date:

16/26/2023

Intermediate Standard Description	Stock used to prepare standard	Stock concentration	Stock expiration date	Stock volume used in ml	Pipette ID*	Diluent	Final Volume	Final Conc. of Intermediate (mg/l)	Standardization Expiration Date	Standardization Date	Standard ID
5 PPM intermediate	GN-10-72835-CN	1000 mg/l	4/25/2024	1	58	0.25N NaOH	200 ml	5	1/2/2024	12/26/2023	CN-5-120423
5 PPM ext.	GN-10-72836-CN	1000 mg/l	4/25/2024	1	58	0.25N NaOH	200 ml	5	1/2/2024	12/26/2023	CNE-5-120423
Distilled Stds										Distillation Date	
STD A	CN-5-120423	5 mg/l		16.0	56	0.25N NaOH	100 ml	0.8	1/2/2024	12/18/2023	STDA--120423
STD B	CN-5-120423	5 mg/l		12.0	56	0.25N NaOH	100 ml	0.6	1/2/2024	12/18/2023	STDB--120423
STD C	CN-5-120423	5 mg/l		8.0	56	0.25N NaOH	100 ml	0.4	1/2/2024	12/18/2023	STDC--120423
STD D	CN-5-120423	5 mg/l		2.0	56	0.25N NaOH	100 ml	0.1	1/2/2024	12/18/2023	STDD--120423
STD E	CN-5-120423	5 mg/l		0.4	58	0.25N NaOH	100 ml	0.02	1/2/2024	12/18/2023	STDE--120423
STD F	CN-5-120423	5 mg/l		0.2	58	0.25N NaOH	100 ml	0.01	1/2/2024	12/18/2023	STDF--120423
Undistilled											
Undistilled ICV	CNE-5-120423	5 mg/l	4/25/2024	6	56	0.25N NaOH	100 ml	0.3	1/2/2024	12/26/2023	ICV-120423
Undistilled CCV	CN-5-120423	5 mg/l	4/25/2024	8	56	0.25N NaOH	100 ml	0.4	1/2/2024	12/26/2023	CCV-120423

*If Class A glass pipettes are used, enter an A.



Reagent Information Log - CN - Distillation

GP Numbers: GP51322

Reagent	Reagent # or Manufacturer/Lot	Expiration date
Silver Nitrate Solution 0.0192 N	GNE10-72558-CN	3/27/2024
Magnesium Chloride Solution	GNE11-73180-CN	5/29/2024
Sulfamic Acid	RICCA 4309G36	4/14/2025
Sulfuric Acid	FISHER 220502	9/6/2024
Sodium Hydroxide 0.25N	GNE10-72594-REAC	4/6/2024
Cadmium Carbonate, Powder	Alfa Aesar 10225597	12/7/2026
Acetic acid buffer	GNE12-73258-CN	6/5/2024
Micro Distillation tubes	env. 221380-3158-AM	N/A
.95 NaOH	GNE12-73281-CN	6/7/2024
Cyanide Stock Solution A - spiking/standards	GNE10-72835-CN	4/25/2024
Cyanide Stock Solution B- externals	GNE10-72836-CN	4/25/2024
Lead Acetate Test Paper	Whatman: 1222	1/4/2028
pH paper - range 12.5 to 14	HYDRION: 210114A	N/A
pH paper - range 1 to 14	HYDRION: 226322	9/15/2025
Benzalrthodanine	Ricca 4305N67	5/24/2024
silica sand	GNE1-53352-XCRA	N/A

Form: GN087A-28
Rev. Date: 03/19/13

Batch ID: _____

Autopipette ID: 56

Balance ID: B-99

CREAC → GP51305

SREAC → GP51304

REACTIVITY DISTILLATION LOG (SOILS)

Method: SW846 Chapter 7

[illegible]

Comments: Creac Spike: 20 ml of 1000ppm cyanide stock diluted up to 200ml w/ 0.25N NaOH

Sreac Spike: 2.0g of Sodium Sulfide Nonahydrate diluted up to 500ml w/ DI H2O

QC Reviewer:

Date: _____

Form: GN282-01b

Rev. Date: 02/28/13



Reagent Information Log - CREAC and SREAC Distillations

GP Numbers: CREAC → GP51305 SREAC → GP51304

Reagent	Reagent # or Manufacturer/Lot	Expiration date	Standardization Date
Cyanide Spike Solution	GNE10-72835-CN	4/25/2024	12/4/2023
Sulfide Spike Solution	ACROS lot: A0406150	10/17/2024	NA
Sulfuric Acid, 0.010 N	GNE10-72595-REAC	4/6/2024	NA
Sodium Hydroxide, 0.25 N	GNE10-72594-REAC	4/6/2024	NA

Form: GN087A-64

Rev. Date: 3/12/04

CPK → 6951300

SREAC → GP51301

Method: SW846 Chapter 7

SGS



Reagent Information Log - CREAC and SREAC Distillations

GP Numbers: CREAC → GP51300 SREAC → GP51301

Reagent	Reagent # or Manufacturer/Lot	Expiration date	Standardization Date
Cyanide Spike Solution	GNE10-72835-CN	4/25/2024	12/4/2023
Sulfide Spike Solution	ACROS lot: A0406150	10/17/2024	NA
Sulfuric Acid, 0.010 N	GNE10-72595-REAC	4/6/2024	NA
Sodium Hydroxide, 0.25 N	GNE10-72594-REAC	4/6/2024	NA

Form: GN087A-64
Rev. Date: 3/12/04

CREAC → GP51302
SREAC → GP51303

Method: SW846 Chapter 7

Comments: Creac Spike: 20 ml of 1000ppm cyanide stock diluted up to 200ml w/ 0.25N NaOH
Sreac Spike: 2.0g of Sodium Sulfide Nonahydrate diluted up to 500ml w/ DI H2O

Date: _____

42 of 44

JD79705



Reagent Information Log - CREAC and SREAC Distillations

GP Numbers: CREAC → GP51302

SREAC → GP51303

Reagent	Reagent # or Manufacturer/Lot	Expiration date	Standardization Date
Cyanide Spike Solution	GNE10-72835-CN	4/25/2024	12/4/2023
Sulfide Spike Solution	ACROS lot: A0406150	10/17/2024	NA
Sulfuric Acid, 0.010 N	GNE10-72595-REAC	4/6/2024	NA
Sodium Hydroxide, 0.25 N	GNE10-72594-REAC	4/6/2024	NA

Form: GN087A-64
Rev. Date: 3/12/04



Reagent Information Log - CN Lachat Autoanalyzer

GN Number: **GN49837 / GN49838**

Reagent	Reagent # or Manufacturer/Lot	Expiration date
Pyridine-Bartitric Acid Reagent	GNE8-72007-CN	2/8/2024
Chloramine-T	GNE12-73463-CN	1/4/2024
Phosphate Buffer Solution, 1.0 M	GNE5-71240-CN	5/22/2024
0.25 N Sodium Hydroxide Carrier Solution	GNE12-73464-CN	6/28/2024

Reason codes for data corrections: 1-reviewer error correction; 2-transcription error; 3-computer error; 4-analyst error

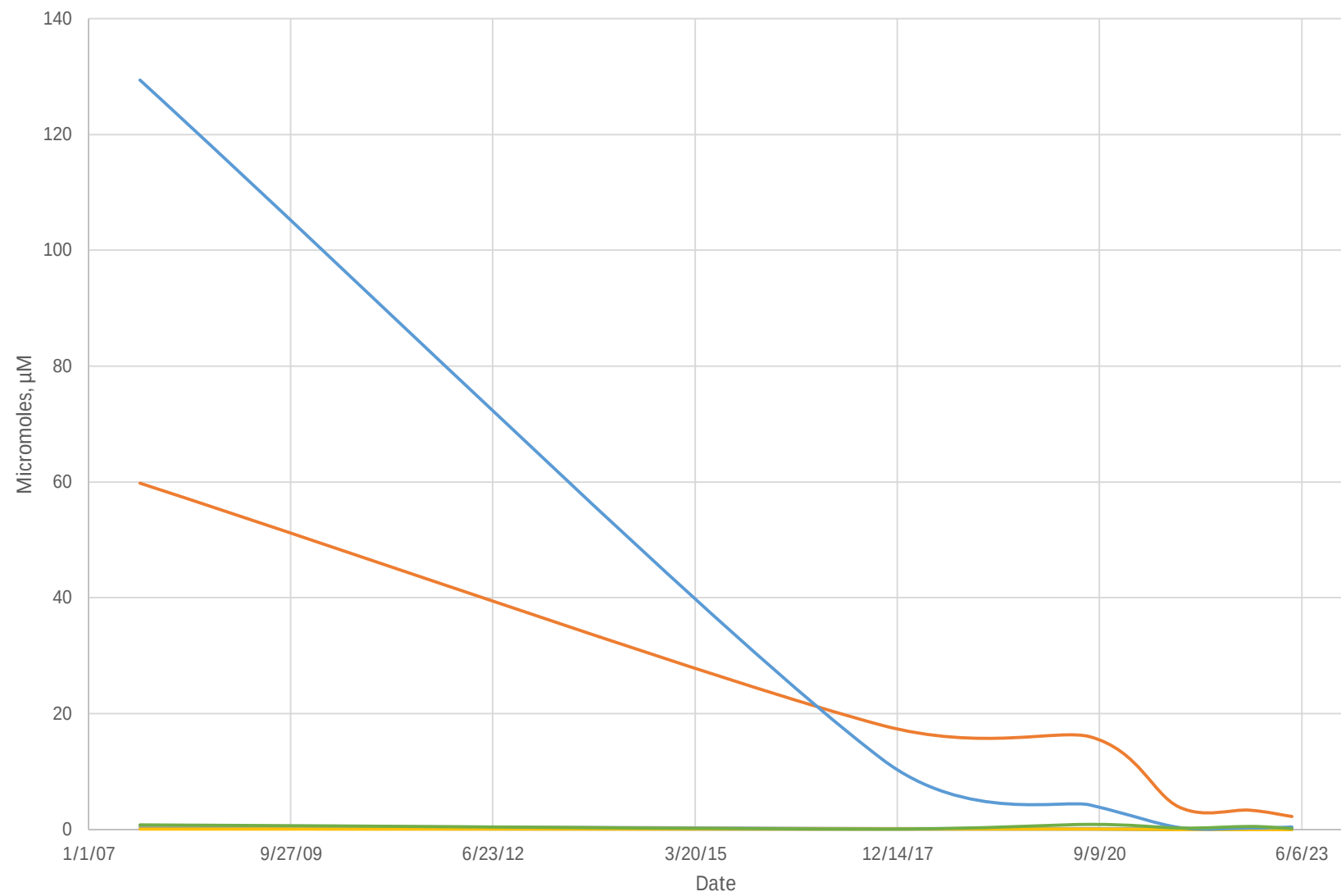
Form: GN087A-27
Rev. Date: 7/19/06

APPENDIX



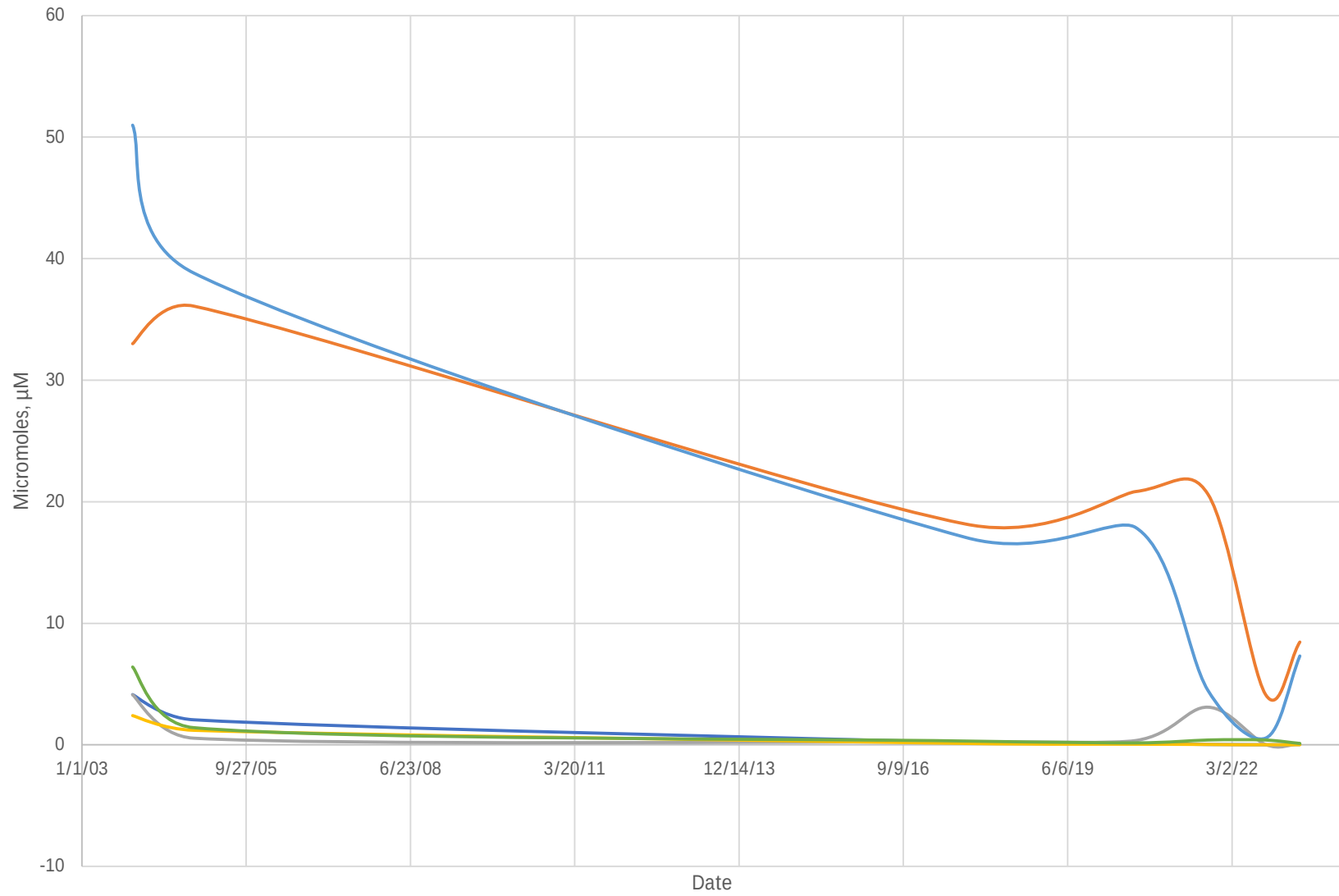
TIME TREND CHARTS

EW-1-62C Trend



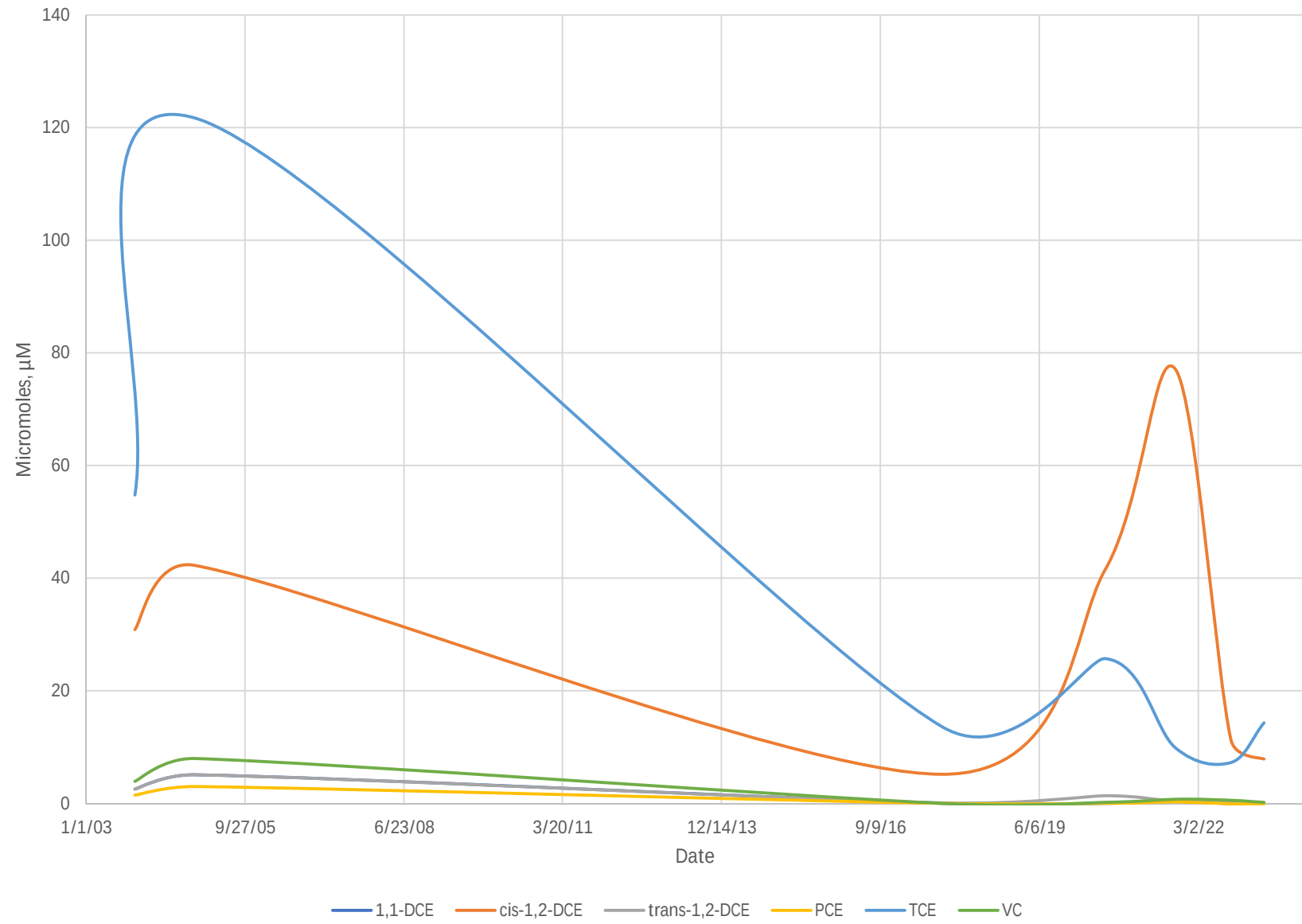
1,1-DCE cis-1,2-DCE trans-1,2-DCE PCE TCE VC

EW-2-62C Trend

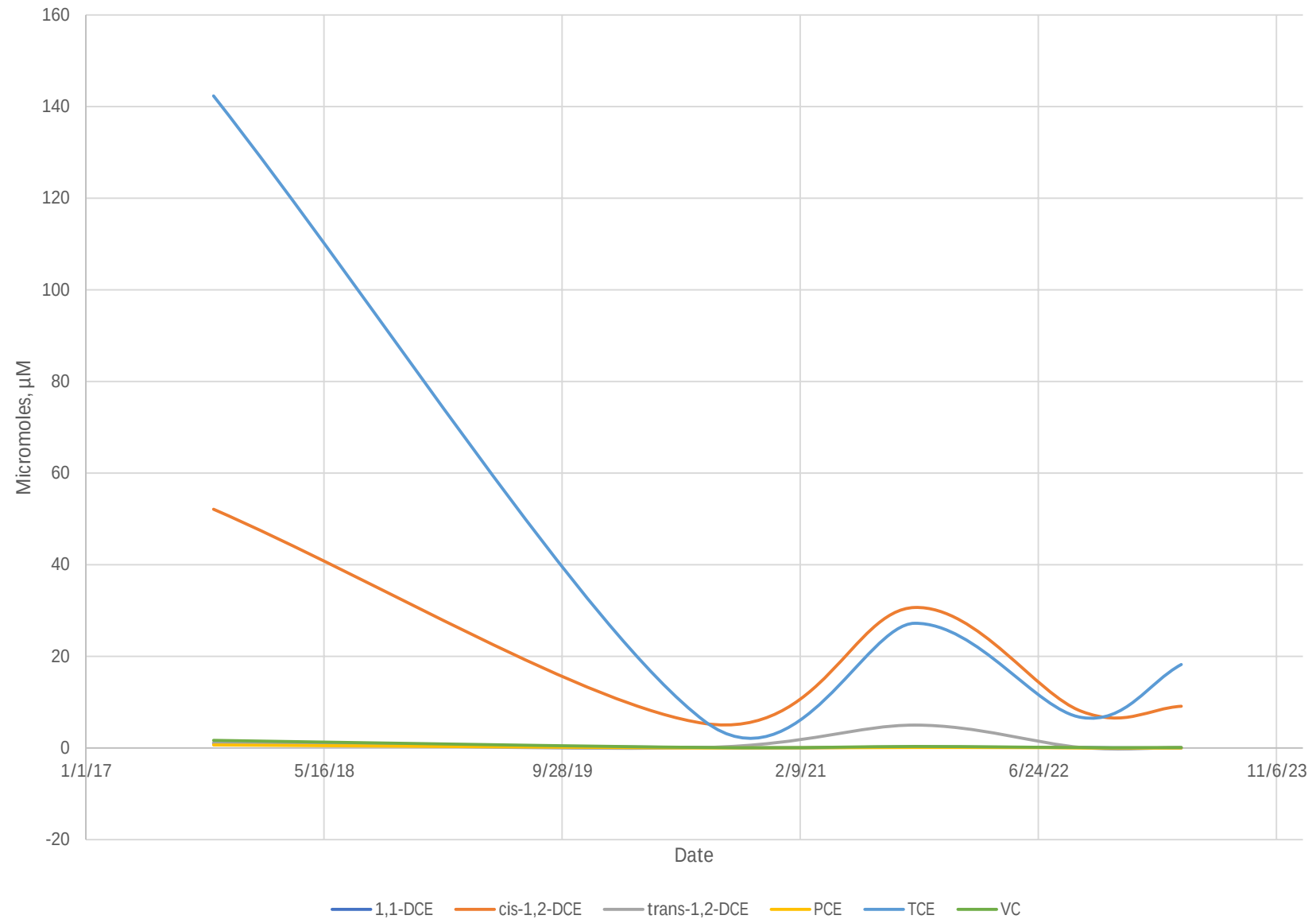


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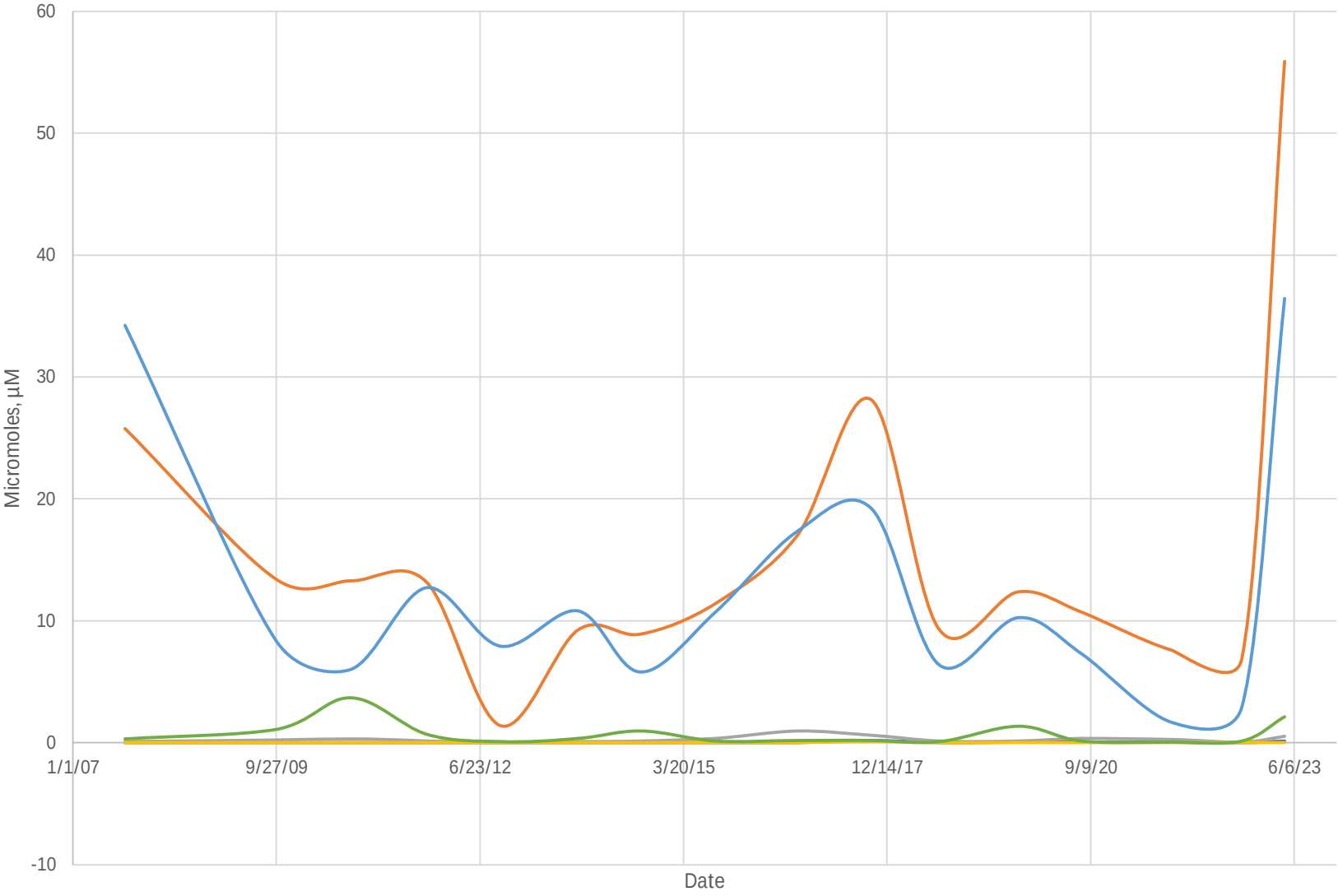
EW-3-60C Trend



EW-4-25B Trend

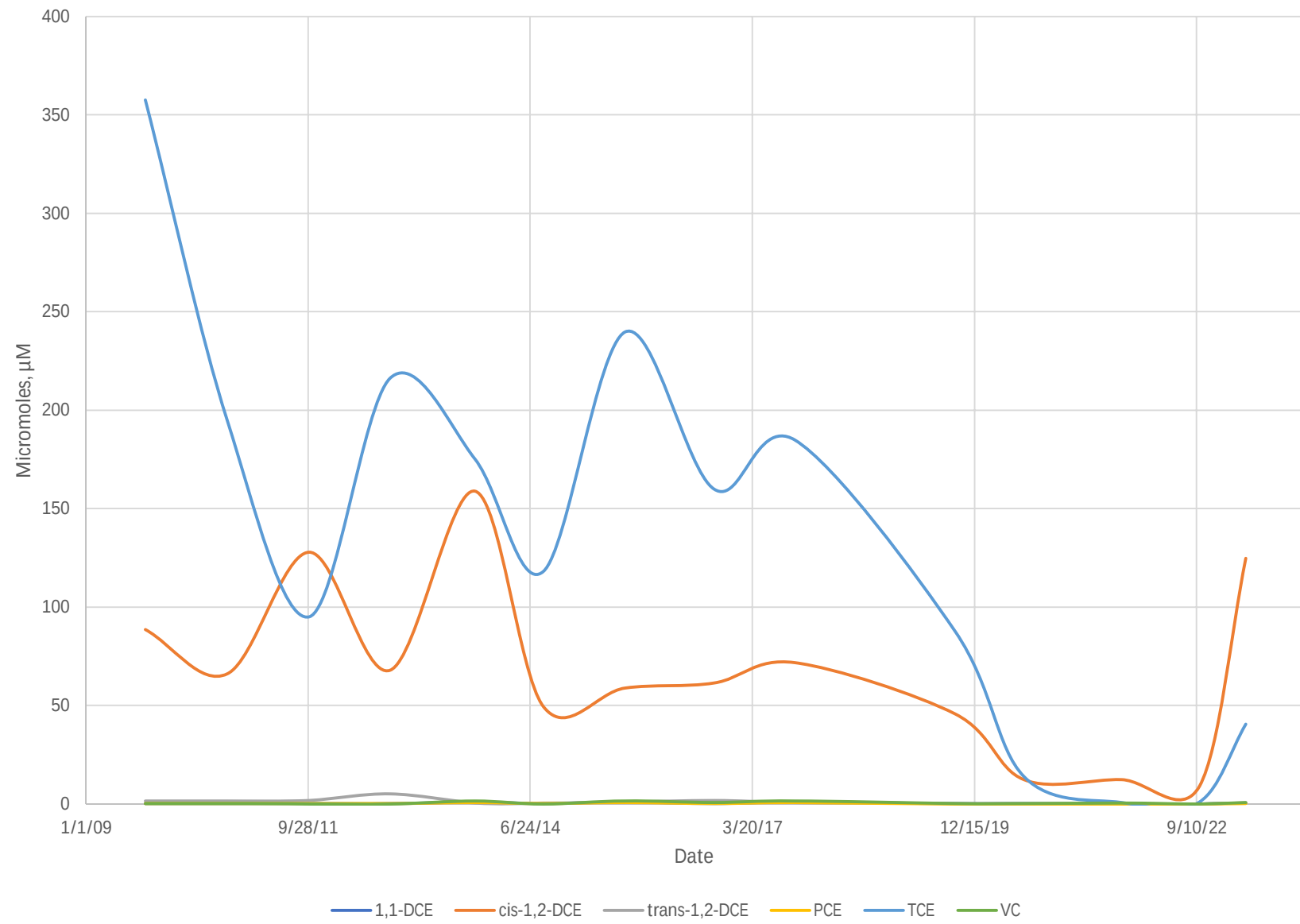


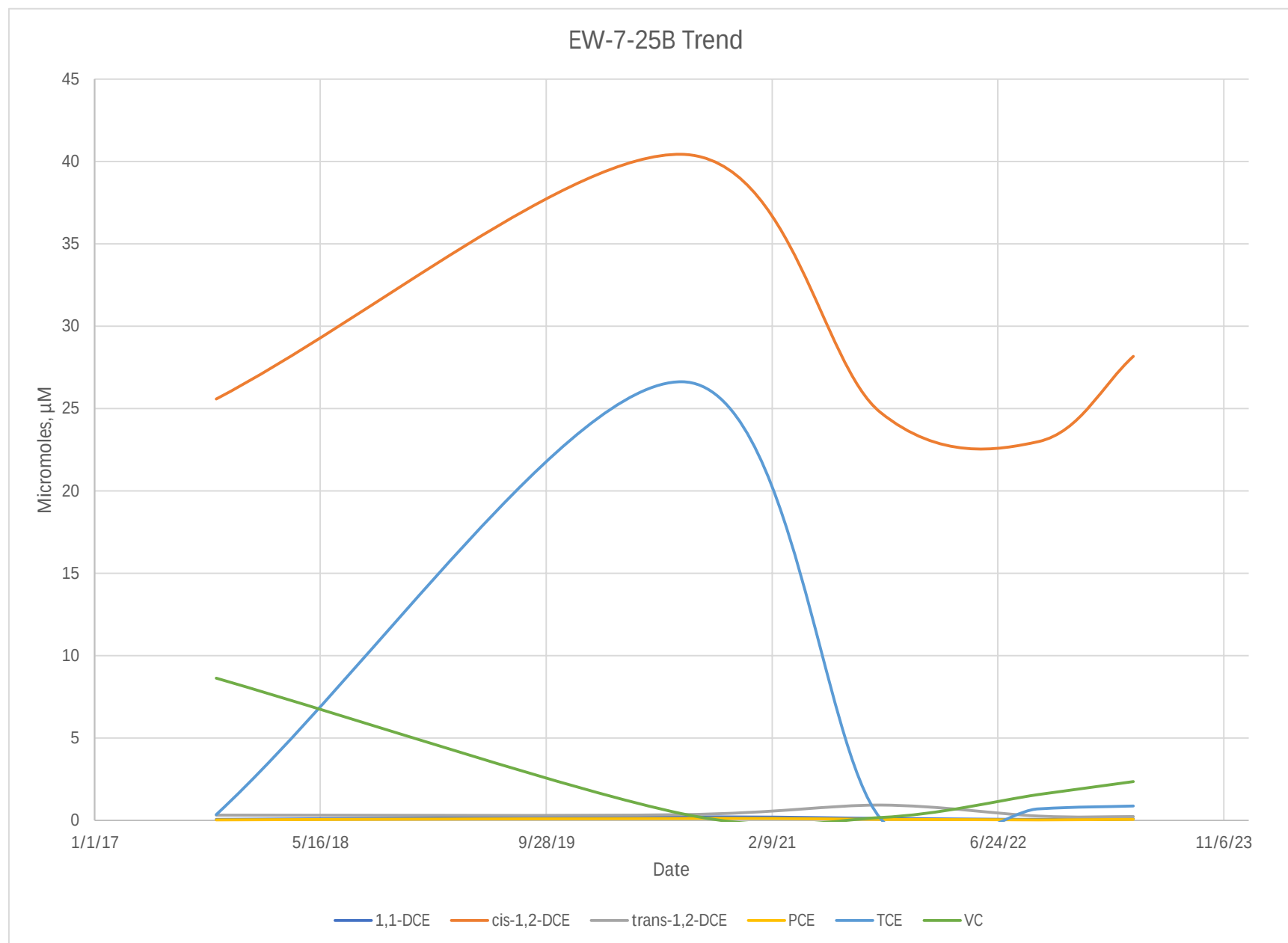
EW-5-25B Trend



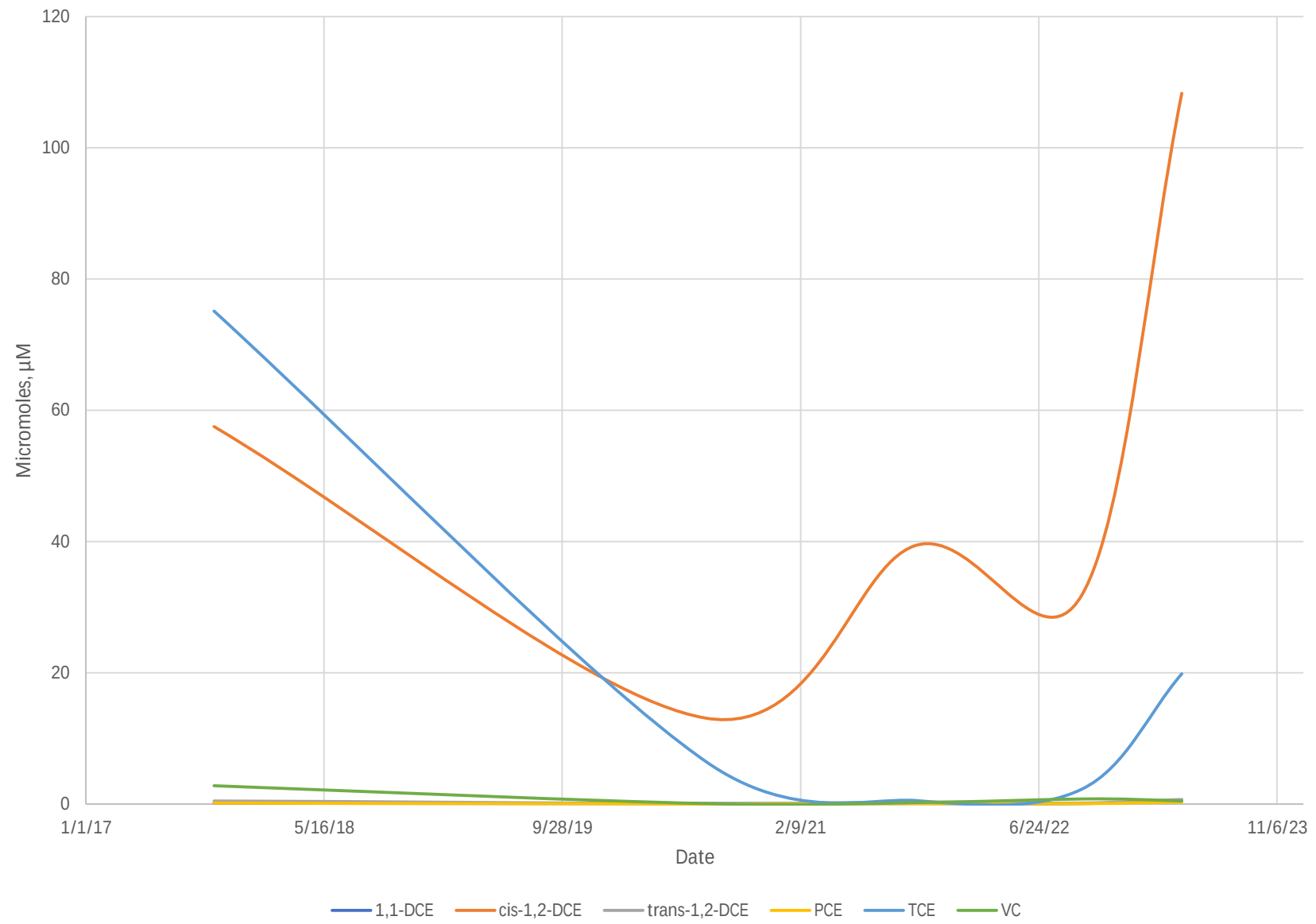
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EW-6-60C Trend

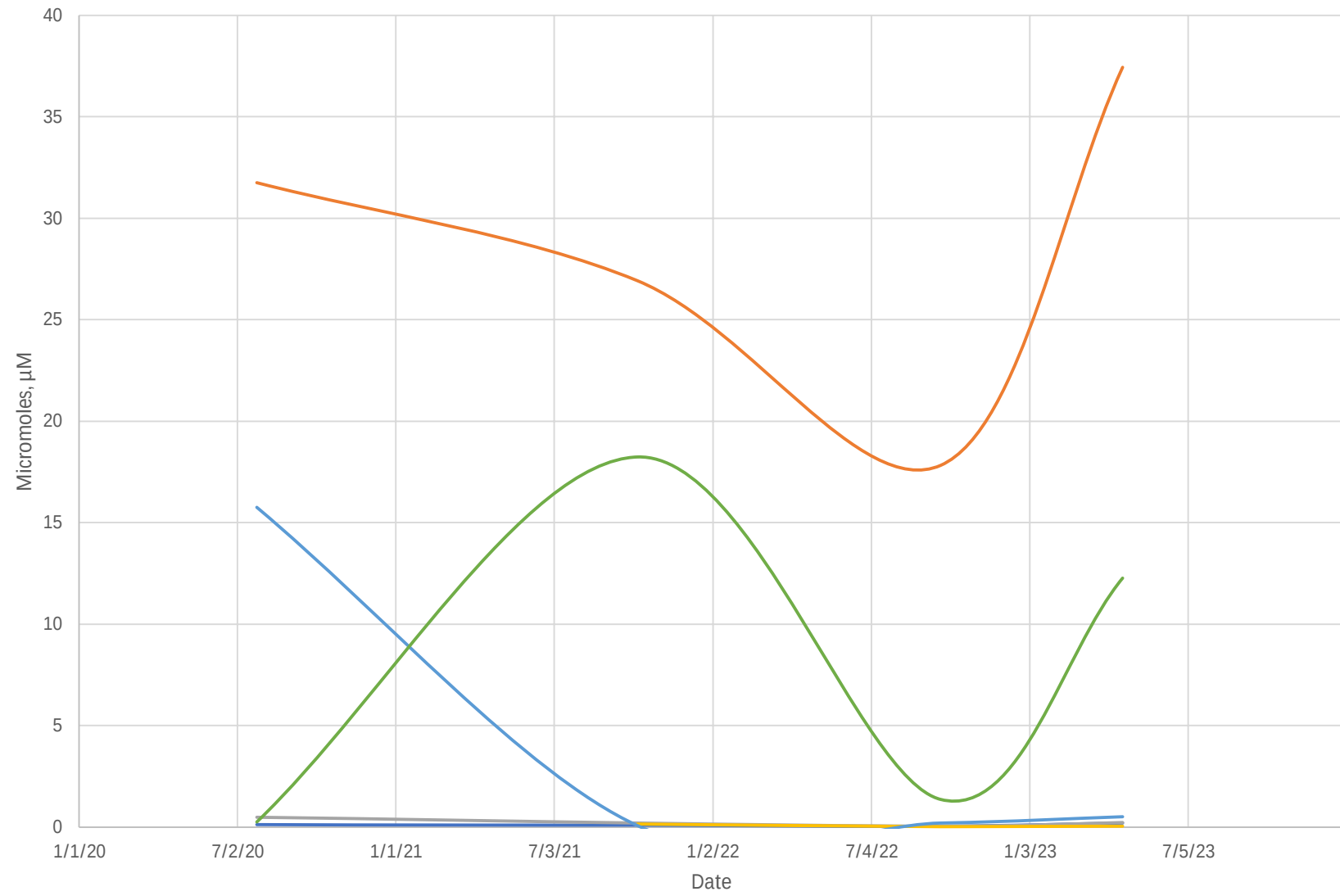




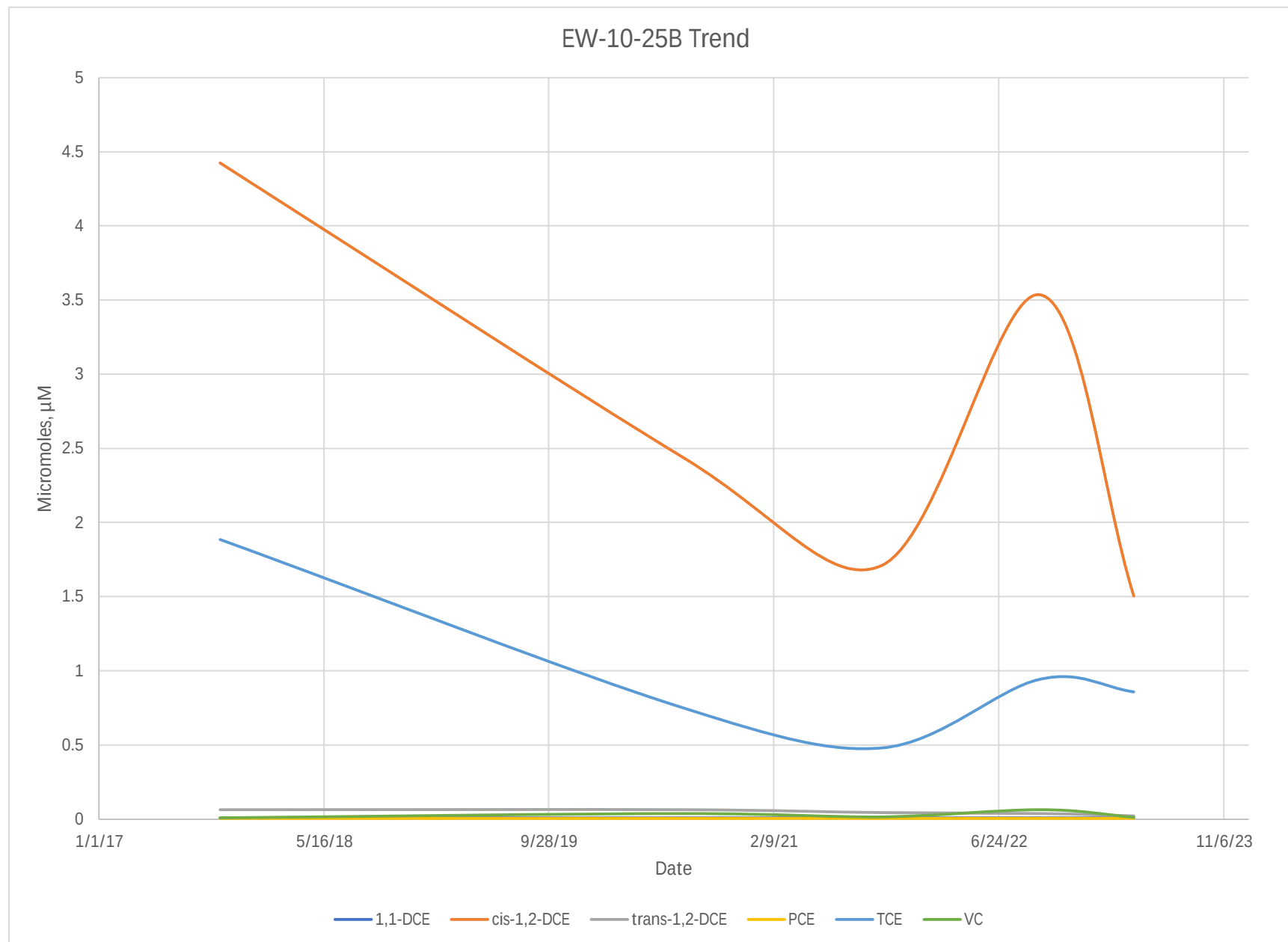
EW-8-62C Trend



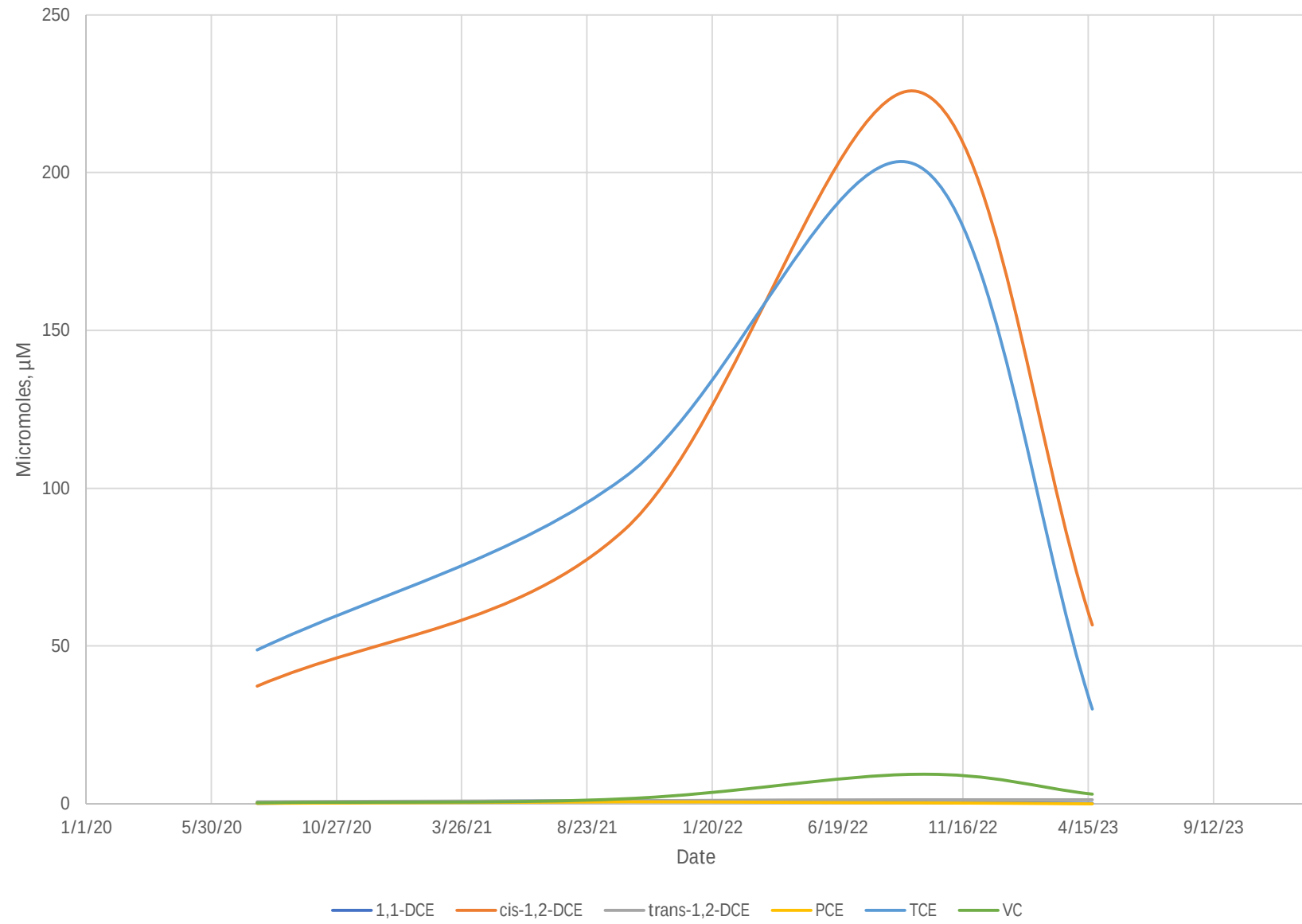
EW-9R-62C Trend



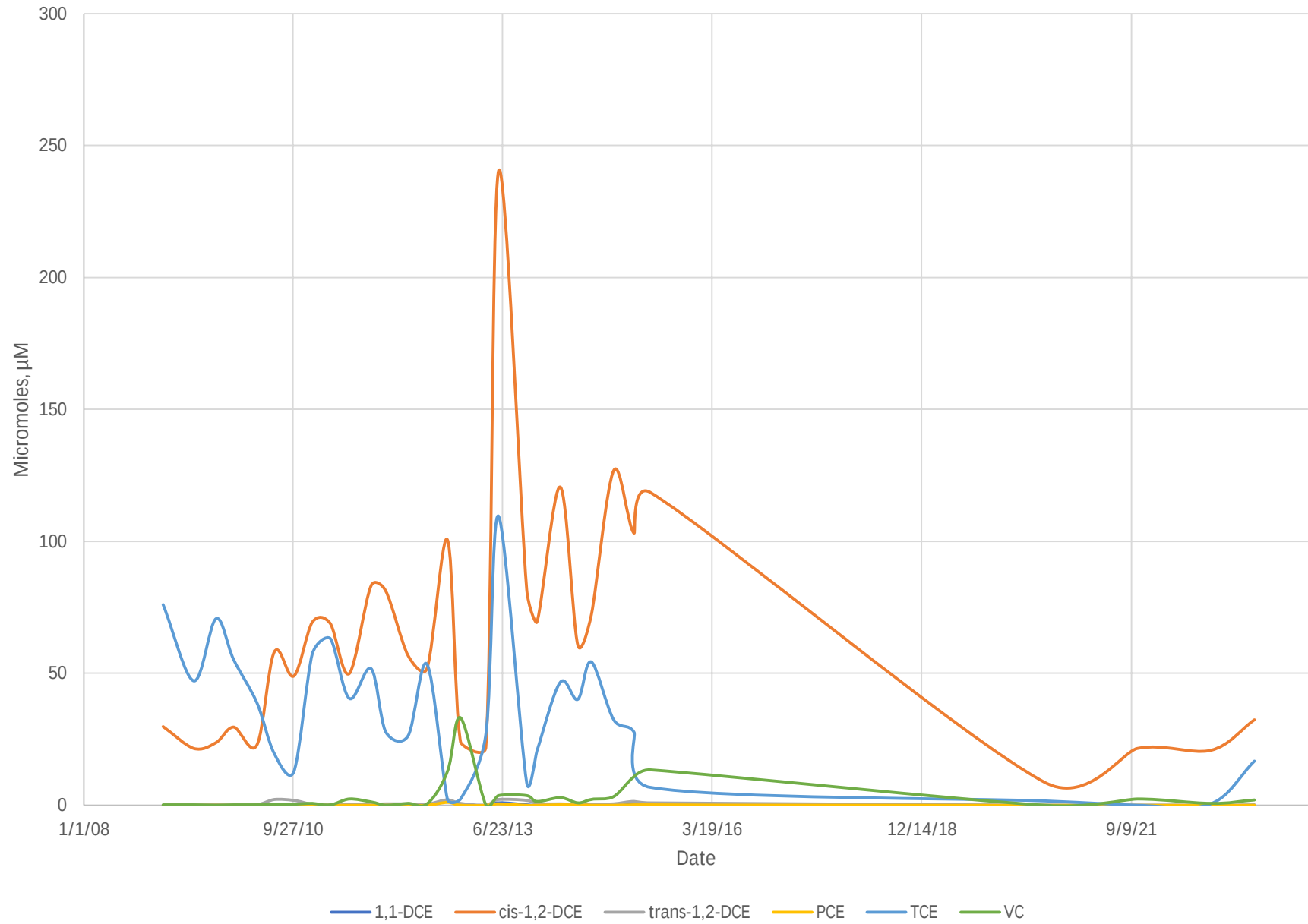
1,1-DCE cis-1,2-DCE trans-1,2-DCE PCE TCE VC

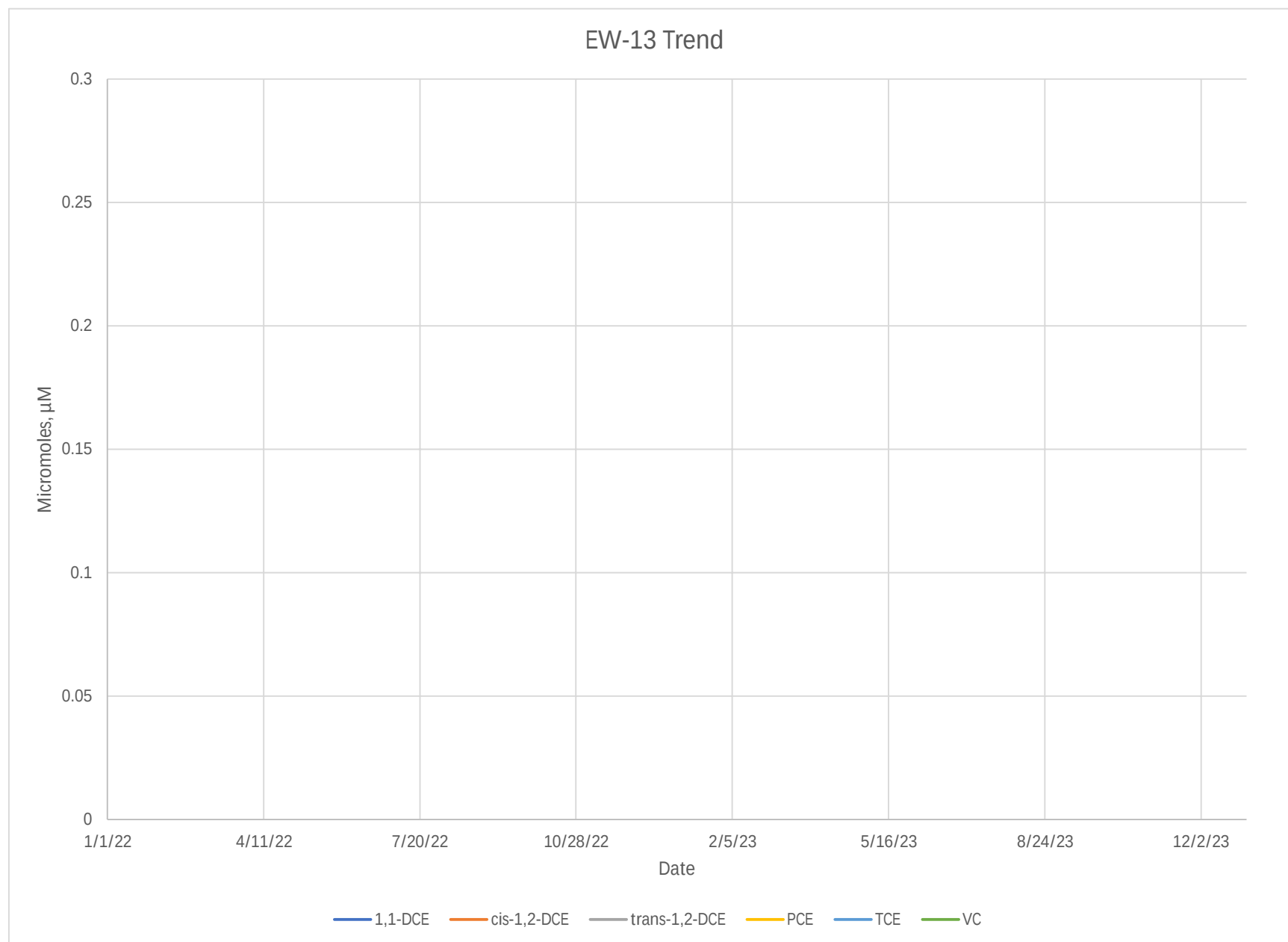


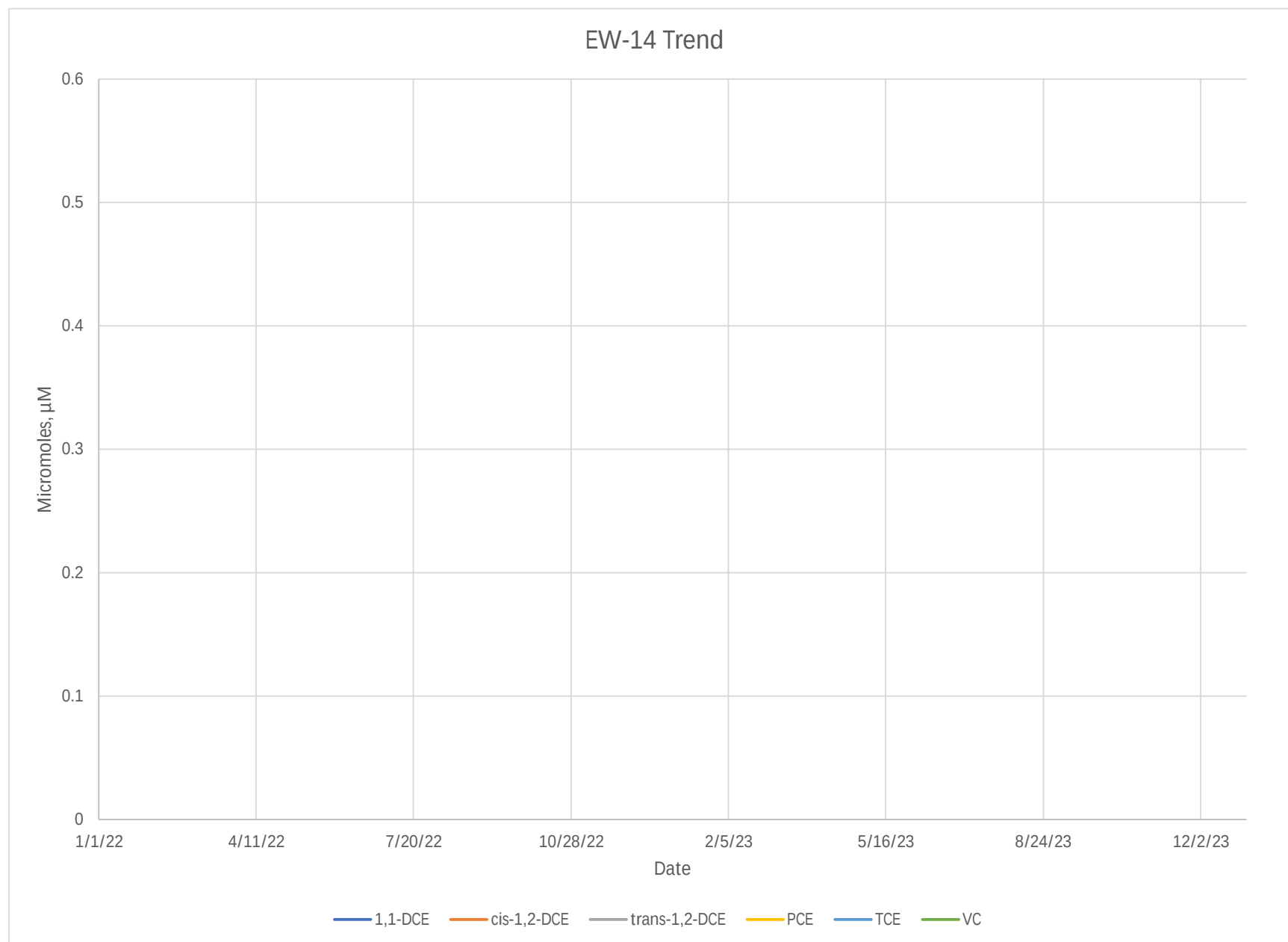
EW-11-43C Trend



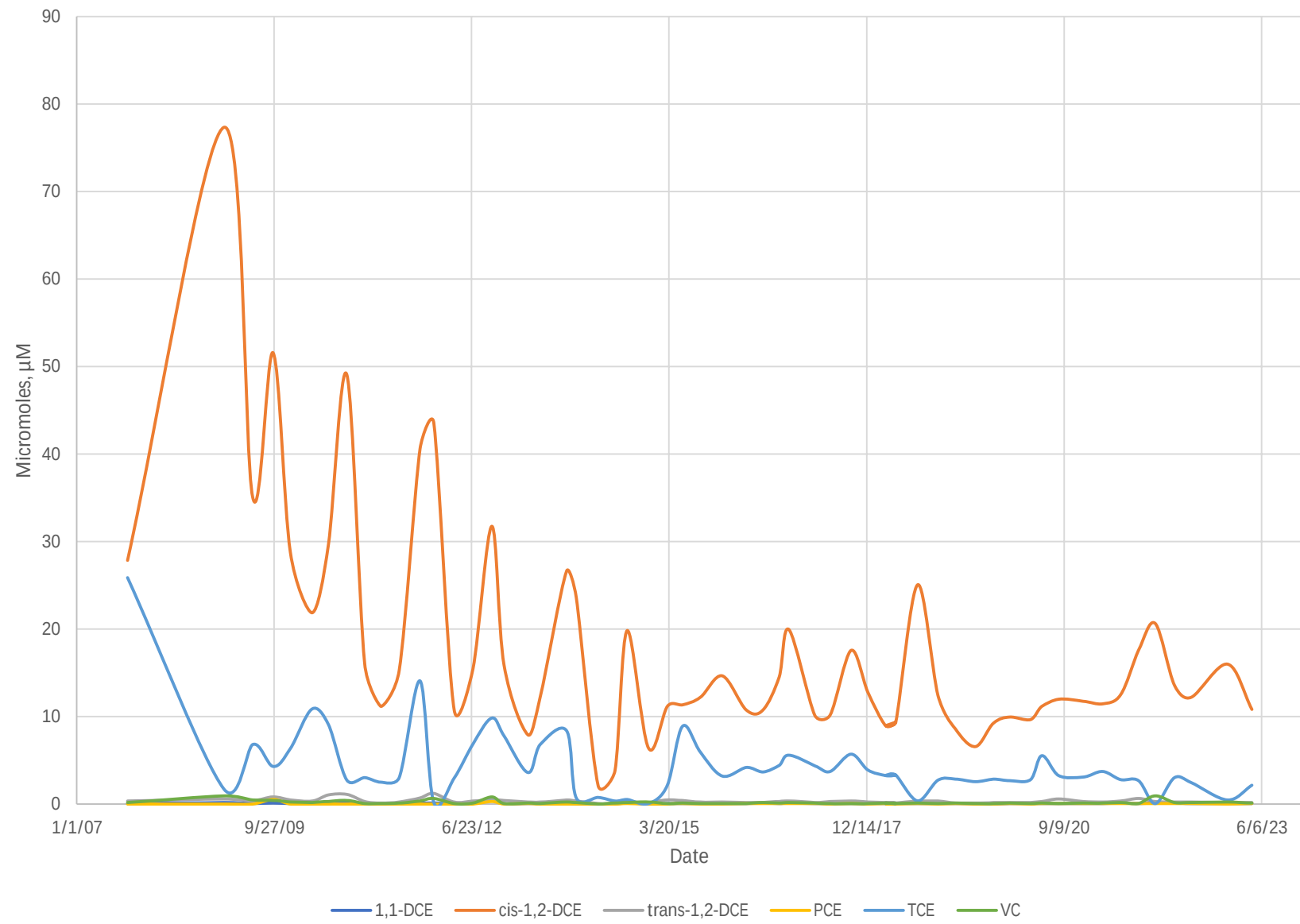
EW-12-45C Trend



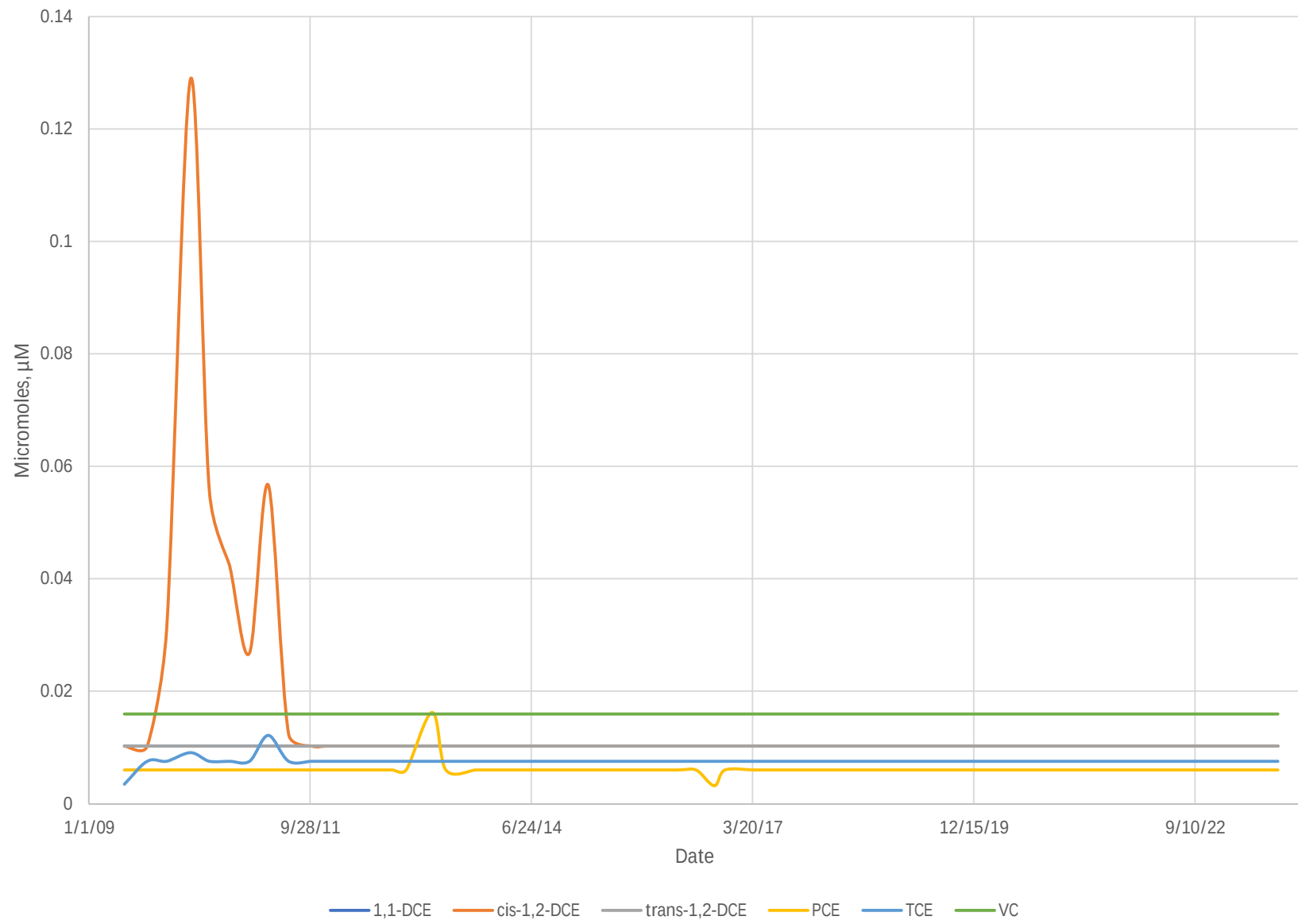




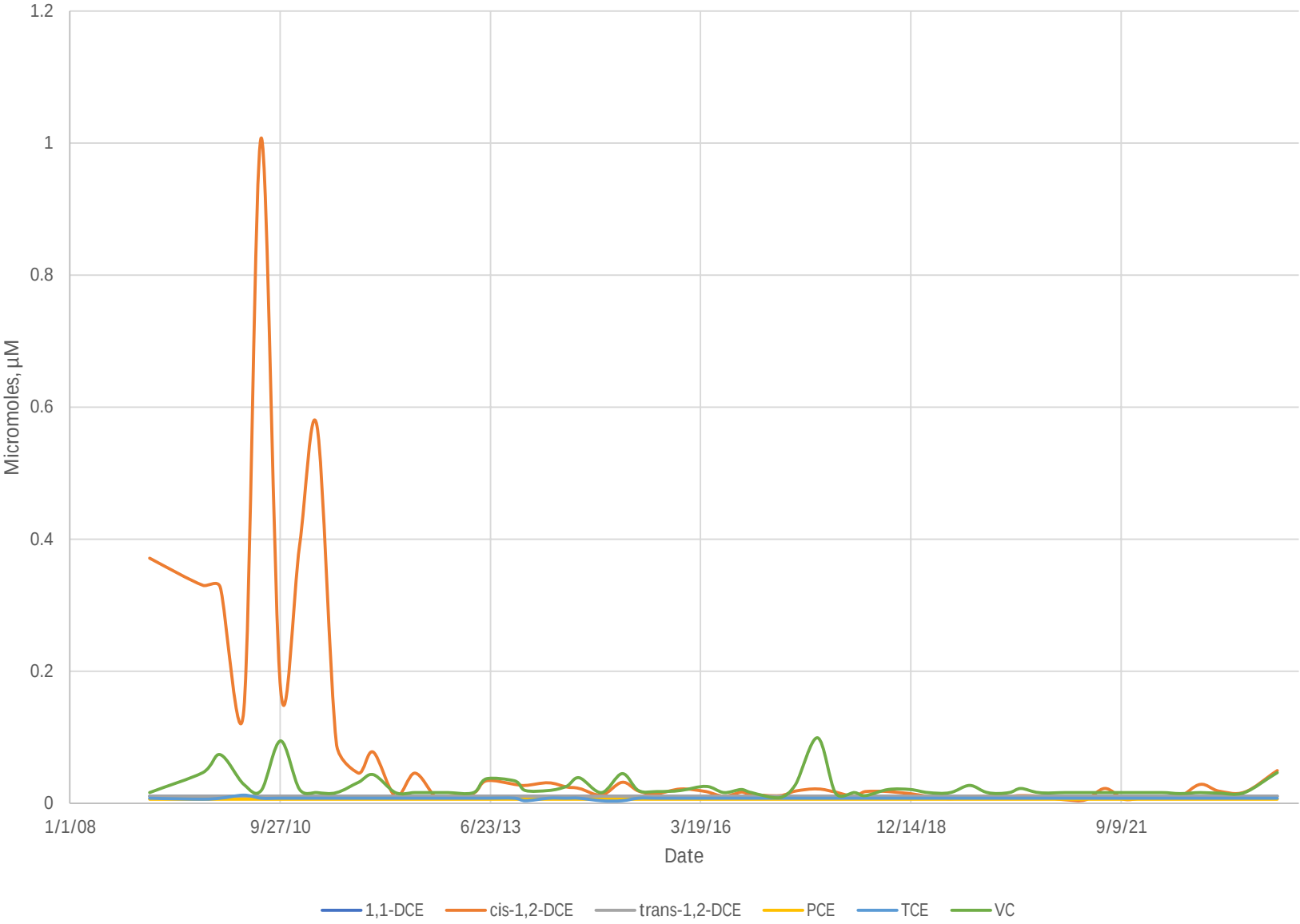
EXB-7 Trend



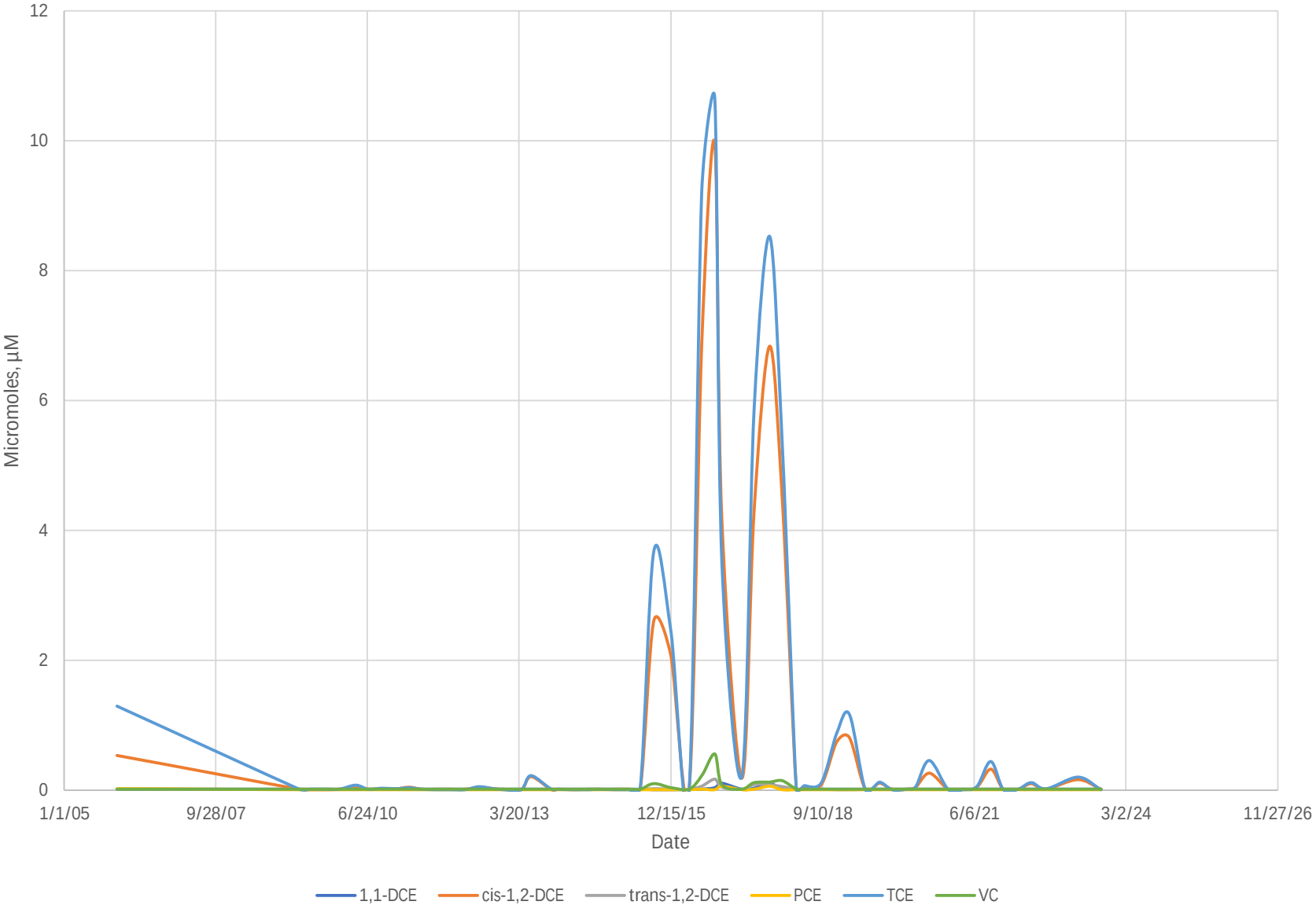
EXB-9 Trend

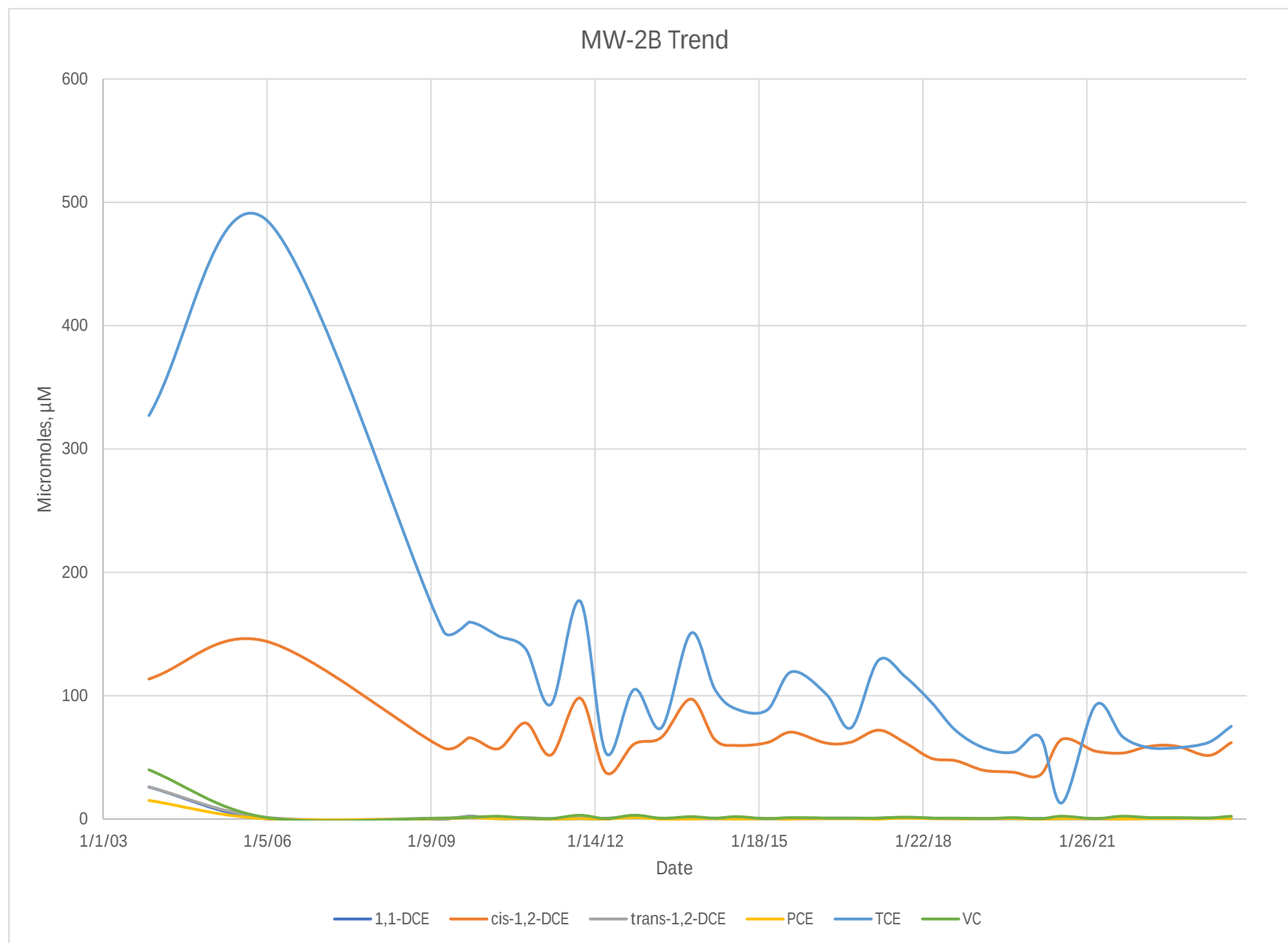


EXB-10 Trend

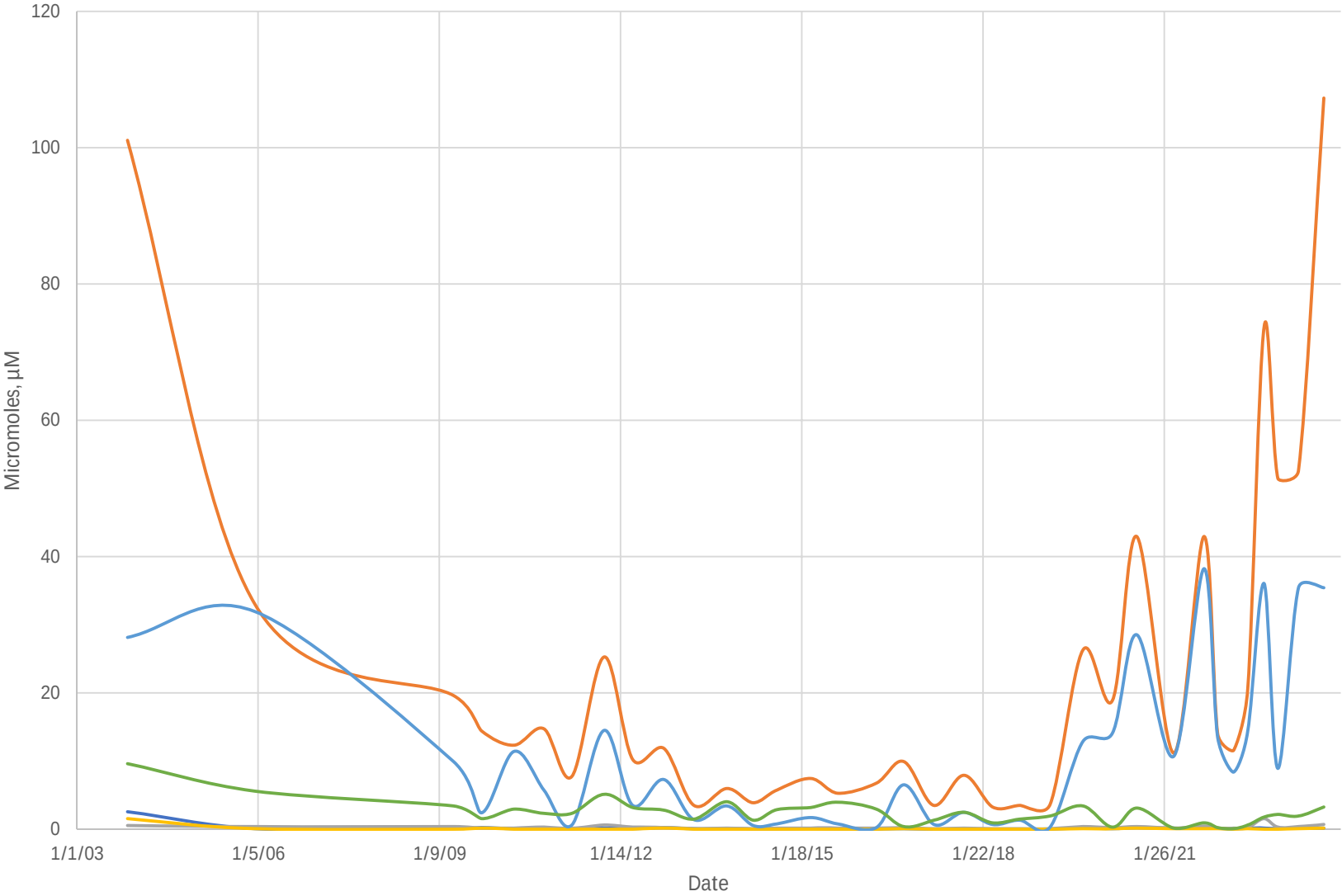


MW-1B Trend



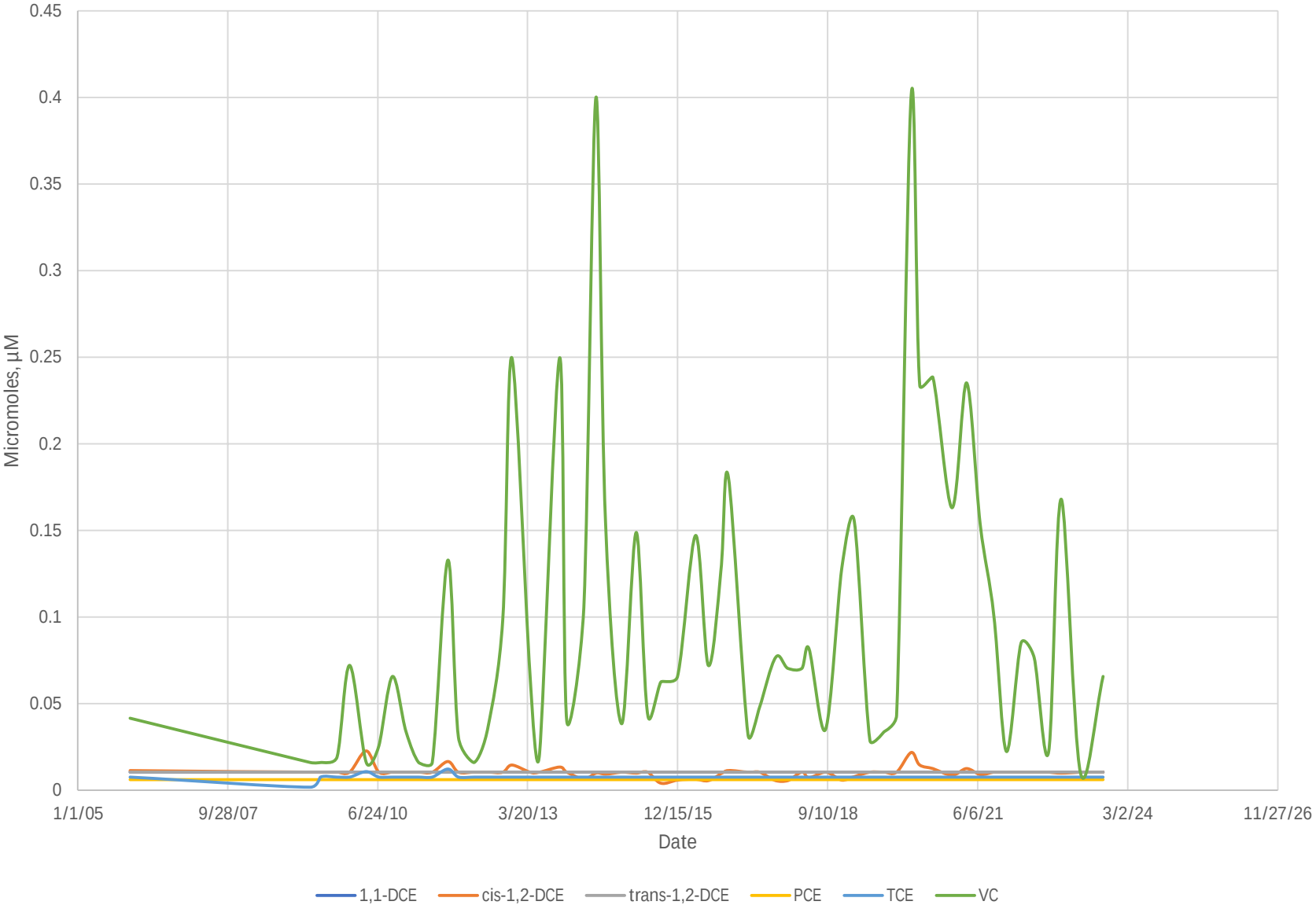


MW-3B Trend

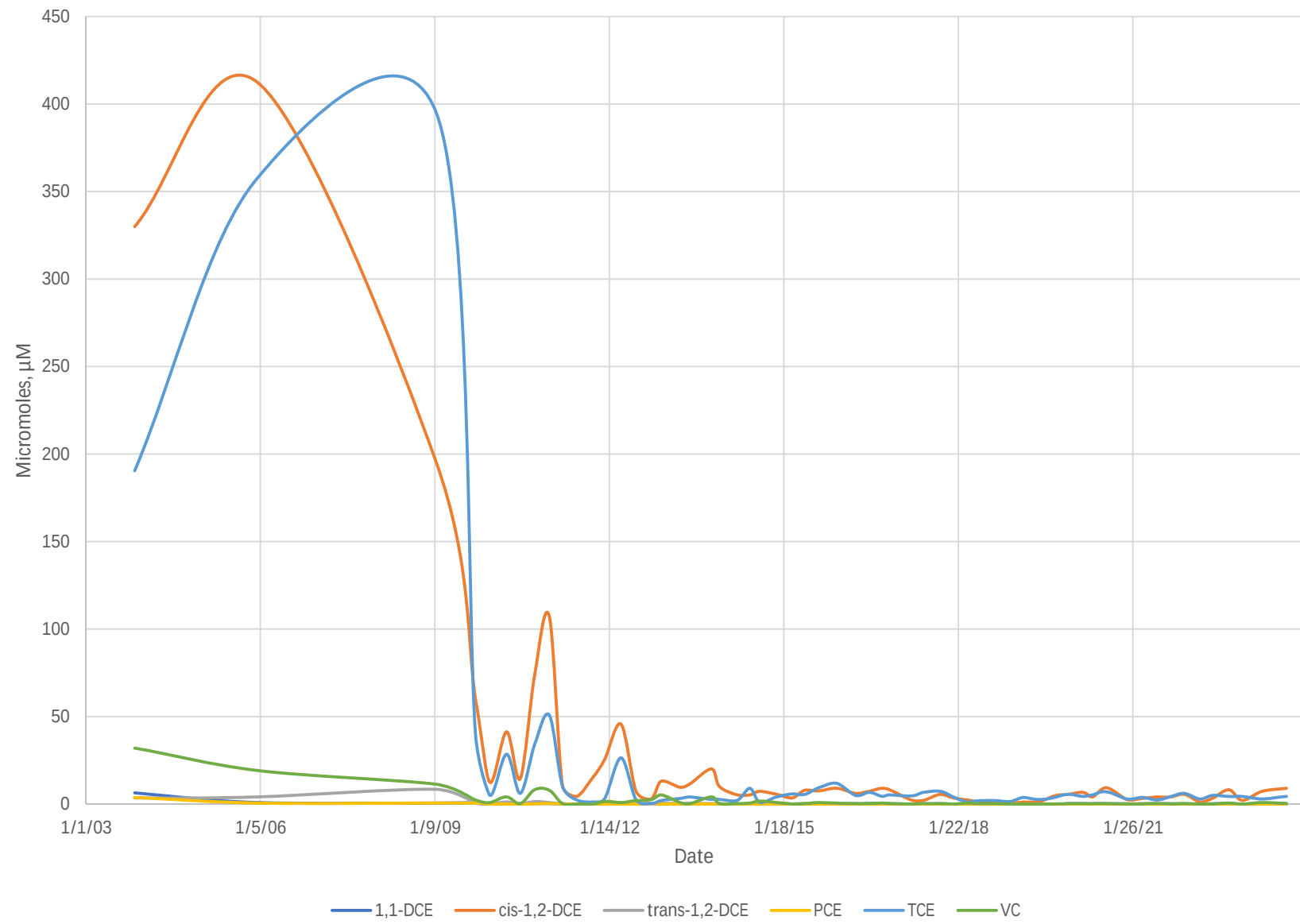


1,1-DCE cis-1,2-DCE trans-1,2-DCE PCE TCE VC

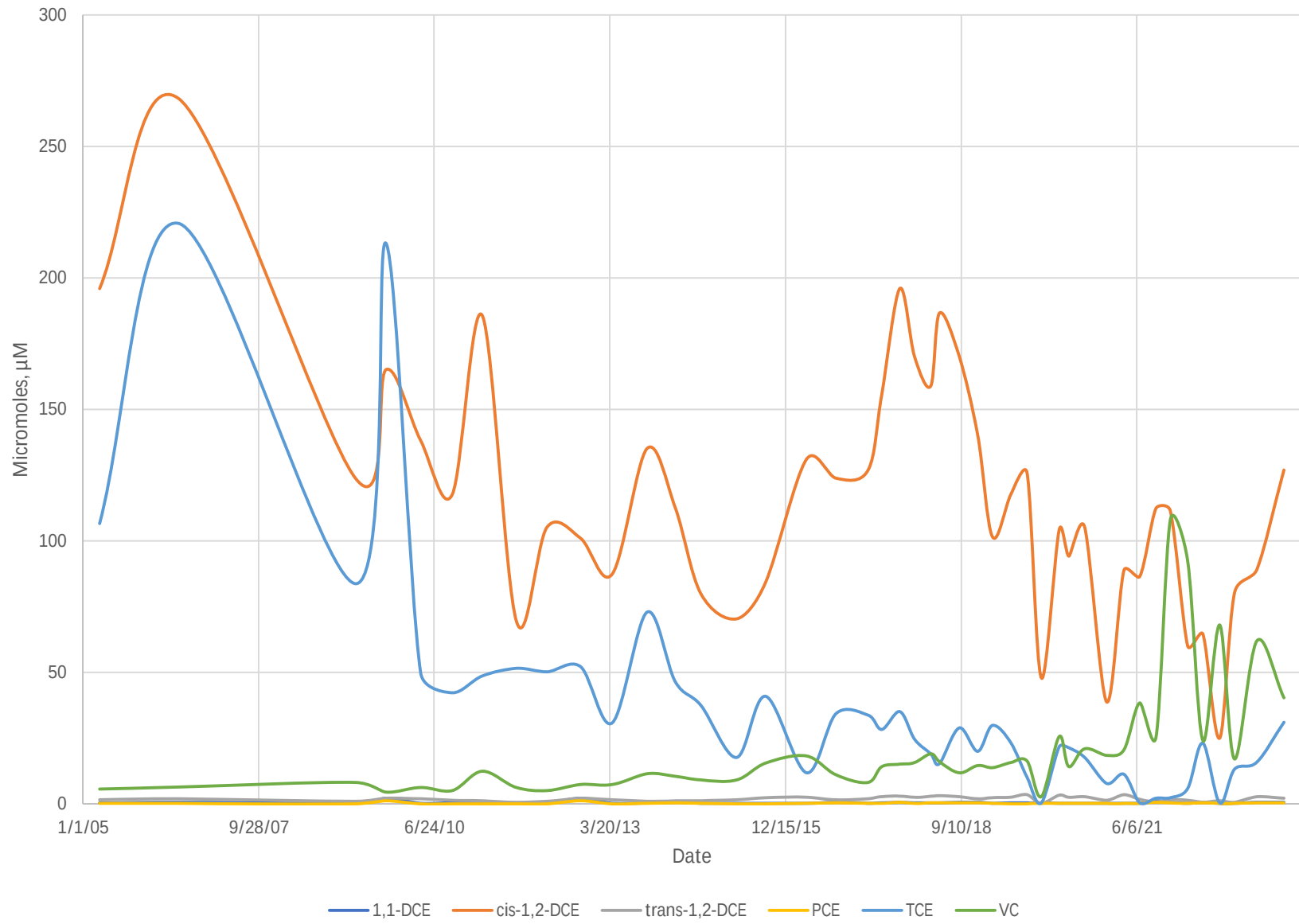
MW-4B Trend



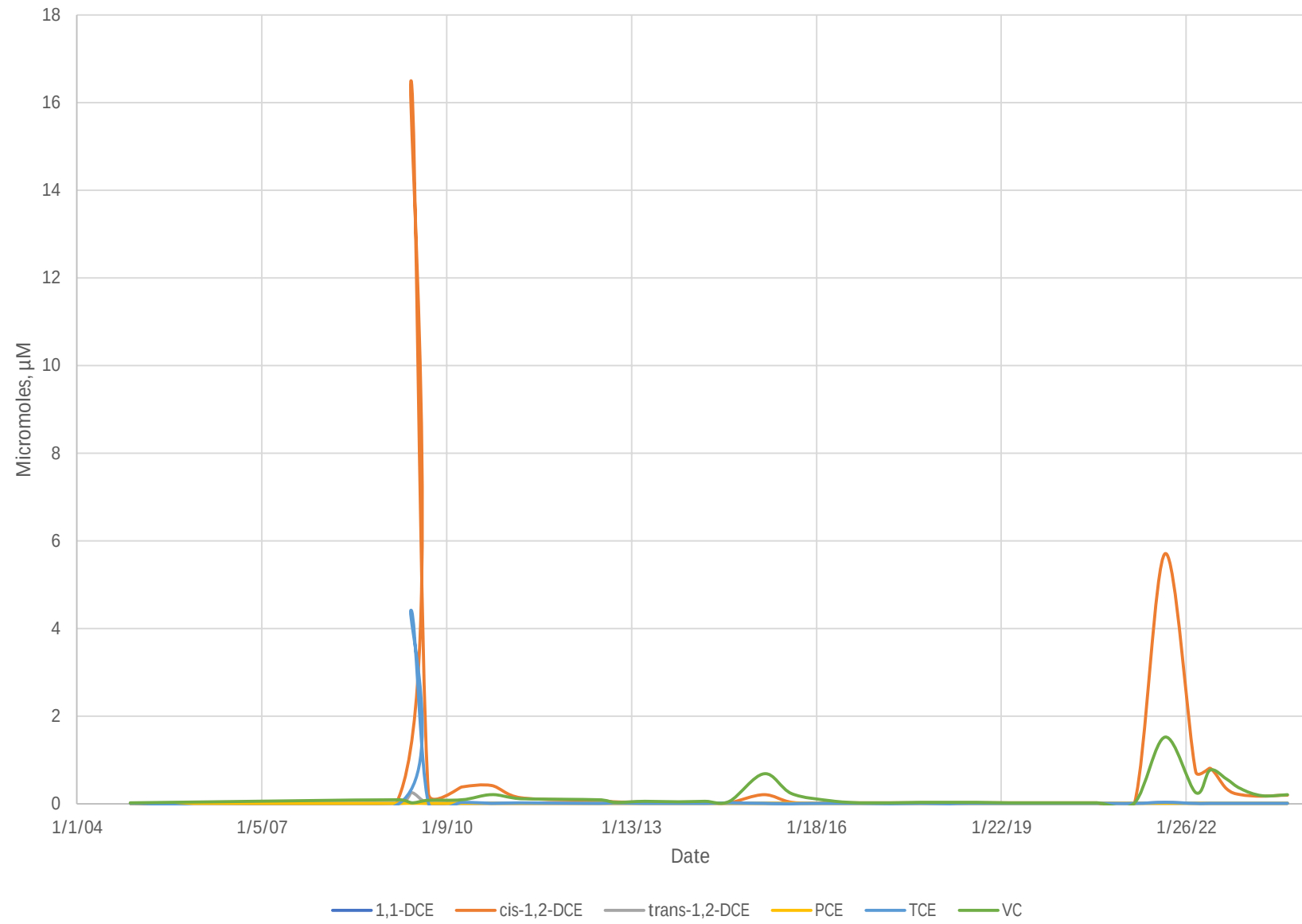
MW-5B Trend



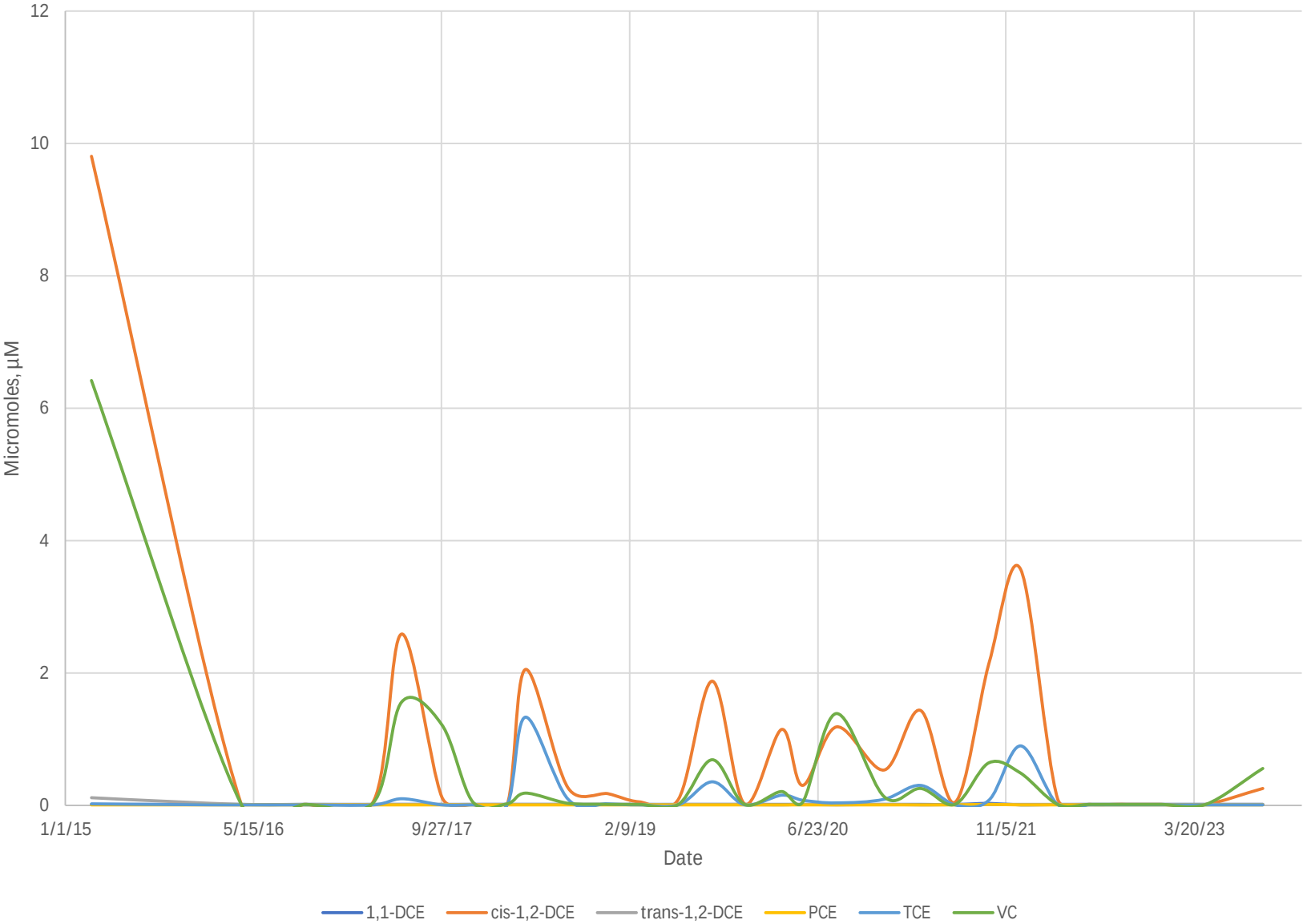
MW-5-40 Trend



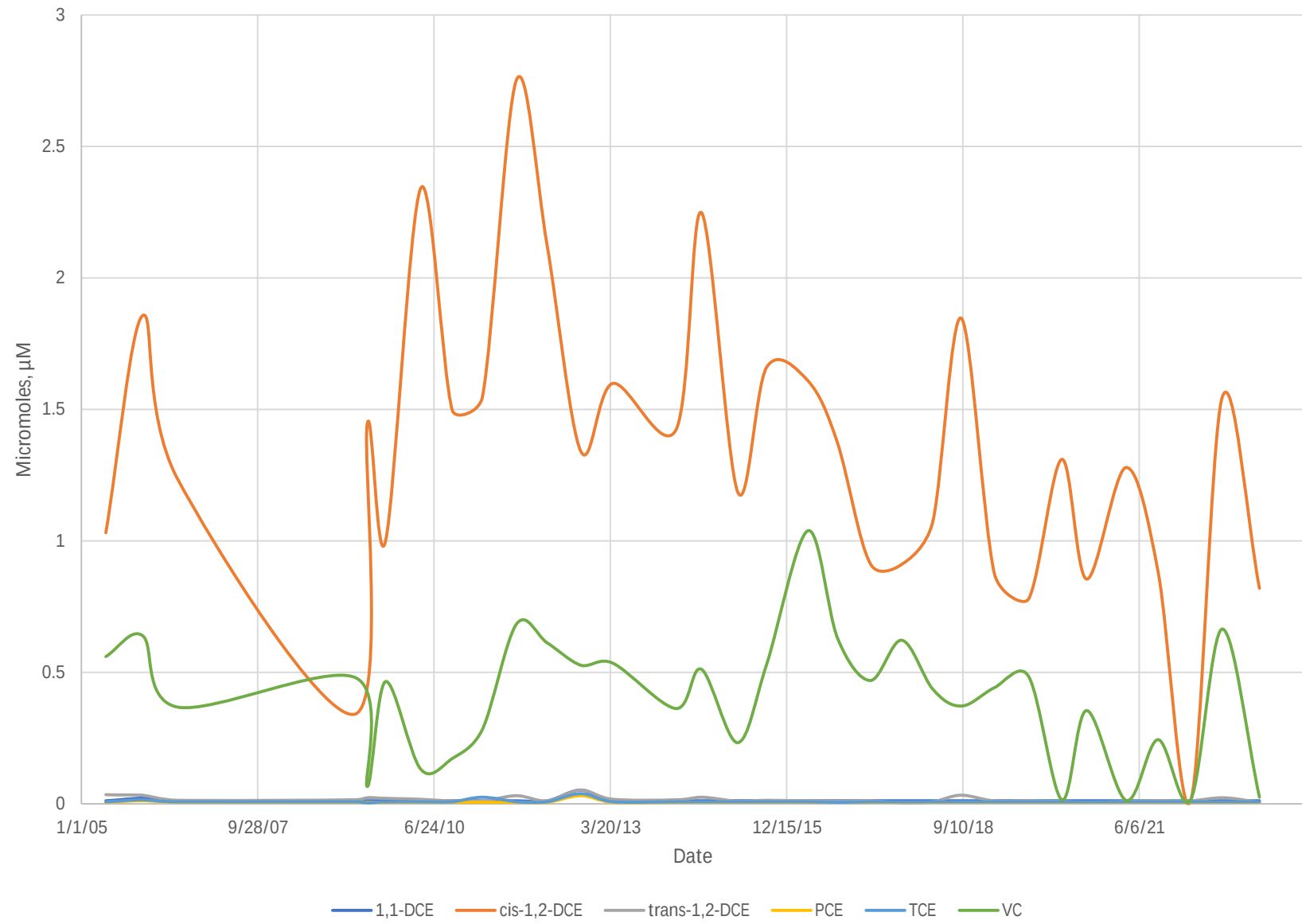
MW-5-100 Trend



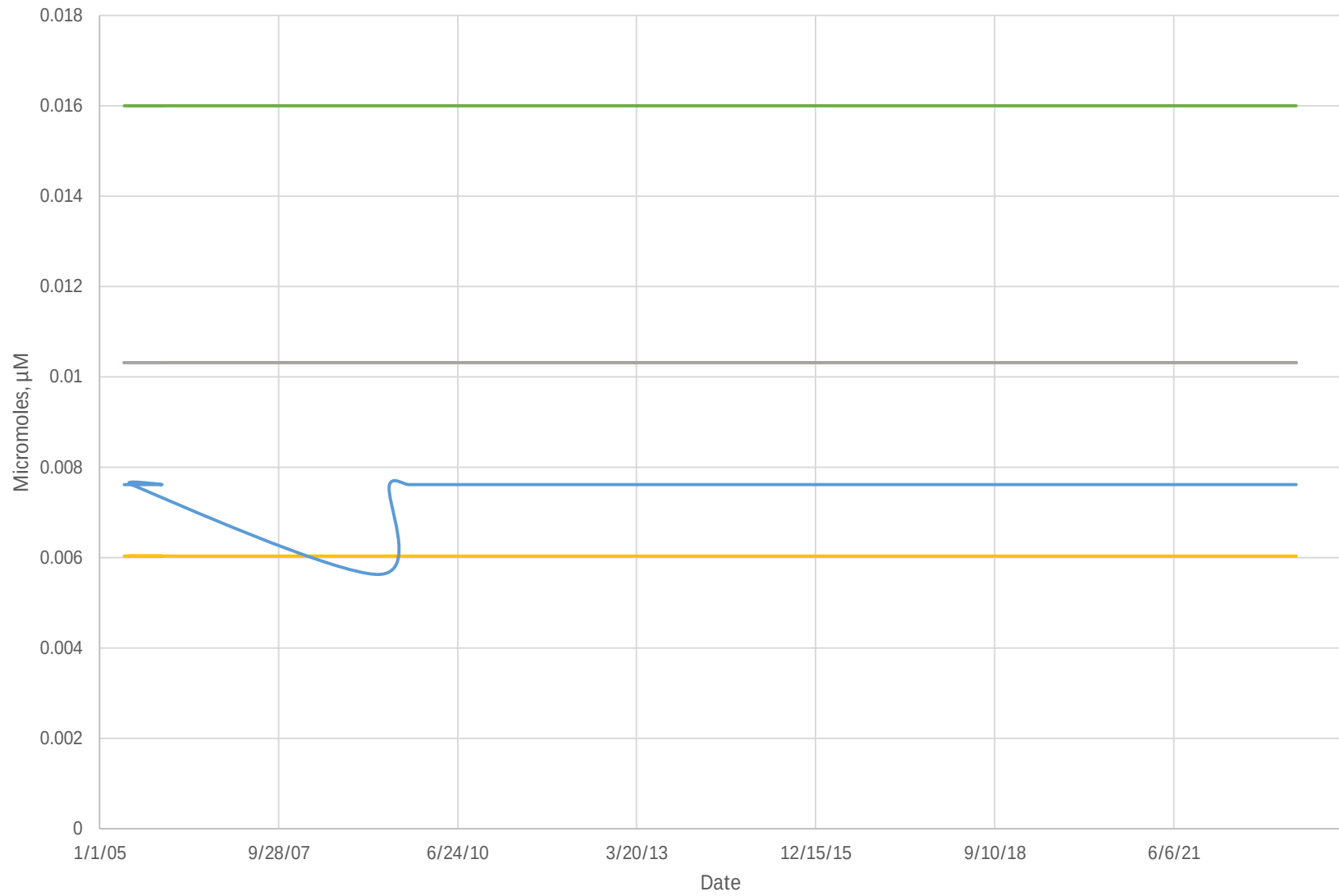
MW-7B Trend



MW-7-40 Trend

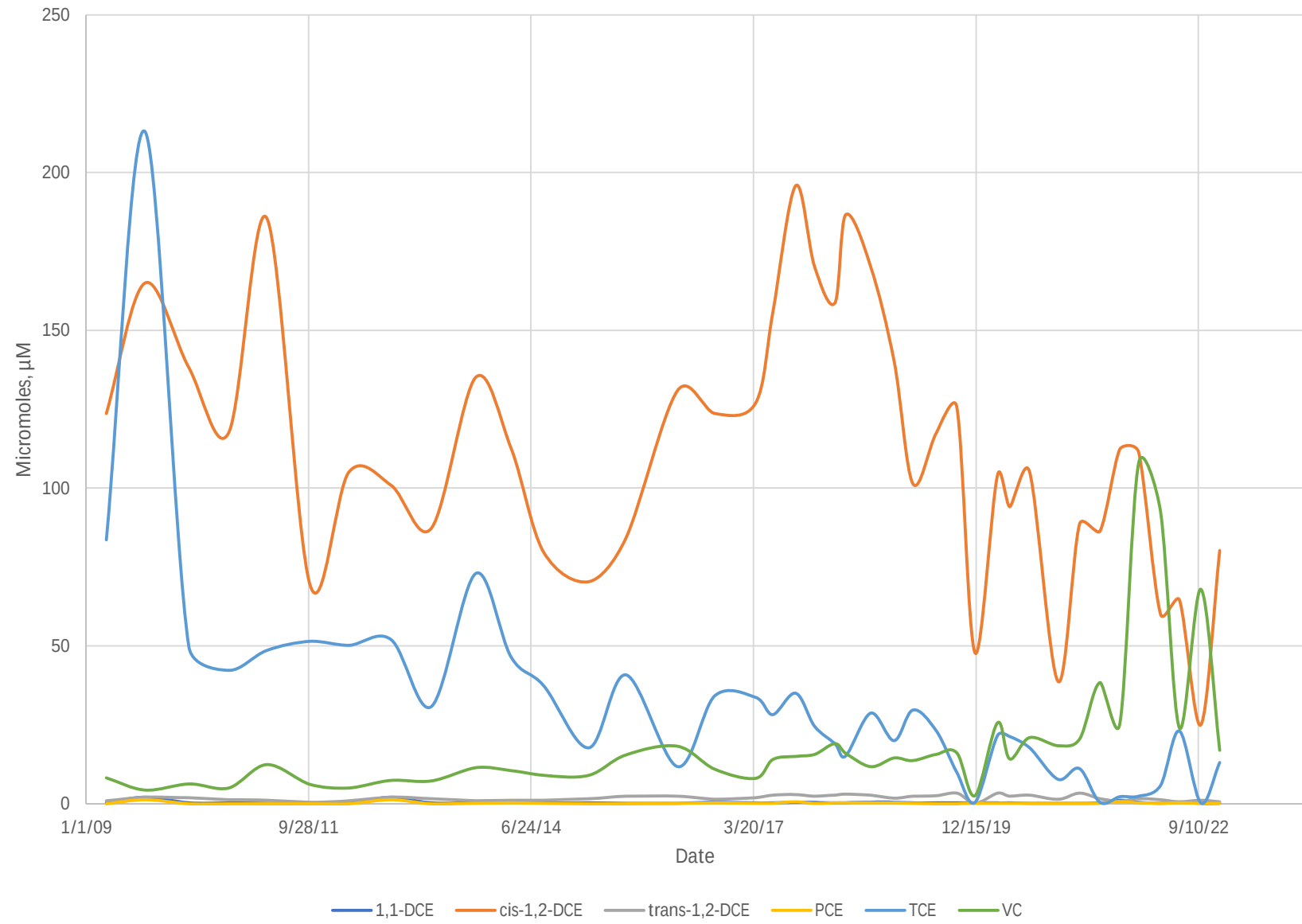


MW-8-40 Trend

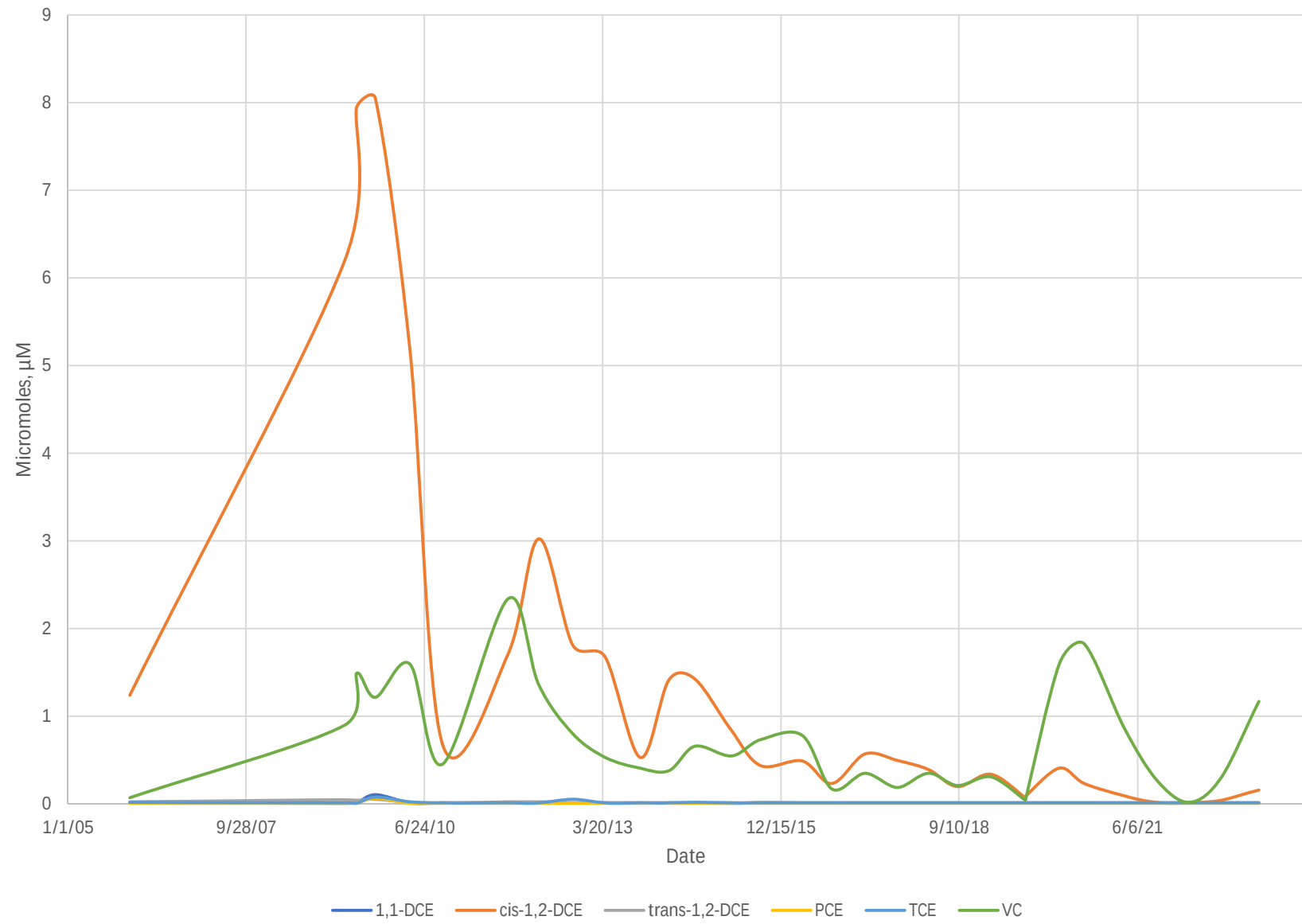


1,1-DCE cis-1,2-DCE trans-1,2-DCE PCE TCE VC

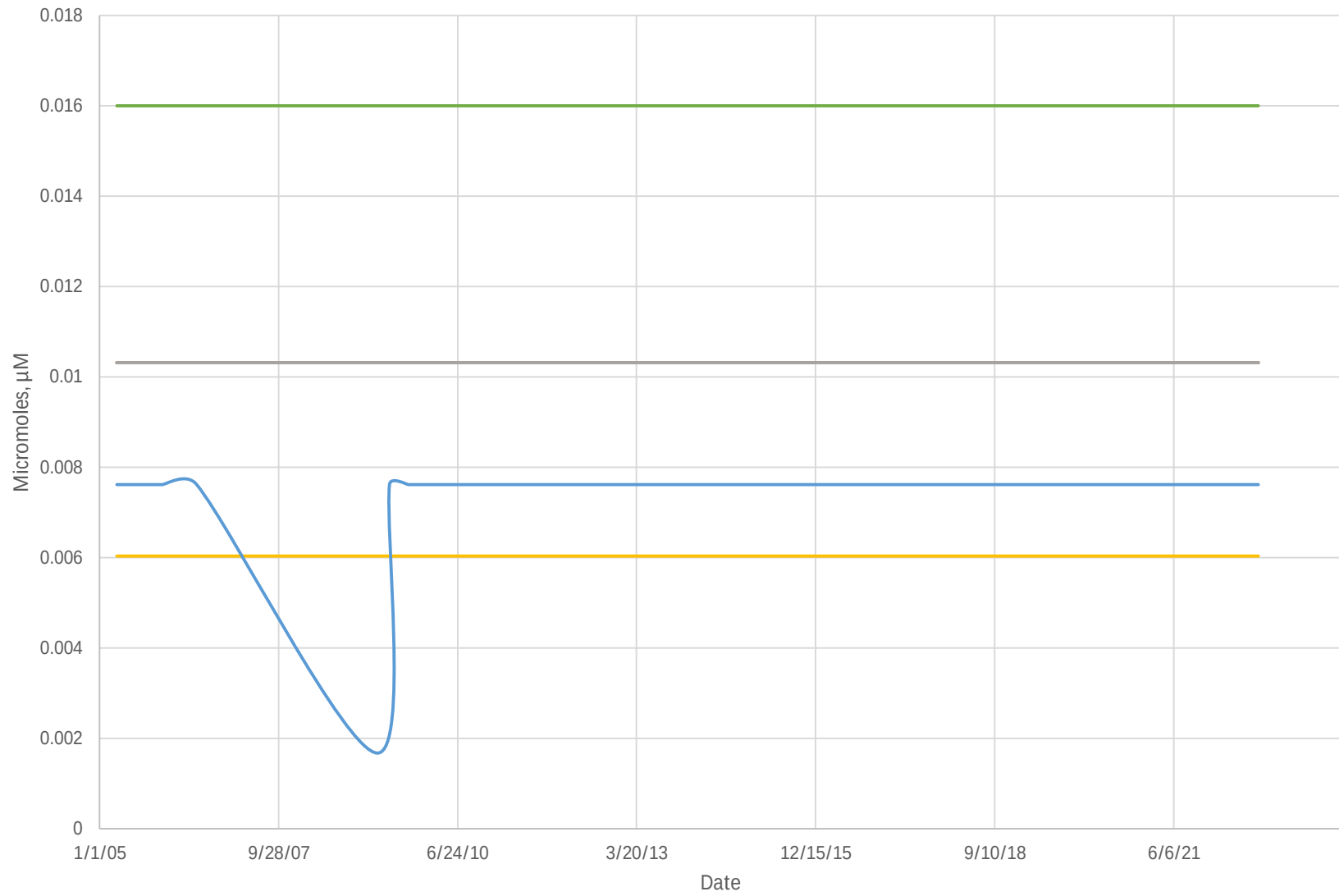
MW-15-40 Trend



MW-16-100 Trend

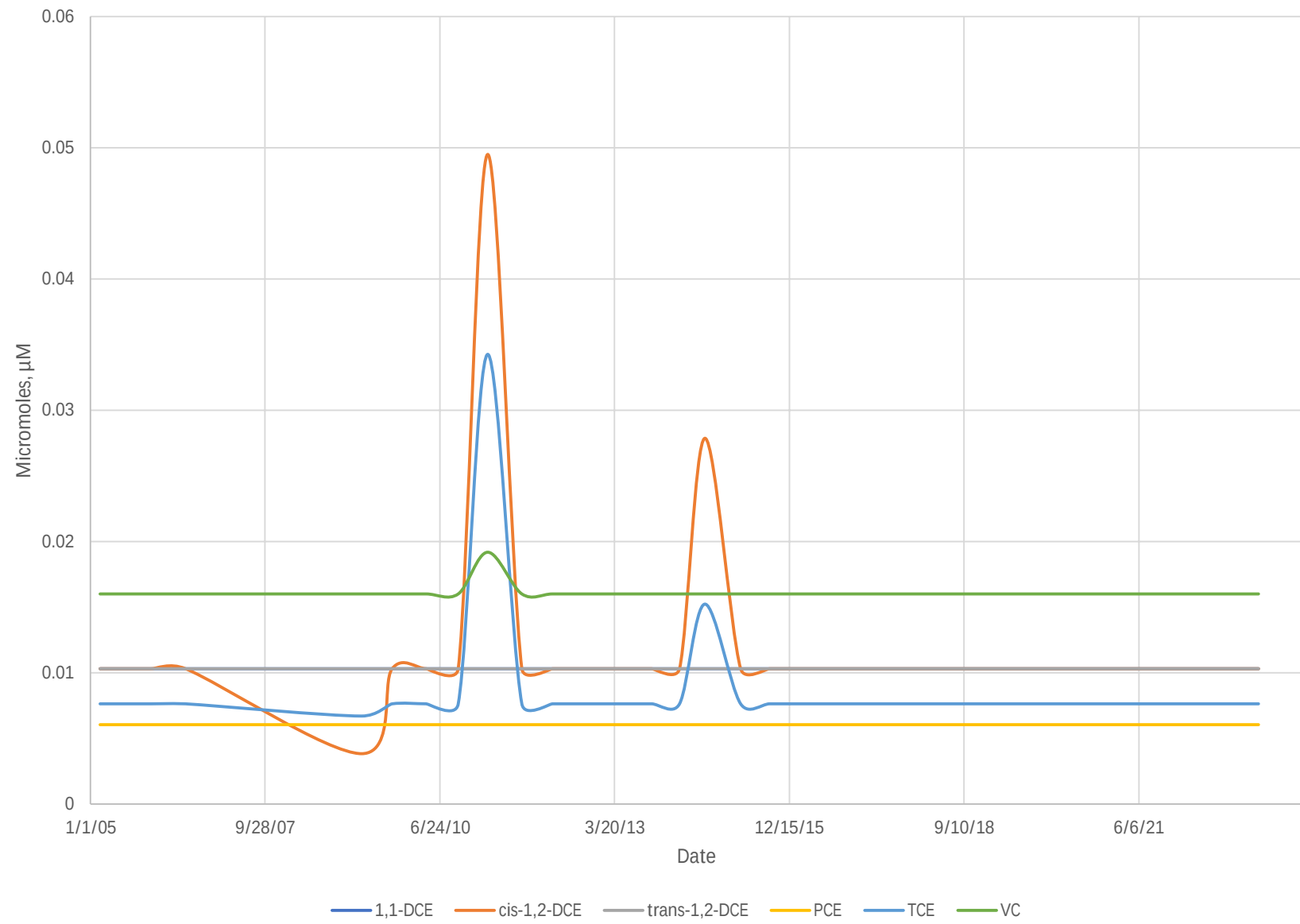


MW-17-40 Trend

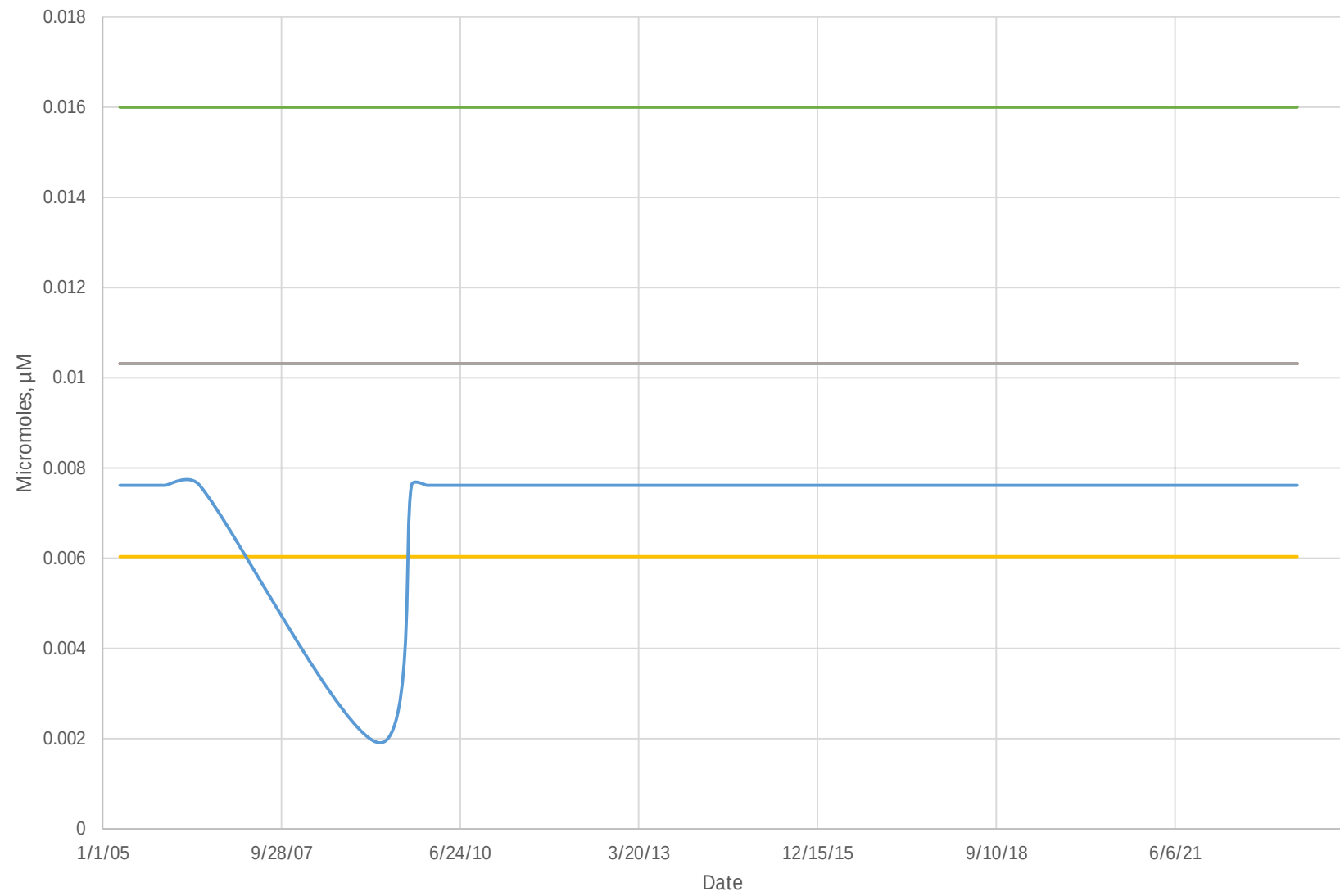


1,1-DCE cis-1,2-DCE trans-1,2-DCE PCE TCE VC

MW-18A Trend

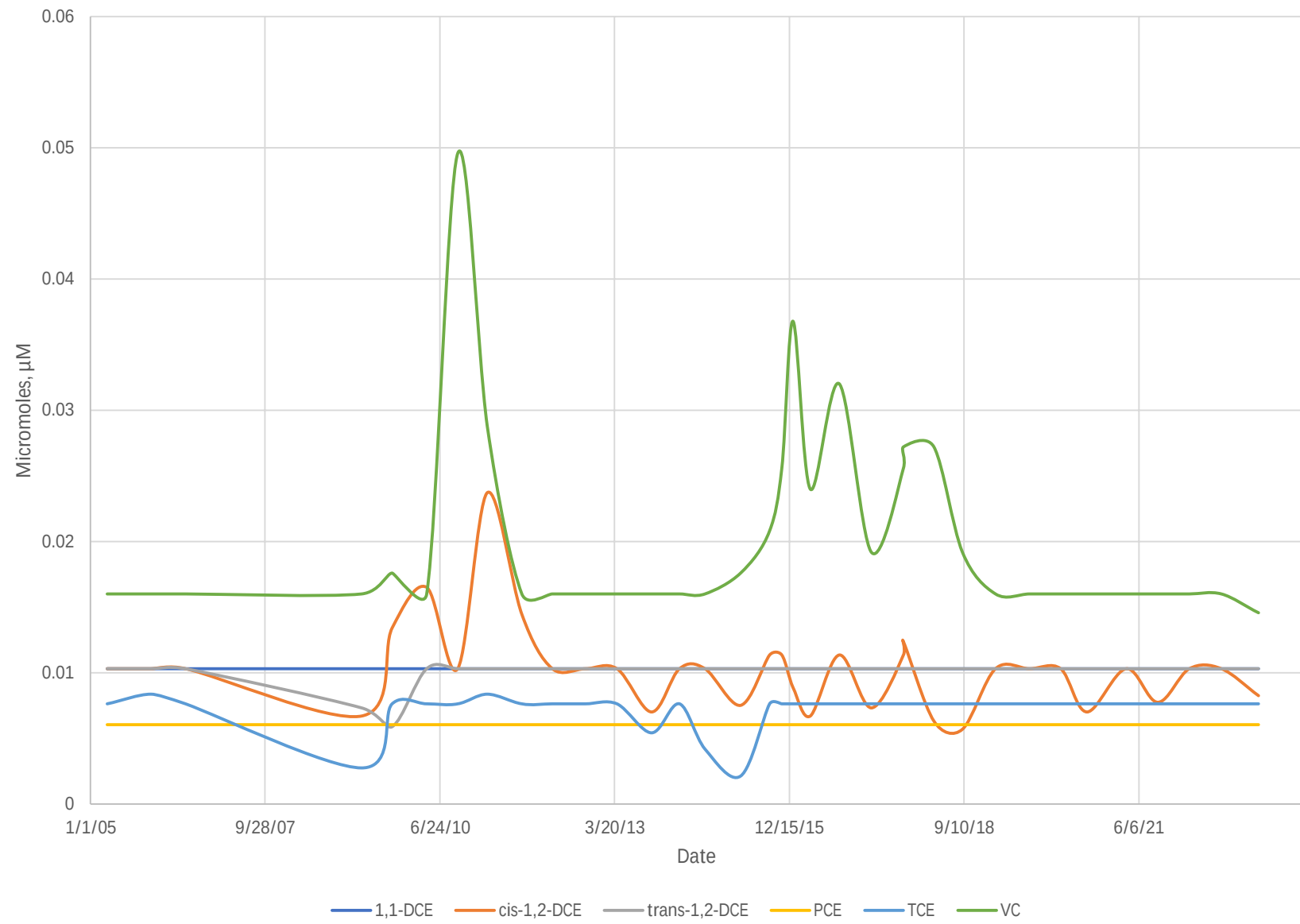


MW-20B Trend

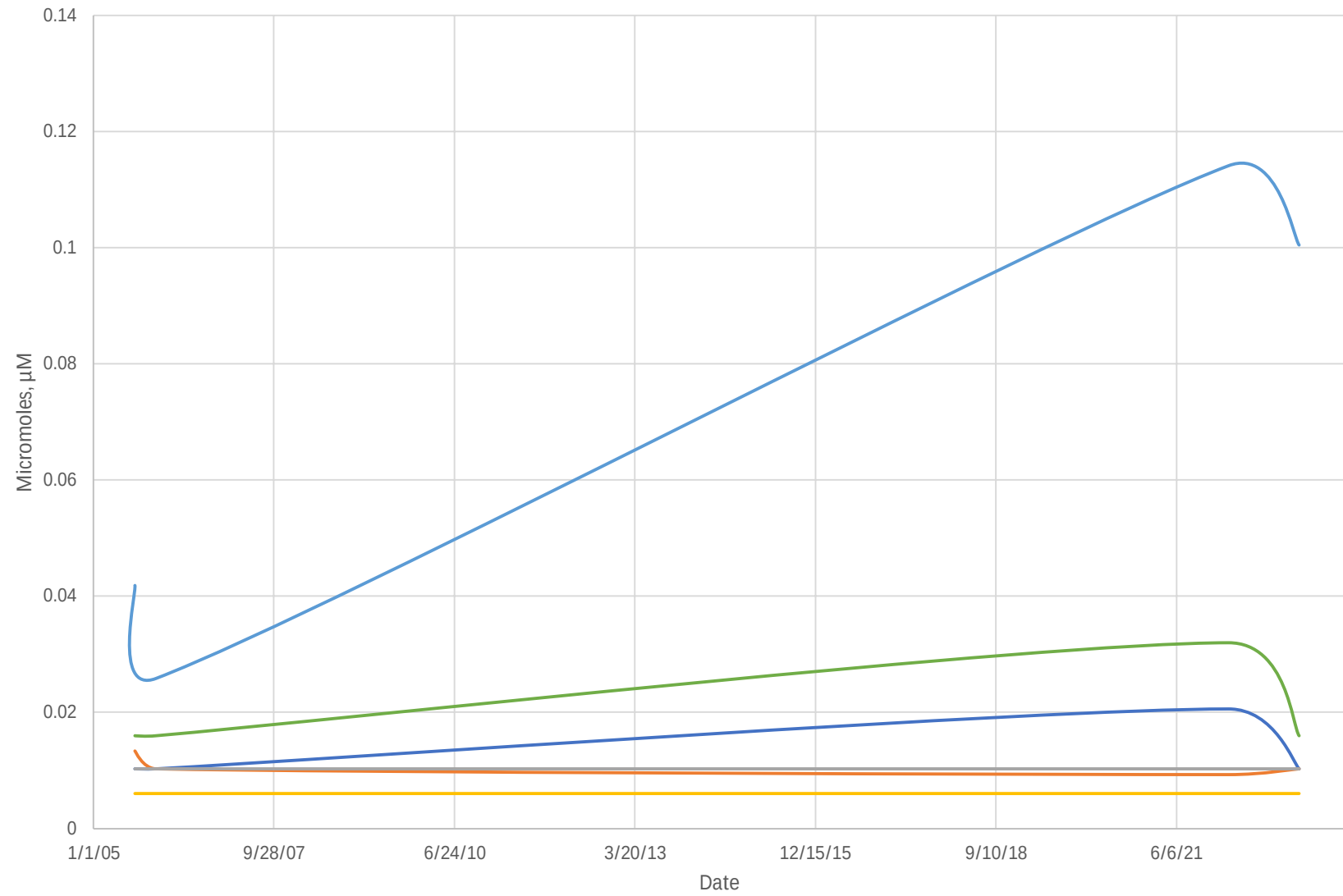


1,1-DCE cis-1,2-DCE trans-1,2-DCE PCE TCE VC

MW-22B Trend

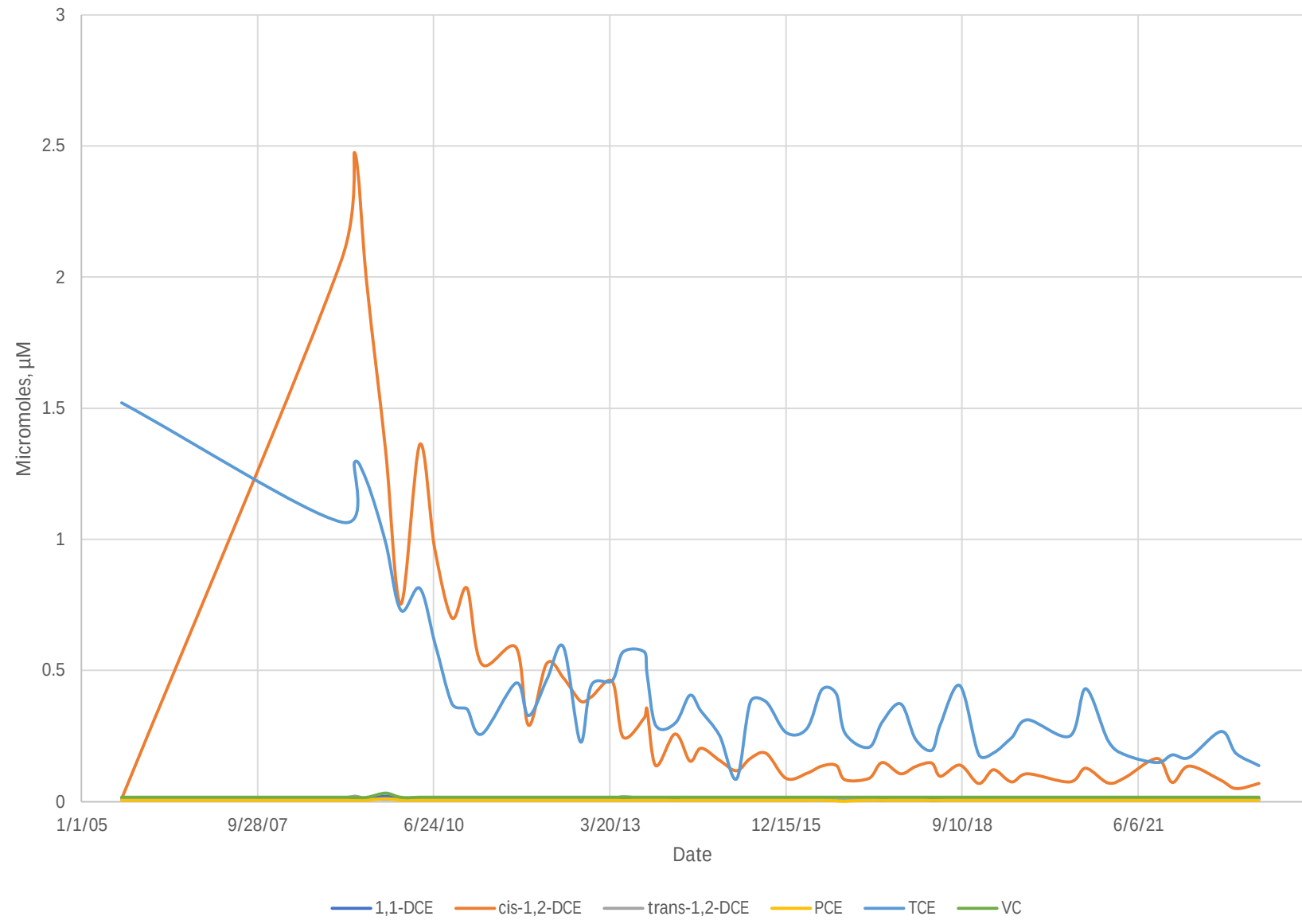


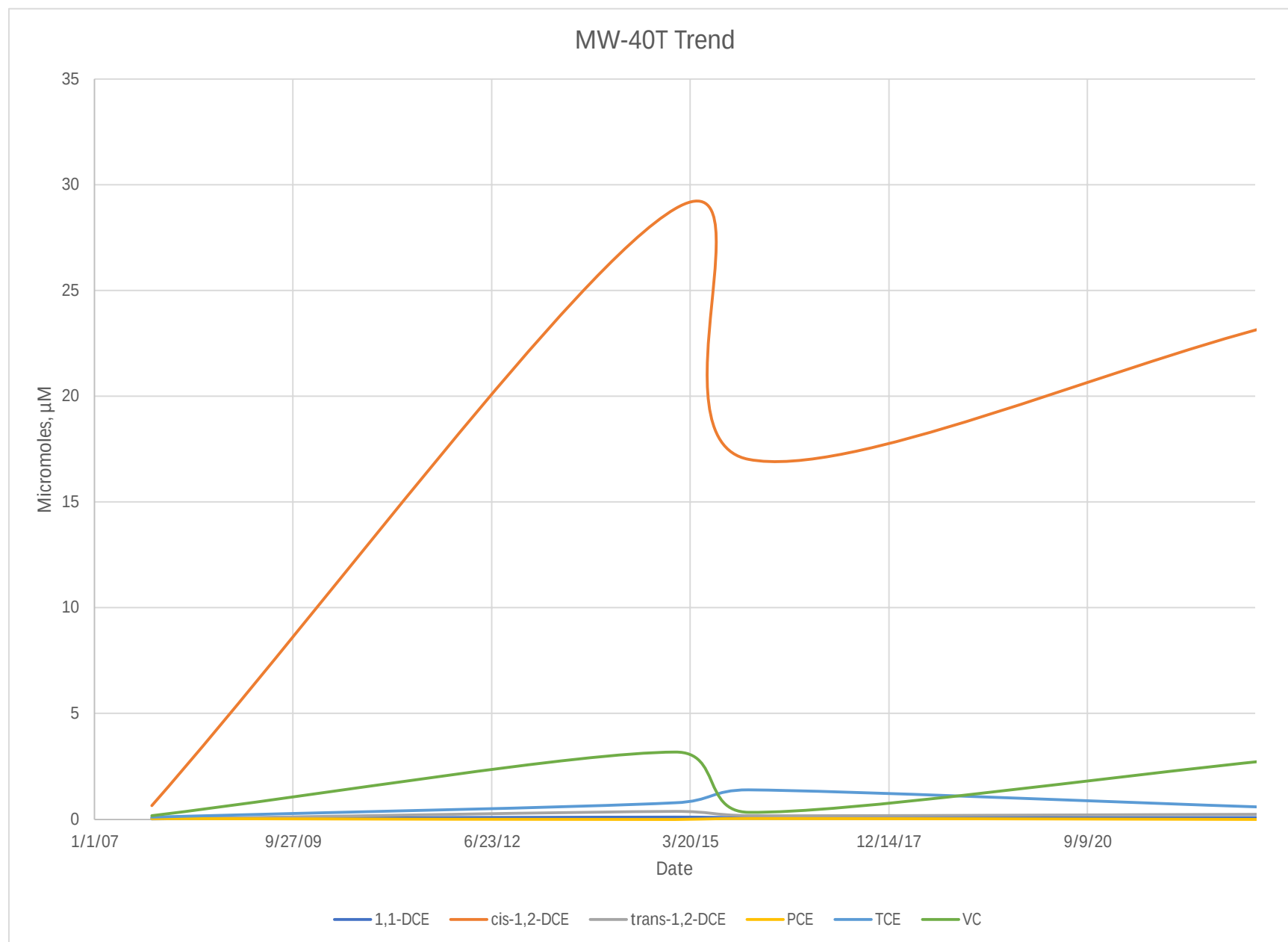
MW-31B Trend



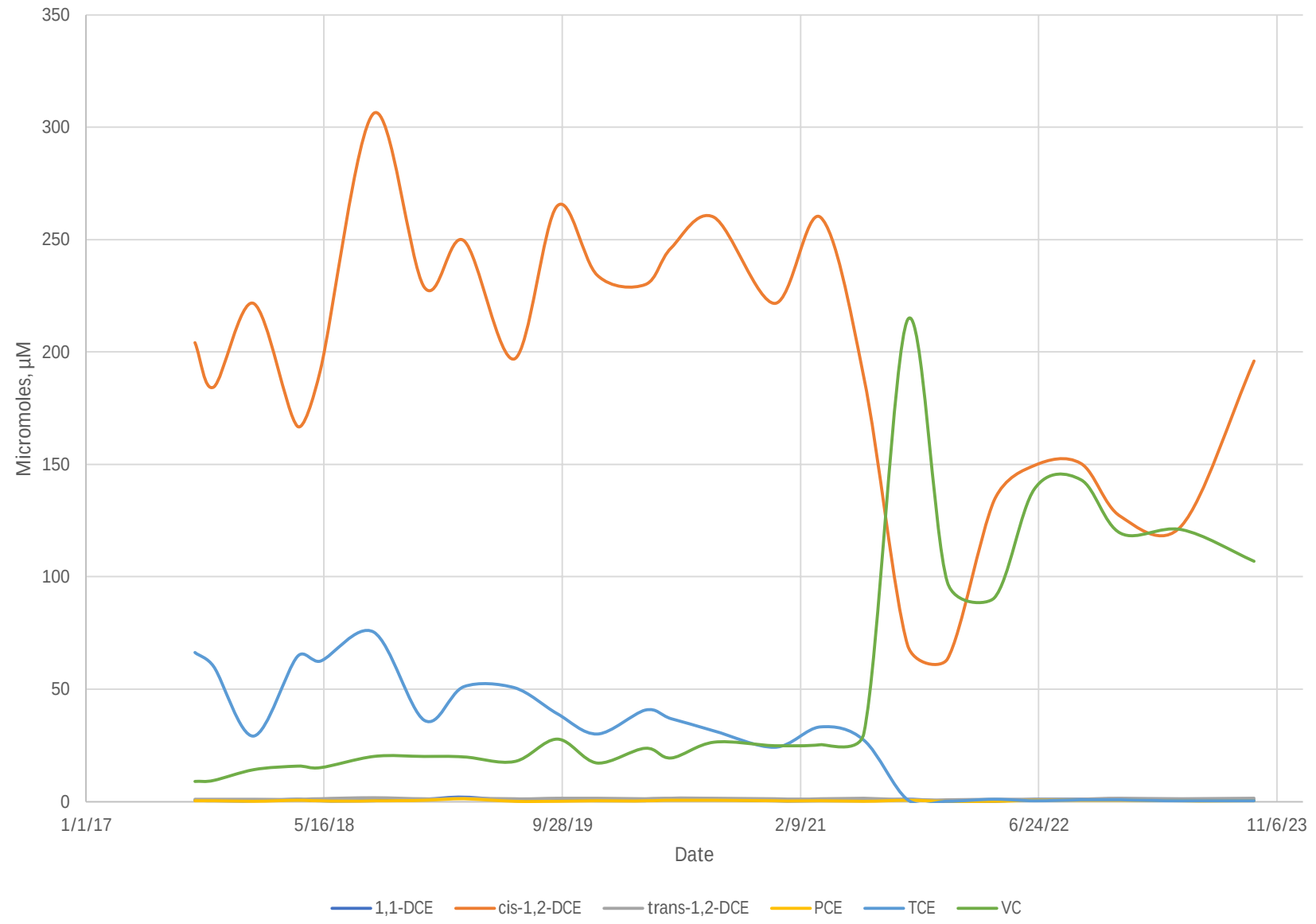
1,1-DCE cis-1,2-DCE trans-1,2-DCE PCE TCE VC

MW-32B Trend

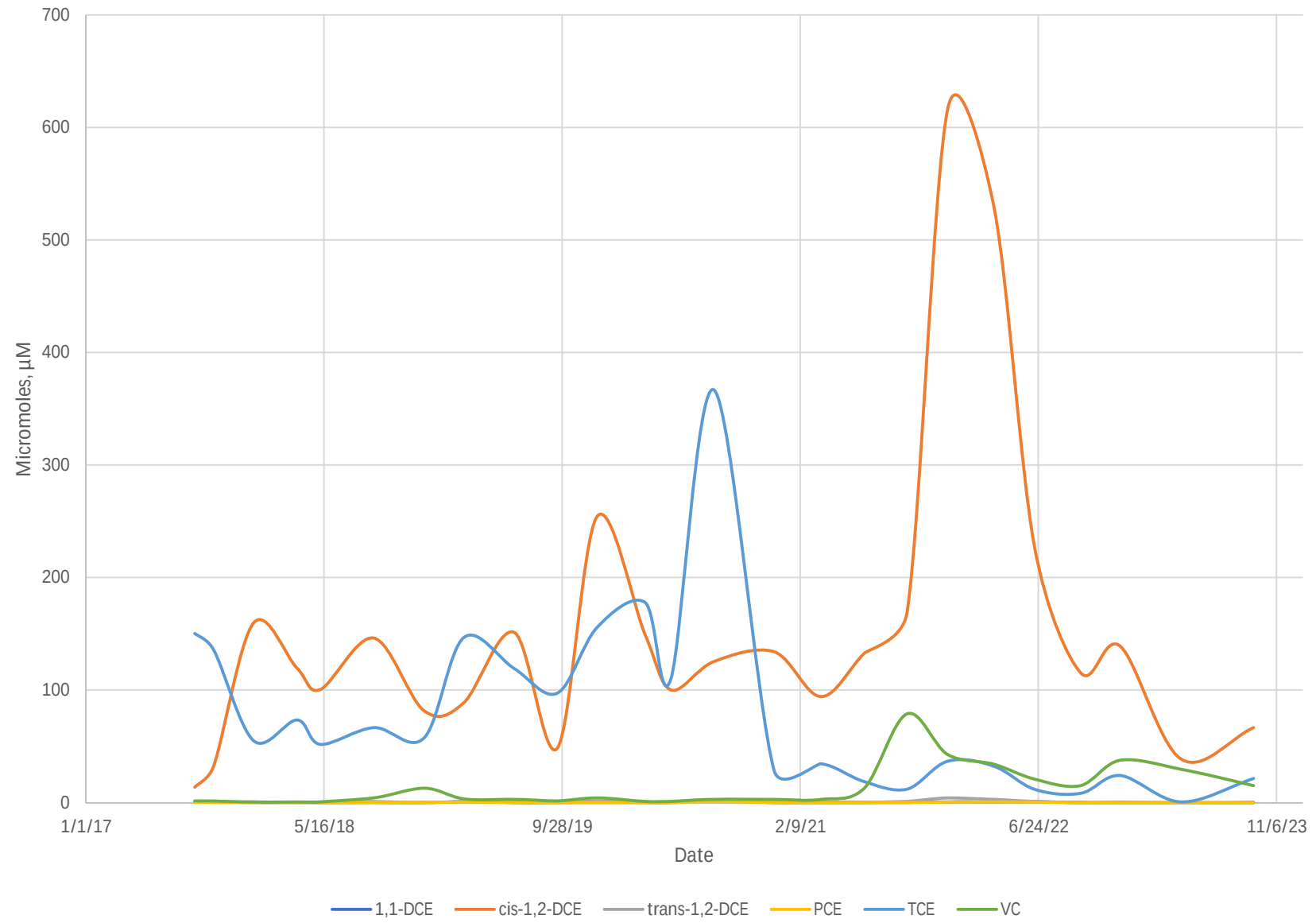




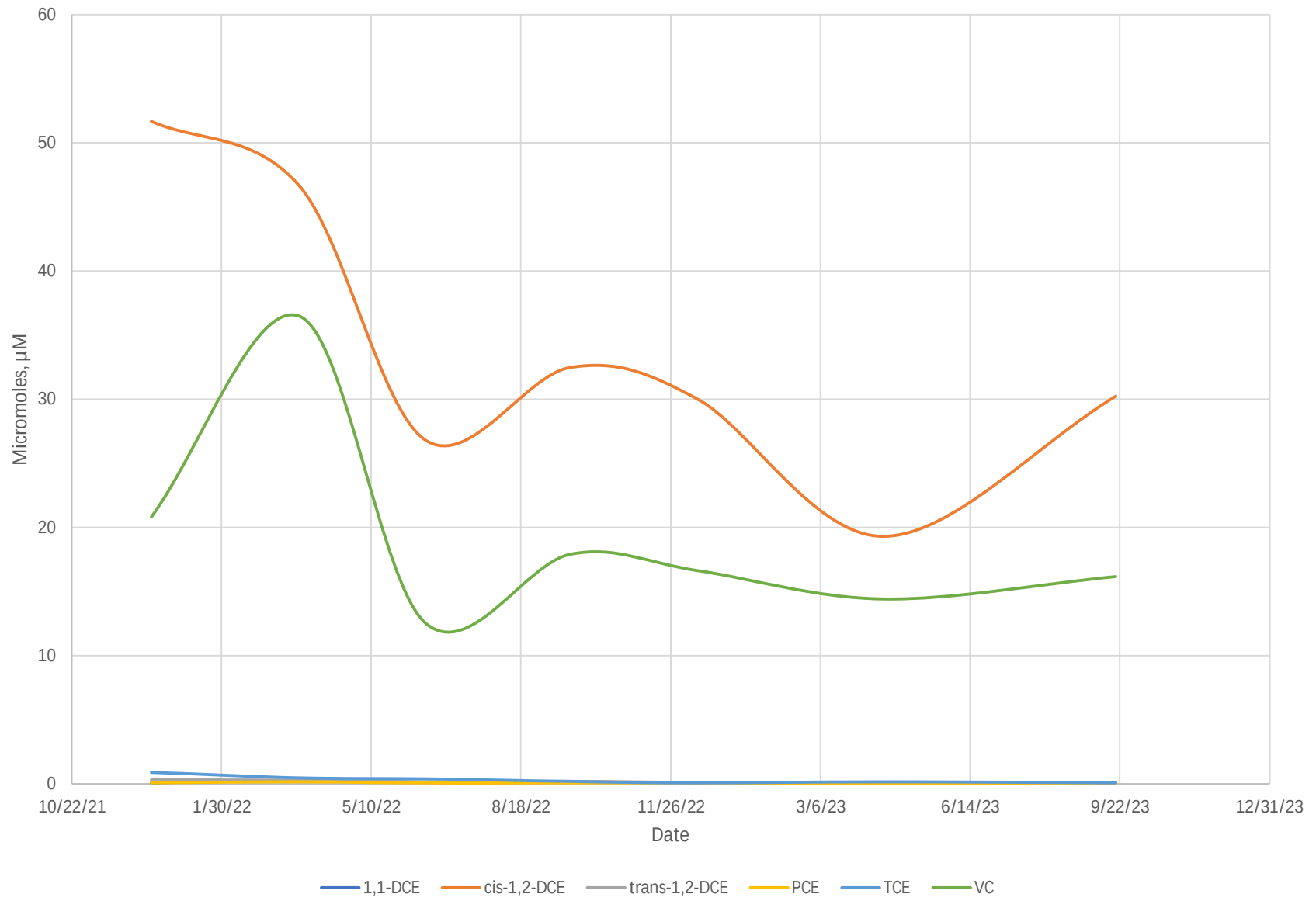
MW-46-43C Trend



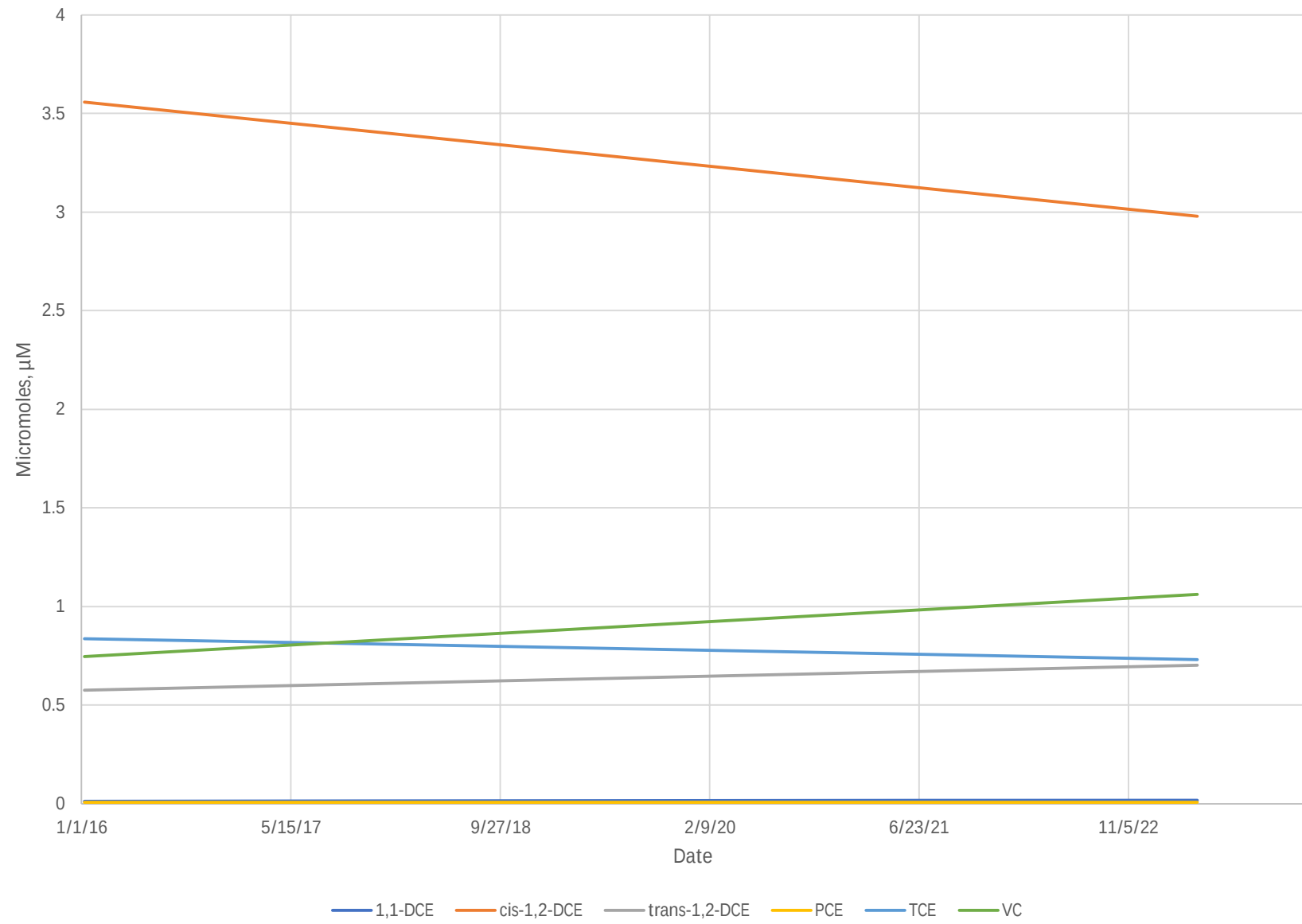
MW-46-72C Trend



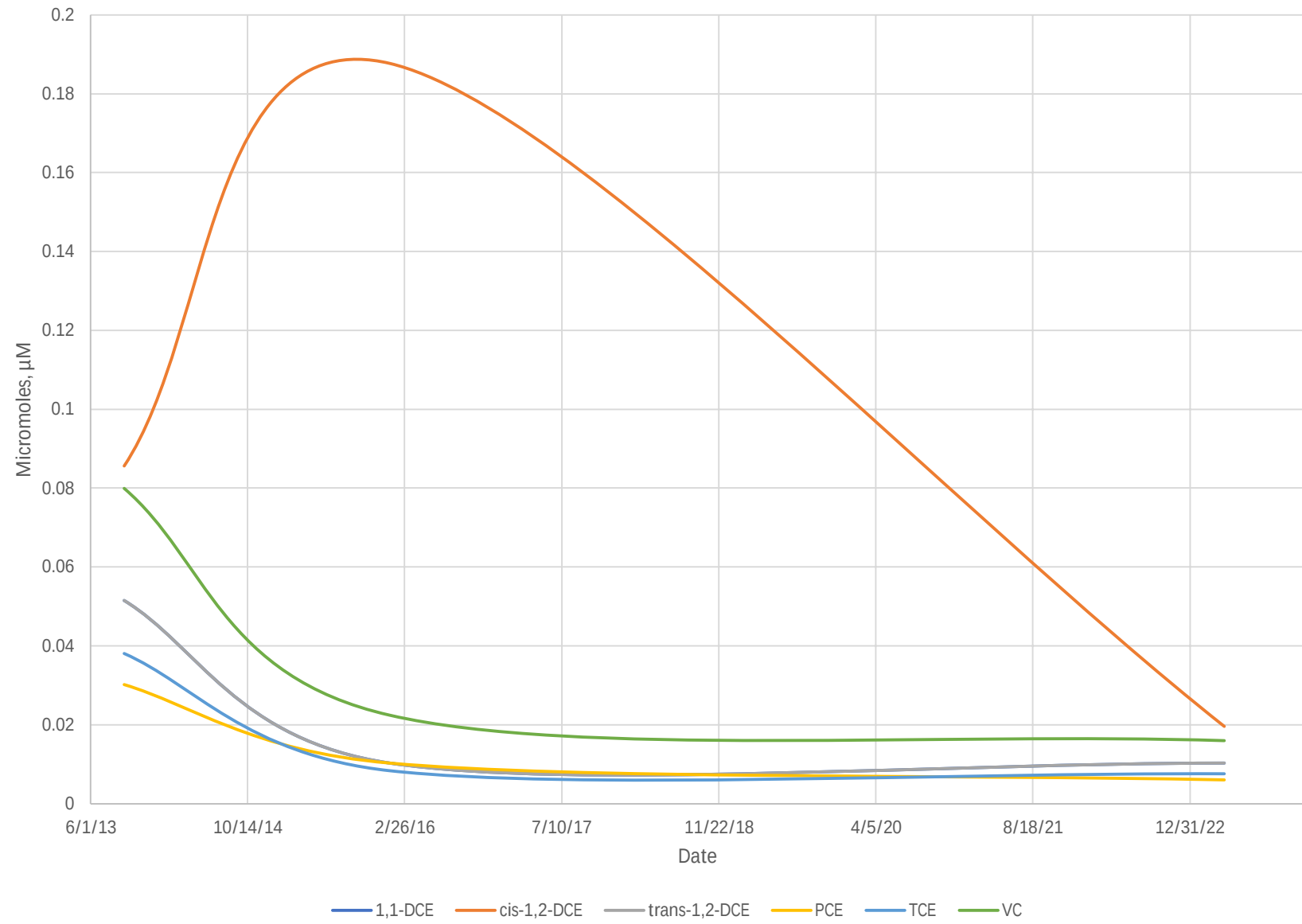
MW-50-160D Trend

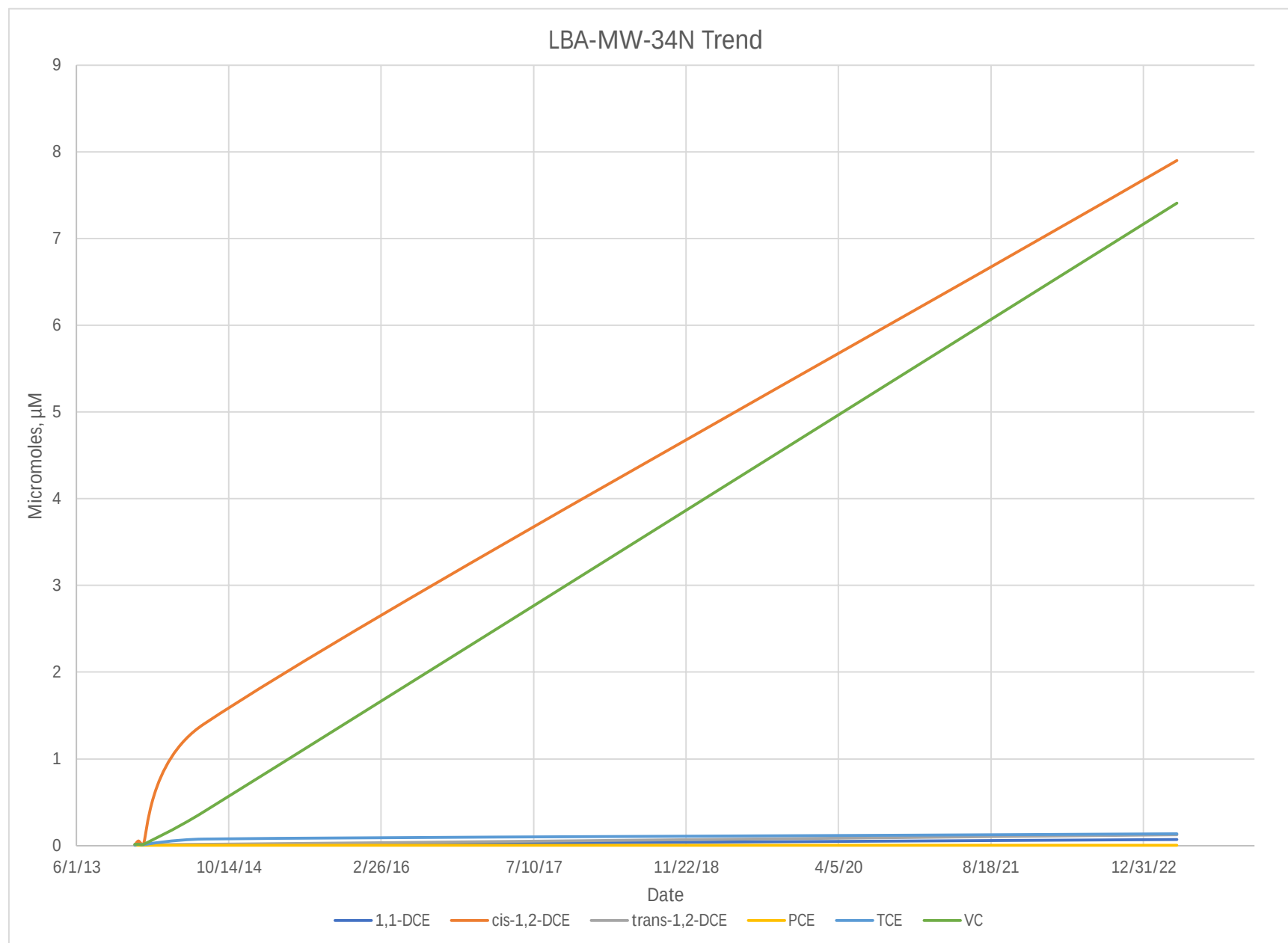


WSP-MW-04B Trend

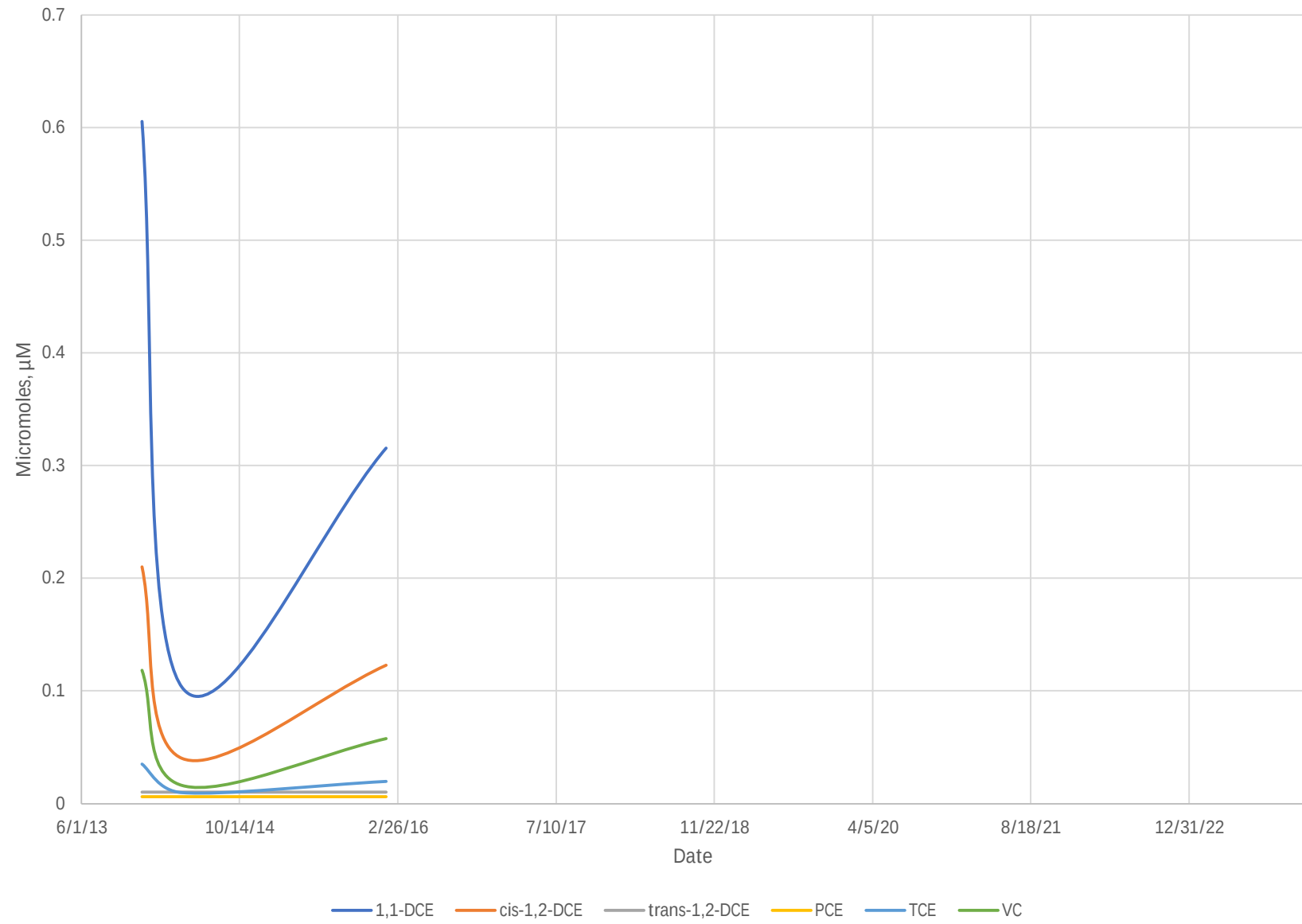


LBA-MW-23 Trend





LBA-MW-39 Trend



APPENDIX

J DATA USABILITY AND SUMMARY REPORTS



Data Usability Summary Report	Project: Former EPT Ithaca
Date Completed: January 4, 2024	Completed by: Eridania Marte

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- EPA Region 2 Data Validation SOP No. HW-34A, Revision 1

The data validation was performed under Category B guidelines. Specific criteria for QC limits were obtained from the master QAPP. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
31401545.001.01	JD73381	SGS North America Inc.

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
JD73381	WQ	EB-091923	JD73381-7	09/19/2023 11:10		
JD73381	WQ	EB-092023	JD73381-13	09/20/2023 15:55		
JD73381	WG	EXB-10	JD73381-12	09/20/2023 15:07		
JD73381	WG	EXB-9	JD73381-3	09/19/2023 14:30	MS	
JD73381	WG	MW-0923	JD73381-6	09/19/2023 08:00	MS/MSD/FD	
JD73381	WG	MW-1B	JD73381-10	09/20/2023 11:30		
JD73381	WG	MW-2B	JD73381-11	09/20/2023 11:50		
JD73381	WG	MW-3B	JD73381-15	09/21/2023 09:20		
JD73381	WG	MW-46-43C	JD73381-5	09/19/2023 16:05		
JD73381	WG	MW-46-72C	JD73381-4	09/19/2023 15:35	MS	
JD73381	WG	MW-4B	JD73381-9	09/20/2023 11:10		
JD73381	WG	MW-50-160D	JD73381-1	09/19/2023 10:35		
JD73381	WG	MW-5-100	JD73381-14	09/20/2023 08:50		
JD73381	WG	MW-5-40	JD73381-8	09/20/2023 09:00		
JD73381	WG	MW-5B	JD73381-16	09/21/2023 09:40		
JD73381	WG	MW-7B	JD73381-2	09/19/2023 14:10		

Data Usability Summary Report	Project: Former EPT Ithaca
Date Completed: January 4, 2024	Completed by: Eridania Marte

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
JD73381	WG	8260D	Volatile Organic Compounds by GC/MS	13	N
JD73381	WG	8260D	Volatile Organic Compounds by GC/MS	1	FD
JD73381	WQ	8260D	Volatile Organic Compounds by GC/MS	2	RB

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs Equipment Blank - 1/20 samples	Yes. 1 FD per 13 samples. 1 MS/MSD per 13 samples. No trip blank collected in associated VOC cooler. 2 rinsate blanks collected.
Case narrative present and complete?	Yes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- MS/MSD Outside Limits (Table 4)
- LCS and ICV/CCV Outside Limits (Table 5)
- Reanalysis Results (Table 6)
- Field Duplicate Results (Table 7)

Go to [Tables](#) List

Data Usability Summary Report	Project: Former EPT Ithaca
Date Completed: January 4, 2024	Completed by: Eridania Marte

Volatile Organic Compounds by GC/MS – Method 8260D	
Description	Notes and Qualifiers
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). If not, were all samples reanalyzed for VOCs? Matrix effects should be established.	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	No. Multiple analytes exceeded acceptance criteria in the MS and/or MSD. If associated sample results were greater than 4X the spike amount and if sample result was non-detect and spike recovery was high, no qualification was made. Trichloroethene was J qualified as estimated in parent sample MW-46-72C.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. LCS V2G184-BS exceeded acceptance criteria for chloroethane. The associated sample results were non-detect for the analyte; therefore, no qualification was made.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit?	Yes.
Is %D in the continuing calibration for target compounds less than method specifications? (see Table 5B)	Yes. Multiple sample results were associated with CCVs outside of the acceptance criteria. The associated samples results were non-detect and UJ qualified as estimated non-detect.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Multiple samples were diluted due to high recovery in target analytes. Elevated reporting limits provided. Data usability issues may be present in the case where samples results were non-detect and elevated reporting limits exceed any applicable screening criteria.
For TICs are there any system related compounds that should not be reported?	Not applicable.

Data Usability Summary Report	Project: Former EPT Ithaca
Date Completed: January 4, 2024	Completed by: Eridania Marte

Volatile Organic Compounds by GC/MS – Method 8260D	
Description	Notes and Qualifiers
Do field duplicate results show good precision for all compounds (see Table 7)?	No. trans-1,2-Dichloroethene exhibited poor precision between parent sample MW-50-160D and duplicate MW-0923. The sample results were J qualified as estimated.

Quantitation Limits and Data Assessment: Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the analyses. These results were qualified as estimated (J) by the laboratory.

Data Validation Qualifiers Definitions:

J – The analyte QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. The 'J' qualified data may be biased high (+) or low (-) or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. The analyte QC analysis fails outside the primary acceptance limits. The "UJ" qualified data are not excluded from further review or consideration. The 'UJ' qualified data may be biased low.

Summary of Findings
VOCs by 8260D - Trichloroethene was J qualified as estimated in parent sample MW-46-72C due to MS/MSD exceedance. - Multiple sample results were UJ qualified as estimated non-detect due to CCVs exceedances. See Table 5B for applicable sample results. - Multiple samples were diluted due to high recovery in target analytes. Data usability issues may be present in the case where samples results were non-detect and elevated reporting limits exceed any applicable screening criteria. - trans-1,2-Dichloroethene was J qualified as estimated in samples MW-50-160D and MW-0923 due to poor duplicate RPD.

Data Usability Summary Report	Project: Former EPT Ithaca
Date Completed: January 4, 2024	Completed by: Eridania Marte

Table 2 - List of Positive Results for Blank Samples

None.

Table 2A – List of Samples Qualified for Method Blank Contamination

None.

Table 2B – List of Samples Qualified for Field Blank Contamination

None.

Table 3 - List of Samples with Surrogates outside Control Limits

None.

Table 4A – List of MS/MSD Recoveries outside Control Limits

Method	Parent Sample	Analyte	Orig. Result	Spike Amount	Dil Fac	Unit	Low Limit	High Limit	MS	SD	Sample Qualifier
8260D	EXB-9-ACTD	Chloroethane	ND	50	1	µg/L	48	152	200	206	None – High & ND
8260D	MW-46-72C	cis-1,2-Dichloroethene	6470	1000	20	µg/L	52	140	13	32	None - > 4X
8260D	MW-46-72C	Trichloroethene	2860	1000	20	µg/L	56	136	32	25	J
8260D	MW-0923	cis-1,2-Dichloroethene	2870	500	10	µg/L	52	140	148	138	None - > 4X

Table 4B – List of MS/MSD RPDs outside Control Limits

None.

Table 5A - List of LCS Recoveries outside Control Limits

Method	Sample ID	Analyte	Rec.	High Limit	Associated Samples	Sample Qualifier
8260D	V2G184-BS	Chloroethane	151	144	EB-092023 EXB-9 MW-1B MW-5B	None – High & ND

Table 5B – List of ICV/CCV Recoveries outside Control Limits

Method	Calibration ID	Matrix	Analyte	Associated Sample	%D Result	%D Limit	Sample Qualifier
8260D	V1G184-CC174 1G5547A.D	WG	1,1-Dichloroethane	EB-091923 EXB-10 MW-3B MW-46-43C MW-4B	20.2	20.0	UJ
8260D	V1G184-CC174 1G5547A.D	WG	Acetone		-22.9	20.0	UJ

Data Usability Summary Report	Project: Former EPT Ithaca
Date Completed: January 4, 2024	Completed by: Eridania Marte

Table 5B – List of ICV/CCV Recoveries outside Control Limits

Method	Calibration ID	Matrix	Analyte	Associated Sample	%D Result	%D Limit	Sample Qualifier
				MW-50-160D MW-5-40			
8260D	V1G184-CC174 1G5547A.D	WG	Bromomethane	EB-091923 EXB-10 MW-4B	-22.8	20.0	UJ
8260D	V1G184-CC174 1G5547A.D	WG	1,2-Dichloroethane		26.4	20.0	UJ
8260D	V1G184-CC174 1G5547A.D	WG	Chloroethane		-20.7	20.0	UJ
8260D	V1G184-CC174 1G5547A.D	WG	Bromoform		20.1	20.0	UJ
8260D	V1K321-CC275 1K11151.D	WG	Acetone	MW-2B MW-46-72C MW-7B	-46.1	20.0	UJ
8260D	V1K321-CC275 1K11151.D	WG	Carbon tetrachloride		20.6	20.0	UJ
8260D	V1K321-CC275 1K11151.D	WG	Chloroethane		-39.5	20.0	UJ
8260D	V1K321-CC275 1K11151.D	WG	Cyclohexane		22.9	20.0	UJ
8260D	V1K321-CC275 1K11151.D	WG	Methylcyclohexane		25.3	20.0	UJ
8260D	V2G184-CC174 2G5548A.D	WG	Chloroethane	EB-092023 EXB-9 MW-1B MW-5B	-76.0	20.0	UJ
8260D	V2G184-CC174 2G5548A.D	WG	1,1-Dichloroethane		22.9	20.0	UJ
8260D	V2G184-CC174 2G5548A.D	WG	1,2-Dichloroethane			20.0	UJ
8260D	V2G184-CC174 2G5548A.D	WG	Acetone		23.0	20.0	UJ
8260D	V2G184-CC174 2G5548A.D	WG	Chloromethane		36.0	20.0	UJ
8260D	V2G184-CC174 2G5548A.D	WG	Carbon tetrachloride		22.1	20.0	UJ
8260D	V2G184-CC174 2G5548A.D	WG	Bromoform		20.1	20.0	UJ
8260D	V2G184-CC174 2G5548A.D	WG	Vinyl chloride	EB-092023 EXB-9	23.7	20.0	UJ

Data Usability Summary Report	Project: Former EPT Ithaca
Date Completed: January 4, 2024	Completed by: Eridania Marte

Table 5B – List of ICV/CCV Recoveries outside Control Limits

Method	Calibration ID	Matrix	Analyte	Associated Sample	%D Result	%D Limit	Sample Qualifier
				MW-1B			
8260D	V2K321-CC275 2K11152.D	WG	Methylcyclohexane	MW-0923 MW-5-100	22.9	20.0	UJ
8260D	V2K321-CC275 2K11152.D	WG	Chloroethane		-39.2	20.0	UJ

Table 6 –Samples that were Re-analyzed

Sample ID	Lab ID	Method	Test Type	Action
MW-0923	JD73381-6	8260D	INITIAL	10X: Dilution required due to high concentration of target compound.
MW-0923	JD73381-6	8260D	DILUTION1	100X: Dilution required due to high concentration of cis-1,2-Dichloroethene.
MW-2B	JD73381-11	8260D	INITIAL	50X: Dilution required due to high concentration of target compound.
MW-2B	JD73381-11	8260D	DILUTION1	500X: Dilution required due to high concentration of Trichloroethene.
MW-3B	JD73381-15	8260D	DILUTION1	250X: Dilution required due to high concentration of cis-1,2-Dichloroethene.
MW-3B	JD73381-15	8260D	INITIAL	25X: Dilution required due to high concentration of target compound.
MW-46-43C	JD73381-5	8260D	DILUTION1	250X: Dilution required due to high concentration of cis-1,2-Dichloroethene.
MW-46-43C	JD73381-5	8260D	INITIAL	50X: Dilution required due to high concentration of target compound.
MW-46-72C	JD73381-4	8260D	INITIAL	20X: Dilution required due to high concentration of target compound.
MW-46-72C	JD73381-4	8260D	DILUTION1	200X: Dilution required due to high concentration of cis-1,2-Dichloroethene.
MW-50-160D	JD73381-1	8260D	DILUTION1	100X: Dilution required due to high concentration of cis-1,2-Dichloroethene.
MW-50-160D	JD73381-1	8260D	INITIAL	10X: Dilution required due to high concentration of target compound.
MW-5-40	JD73381-8	8260D	DILUTION1	250X: Dilution required due to high concentration of cis-1,2-Dichloroethene.
MW-5-40	JD73381-8	8260D	INITIAL	50X: Dilution required due to high concentration of target compound.
MW-5B	JD73381-16	8260D	DILUTION1	5X: Dilution required due to high concentration of cis-1,2-Dichloroethene and vinyl chloride.
MW-5B	JD73381-16	8260D	INITIAL	4X: Dilution required due to high concentration of target compound.

Table 7 –Summary of Field Duplicate Samples

Method	Analyte	Unit	Matrix	PQL	MW-50-160D	MW-0923	RPD	RPD Rating	Sample Qualifier
8260D	cis-1,2-Dichloroethene	ug/l	WG	0.015	2930	2870	2.1%	Good	None
8260D	trans-1,2-Dichloroethene	ug/l	WG	0.004	6.4	18.9	98.8%	Poor	J Flag
8260D	Vinyl chloride	ug/l	WG	9.5	1010	1450	35.8%	Good	None

Data Usability Summary Report	Project: Former EPT Ithaca
Date Completed: January 4, 2024	Completed by: Eridania Marte

Acronym List and Table Key:

CCV	=	continuing calibration verification
COC	=	chain of custody
DUSR	=	data usability summary report
FB	=	field blank
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
µg/L	=	micrograms per liter
MS	=	matrix spike
MSD	=	matrix spike duplicate
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
NYSDEC	=	New York State Department of Environmental Conservation
PQL	=	practical quantitation limit
QA	=	quality assurance
QAPP	=	quality assurance project plan
QC	=	quality control
RB	=	equipment rinse blank
RPD	=	relative percent difference
RL	=	reporting limit
SDG	=	sample delivery group
TB	=	trip blank
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation

APPENDIX

K MONITORING WELL PURGE FORMS

VOCs



WSP Engineering of New York, P.C.
5 Sullivan Street
Cazenovia, NY 13035 (315) 655-3900 • Fax (315) 655-3907

Low-Flow Groundwater Sampling Monitoring Form

Well ID	EXB-10	Site ID:	EPT - Ithaca, New York	Sample Date:	04/17/23
Well Diameter	4 in	Sampling Event:	Quarterly Groundwater Sampling		
Depth to Water	30.88 ft				
Total Well Depth	64 ft	Samplers	KGG, ESR		
Screen Length	N/A ft	Weather Conditions and Notes:	Cloudy, 56 °F		
Pump Intake	47 ft	Flow Rate	50 mL/min		

Stabilized: ± 10 -percent for temperature, turbidity, DO, and ORP; ± 0.1 unit for pH; and ± 3 -percent for specific conductance

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp:		56 °F	°F	Start purge:	14:25	End purge:	15:45	Pump Type:	QED Sample pro w/ MP-15 and CO ₂	
Time	DTW	Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/l) *	T (°C)	ORP (mV)	Appearance of Purge Water	Flow Rate (mL/min)
14:40	31.18	Initial	7.12	2.42	0.0	2.95	14.59	16	Clear	60
14:45	31.29	0.30	7.15	2.50	0.0	2.27	14.31	-25	Clear	50
14:50	31.39	0.55	7.16	2.55	0.0	1.74	14.08	-55	Clear	50
14:55	31.48	0.80	7.16	2.58	0.0	1.45	13.87	-71	Clear	50
15:00	31.58	1.05	7.17	2.59	0.0	1.24	13.69	-80	Clear	50
15:05	31.67	1.30	7.17	2.60	0.0	1.08	13.48	-85	Clear	50
15:10	31.76	1.50	7.17	2.61	0.0	0.98	13.31	-89	Clear	40
15:15	31.96	1.70	7.16	2.61	0.0	0.73	12.87	-90	Clear	180
15:20	32.32	2.60	7.16	2.63	0.0	0.35	12.94	-94	Clear	190
15:25	32.75	3.50	7.16	2.63	0.0	0.16	12.95	-97	Clear	180
15:30	33.03	4.40	7.16	2.62	0.0	0.08	12.94	-99	Clear	180
15:35	33.42	4.5.20	7.16	2.63	0.0	0.06	12.95	-103	Clear	180
15:40	End purge collect sample									

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type*	Lab	Sample Time	Comments
3	EXB-10	VOCs	HCL	vot	SGS	15:40	



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Well ID	LPA-MW-435	Site ID:	EPT - Ithaca, New York	Sample Date:	04/20/23
Well Diameter	2 in	Sampling Event:	Quarterly Groundwater Sampling		
Depth to Water	28.15 ft				
Total Well Depth	47 ft	Samplers	KGG, PHP		
Screen Length	11 ft	Weather Conditions and Notes:	Indoors		
Pump Intake	43 ft	Flow Rate	50 mL/min		

Stabilized ± 10 -percent for temperature, turbidity, DO, and ORP, ± 0.1 unit for pH, and ± 3 -percent for specific conductance

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 55		°F		Start purge: 0855		End purge:		Pump Type:		QED Sample pro w/ MP-15 and CO ₂	
Time	DTW	Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/l) *	T (°C)	ORP (mV)	Appearance of Purge Water	Flow Rate (mL/min)	
0900	28.19	Int	5.36	2.46	10.4	8.84	13.74	279	Clear	150	
0905	28.75	0.25	6.07	2.41	8.5	8.14	14.58	126	Clear	75	
0910	29.02	1.125	6.50	2.41	6.6	7.92	14.60	24	Clear	100	
0915	29.10	1.625	6.40	2.41	6.3	7.53	14.52	-13	Clear	45	
0920	29.54	1.875	6.48	2.41	6.1	7.43	14.33	-33	Clear	50	
0925	30.07	2.125	6.53	2.40	7.0	7.08	14.47	-40	Clear	50	
0930	30.42	2.375	6.56	2.39	8.5	6.69	14.61	-41	Clear	50	
0935	31.02	2.625	6.58	2.39	8.7	6.27	14.66	-37	Clear	50	
0940	31.38	2.875	6.60	2.39	8.9	5.94	14.73	-29	Clear	50	
0945	31.75	3.125	6.61	2.38	9.3	5.84	14.77	-22	Clear	50	
0950	32.15	3.375	6.62	2.39	10.1	5.45	14.76	-11	Clear	50	
0955	32.68	3.625	6.63	2.38	11.9	5.30	14.82	0	Clear	50	
1000	33.18	3.875	6.63	2.38	11.3	5.01	14.83	11	Clear	50	
1005	33.56	4.125	6.64	2.38	12.3	4.93	14.84	22	Clear	50	
1010	34.05	4.375	6.65	2.38	11.8	4.38	14.87	33	Clear	50	
1015	34.62	4.625	6.66	2.38	11.2	4.22	14.90	49	Clear	50	

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments
	BARUM						
	CYANIDE						



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Low-Flow Groundwater Sampling Monitoring Form

Page 2 of 2

Well ID	16A-MW-4345	Site ID: 16A-EPT - Ithaca, New York	Sample Date:	04/20/23
Well Diameter	2 in	Sampling Event:	Quarterly Groundwater Sampling	
Depth to Water	28.15 ft			
Total Well Depth	47 ft	Samplers	KGG, PHP	
Screen Length	11 ft	Weather Conditions and Notes:	Indoors	
Pump Intake	43 ft	Flow Rate	50 mL/min	

Stabilized ± 10 -percent for temperature, turbidity, DO, and ORP, ± 0.1 unit for pH, and ± 3 -percent for specific conductance

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp:		55	°F	Start purge:		0855	End purge:		Pump Type:		GED Sample pro w/ MP-15 and CO ₂
Time	DTW	Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/l) *	T (°C)	ORP (mV)	Appearance of Purge Water	Flow Rate (mL/min)	
1020	34.90	4.825	6.67	2.38	12.2	3.91	14.90	57	Clear	50	
1025	35.31	5.125	6.67	2.38	11.5	3.87	14.87	68	Clear	50	
1030	35.75	5.375	6.67	2.38	10.9	3.85	14.97	79	Clear	50	
1035	36.15	5.625	6.68	2.38	10.6	3.52	14.92	90	Clear	50	
1040	36.70	5.875	6.68	2.38	11.6	3.52	14.92	100	Clear	50	
1045	36.82	6.125	6.68	2.38	10.7	3.28	14.92	110	Clear	50	
1050	36.89	6.375	6.69	2.38	10.0	3.22	14.90	120	Clear	50	
1055	Stop purge and collect sample.										

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments
	EXAMINE					10:55	
	Barium					10:55	



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Low-Flow Groundwater Sampling Monitoring Form

Well ID	EXB-09	Site ID:	EPT - Ithaca, New York	Sample Date:	9/17/23
Well Diameter	4 in	Sampling Event:	Quarterly Groundwater Sampling		
Depth to Water	37.9 ft				
Total Well Depth	64 ft	Samplers	ESR, KGG, PHP, WXD		
Screen Length	NA ft	Weather Conditions and Notes:	Cloudy, 53°F		
Pump Intake	51 ft	Flow Rate	50		

Stabilized: ± 10 -percent for temperature, turbidity, DO, and ORP; ± 0.1 unit for pH; and ± 3 -percent for specific conductance

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp:	55	F	Start purge:	10:40	End purge:	11:35	Pump Type:	QED Sample pro w/ MP-15 and CO ₂		
Time	DTW	Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/l) *	T (°C)	ORP (mV)	Appearance of Purge Water	Flow Rate (mL/min)
10:50	38.05	Init	8.13	1.37	0.0	5.36	14.49	-25	clear	40
10:55	38.15	0.25	8.13	1.39	0.0	5.36	14.49	-25	clear	60
11:00	38.26	0.50	8.13	1.39	0.0	5.36	14.49	-25	clear	70
11:05	38.40	0.75	8.13	1.39	0.0	5.36	14.49	-25	clear	50
11:10	38.49	1.00	6.18	1.42	0.0	3.53	13.21	210	clear	50
11:15	38.62	1.25	6.06	1.42	0.0	3.46	13.22	225	clear	60
11:20	38.78	1.50	6.01	1.42	0.0	3.37	13.20	234	clear	60
11:25	38.95	2.00	5.96	1.42	0.0	3.32	13.16	241	clear	50
11:35	Stop	Stop purge Collect Sample								

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments
3	EXB-09	VOC's	HCL	VOA	SGS	11:35	
3	EXB-09-MS	VOC's	HCL	VOA	SGS	11:35	
3	EXB-09-MSD	VOC's	HCL	VOA	SGS	11:35	



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Low-Flow Groundwater Sampling Monitoring Form

Well ID	LA-MW-43N	Site ID:	EPT - Ithaca, New York	Sample Date:	04/20/23
Well Diameter	4.12 in	Sampling Event:	Quarterly Groundwater Sampling		
Depth to Water	11.68 ft				
Total Well Depth	25 ft	Samplers	KGG, WXD		
Screen Length	17 ft	Weather Conditions and Notes:	Indoors		
Pump Intake	23 ft	Flow Rate	100 mL/min		

Stabilized ± 10 -percent for temperature, turbidity, DO, and ORP, ± 0.1 unit for pH, and ± 3 -percent for specific conductance

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 55		°F		Start purge: 12:50		End purge:		Pump Type:		QED Sample pro w/ MP-15 and CO ₂	
Time	DTW	Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/l) *	T (°C)	ORP (mV)	Appearance of Purge Water	Flow Rate (mL/min)	
12:52	17.77	1.00	6.89	2.21	10.3	6.88	14.36	114	Clear	200	
12:57	11.48	1.00	6.89	2.21	5.6	5.92	14.67	6	Clear	100	
13:02	12.17	1.50	6.85	2.21	4.5	5.58	14.77	-39	Clear	100	
13:07	12.31	2.00	6.85	2.21	4.1	4.85	14.82	-55	Clear	100	
13:12	12.47	2.50	6.84	2.20	3.7	4.64	14.87	-62	Clear	100	
13:17	12.78	3.00	6.84	2.20	4.0	4.28	14.90	-66	Clear	100	
13:22	12.78	3.50	6.84	2.20	3.6	4.34	14.91	-69	Clear	100	
13:27	12.78	4.00	6.84	2.20	3.5	3.65	14.93	-71	Clear	100	
13:32	12.78	4.50	6.84	2.20	4.1	3.51	14.94	-73	Clear	100	
13:37	12.98	5.00	6.84	2.20	3.5	3.03	14.96	-76	Clear	100	
13:42	13.00	5.50	6.84	2.20	3.7	3.21	14.96	-78	Clear	100	
13:47	13.02	6.00	6.84	2.20	3.8	2.56	14.97	-81	Clear	100	
13:52	13.09	6.50	6.85	2.20	3.6	2.64	14.97	-83	Clear	100	
13:57	13.15		6.85	2.20	3.4	2.41	14.98	-88	Clear	100	
14:02	Stop purge and sample										

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments
	CYANIDE					14:02	



Low Flow Groundwater Sampling Monitoring Form

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Well ID	LBA-MW-35	Site ID:	EPT - Ithaca, New York	Sample Date:	04/19/23
Well Diameter	4 in	Sampling Event:	Quarterly Groundwater Sampling		
Depth to Water	7.08 ft	Samplers	KGG, PHP, FSM		
Total Well Depth	32 ft	Weather Conditions and Notes:	Inside		
Screen Length	25? ft	Sustained Flow Rate			
Pump Intake	29.0 ft				

Stabilization: Drawdown < 0.3 foot (if possible); Temp $\pm 3\%$; pH ± 0.1 ; ORP ± 10 mV; Conductivity $\pm 3\%$; Turbidity < 5 NTU (if possible, otherwise $\pm 10\%$); D.O. $\pm 10\%$ if > 0.5 mg/L.

Instrument Calibration Information										
pH Meter Calibration			Horiba U52 with flow-through cell							
# 7.00 Stand.	pH 4.01 Stand.	Slope (mV/pH)	Notes on calibration:							
			Calibrated to manufacturer's specifications using auto-calibration standard solution							
Air temp =	55	°F								
Well Purging Information			Start purge: 08:44		End purge: 09:35		Pump Type: OED Sample pro w/ MP-15 and CO ₂			
Time	DTW (ft bloc)	Purge Volume (L)	T (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/l)	Appearance of Purge Water/Comments	Flow Rate (mL/min)
0852	6.73	Initial	14.74	6.40	86	1.26	25.2	1.52	Clear	100
0902	6.82	0.15	15.12	7.11	-8	1.21	13.8	0.57	Clear	75
0904	6.94	0.15	15.18	7.19	-26	1.20	10.5	0.43	Clear	75
0909	7.05	0.15	15.27	7.23	-52	1.20	6.4	0.22	Clear	75
0915	7.15	0.15	15.30	7.24	-67	1.20	4.0	0.15	Clear	75
0918	7.21	0.15	15.33	7.24	-74	1.20	3.7	0.14	Clear	75
0920	7.22	0.15	15.33	7.23	-77	1.20	4.2	0.06	Clear	75
0925	7.32	0.15	15.38	7.19	-80	1.18	4.9	0.05	Clear	75
0930	7.38	0.15	15.37	7.17	-82	1.20	3.8	0.02	Clear	75
0935	stop purge and collect sample.									
04/19/23										
Laboratory Analysis Information										
# of Bottles	Analytes	Collection Method	Preservative	Bottle Type	Analytical Lab	Filtered/Unfiltered	Comments	Sample Time		
	Barium							0935		
	Cyanide							0935		

Note: Frequency of measurement depends on purge rate. At a minimum, the volume of the flow-through cell must turn over between each measurement.



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Groundwater Sampling Monitoring Form

Well ID	LBA-1W-23	Site:	EPT - Ithaca, NY	Sample Date:	
Well Diameter	2 in	Sampling Event	Annual/Semi-Annual/Quarterly Groundwater Sampling		
Depth to Water (btoc)	4.68 ft	Samplers	NTW, KGG, PHP		
Total Well Depth (btoc)	22.1 ft	Weather Conditions:	Rain		
Height of Water Column	17.42 ft	Notes:			
Well Volume	2.84 x 3 = gal 8.52				

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 53 °F Start purge: End purge: Pump Type: QED Sample pro w/ MP-15 and CO₂

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
NT	5.56	9.58	103	0.845	41.9	7.68	
1.2	3.53	9.76	118	0.837	73.1	7.68	
2.1	3.74	9.58	137	0.782	60.2	7.69	
3.0	6.99	9.23	148	0.818	115	7.71	
3.9	5.07	9.32	153	0.843	159	7.78	
4.8	8.31	9.59	166	0.850	317	7.65	
5.4	8.12	9.80	167	0.846	376	7.66	
Well Dry @ 5.5 Gal							
Kevin Green							

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments



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Groundwater Sampling Monitoring Form

Well ID	MW-401	Site:	EPT - Ithaca, NY	Sample Date:	
Well Diameter	2 in	Sampling Event	Annual/Semi-Annual/Quarterly Groundwater Sampling		
Depth to Water (btoc)	7.43 ft	Samplers	NTW, ~~KGG~~ KGG, PHP		
Total Well Depth (btoc)	18.70 ft	Weather Conditions:	50°F, clud		
Height of Water Column	11.27 ft	Notes:			
Well Volume	1.84 x 3 gal		3 x 5.5		

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: °F Start purge: End purge: Pump Type: QED Sample pro w/ MP-15 and CO₂

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
NT	3.39	9.18	199	0.918	237	7.30	
0.6	8.47	9.14	160	0.918	407	9.14	
1.2	8.90	8.86	142	0.918	374	7.34	
1.8	3.09	8.92	124	0.919	322	8.92	
2.4	2.80	8.78	106	0.918	400	7.38	
3.0	11.41	8.85	96	0.920	392	7.38	
3.6	7.04	8.80	84	0.921	316	7.36	
Well	Dry after 3.8 Gal.						
Heidi Kautz							

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments



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Low-Flow Groundwater Sampling Monitoring Form

Well ID	MW-50-160D	Site ID:	EPT - Ithaca, New York	Sample Date:	4/17/23
Well Diameter	4 in	Sampling Event:	Quarterly Groundwater Sampling		
Depth to Water	105.12 ft				
Total Well Depth	163.7 ft	Samplers	EJM		
Screen Length	N/A ft	Weather Conditions and Notes:	55° Mostly Cloudy		
Pump Intake	158.7 ft	Flow Rate	90 mL/min		

Stabilized: ±10-percent for temperature, turbidity, DO, and ORP; ±0.1 unit for pH; and ±3-percent for specific conductance

Instrument Calibration Information
Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information											
Air temp:		57 °F		Start purge:		4.26		End purge:		Pump Type: QED Sample pro w/ MP-15 and CO ₂	
Time	DTW	Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/l) *	T (°C)	ORP (mV)	Appearance of Purge Water	Flow Rate (mL/min)	
1455	106.65	0	11.10	2.20	4.7	1.43	15.20	-89	Clear	90 mL/min	
1500	106.90	2.450	10.51	2.10	1.8	1.04	14.19	-125	Clear	90 mL/min	
1505	106.90	2.900	9.57	2.02	1.2	0.68	13.99	-127	Clear	90 mL/min	
1510	106.90	1.350	8.60	1.99	1.7	0.06	13.75	-100	Clear	90 mL/min	
1515	106.90	1.800	7.98	1.99	1.7	0.68	13.69	-75	Clear	90 mL/min	
1520	106.90	2.25	6.97	2.01	2.2	0.57	13.70	-55	Clear	90 mL/min	
1525	106.90	2.7	6.56	2.02	2.7	0.58	13.80	-53	Clear	90 mL/min	
1530	106.90	3.15	6.27	2.02	2.3	0.89	13.75	-55	Clear	90 mL/min	
1535	106.90	3.60	6.07	2.03	2.9	0.84	13.61	-57	Clear	90 mL/min	
1540	106.90	4.05	5.96	2.03	2.4	0.63	13.57	-61	Clear	90 mL/min	
1545	106.90	4.5	5.85	2.03	0.9	0.71	13.54	-66	Clear	90 mL/min	
1550	106.90	4.95	5.84	2.03	0.8	0.77	13.50	-69	Clear	90 mL/min	
1555	106.90	5.4	5.82	2.02	1.1	0.75	13.51	-74	Clear	90 mL/min	

Laboratory Analysis Information							
# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments
3	MW-50-160D					1600	
3	MW-041723A					1200	



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Low-Flow Groundwater Sampling Monitoring Form

Well ID	LBA-MW-30	Site ID:	EPT - Ithaca, New York	Sample Date:	4/18/23
Well Diameter	2 in	Sampling Event:	Quarterly Groundwater Sampling		
Depth to Water	9.42 ft				
Total Well Depth	25 ft	Samplers	EJM		
Screen Length	15-25 ft	Weather Conditions and Notes:	39' Cloudy		
Pump Intake	22.5 ft	Flow Rate	50 mL/min		

Stabilized: ± 10 -percent for temperature, turbidity, DO, and ORP; ± 0.1 unit for pH; and ± 3 -percent for specific conductance

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: °F				Start purge: 0923		End purge:		Pump Type: QED Sample pro w/ MP-15 and CO ₂		
Time	DTW	Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/l) *	T (°C)	ORP (mV)	Appearance of Purge Water	Flow Rate (mL/min)
0949	11.06	0	5.20	1.11	18.6	2.62	11.42	225	Clear	50
0954	11.40	0.25	5.20	1.10	18.0	3.02	11.60	208	Clear	50
0959	11.70	0.5	5.18	1.10	17.8	1.86	11.42	194	Clear	50
1004	12.02	0.75	5.16	1.10	19.6	1.27	11.28	188	Clear	50
1009	12.20	1.0	5.16	1.09	19.3	1.18	11.19	185	Clear	50
1014	12.39	1.25	5.16	1.09	19.0	1.16	11.11	184	Clear	50
1019	12.60	1.5	5.16	1.09	18.6	1.06	10.91	184	Clear	50
1024	12.76	1.75	5.16	1.09	17.5	1.12	10.82	183	Clear	50
1029	13.01	2.0	5.18	1.09	18.6	1.03	10.71	183	Clear	50
1034	13.17	2.25	5.18	1.09	19.1	0.92	10.65	183	Clear	50
13.42 1039	13.62	2.50	5.18	1.09	19.7	0.85	10.64	184	Clear	50
1044	13.65	2.75	5.19	1.09	18.8	0.79	10.61	184	Clear	50
1049	13.80	3.0	5.20	1.09	19.1	0.81	10.59	184	Clear	50
1054	14.00	3.25	5.20	1.09	18.9	0.79	10.59	185	Clear	50

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments
	~~MW~~ LBA-MW-30	PA, LW				1059	



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Low-Flow Groundwater Sampling Monitoring Form

Well ID	WSP-MW-06C	Site ID:	EPT - Ithaca, New York	Sample Date:	4/18/23
Well Diameter	2.0 in	Sampling Event:	Quarterly Groundwater Sampling		
Depth to Water	38.96 ft				
Total Well Depth	66.0 ft	Samplers	EJM		
Screen Length	10' ft	Weather Conditions and Notes:	42° Mostly Cloudy Overcast		
Pump Intake	63.0 ft	Flow Rate			

Stabilized: ± 10 -percent for temperature, turbidity, DO, and ORP; ± 0.1 unit for pH; and ± 3 -percent for specific conductance

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: °F				Start purge: 1158		End purge:		Pump Type: QED Sample pro w/ MP-15 and CO ₂		
Time	DTW	Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/l) *	T (°C)	ORP (mV)	Appearance of Purge Water	Flow Rate (mL/min)
1225	39.20	0	6.22	1.89	30.6	3.43	9.20	78	Clear	90-100
1230	39.75	0.5	6.65	1.90	33.5	2.51	9.38	61	Clear	100
1235	40.10	1.0	6.70	1.89	35.7	1.62	9.70	43	Clear	100
1240	40.50	1.25	6.81	1.91	24.6	1.860	9.87	32	Clear	50
1245	40.68	1.50	6.86	1.91	17.7	1.50	9.92	29	Clear	50
1250	40.93	1.75	6.91	1.91	24.0	1.45	9.93	30	Clear	50
1255	41.11	2.0	6.94	1.90	33.7	1.28	9.93	25	Clear	50
1300	41.18	2.25	6.97	1.90	29.0	1.57	10.08	25	Clear	50
1305	41.25	2.50	6.99	1.91	20.1	1.47	9.98	22	Clear	50
1310	41.40	2.75	7.00	1.91	22.5	1.41	10.07	22	Clear	50
1315	41.56	3.0	7.01	1.90	22.0	1.28	10.05	22	Clear	50
1320	41.60	3.25	7.02	1.89	26.2	1.26	10.04	21	Clear	50
1325	41.75	3.5	7.03	1.89	26.1	1.33	10.02	21	Clear	50
1330	41.90	3.75	7.04	1.89	25.0	1.32	10.01	20	Clear	50

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments
		BARIUM				1335	



Low Flow Groundwater Sampling Monitoring Form

WSP USA
7000 E. Genesee Street, Bldg. D, 2nd Floor
Fayetteville, NY 13066
(315) 655-3900

Well ID	LOA-MW-18	Site ID:	EPT - Ithaca, New York	Sample Date:	4/19/23
Well Diameter	2 in	Sampling Event:	Quarterly Groundwater Sampling		
Depth to Water	5.20 ft				
Total Well Depth	13.4 ft	Samplers	EJM, PHP		
Screen Length	10 ft	Weather Conditions and Notes:	36° Overcast		
Pump Intake	12.0 ft	Sustained Flow Rate	60		

Stabilization: Drawdown < 0.3 foot (if possible); Temp $\pm$ 3%; pH $\pm$ 0.1; ORP $\pm$ 10 mV; Conductivity $\pm$ 3%; Turbidity < 5 NTU (if possible, otherwise $\pm$ 10%); D.O. $\pm$ 10% if > 0.5 mg/L.

Instrument Calibration Information			
pH Meter Calibration		Horiba U62 with flow-through cell	
7.00 Stand.	pH 4.01 Stand.	Slope (mV/pH)	Notes on calibration:
			Calibrated to manufacturer's specifications using auto-calibration standard solution
Air temp =		°F	

Well Purging Information				Start purge:	End purge:	Pump Type:				
Time	DTW (ft btoc)	Purge Volume (L)	T (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/l)	Appearance of Purge Water/Comments	Flow Rate (mL/min)
0913	5.25	0	13.99	5.81	270	1.26	52.6	2.10	Slightly Cloudy	60
0918	5.51	0.3	14.23	6.49	279	1.23	52.1	1.91	Slightly Cloudy	60
0923	5.71	0.6	14.35	6.80	283	1.23	42.7	1.69	Slightly Cloudy	60
0928	6.02	0.9	14.47	7.04	286	1.22	37.3	1.54	Slightly Cloudy	60
0933	6.22	1.2	14.53	7.15	287	1.22	35.1	1.52	Slightly Cloudy	60
0938	6.50	1.5	14.58	7.24	287	1.22	42.2	1.52	Slightly Cloudy	60
0943	6.73	1.8	14.63	7.29	285	1.22	45.0	1.39	Slightly Cloudy	60
0948	6.96	2.1	14.67	7.31	284	1.22	49.9	1.48	Slightly Cloudy	60
0953	7.20	2.4	14.71	7.33	283	1.22	55.1	1.43	Slightly Cloudy	60
0958	7.42	2.7	14.77	7.36	280	1.22	54.6	1.37	Slightly Cloudy	60
1003	7.61	3.0	14.75	7.36	277	1.22	59.3	1.45	Slightly Cloudy	60
1008	7.83	3.3	14.75	7.38	274	1.22	56.6	1.36	Slightly Cloudy	60

Laboratory Analysis Information								
# of Bottles	Analytes	Collection Method	Preservative	Bottle Type	Analytical Lab	Filtered/Unfiltered	Comments	Sample Time
	BARIIUM							10:13

Note: Frequency of measurement depends on purge rate. At a minimum, the volume of the flow-through cell must turn over between each measurement.



Low Flow Groundwater Sampling Monitoring Form

WSP USA
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Fayetteville, NY 13066
(315) 655-3900

Well ID	LBA-MW-26	Site ID:	EPT - Ithaca, New York	Sample Date:	4/19/23
Well Diameter	2 in	Sampling Event:	Quarterly Groundwater Sampling		
Depth to Water	25.40 ft	Samplers	ESM		
Total Well Depth	ft	Weather Conditions and Notes:	46° Partly Cloudy		
Screen Length	ft	Sustained Flow Rate	60		
Pump Intake	ft				

Stabilization: Drawdown < 0.3 foot (if possible); Temp ± 3%; pH ± 0.1; ORP ± 10 mV; Conductivity ± 3%; Turbidity < 5 NTU (if possible, otherwise ± 10%); D.O. ± 10% if > 0.5 mg/L.

Instrument Calibration Information										
pH Meter Calibration				Horiba U52 with flow-through cell						
7.00 Stand.	pH 4.01 Stand.	Slope (mV/pH)	Notes on calibration:							
			Calibrated to manufacturer's specifications using auto-calibration standard solution							
Air temp = °F										
Well Purging Information				Start purge:	End purge:	Pump Type:				
Time	DTW (ft btoe)	Purge Volume (L)	T (°C)	pH	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/l)	Appearance of Purge Water/Comments	Flow Rate (mL/min)
1503	26.34	0	13.18	6.91	-71	1.01	25.0	5.09	Slightly Cloudy/Black	60
1507	26.65	0.3	13.05	7.00	-88	1.01	25.0	3.46	Slightly Cloudy/Black	60
1509	26.95	0.6	13.10	7.08	-105	1.01	22.2	2.15	Slightly Cloudy/Black	60
1517	27.30	0.9	13.10	7.12	-115	1.00	20.4	1.60	Slightly Cloudy/Black	60
1522	27.51	1.2	13.15	7.13	-119	1.00	19.3	1.62	Slightly Cloudy/Black	60
1527	27.68	1.5	13.19	7.14	-120	0.999	19.0	1.58	Slightly Cloudy/Black	60
1532	27.92	1.8	13.15	7.14	-120	0.997	19.2	1.66	Slightly Cloudy/Black	60
1537	28.12	2.1	13.28	7.15	-115	0.992	19.3	1.61	Slightly Cloudy/Black	60
1542	28.12	2.4	13.51	7.15	-115	0.986	18.7	1.44	Slightly Cloudy/Black	60
1547	28.12	2.7	13.59	7.16	-113	0.985	19.1	1.32	Slightly Cloudy/Black	60
1552	28.12	3.0	13.75	7.15	-109	0.983	19.7	1.25	Slightly Cloudy/Black	60
1557	28.12	3.3	14.06	7.16	-105	0.978	18.5	1.09	Slightly Cloudy/Black	60
1602	28.12	3.6	14.10	7.16	-100	0.975	17.1	1.10	Slightly Cloudy/Black	60
1607	28.12	3.9	14.12	7.16	-97	0.974	16.8	1.11	Slightly Cloudy/Black	60
1612	28.12	4.2	14.08	7.16	-94	0.972	17.0	1.11	Slightly Cloudy/Black	60

Laboratory Analysis Information								
# of Bottles	Analytes	Collection Method	Preservative	Bottle Type	Analytical Lab	Filtered/Unfiltered	Comments	Sample Time
	Barium							1617

Note: Frequency of measurement depends on purge rate. At a minimum, the volume of the flow-through cell must turn over between each measurement.



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Low-Flow Groundwater Sampling Monitoring Form

Well ID	LBA-MW-08	Site ID:	EPT - Ithaca, New York	Sample Date:	5/4/2023
Well Diameter	2 in	Sampling Event:	Quarterly Groundwater Sampling		
Depth to Water	8.28 ft				
Total Well Depth	ft	Samplers	EJM		
Screen Length	ft	Weather Conditions and Notes:	44° Mostly Cloudy		
Pump Intake	ft	Flow Rate	50		

Stabilized: ±10-percent for temperature, turbidity, DO, and ORP, ±0.1 unit for pH, and ± 3-percent for specific conductance

Instrument Calibration Information	
Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution	

Well Purging Information										
Air temp: °F		Start purge: 0855		End purge: 1015		Pump Type:		QED Sample pro w/ MP-15 and CO ₂		
Time	DTW	Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/l) *	T (°C)	ORP (mV)	Appearance of Purge Water	Flow Rate (mL/min)
0900	9.15	0							Strong Odor	100
0905	9.70	0.5							Slightly Yellow/oily	100
0910	10.08	0.75							Slightly Yellow/oily	50
0915	10.18	1.0							Slightly Yellow/oily	50
0920	10.30	1.25							Slightly Yellow/oily	50
0925	10.40	1.5							Slightly Yellow/oily	50
0930	10.50	1.75							Slightly Yellow/oily	50
0935	10.58	2.0							Slightly Yellow/oily	50
0940	10.70	2.25							Slightly Yellow/oily	50
0945	10.76	2.5							Slightly Yellow/oily	50
0950	10.87	3.0							Slightly Yellow/oily	50
0955	10.90	3.25							Slightly Yellow/oily	50
0958	10.96	3.5							Clear	50
1005	11.04	3.75							Clear	50
1010	11.12	4.0							Clear	50
1015	11.15	4.25							Clear	50

Laboratory Analysis Information							
# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments
	CYANIDE						



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Groundwater Sampling Monitoring Form

Well ID	MW-5-40	Site:	EPT - Ithaca, NY	Sample Date:	
Well Diameter	3.0 in	Sampling Event	Annual/Semi-Annual/Quarterly Groundwater Sampling		
Depth to Water (btoc)	28.91 ft	Samplers	NTW, WXD		
Total Well Depth (btoc)	40.3 ft	Weather Conditions:	44°F, partly cloudy		
Height of Water Column	11.39 ft	Notes:			
Well Volume	5.70 x 3 gal 17				

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 44 °F Start purge: 400 End purge: 1420 Pump Type: QED Sample pro w/ MP-15 and CO₂ Baler

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
1.1	0.56	13.63	-38	2.08	22.3	7.15	
0.9	0.78	13.99	-22	2.04	43.8	7.13	
1.8	1.06	14.22	-17	2.03	16.1	7.13	
2.7	0.99	14.25	-10	2.02	28.4	7.16	
3.6	1.47	14.10	-6	2.01	17.9	7.21	
4.5	2.87	14.09	-8	2.02	49.3	7.21	
5.4	2.75	14.06	-10	2.02	46.7	7.26	
5.102 dir @ 5.6 gal							

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments



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Groundwater Sampling Monitoring Form

Well ID	MW-5-100	Site:	EPT - Ithaca, NY	Sample Date:	
Well Diameter	2 in	Sampling Event	Annual/Semi-Annual/Quarterly Groundwater Sampling		
Depth to Water (btoc)	94.11 ft	Samplers	NTL, WXD		
Total Well Depth (btoc)	99.0 ft	Weather Conditions:	42F		
Height of Water Column	4.89 ft	Notes:			
Well Volume	0.4 3 rd gal 2.4				

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 42 °F Start purge: 1335 End purge: Pump Type: QED Sample pre-w/ MP +5 and CO₂ filter.

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
1NT	3.11	13.30	21	2.01	10.3	6.65	
0.6	1.10	13.83	28	1.92	4.8	6.63	
0.9	2.29	13.90	10	2.03	0.0	6.60	
1.2	1.86	13.64	0	2.00	0.0	6.67	
billed dry @ 1.3 gal/hr.							

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments



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Groundwater Sampling Monitoring Form

Well ID	MW-5B	Site:	EPT - Ithaca, NY	Sample Date:	
Well Diameter	4 in	Sampling Event	Annual/Semi-Annual/Quarterly Groundwater Sampling		
Depth to Water (btoc)	15.00 ft	Samplers	MTW, WXD		
Total Well Depth (btoc)	21.0 ft	Weather Conditions:	42°F, cloudy		
Height of Water Column	6.0 ft	Notes:			
Well Volume	1x=3.92 gal 3x=11.76				

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 42 °F Start purge: 1005 End purge: Pump Type: QED Sample pro w/ MP-15 and CO₂

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
INT	12.08	9.31	297	1.82	70.4	6.62	
2	5.36	9.33	297	1.85	4.5	6.70	
3	5.40	9.41	295	1.68	7.1	6.48	
4	3.35	9.44	293	1.67	13.3	6.49	
5	4.39	9.44	292	1.67	31.0	6.49	
bailed dry @ 5.5 gallons.							

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments



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Groundwater Sampling Monitoring Form

Well ID	MW-46-72C	Site:	EPT - Ithaca, NY	Sample Date:	
Well Diameter	2 in	Sampling Event	Annual/Semi-Annual/Quarterly Groundwater Sampling		
Depth to Water (btoc)	67.36 ft	Samplers	NTU, WxO		
Total Well Depth (btoc)	84 ft	Weather Conditions:	41°F cloudy		
Height of Water Column	16.64 ft	Notes:			
Well Volume	2.71 gal		3 x = 8.14		

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 41 °F Start purge: 1300 End purge: 1325 Pump Type: QED Sample pro w/ MP-15 and CO₂

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
INT	1.19	13.09	-81	2.03	0.0	7.12	cloudy water / turb meter
0.9	1.04	13.26	-87	1.48	0.0	7.19	cloudy / not reading correctly
1.8	11.28	13.40	-88	1.50	0.0	7.19	cloudy /
2.7	2.31	13.37	-86	1.58	0.0	7.21	cloudy
3.6	0.51	13.41	-82	1.74	0.0	7.18	cloudy
4.5	7.61	13.21	-79	1.81	0.0	7.22	cloudy
5.4	6.76	13.37	-73	1.97	0.0	7.16	cloudy

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments



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Groundwater Sampling Monitoring Form

Well ID	MW-3B	Site:	EPT - Ithaca, NY	Sample Date:	
Well Diameter	4 in	Sampling Event	Annual/Semi-Annual/Quarterly Groundwater Sampling		
Depth to Water (btoc)	10.32 ft	Samplers	NTW, WXD		
Total Well Depth (btoc)	25.0 ft	Weather Conditions:	43°F, cloudy		
Height of Water Column	14.68 ft	Notes:			
Well Volume	1x = 9.59 gal 3x = 28.76 gal				

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 43 °F Start purge: 0945 End purge: 1000 Pump Type: QED Sample pro w/ MP-15 and CO₂

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	SC (mS/cm)	Turb. (NTU)	pH	Notes
INT	3.92	9.27	317	1.03	0.9	6.30	
3	4.43	9.23	310	0.964	124	6.54	
6	12.57	9.26	307	0.978	688	6.65	
9	12.63	9.29	305	0.985	71.000	6.70	
10 ~	Purged	Bailed	Dry	~			
	WD						

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments



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Groundwater Sampling Monitoring Form

Well ID	~~W-1A~~ MW-4B	Site:	EPT - Ithaca, NY	Sample Date:	
Well Diameter	4 in	Sampling Event	Annual/Semi-Annual/Quarterly Groundwater Sampling		
Depth to Water (btoc)	19.08 ft	Samplers	NTW, WxD		
Total Well Depth (btoc)	23.0 ft	Weather Conditions:	44°F, cloudy		
Height of Water Column	3.92 ft	Notes:			
Well Volume	2.56 x 3 = gal 7.68				

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 44 °F Start purge: 1030 End purge: 1045 Pump Type: QED Sample pro w/ MP-15 and O₂ Butler

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
INT	3.07	8.64	265	1.96	36	7.26	
2.0	3.82	8.72	243	1.98	20.0	7.31	
3.0	1.50	8.75	211	1.98	29.1	7.32	
bailed dy @ 3.5 gallons							

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments



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Groundwater Sampling Monitoring Form

Well ID	MW-46-436	Site:	EPT - Ithaca, NY	Sample Date:	
Well Diameter	2 in	Sampling Event	Annual/Semi-Annual/Quarterly Groundwater Sampling		
Depth to Water (btoc)	30.83 ft	Samplers	NW, WxO		
Total Well Depth (btoc)	50 ft	Weather Conditions:	41°F, cloudy		
Height of Water Column	~~30.43~~ ft 19.17	Notes:			
Well Volume	3.13 gal 9.4				

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 41°F Start purge: 1235 End purge: Pump Type: QED Sample pro w/ MP 15 and CO₂ - Baker

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
INT	1.36	11.76	-51	2.20	0.0	6.66	
0.9	4.20	12.46	-53	1.59	0.0	6.99	
1.0	5.86	12.73	-52	1.54	0.0	7.03	
2.7	1.34	12.86	-59	1.57	0.0	7.01	
3.6	1.26	13.13	-67	1.61	0.0	6.94	
4.5	1.71	13.37	-68	1.78	0.0	6.84	
5.4	1.03	13.15	-70	1.82	0.0	6.83	
bullet drop @ 5.8 gallons.							

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments



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Groundwater Sampling Monitoring Form

Well ID	MW-1B	Site:	EPT - Ithaca, NY	Sample Date:	
Well Diameter	4 in	Sampling Event	Annual/Semi-Annual/Quarterly Groundwater Sampling		
Depth to Water (btoc)	11.48 ft	Samplers	NTW		
Total Well Depth (btoc)	20 ft	Weather Conditions:	42°F, cloudy		
Height of Water Column	8.52 ft	Notes:			
Well Volume	V = 5.56 gal, 3x = 16.7 gal				

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 42 °F Start purge: 0950 End purge: 1030 Pump Type: GED Sample pro w/ MP-15 and CO₂ Butler

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
INT	12.26	10.47	224	0.602	5.8	6.30	N/A
1 2	6.08	9.57	201	0.642	13.0	6.37	"
2 3	7.11	9.17	220	0.656	36.1	6.54	"
3 4	6.36	9.07	229	0.672	51.7	6.60	"
4 5	5.49	9.07	243	0.684	60.4	6.72	"
5 6	6.40	8.98	252	0.699	56.6	6.76	"
6 7	6.15	8.90	256	0.714	50.7	6.82	"
7 8	5.53	8.85	261	0.722	48.9	6.84	"
8 9	5.77	8.83	265	0.734	42.5	6.87	"
bottled at 9.25 gal							

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments
3	MW-1B	Vol	HCl	V6A	565		



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Groundwater Sampling Monitoring Form

Well ID	MW-215	Site:	EPT - Ithaca, NY	Sample Date:	
Well Diameter	4 in	Sampling Event	Annual/Semi-Annual/Quarterly Groundwater Sampling		
Depth to Water (btoc)	9.33 ft	Samplers	NW		
Total Well Depth (btoc)	20.5 ft	Weather Conditions:	43°F, cloudy		
Height of Water Column	11.17 ft	Notes:			
Well Volume	730 gal		21.9		

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 43 °F Start purge: 1050 End purge: Pump Type: QSD Sample pre-w/ MP-15 and CO₂ - bailed

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
1NT	6.85	9.26	266	1.06	31.4	6.91	
2	4.46	9.29	273	1.04	>1000	6.91	
4	3.78	9.38	274	1.04	>1000	6.92	
6	3.46	9.43	275	1.08	>1000	6.95	
8	4.13	9.50	275	1.04	>1000	6.96	
10	5.05	9.57	273	1.04	>1000	6.99	
bailed dry @ 11 galls.							

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments



WSP

7000 Genesee Street, Building D, 2nd Floor

Fayetteville, NY 13066 (315) 655-3900 • Fax (315) 655-3907

Groundwater Sampling Monitoring Form

Well ID	MW-2213	Site:	EPT - Ithaca, NY	Sample Date:	
Well Diameter	2 in	Sampling Event	Quarterly GW Sampling		
Depth to Water (btoc)	12.53 ft	Samplers	NTW, WXD		
Total Well Depth (btoc)	16.5 ft	Weather Conditions:	48°F, sunny		
Height of Water Column	3.97 ft	Notes:	Purged 4/20/23		
Well Volume	0.65-3 gal				

Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 44 °F Start purge: 0955 End purge: 1005 Pump Type: Bailer

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
1NT	2.36	9.99	228	0.481	230	6.12	
0.6	1.89	9.80	141	0.808	37.7	6.59	
0.9	1.75	9.68	113	0.800	50.9	6.65	
1.2	2.18	9.63	90	0.794	18.4	6.71	
1.5	1.73	9.65	79	0.803	26.5	6.76	
bailed dry @ 1.8 gal							

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments



WSP
7000 Genesee Street, Building D, 2nd Floor
Fayetteville, NY 13066 (315) 655-3900 • Fax (315) 655-3907

Groundwater Sampling Monitoring Form

Well ID	MW-206	Site:	EPT - Ithaca, NY	Sample Date:	
Well Diameter	2 in	Sampling Event	Quarterly GW Sampling		
Depth to Water (btoc)	11.62 ft	Samplers	NTU, WxO		
Total Well Depth (btoc)	20.2 ft	Weather Conditions:	50°F, cloudy		
Height of Water Column	8.54 ft	Notes:	Purged 4/20/03		
Well Volume	1.40 3x = gal 4.20				

Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 50 °F Start purge: 1010 End purge: 1020 Pump Type: Bailer

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
INT	5.39	9.49	103	0.799	0.0	7.16	
0.6	4.98	9.19	106	0.797	0.0	7.25	
1.2	4.70	8.99	119	0.794	0.0	7.28	
1.8	6.30	8.97	131	0.793	0.0	7.29	
2.4	5.11	9.00	138	0.816	0.0	7.32	
bailed dry @ 2.7 gallons							

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments



WSP Engineering of New York, P.C.

5 Sullivan Street

Cazenovia, NY 13035 (315) 655-3900 • Fax (315) 655-3907

Groundwater Sampling Monitoring Form

Well ID	MW-2-46	Site:	EPT - Ithaca, NY	Sample Date:	
Well Diameter	3 in	Sampling Event	Annual/Semi-Annual/Quarterly Groundwater Sampling		
Depth to Water (btoc)	33.95 ft	Samplers	NTW, WxD		
Total Well Depth (btoc)	43.2 ft	Weather Conditions:	50°F, cloudy		
Height of Water Column	9.25 ft	Notes:	purged 4/20		
Well Volume	4.63 x 3 gal 13.9				

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 50 °F Start purge: 1025 End purge: 1045 Pump Type: QED Sample pro w/ MP-15 and CO₂

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
1.1	2.11	10.11	59	1.30	3.9	7.66	
1.2	3.99	10.53	72	1.22	0.0	7.62	
2.4	9.44	10.74	79	1.22	3.6	7.61	
3.6	3.56	10.81	80	1.22	5.9	7.62	
4.8	3.30	10.83	77	1.23	0.0	7.62	
5.6	biked dry @ 5 gallons						

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments



WSP Engineering of New York, P.C.

5 Sullivan Street

Cazenovia, NY 13035 (315) 655-3900 • Fax (315) 655-3907

Groundwater Sampling Monitoring Form

Well ID	MW-325	Site:	EPT - Ithaca, NY	Sample Date:	
Well Diameter	2 in	Sampling Event	Annual/Semi-Annual/Quarterly Groundwater Sampling		
Depth to Water (btoc)	4.47 ft	Samplers	NTW, WXD		
Total Well Depth (btoc)	11.0 ft	Weather Conditions:	50°F, cloudy		
Height of Water Column	6.53 ft	Notes:	Purged 4/20		
Well Volume	1.06 x 3 gal 3.19				

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 50 °F Start purge: 1055 End purge: Pump Type: QED Sample pro w/ MP-15 and CO₂

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
1.1	4.90	10.03	124	3.28	0.0	7.68	
0.6	6.60	10.02	137	3.34	3.1	7.61	
0.8	4.66	9.94	154	3.54	7.4	7.59	
1.4	4.17	9.70	163	3.57	12.9	7.60	
2.4	4.60	9.54	175	3.57	13.1	7.60	
bottle 2 of 2 @ 25 gallons							

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments



WSP
7000 Genesee Street, Building D, 2nd Floor
Fayetteville, NY 13066 (315) 655-3900 • Fax (315) 655-3907

Groundwater Sampling Monitoring Form

Well ID	MW-18A	Site:	EPT - Ithaca, NY	Sample Date:	
Well Diameter	2 in	Sampling Event	Quarterly GW Sampling		
Depth to Water (btoc)	5.52 ft	Samplers	MTW, WTD		
Total Well Depth (btoc)	20 ft	Weather Conditions:	50°F, cloudy		
Height of Water Column	14.48 ft	Notes:	purged 4/20		
Well Volume	2.36 x 3 = gal 7.08				

Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 50°F °F Start purge: 1115 End purge: Pump Type: Bailer

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
1.1	1.40	10.46	-20	1.18	71000	6.90	dark reddish brown
1.2	0.63	10.56	-23	1.07	844	6.76	"
2.4	2.72	10.55	-21	1.05	320	6.72	"
3.6	1.97	10.60	-24	1.06	98	6.76	"
4.8	1.10	10.77	-33	1.07	62.9	6.72	"
6.0	1.33	11.10	-41	1.09	30.0	6.72	"
Total bailed dry @ 6.4 gallons.							

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments

VOC's



WSP Engineering of New York, P.C.
5 Sullivan Street
Cazenovia, NY 13035 (315) 655-3900 • Fax (315) 655-3907

Low-Flow Groundwater Sampling Monitoring Form

Page 1 of 2

Well ID	MW-7-40	Site ID:	EPT - Ithaca, New York	Sample Date:	4/18/23
Well Diameter	2 in	Sampling Event:	Quarterly Groundwater Sampling		
Depth to Water	17.56 ft				
Total Well Depth	40.05 ft	Samplers	KGG, ESR		
Screen Length	ft	Weather Conditions and Notes:	Cloudy		
Pump Intake	33 ft	Flow Rate	90 mL/min		

Tag Bottom

Stabilized: ± 10 -percent for temperature, turbidity, DO, and ORP; ± 0.1 unit for pH; and ± 3 -percent for specific conductance

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 50		°F		Start purge: 0900		End purge: 10:40		Pump Type:		QED Sample pro w/ MP-15 and CO ₂	
Time	DTW	Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/l) *	T (°C)	ORP (mV)	Appearance of Purge Water	Flow Rate (mL/min)	
0905	17.11	Initial	6.64	1.73	34.7	9.47	10.51	162	Clear	90	
0910	17.18	0.45	6.66	1.70	0.0	8.56	10.43	157	Clear	90	
0915	17.18	0.90	6.61	1.69	15.5	7.73	10.43	155	Clear	90	
0920	17.18	1.35	6.60	1.69	0.0	7.15	10.44	153	Clear	90	
0925	17.18	1.80	6.59	1.68	0.0	6.58	10.47	150	Clear	90	
0930	17.18	2.25	6.60	1.67	0.0	5.89	10.45	146	Clear	90	
0935	17.20	2.70	6.63	1.67	0.0	5.23	10.45	140	Clear	90	
0940	17.24	3.15	6.60	1.67	0.0	4.18	10.57	138	Clear	90	
0945	18.3	3.60	6.59	1.68	0.0	3.82	10.56	137	Clear	90	
0950	18.45	4.05	6.60	1.68	0.0	3.26	10.59	135	Clear	90	
0955	19.20	4.50	6.59	1.68	0.0	3.18	10.54	133	Clear	90	
1000	19.36	4.95	6.57	1.68	0.0	2.85	10.53	133	Clear	90	
1005	19.65	5.40	6.56	1.69	0.0	2.50	10.56	132	Clear	90	
1010	19.88	5.85	6.59	1.69	0.0	2.34	10.57	131	Clear	90	
1015	20.02	6.30	6.58	1.70	0.0	2.10	10.56	131	Clear	90	
1020	20.30	6.75	6.58	1.70	0.0	1.87	10.56	129	Clear	90	

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments

Well ID	MW-50-KOD	Site ID	FPT ITHACA	Sample Date	9/19/23
Well Diameter	4 in	Sampling Event	SEMI ANNUAL		
Depth to Water	101.85 ft btoc	Samplers	ML		
Total Well Depth	ft btoc	Weather Conditions	60°F, clear		
Screen Interval	ft bgs	Notes			
Intake Depth	158.5 ft btoc				

Instruments Used ☐ Peristaltic ☒ Bladder ☐ PDB ☐ VSI PRO DSS ☐ HACH Kit ☒ Water Level Meter ☐ Other: _____

Instrument Calibration Information

Notes on Calibration H24MA 9/19/23

Well Purging Information

Stabilized: Drawdown ≤ 0.5 feet, pH ± 0.1 SD, Specific Conductance $\pm 3\%$, Temperature $\pm 3\%$, DO ± 0.2 mg/l or 10% , Turbidity $\pm 10\%$ for values greater than 10 NTU, ORP ± 10 mV

Start purge @ 0915	End purge @ 1035	Final Flow Rate 200	HACH Kit Reading N/A

[illegible]

Laboratory Analysis Information

Bottle No.	Analytes	Collection Method	Preservative	Bottle Type	Lab Name	Filtered/ Unfiltered	Sample Time	Comments
3	VOCs	Grab	HCl	VOA	Pace	Unfiltered	5/23/05	

QA/QC Information

Event Information		
	ID, if collected	Sample Time
Duplicate	MW-0923	0800
MS/MSD		
Other		



	ID, if collected	Sample Time
Duplicate		
MS/MSD		
Other		

Well ID	E70-9	Site ID	ITHACA	Sample Date	9/14/03
Well Diameter	4	in	Sampling Event	Semi annual	
Depth to Water		ft btoc	Samplers	NW	
Total Well Depth	366.0	ft btoc	Weather Conditions	70°F, sunny	
Screen Interval	5' x 8'	ft bgs	Notes		
Intake Depth	43.0	ft btoc			

Instruments Used ☐ Peristaltic ☒ Bladder ☐ PDB ☐ YSI PRO DSS ☐ HACH Kit ☒ Water Level Meter ☐ Other: _____

Instrument Calibration Information

Notes on Calibration *Hornum 9/9/83*

Well Purging Information

Stabilized: Drawdown ≤ 0.5 feet, pH ± 0.1 SO, Specific Conductance $\pm 5\%$, Temperature $\pm 3^\circ\text{F}$, DO ≥ 0.2 mg/L or 10%, Turbidity $\pm 10\%$ for values greater than 10 NTU, ORP ± 10 mV

Start purge @ 1245		End purge @	Final Flow Rate			HACH Kit Reading				
Time	DTW (ft btoc)	Temperature (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Flow Rate (mL/min)	Purge Volume (L)	Appearance of Purge Water / Notes
1310	36.60	21.61	7.19	-2	1.66	1.9	6.74	25	1.25	clear
1315	36.66	21.35	7.13	-18	1.67	2.0	3.27	25	0.125	"
1320	36.68	20.49	7.05	-46	1.65	1.3	1.70	25	0.250	"
1325	36.71	19.79	7.05	-50	1.65	1.4	1.00	25	0.375	"
1330	36.74	19.36	7.06	-51	1.66	0.9	0.75	25	0.50	"
1335	36.76	18.82	7.06	-50	1.66	1.1	0.63	25	0.625	"
1340	36.76	17.81	7.04	-49	1.64	1.1	0.30	25	0.75	"
1345	36.77	17.34	7.09	-51	1.65	1.0	0.19	25	0.875	"
1350	36.80	16.30	7.06	-51	1.66	0.4	0.00	25	1.0	"
1355	36.81	16.28	7.09	-49	1.66	1.1	0.00	25	1.125	"
1402	36.83	16.13	7.09	-44	1.66	1.0	0.00	25	1.25	"
1405	36.86	15.81	7.04	-46	1.66	1.0	0.00	25	1.50	"

Laboratory Analysis Information

Bottle No.	Analytes	Collection Method	Preservative	Bottle Type	Lab Name	Filtered/ Unfiltered	Sample Time	Comments
19	VOCs	Grab	HCl	VOA	Pace	Unfiltered	1430	MS/MCD

QA/QC Information

	ID, if collected	Sample Time
Duplicate		
MS/MSD		
Other		

Well ID	MW - 46-72C	Site ID		Sample Date	9/19/23
Well Diameter	3 in	Sampling Event	Ithaca Sem.-Annual Gw Sampling 2023		
Depth to Water	69.09 ft btoc	Samplers	EJM + KGS		
Total Well Depth	83.46 ft btoc	Weather Conditions			
Screen Interval		Notes			
Intake Depth					
Instruments Used	☐ Peristaltic ☒ Bladder ☐ PDB ☒ SI PRO DSS ☐ HACH Kit ☐ Water Level Meter ☐ Other: bailer				

Instrument Calibration Information

Notes on Calibration

Well Purging Information

Stabilized: Drawdown ≤ 0.5 feet, pH ± 0.1 SD, Specific Conductance $\pm 3\%$, Temperature $\pm 3^\circ\text{F}$, DO ± 0.2 mg/l or 10%, Turbidity $\pm 10\%$ for values greater than 10 NTU. ORP ± 10 mV.

[illegible]

Laboratory Analysis Information

Bottle No.	Analytes	Collection Method	Preservative	Bottle Type	Lab Name	Filtered/ Unfiltered	Sample Time	Comments
3	VOCs	Grab	HCl	VOA	Pace	Unfiltered	1535	

QA/QC Information

	ID, if collected	Sample Time
Duplicate		
MS/MSD		
Other		

Groundwater Sampling Monitoring Form

Well ID	MW-46-43C	Site ID		Sample Date	9/19/23
Well Diameter	2 in	Sampling Event			
Depth to Water	31.54 ft btoc	Samplers	KGC, EJM		
Total Well Depth	50.05 ft btoc	Weather Conditions			
Screen Interval		Notes			
Intake Depth					
Instruments Used	☐ Peristaltic ☒ Bladder ☐ PDB ☐ ISI PRO DSS ☐ HACH Kit ☐ Water Level Meter ☒ Other: B & G				

Instrument Calibration Information

Notes on Calibration

Well Purging Information

Stabilized: Drawdown ≤ 0.3 feet, pH ± 0.1 SD, Specific Conductance $\pm 3\%$, Temperature $\pm 3^\circ\text{F}$, DO ≥ 0.2 mg/L or 10%, Turbidity $\leq 10\%$ for values greater than 1 NTU, ORP ≥ 10 mV

[illegible]

Laboratory Analysis Information

Bottle No.	Analytes	Collection Method	Preservative	Bottle Type	Lab Name	Filtered/ Unfiltered	Sample Time	Comments
3	VOCs	Grab	HCl	VOA	Pace	Unfiltered	1605	

QA/QC Information

GC/MS Information		
	ID, if collected	Sample Time
Duplicate		
MS/MSD		
Other		



Sample Information		
	ID, if collected	Sample Time
Duplicate		
MS/MSD		
Other		



	ID, if collected	Sample Time
Duplicate		
MS/MSD		
Other		



SAMPLE INFORMATION		
	ID, if collected	Sample Time
Duplicate		
MS/MSD		
Other		



WSP
13530 Dulles Technology Dr. Ste. 300
Herndon, Va 20171
(703) 709-6500

Groundwater Sampling
Monitoring Form

Well ID	MW-38	Site ID		Sample Date	09/21/23
Well Diameter	1 in	Sampling Event			
Depth to Water	14.59 ft btoc	Samplers			
Total Well Depth	25.03 ft btoc	Weather Conditions			
Screen Interval	ft bgs	Notes			
Intake Depth	ft btoc				
Instruments Used	☐ Peristaltic ☒ Bladder ☐ PDB ☐ YSI PRO DSS ☐ HACH Kit ☐ Water Level Meter ☒ Other: <u>Isa / dt</u>				

Instrument Calibration Information

Notes on Calibration

Well Purging Information

Stabilized: Drawdown ≤ 0.3 feet, pH ± 0.1 SD, Specific Conductance $\pm 3\%$, Temperature $\pm 3\%$, DO ± 0.2 mg/L or 10%, Turbidity $\pm 10\%$ for values greater than 10 NTU, ORP ± 10 mV

Start purge @ 1010		End purge @ 1020		Final Flow Rate			HACH Kit Reading			
Time	DTW (ft btoc)	Temperature (°C)	pH (S.U.)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Flow Rate (mL/min)	Purge Volume (L)	Appearance of Purge Water / Notes
Initial		16.24	5.53	226	1.11	4.7	10.43			Clear
2.0		15.73	5.61	223	1.11	19.6	3.05			" "
3.0		15.33	5.35	237	1.33	61.9	1.87			" "
4.0		15.01	2.64	355	1.74	74.0	2.98			" "
5.0		15.08	2.35	417	2.15	101	8.18			Cloudy
6.0		14.54	2.18	455	2.45	91.0	1.28			" "
6.81		14.24	2.07	474	2.78	117	1.70			" "
8.0	7.0	14.21	2.07	461	2.78	277	1.60			" "
9.0	Purged Dry @ 7 gal. Well return within 24 hrs to assess recharge.									
10.0										
11.0										
12.0										
13.0										
14.0										
15.0										
16.0										
17.0										
18.0										
19.0										
20.0										
20.43										

Laboratory Analysis Information

Bottle No.	Analytes	Collection Method	Preservative	Bottle Type	Lab Name	Filtered/ Unfiltered	Sample Time	Comments
3	VOCs	Grab	HCl	VOA	Pace	Unfiltered	0920	

QA/QC Information

	ID, if collected	Sample Time
Duplicate		
MS/MSD		
Other		

Well ID	MW-58	Site ID	Former EPT - Ithaca	Sample Date	09/21/23
Well Diameter	4 in	Sampling Event	Ithaca Semi-Annual Groundwater Sampling Sep-2023		
Depth to Water	16.44 ft btoc	Samplers	EJM + KGG		
Total Well Depth	18.61 ft btoc	Weather Conditions	61° Sunny		
Screen Interval	ft bgs	Notes			
Intake Depth	ft btoc				

Instruments Used	☐ Peristaltic	☒ Bladder	☐ PDB	☐ YSI PRO DSS	☐ HACH Kit	☐ Water Level Meter	☒ Other: <u>Baker</u>

Instrument Calibration Information

Notes on Calibration Calibrated to manufacturing specifications

Well Purging Information

Stabilized: Drawdown ≤ 0.3 feet; pH ± 0.1 SD; Specific Conductance $\pm 3\%$; Temperature $\pm 3^\circ$; DO ± 0.2 mg/l or 10%; Turbidity $\pm 10\%$ for values greater than 10 NTU; ORP ± 10 mV

[illegible]

Laboratory Analysis Information

Bottle No.	Analytes	Collection Method	Preservative	Bottle Type	Lab Name	Filtered/ Unfiltered	Sample Time	Comments
3	VOCs	Grab	HCl	VOA	Pace	Unfiltered	0940	

QA/QC Information

	ID, if collected	Sample Time
Duplicate		
MS/MSD		
Other		

PURGE AND SAMPLE FORM – Low Flow

Project #: 31405608.001		Project Name / Site Name: EMERSON (ITHACA)	
Well ID: MW-19B	Date: 12/27/2023	Water Level (ft): 9.98	Time (WL): 0958
Physical Condition of Well: New Install on 12/07/23		Weather: Indoors 50°F	
Well Diameter (in): 2	Well Depth (ft): 14.59 BTOC	Water Column (ft): 4.61	~~System Volume (mL):~~
Start Purge: 1028	End Purge: 1108	Top of Pump (ft): 13	Volume Removed (L): 2
Equipment: Dedicated Bladder, Horiba, MP-10		Purging Personnel: Kevin Griswold	

PURGE DATA / FIELD PARAMETERS

Time	DTW (ft BTOC)	Turbidity (NTU)	pH (S.U.)	Cond. (mS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Appearance of Purge Water	Purge Rate (mL/min)
1035	10.24	2.8	6.17	1.87	0.50	17.87	235	Transparent yellow tint	75
1040	10.63	3.2	6.76	1.87	0.43	17.59	231	Transparent yellow tint	50
1045	10.84	2.6	6.96	1.87	0.66	17.46	231	"	50
1050	11.12	2.4	7.09	1.88	0.77	17.38	230	"	50
1055	11.36	2.7	7.16	1.88	0.72	17.31	230	"	50
1100	11.62	2.6	7.20	1.88	0.58	17.22	230	"	50
1105	11.86	2.8	7.23	1.88	0.39	17.15	228	"	50
1107	Sample	for	total	CN					
1108	Stop	purge							

WSP Stabilization Criteria (SOP 11 – Groundwater Sampling Procedure):

pH ± 0.1 S.U.Turbidity $\pm 10\%$ or < 10 NTUORP ± 10 mVConductivity $\pm 3\%$ Dissolved Oxygen $\pm 10\%$ or ± 0.2 mg/L (whichever is greater)Temperature $\pm 3\%$ **Sample Description**

Sample ID: MW-19B

QA/QC ID: N/A

Sample Date/Time: 12/27/23 @ 1107

QA/QC Date/Time: N/A

# Sample Bottles	Container	Preservative	Analyte(s)
1	60 mL Glass	NaOH + Ascorbic Acid	Total Cyanide

Signature: Kevin Griswold

APPENDIX

L DPE SYSTEM O&M FORMS

Table 8

**Operational Checklist
Former Emerson Power Transmission
Ithaca, New York**

Date: 1/3/2023 Inspector: Greg Ernst

Arrival Time: 0800 Weather Conditions: 40s with Rain

Departure Time: _____

Reason for Visit (check all that apply):

Bi-Weekly O&M _____ Collect influent/effluent samples No

Monthly O&M X Assist with carbon changeout No

Other _____

System Alarms Active Upon Arrival Air Compressor Low Pressure 12/15/22 @ 13:25:54

TREATMENT SYSTEM CHECKLIST

Soil Vapor Extraction Skid

Motor Run Time (hrs.):	<u>41,680.5</u>

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
VI201	Vapor Liquid Separator Inlet Vacuum	<u>-9.0</u>	"Hg
VLSSG	Vapor Liquid Separator Site Glass	<u>0</u>	gal.
VI202	Particulate Filter Inlet Vacuum	<u>-2</u>	"Hg
VI203	Particulate Filter Outlet Vacuum	<u>-8.0</u>	"Hg
FI201	Soil Vapor Extraction Flow (Manual)	<u>26*</u>	scfm
TI201	Soil Vapor Extraction Discharge Temperature	<u>160</u>	°F
PI201	Soil Vapor Extraction Discharge Pressure	<u>11.5</u>	"W.C.
FT202	Vapor Liquid Separator Water Transfer Pump Totalizer	<u>158,163</u>	gal.

*Reading taken from newly installed Anemometer Port

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

Maintenance Items:

Oil Level:	OK
Oil Change (yes/no every 6000hrs.):	No
Grease Lubrication Added (yes/no):	Yes
Transfer Water Out of Vapor Liquid Separator (yes/no)	No
Particulate Filter Changeout (yes/no)	No

Oil change Needed Every 6,000 hrs.

Replacement Blower Filter is a Solberg 235 P

Replacement Bleed Filter is a Solberg 31 P

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Vapor Phase Carbon

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
PI203	Pressure After Carbon Vessel T201	5	"W.C.
PI204	Pressure After Carbon Vessel T202	0	"W.C.
TI202	Inlet Temperature of 1st Carbon Unit	125	°F
TI203	Temperature Between the Carbon Units	130	°F

Description of Maintenance Actives Completed:

None

Equalization Tank

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
EQSG	Equalization Tank Site Glass	600	gal
PI701	Equalization Tank Vacuum	0	" W.C.

Description of Maintenance Activities Completed

Cleaned site glass

Table 8

**Operational Checklist
Former Emerson Power Transmission
Ithaca, New York**

Bag Filter Skid

EQ Pump Run Time (hrs.):	4,144.5

Arrival / Depature / Adjusted

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
PI211	Transfer Pump Discharge Water Pressure	30-Jan	psi
PI221	Bag Filter Influent Water Pressure	6-Jan	psi
PI222	Water Pressure Between PF-221 and PF-222	7	pis
PI223	Water Pressure Between PF-222 and PF-223	0	psi
PI224	Water Pressure Between PF-224 and PF-225	0	psi
PI225	Water Pressure Between PF-225 and PF-226	6	psi
PI226	Bag Filtration Exit Water Pressure	0	psi
FT221	Bag Filtration Water Totalizer	400,917.5	gal
FT221	Bag Filtration Water Flow	6	gpm

Maintenance Items:

Changed Bag Filter(s) (yes/no)	No
Cleaned Bag Filter(s) (yes/no)	No

If yes, which filters? _____

If yes, which filters? _____

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

Adjusted flow.

Air Stripper Skid

AS Blower Run Time (hrs.)	41,308.7
AS Transfer Pump Run Time (hrs.)	1,966.8

check again next visit

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
PI601	Differential Pressure Before the Butterfly Valve	2	"W.C.
PI602	Pressure After the Butterfly Valve	0.6	"W.C.
PI603	Back Pressure After Transfer Pump	38	psi
PI604	Sump Pressure	28	"W.C.
FT601	Flow Totalizer	1,688,730.4	gal
FT601	Flow Transmitter	7.8	gpm

Table 8

**Operational Checklist
Former Emerson Power Transmission
Ithaca, New York**

Maintenance Items:

Cleaned Stripper Trays (yes/no)	No

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Liquid Phase Carbon

Nomenclature	Description	Reading	Units
PI611	Pressure Before Carbon Vessel T611	28	psi
PI612	Pressure After Carbon Vessel T611	15	psi
Effluent Flow	Totalizer	1,402,163	gal
Effluent Flow	Flow	16	gpm

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

Cam lock gaskets replaced during prior visit in December 2022

Air Compressor

Motor Run Time (hrs.)	4,116.5

Nomenclature	Description	Reading	Units
PCV101	Pressure Regulator Valve Replaced with filter	125	psi
PI-101	Conveyance Line Pressure	115	psi
TI-101	Compressed Air Temperature	64	°F

Maintenance Items:

Oil Level:	OK
Oil Change (yes/no)	Yes
Belt Condition:	Poor
Coalescing Filter Condition:	OK

Oil Change needed every 2000 hrs. OR every 12 Months (Which ever comes first)

Table 8

**Operational Checklist
Former Emerson Power Transmission
Ithaca, New York**

Additional Maintenance Needed:

[Need to order spare belts](#)

Description of Maintenance Actives Completed:

[Belt slipped off, stretched out, and out of alignment. Re-aligned pulleys and installed new belt. Belt P/N: IR A-95099503 UFG. AC low pressure alarm noted on 12/26/22 @ 13:26.](#)

Miscellaneous Tasks**Maintenance Items:**

Snow Removal (yes/no)	No
Grass/Weed Removal (yes/no)	No
Is Shed Clean and Organized on Arrival (yes/no)	Yes
Is Shed Clean and Organized on Departure (yes/no)	Yes
Other (please specify in detail):	Swept and mopped floor.

WELL VAULT CHECKLIST

Checked Heat Trace Breakers (yes/no):	Yes	
NYSEG Meter Reading (kwh)	249,295	

EW-1-62C

Checked Sample Port (yes/no):	No
Checked Compressed Air Line Drain (yes/no):	No

Vapor Line	Reading	Units
Vacuum Gauge	-7	inHg

Water Line	Reading	Units
Pressure Gauge	6	psi
Cycle Count	240,082	# of cycles

Air Line	Reading	Units
Pressure Gauge	125	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

<i>EW-2-62C</i>

Checked Sample Port (yes/no):	No
Checked Compressed Air Line Drain (yes/no):	No

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-8.5	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	4	psi
Cycle Count	986,735	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	120	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

<i>EW-3-60C</i>

Checked Sample Port (yes/no):	No
Checked Compressed Air Line Drain (yes/no):	No

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-8	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	4	psi
Cycle Count	43,880	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	125	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

EW-4-25B

Checked Sample Port (yes/no):		No
Checked Compressed Air Line Drain (yes/no):		No

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-6	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	4	psi
Cycle Count	81,956	# of cycles 3

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	125	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

EW-5-25B

Checked Sample Port (yes/no):		No
Checked Compressed Air Line Drain (yes/no):		No

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-8	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	5	psi
Cycle Count	431,241	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	110	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

<i>EW-6-60C</i>

Checked Sample Port (yes/no):		No
Checked Compressed Air Line Drain (yes/no):		No

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-7.5	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	6	psi
Cycle Count	967,038	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	110	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

<i>EW-7-25B</i>

Checked Sample Port (yes/no):		No
Checked Compressed Air Line Drain (yes/no):		No

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-7.5	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	7	psi
Cycle Count	266,147	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	120	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

<i>EW-8-62C</i>

Checked Sample Port (yes/no):		No
Checked Compressed Air Line Drain (yes/no):		No

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-8	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	6	psi
Cycle Count	346,416	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	110	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

<i>EW-10-25B</i>

Checked Sample Port (yes/no):		No
Checked Compressed Air Line Drain (yes/no):		No

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-8	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	2	psi
Cycle Count	182,380	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	120	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

Table 8

**Operational Checklist
Former Emerson Power Transmission
Ithaca, New York**

<i>EW-9R-72C</i>

Checked Sample Port (yes/no):	No
Checked Compressed Air Line Drain (yes/no):	No

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-12	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	5	psi
Cycle Count	555,738	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	NA	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

<i>EW-11-43C</i>

Checked Sample Port (yes/no):	No
Checked Compressed Air Line Drain (yes/no):	No

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-23	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Cycle Count	96,249	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Regulator Gauge	65	psi

Description of Maintained Activities Completed:

<i>EW-12-45C</i>

Checked Sample Port (yes/no):	No
Checked Compressed Air Line Drain (yes/no):	No

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	0, Closed	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	3	psi
Cycle Count	2,017	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

Table 8

**Operational Checklist
Former Emerson Power Transmission
Ithaca, New York**

Date: 2/1/2023 **Inspector:** Peter Lyon

Arrival Time: 0800 **Weather Conditions:** 20°/ Partly Sunny

Departure Time: _____

Reason for Visit (check all that apply):

Bi-Weekly O&M _____ Collect influent/effluent samples No

Monthly O&M X Assist with carbon changeout No

Other _____

System Alarms Active Upon Arrival None

TREATMENT SYSTEM CHECKLIST

Soil Vapor Extraction Skid

Motor Run Time (hrs.):	<u>42,385.3</u>

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
VI201	Vapor Liquid Separator Inlet Vacuum	<u>-9.5</u>	"Hg
VLSSG	Vapor Liquid Separator Site Glass	<u>0</u>	gal.
VI202	Particulate Filter Inlet Vacuum	<u>0.2</u>	"Hg
VI203	Particulate Filter Outlet Vacuum	<u>-8.0</u>	"Hg
FI201	Soil Vapor Extraction Flow (Manual)	<u>26*</u>	scfm
TI201	Soil Vapor Extraction Discharge Temperature	<u>160</u>	°F
PI201	Soil Vapor Extraction Discharge Pressure	<u>12</u>	"W.C.
FT202	Vapor Liquid Separator Water Transfer Pump Totalizer	<u>158,163</u>	gal.

*Reading taken from newly installed Anemometer Port

Table 8

**Operational Checklist
Former Emerson Power Transmission
Ithaca, New York**

Maintenance Items:

Oil Level:	OK
Oil Change (yes/no every 6000hrs.):	No
Grease Lubrication Added (yes/no):	No
Transfer Water Out of Vapor Liquid Separator (yes/no)	No
Particulate Filter Changeout (yes/no)	Yes

Oil change Needed Every 6,000 hrs.

Replacement Blower Filter is a Solberg 235 P

Replacement Bleed Filter is a Solberg 31 P

Additional Maintenance Needed:**None****Description of Maintenance Actives Completed:****Blower weeping oil on passive side. Tightened all bolts and plugs.****Vapor Phase Carbon**

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
PI203	Pressure After Carbon Vessel T201	6	"W.C.
PI204	Pressure After Carbon Vessel T202	0	"W.C.
TI202	Inlet Temperature of 1st Carbon Unit	110	°F
TI203	Temperature Between the Carbon Units	110	°F

Description of Maintenance Actives Completed:**None****Equalization Tank**

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
EQSG	Equalization Tank Site Glass	740	gal
PI701	Equalization Tank Vacuum	0	" W.C.

Description of Maintenance Activities Completed**None**

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

Bag Filter Skid

EQ Pump Run Time (hrs.):	4,201.5

Arrival / Depature / Adjusted

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
PI211	Transfer Pump Discharge Water Pressure	34	psi
PI221	Bag Filter Influent Water Pressure	9	psi
PI222	Water Pressure Between PF-221 and PF-222	8	pis
PI223	Water Pressure Between PF-222 and PF-223	0	psi
PI224	Water Pressure Between PF-224 and PF-225	0	psi
PI225	Water Pressure Between PF-225 and PF-226	5	psi
PI226	Bag Filtration Exit Water Pressure	0	psi
FT221	Bag Filtration Water Totalizer	417,886.3	gal
FT221	Bag Filtration Water Flow	5.9	gpm

Maintenance Items:

Changed Bag Filter(s) (yes/no)	Yes
Cleaned Bag Filter(s) (yes/no)	No

If yes, which filters? **All**

If yes, which filters?

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Air Stripper Skid

AS Blower Run Time (hrs.)	42,332.5
AS Transfer Pump Run Time (hrs.)	2,002.3

check again next visit

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
PI601	Differential Pressure Before the Butterfly Valve	3	"W.C.
PI602	Pressure After the Butterfly Valve	0.6	"W.C.
PI603	Back Pressure After Transfer Pump	5	psi
PI604	Sump Pressure	30	"W.C.
FT601	Flow Totalizer	1,705,058.9	gal
FT601	Flow Transmitter	10.2	gpm

Table 8

**Operational Checklist
Former Emerson Power Transmission
Ithaca, New York**

Maintenance Items:

Cleaned Stripper Trays (yes/no)	No

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Liquid Phase Carbon

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
PI611	Pressure Before Carbon Vessel T611	29	psi
PI612	Pressure After Carbon Vessel T611	15	psi
Effluent Flow	Totalizer	1,441,282	gal
Effluent Flow	Flow	16	gpm

Additional Maintenance Needed:

Backflushing

Description of Maintenance Actives Completed:

None

Air Compressor

Motor Run Time (hrs.)	4,319.1

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
PCV101	Pressure Regulator Valve Replaced with filter	120	psi
PI-101	Conveyance Line Pressure	120	psi
TI-101	Compressed Air Temperature	55	°F

Maintenance Items:

Oil Level:	Good
Oil Change (yes/no)	No
Belt Condition:	Good
Coalescing Filter Condition:	Good

Oil Change needed every 2000 hrs. OR every 12 Months (Which ever comes first)

Table 8

**Operational Checklist
Former Emerson Power Transmission
Ithaca, New York**

Additional Maintenance Needed:

None

Description of Maintenance Activities Completed:

None

Miscellaneous Tasks**Maintenance Items:**

Snow Removal (yes/no)	No
Grass/Weed Removal (yes/no)	No
Is Shed Clean and Organized on Arrival (yes/no)	Yes
Is Shed Clean and Organized on Departure (yes/no)	Yes
Other (please specify in detail):	Swept and mopped floor.

WELL VAULT CHECKLIST

Checked Heat Trace Breakers (yes/no):	Yes	
NYSEG Meter Reading (kwh)	274,780	

EW-1-62C

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

Vapor Line	Reading	Units
Vacuum Gauge	-6.5	inHg

Water Line	Reading	Units
Pressure Gauge	4.0	psi
Cycle Count	299,910	# of cycles

Air Line	Reading	Units
Pressure Gauge	115	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

<i>EW-2-62C</i>

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-8.5	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	3.0	psi
Cycle Count	993,397	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	120	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

<i>EW-3-60C</i>

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-8.5	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	3.0	psi
Cycle Count	49,382	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	120	psi
Regulator Gauge	85	psi

Description of Maintained Activities Completed:

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

EW-4-25B

Checked Sample Port (yes/no):		Yes
Checked Compressed Air Line Drain (yes/no):		Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-5.0	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	2.0	psi
Cycle Count	90,835	# of cycles 3

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	115	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

EW-5-25B

Checked Sample Port (yes/no):		Yes
Checked Compressed Air Line Drain (yes/no):		Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-7.5	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	3.0	psi
Cycle Count	521,290	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	120	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

<i>EW-6-60C</i>

Checked Sample Port (yes/no):		Yes
Checked Compressed Air Line Drain (yes/no):		Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-8.0	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	3.0	psi
Cycle Count	967,039	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	115	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Pulled pump and cleaned. Fiber material may have fouled ball valves. Reset pump and appears to be operating properly.

<i>EW-7-25B</i>

Checked Sample Port (yes/no):		Yes
Checked Compressed Air Line Drain (yes/no):		Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-8	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	5.0	psi
Cycle Count	280,010	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	110	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

<i>EW-8-62C</i>

Checked Sample Port (yes/no):		Yes
Checked Compressed Air Line Drain (yes/no):		Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-7	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	4	psi
Cycle Count	362,564	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	120	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

<i>EW-10-25B</i>

Checked Sample Port (yes/no):		Yes
Checked Compressed Air Line Drain (yes/no):		Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-6.5	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	0	psi
Cycle Count	187,975	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	110	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

<i>EW-9R-72C</i>

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-15	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	6.0	psi
Cycle Count	555,738	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	NA	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Pulled pump and cleaned. Pump indicated low water level.
Confirmed only 3-feet of water in well.

<i>EW-11-43C</i>

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-10.0	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Cycle Count	96,248	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Regulator Gauge	65	psi

Description of Maintained Activities Completed:

<i>EW-12-45C</i>

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	0	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	0.0	psi
Cycle Count	2,029	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Table 8

**Operational Checklist
Former Emerson Power Transmission
Ithaca, New York**

Date: 3/2/2023 **Inspector:** Greg Ernst

Arrival Time: 0800 **Weather Conditions:** 30° Cloudy

Departure Time: _____

Reason for Visit (check all that apply):

Bi-Weekly O&M _____ Collect influent/effluent samples _____

Monthly O&M X _____ Assist with carbon changeout _____

Other _____

System Alarms Active Upon Arrival None

TREATMENT SYSTEM CHECKLIST

Soil Vapor Extraction Skid

Motor Run Time (hrs.):	<u>43,091.5</u>

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
VI201	Vapor Liquid Separator Inlet Vacuum	<u>-9.5</u>	"Hg
VLSSG	Vapor Liquid Separator Site Glass	<u>0</u>	gal.
VI202	Particulate Filter Inlet Vacuum	<u>-4</u>	"Hg
VI203	Particulate Filter Outlet Vacuum	<u>-8.0</u>	"Hg
FI201	Soil Vapor Extraction Flow (Manual)	<u>26*</u>	scfm
TI201	Soil Vapor Extraction Discharge Temperature	<u>170</u>	°F
PI201	Soil Vapor Extraction Discharge Pressure	<u>12</u>	"W.C.
FT202	Vapor Liquid Separator Water Transfer Pump Totalizer	<u>158,163</u>	gal.

***Reading taken from newly installed Anemometer Port**

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

Maintenance Items:

Oil Level:	OK
Oil Change (yes/no every 6000hrs.):	No
Grease Lubrication Added (yes/no):	Yes
Transfer Water Out of Vapor Liquid Separator (yes/no)	No
Particulate Filter Changeout (yes/no)	No

Oil change Needed Every 6,000 hrs.

Replacement Blower Filter is a Solberg 235 P

Replacement Bleed Filter is a Solberg 31 P

Additional Maintenance Needed:

Vibration noted in SVE blower assembly but unit is operating normally.

Description of Maintenance Actives Completed:

Greased motor.

Vapor Phase Carbon

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
PI203	Pressure After Carbon Vessel T201	5.0	"W.C.
PI204	Pressure After Carbon Vessel T202	0	"W.C.
TI202	Inlet Temperature of 1st Carbon Unit	125	°F
TI203	Temperature Between the Carbon Units	112	°F

Description of Maintenance Actives Completed:

None

Equalization Tank

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
EQSG	Equalization Tank Site Glass	650	gal
PI701	Equalization Tank Vacuum	0	" W.C.

Description of Maintenance Activities Completed

None

Table 8

**Operational Checklist
Former Emerson Power Transmission
Ithaca, New York**

Bag Filter Skid

EQ Pump Run Time (hrs.):	4,247.8

Arrival / Depature / Adjusted

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
PI211	Transfer Pump Discharge Water Pressure	33	psi
PI221	Bag Filter Influent Water Pressure	0-Jan	psi
PI222	Water Pressure Between PF-221 and PF-222	0	pis
PI223	Water Pressure Between PF-222 and PF-223	0	psi
PI224	Water Pressure Between PF-224 and PF-225	0	psi
PI225	Water Pressure Between PF-225 and PF-226	0	psi
PI226	Bag Filtration Exit Water Pressure	0	psi
FT221	Bag Filtration Water Totalizer	430,130.7	gal
FT221	Bag Filtration Water Flow	4.5	gpm

Maintenance Items:

Changed Bag Filter(s) (yes/no)	No
Cleaned Bag Filter(s) (yes/no)	No

If yes, which filters? _____

If yes, which filters? _____

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Air Stripper Skid

AS Blower Run Time (hrs.)	42,719.7
AS Transfer Pump Run Time (hrs.)	2,028.0

check again next visit

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
PI601	Differential Pressure Before the Butterfly Valve	2	"W.C.
PI602	Pressure After the Butterfly Valve	0.6	"W.C.
PI603	Back Pressure After Transfer Pump	38	psi
PI604	Sump Pressure	28	"W.C.
FT601	Flow Totalizer	1,716,928.9	gal
FT601	Flow Transmitter	8.1	gpm

Table 8

**Operational Checklist
Former Emerson Power Transmission
Ithaca, New York**

Maintenance Items:

Cleaned Stripper Trays (yes/no)	No

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Liquid Phase Carbon

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
PI611	Pressure Before Carbon Vessel T611	27	psi
PI612	Pressure After Carbon Vessel T611	15	psi
Effluent Flow	Totalizer	1,453,161	gal
Effluent Flow	Flow	14	gpm

Additional Maintenance Needed:

Backflushing

Description of Maintenance Actives Completed:

None

Air Compressor

Motor Run Time (hrs.)	4,537.4

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
PCV101	Pressure Regulator Valve Replaced with filter	140	psi
PI-101	Conveyance Line Pressure	125	psi
TI-101	Compressed Air Temperature	63	°F

Maintenance Items:

Oil Level:	Good
Oil Change (yes/no)	No
Belt Condition:	Good
Coalescing Filter Condition:	Good

Oil Change needed every 2000 hrs. OR every 12 Months (Which ever comes first)

Table 8

**Operational Checklist
Former Emerson Power Transmission
Ithaca, New York**

Additional Maintenance Needed:

None

Description of Maintenance Activities Completed:

None

Miscellaneous Tasks**Maintenance Items:**

Snow Removal (yes/no)	No
Grass/Weed Removal (yes/no)	No
Is Shed Clean and Organized on Arrival (yes/no)	No
Is Shed Clean and Organized on Departure (yes/no)	Yes
Other (please specify in detail):	Unlabeled drums in shed.

WELL VAULT CHECKLIST

Checked Heat Trace Breakers (yes/no):	Yes	
NYSEG Meter Reading (kwh)	299,458	

EW-1-62C

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

Vapor Line	Reading	Units
Vacuum Gauge	-7	inHg

Water Line	Reading	Units
Pressure Gauge	3	psi
Cycle Count	348,671	# of cycles

Air Line	Reading	Units
Pressure Gauge	115	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

<i>EW-2-62C</i>

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-8.5	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	3.0	psi
Cycle Count	1,891	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	120	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Cycle count meter rolled over

<i>EW-3-60C</i>

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-8.0	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	4	psi
Cycle Count	54,471	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	125	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

EW-4-25B

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-6.5	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	3	psi
Cycle Count	93,715	# of cycles 3

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	125	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

EW-5-25B

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-8.5	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	5.5	psi
Cycle Count	556,498	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	120	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

<i>EW-6-60C</i>

Checked Sample Port (yes/no):		Yes
Checked Compressed Air Line Drain (yes/no):		Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-8.5	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	3.0	psi
Cycle Count	990,572	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	120	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

<i>EW-7-25B</i>

Checked Sample Port (yes/no):		Yes
Checked Compressed Air Line Drain (yes/no):		Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-8.5	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	5.0	psi
Cycle Count	292,485	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	110	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

<i>EW-8-62C</i>

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-8	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	2.5	psi
Cycle Count	392,275	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	125	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

<i>EW-10-25B</i>

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-8.5	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	0	psi
Cycle Count	192,856	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	110	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

Table 8

**Operational Checklist
Former Emerson Power Transmission
Ithaca, New York**

<i>EW-9R-72C</i>

Checked Sample Port (yes/no):		Yes
Checked Compressed Air Line Drain (yes/no):		Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-9	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	4.0	psi
Cycle Count	562,712	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	NA	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

<i>EW-11-43C</i>

Checked Sample Port (yes/no):		Yes
Checked Compressed Air Line Drain (yes/no):		Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-19.0	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Cycle Count	96,468	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Regulator Gauge	65	psi

Description of Maintained Activities Completed:

Needs LH door spring.

<i>EW-12-45C</i>

Checked Sample Port (yes/no):		Yes
Checked Compressed Air Line Drain (yes/no):		Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	OFF	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	0.0	psi
Cycle Count	2,040	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Table 8

**Operational Checklist
Former Emerson Power Transmission
Ithaca, New York**

Date: 4/21/2023 **Inspector:** Brandon Mikolin

Arrival Time: 0700 **Weather Conditions:** 60s and Sunny

Departure Time: _____

Reason for Visit (check all that apply):

Bi-Weekly O&M _____ Collect influent/effluent samples _____

Monthly O&M X Assist with carbon changeout X

Other _____

System Alarms Active Upon Arrival System off due to carbon vessel rebedding.

TREATMENT SYSTEM CHECKLIST***Soil Vapor Extraction Skid***

Motor Run Time (hrs.):	<u>43,735.5</u>

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
VI201	Vapor Liquid Separator Inlet Vacuum	<u>-9.0</u>	"Hg
VLSSG	Vapor Liquid Separator Site Glass	<u>25.38</u>	gal.
VI202	Particulate Filter Inlet Vacuum	<u>Cannot read gauge</u>	"Hg
VI203	Particulate Filter Outlet Vacuum	<u>-8.0</u>	"Hg
FI201	Soil Vapor Extraction Flow (Manual)	<u>27*</u>	scfm
TI201	Soil Vapor Extraction Discharge Temperature	<u>150</u>	°F
PI201	Soil Vapor Extraction Discharge Pressure	<u>5</u>	"W.C.
FT202	Vapor Liquid Separator Water Transfer Pump Totalizer	<u>1,431</u>	gal.

***Reading taken from newly installed Anemometer Port**

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

Maintenance Items:

Oil Level:	OK
Oil Change (yes/no every 6000hrs.):	No
Grease Lubrication Added (yes/no):	Yes
Transfer Water Out of Vapor Liquid Separator (yes/no)	Yes
Particulate Filter Changeout (yes/no)	No

Oil change Needed Every 6,000 hrs.

Replacement Blower Filter is a Solberg 235 P

Replacement Bleed Filter is a Solberg 31 P

Additional Maintenance Needed:

SVE pump coupler was completely worn out. Changed coupler and noted vibration remains. May need to check alignment and/or service SVE pump.

Description of Maintenance Actives Completed:

Greased motor.

Vapor Phase Carbon

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
PI203	Pressure After Carbon Vessel T201	5.0	"W.C.
PI204	Pressure After Carbon Vessel T202	0	"W.C.
TI202	Inlet Temperature of 1st Carbon Unit	125	°F
TI203	Temperature Between the Carbon Units	100	°F

Description of Maintenance Actives Completed:

None

Equalization Tank

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
EQSG	Equalization Tank Site Glass	900	gal
PI701	Equalization Tank Vacuum	0	" W.C.

Description of Maintenance Activities Completed

None

Table 8

**Operational Checklist
Former Emerson Power Transmission
Ithaca, New York**

Bag Filter Skid

EQ Pump Run Time (hrs.):	4,351.6

Arrival / Depature / Adjusted

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
PI211	Transfer Pump Discharge Water Pressure	34	psi
PI221	Bag Filter Influent Water Pressure	2	psi
PI222	Water Pressure Between PF-221 and PF-222	8	pis
PI223	Water Pressure Between PF-222 and PF-223	0	psi
PI224	Water Pressure Between PF-224 and PF-225	0	psi
PI225	Water Pressure Between PF-225 and PF-226	1	psi
PI226	Bag Filtration Exit Water Pressure	0	psi
FT221	Bag Filtration Water Totalizer	447,121.2	gal
FT221	Bag Filtration Water Flow	4.3	gpm

Maintenance Items:

Changed Bag Filter(s) (yes/no)	No
Cleaned Bag Filter(s) (yes/no)	No

If yes, which filters? _____

If yes, which filters? _____

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Air Stripper Skid

AS Blower Run Time (hrs.)	43,735.9
AS Transfer Pump Run Time (hrs.)	2,076.8

check again next visit

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
PI601	Differential Pressure Before the Butterfly Valve	1	"W.C.
PI602	Pressure After the Butterfly Valve	0.6	"W.C.
PI603	Back Pressure After Transfer Pump	38	psi
PI604	Sump Pressure	28	"W.C.
FT601	Flow Totalizer	1,740,209.0	gal
FT601	Flow Transmitter	11.6	gpm

Table 8

**Operational Checklist
Former Emerson Power Transmission
Ithaca, New York**

Maintenance Items:

Cleaned Stripper Trays (yes/no)	No

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Liquid Phase Carbon

Nomenclature	Description	Reading	Units
PI611	Pressure Before Carbon Vessel T611	26	psi
PI612	Pressure After Carbon Vessel T611	17	psi
Effluent Flow	Totalizer	1,493,631	gal
Effluent Flow	Flow	14	gpm

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

Rebedded lead carbon vessel. Moved lag vessel to lead position and the fresh carbon vessel became lag vessel.

Air Compressor

Motor Run Time (hrs.)	5,019.1

Nomenclature	Description	Reading	Units
PCV101	Pressure Regulator Valve Replaced with filter	120	psi
PI-101	Conveyance Line Pressure	115	psi
TI-101	Compressed Air Temperature	78	°F

Maintenance Items:

Oil Level:	Good
Oil Change (yes/no)	No
Belt Condition:	Good
Coalescing Filter Condition:	Good

Oil Change needed every 2000 hrs. OR every 12 Months (Which ever comes first)

Table 8

**Operational Checklist
Former Emerson Power Transmission
Ithaca, New York**

Additional Maintenance Needed:

Need new air filter housing. Unit is leaking air at bottom of cup.

Description of Maintenance Actives Completed:

None

Miscellaneous Tasks

Maintenance Items:

Snow Removal (yes/no)	No
Grass/Weed Removal (yes/no)	No
Is Shed Clean and Organized on Arrival (yes/no)	Yes
Is Shed Clean and Organized on Departure (yes/no)	Yes
Other (please specify in detail):	Placed 2 labeled drums of spent carbon into storage shed for WSP.

WELL VAULT CHECKLIST

Checked Heat Trace Breakers (yes/no):	Turned Off	
NYSEG Meter Reading (kwh)	333,444	

EW-1-62C

Checked Sample Port (yes/no):	No
Checked Compressed Air Line Drain (yes/no):	No

Vapor Line	Reading	Units
Vacuum Gauge	-9	inHg

Water Line	Reading	Units
Pressure Gauge	5	psi
Cycle Count	431,859	# of cycles

Air Line	Reading	Units
Pressure Gauge	120	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

<i>EW-2-62C</i>

Checked Sample Port (yes/no):	No
Checked Compressed Air Line Drain (yes/no):	No

Vapor Line	Reading	Units
Vacuum Gauge	-8.0	inHg

Water Line	Reading	Units
Pressure Gauge	4.0	psi
Cycle Count	18,189	# of cycles

Air Line	Reading	Units
Pressure Gauge	115	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

<i>EW-3-60C</i>

Checked Sample Port (yes/no):	No
Checked Compressed Air Line Drain (yes/no):	No

Vapor Line	Reading	Units
Vacuum Gauge	-8.0	inHg

Water Line	Reading	Units
Pressure Gauge	2	psi
Cycle Count	63,853	# of cycles

Air Line	Reading	Units
Pressure Gauge	125	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

EW-4-25B

Checked Sample Port (yes/no):		No
Checked Compressed Air Line Drain (yes/no):		No

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-9.0	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	15	psi
Cycle Count	102,426	# of cycles 3

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	125	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

EW-5-25B

Checked Sample Port (yes/no):		No
Checked Compressed Air Line Drain (yes/no):		No

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-10	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	5	psi
Cycle Count	644,842	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	125	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

<i>EW-6-60C</i>

Checked Sample Port (yes/no):		No
Checked Compressed Air Line Drain (yes/no):		No

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-7.5	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	2.0	psi
Cycle Count	994,734	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	125	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

<i>EW-7-25B</i>

Checked Sample Port (yes/no):		No
Checked Compressed Air Line Drain (yes/no):		No

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-7.5	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	5.0	psi
Cycle Count	313,289	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	110	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

<i>EW-8-62C</i>

Checked Sample Port (yes/no):		No
Checked Compressed Air Line Drain (yes/no):		No

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-8.5	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	3	psi
Cycle Count	435,387	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	122	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

<i>EW-10-25B</i>

Checked Sample Port (yes/no):		No
Checked Compressed Air Line Drain (yes/no):		No

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-9.5	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	4	psi
Cycle Count	199,277	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	125	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

Table 8

**Operational Checklist
Former Emerson Power Transmission
Ithaca, New York**

<i>EW-9R-72C</i>

Checked Sample Port (yes/no):	No
Checked Compressed Air Line Drain (yes/no):	No

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-10	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	4.0	psi
Cycle Count	570,773	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	NA	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

<i>EW-11-43C</i>

Checked Sample Port (yes/no):	No
Checked Compressed Air Line Drain (yes/no):	No

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-5.0	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Cycle Count	99,673	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Regulator Gauge	60	psi

Description of Maintained Activities Completed:

<i>EW-12-45C</i>

Checked Sample Port (yes/no):	No
Checked Compressed Air Line Drain (yes/no):	No

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-30	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	4.0	psi
Cycle Count	2,070	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Regulator Gauge	85	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

Date: 5/15/2023
Arrival Time: 0930
Departure Time: _____

Inspector: Brandon Mikolin
Weather Conditions: 60's and Sunny

Reason for Visit (check all that apply):

Bi-Weekly O&M _____ Collect influent/effluent samples _____
Monthly O&M x Assist with carbon changeout x
Other _____

System Alarms Active Upon Arrival System off due to low air pressure alarms.

TREATMENT SYSTEM CHECKLIST

Soil Vapor Extraction Skid

Motor Run Time (hrs.):	<u>44,093.6</u>	screen
Motor Run Time (hrs.):	<u>73,678.7</u>	gauge

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
VI201	Vapor Liquid Separator Inlet Vacuum	<u>0.0</u>	"Hg
VLSSG	Vapor Liquid Separator Site Glass	<u>21.54</u>	gal.
VI202	Particulate Filter Inlet Vacuum	<u>0</u>	"Hg
VI203	Particulate Filter Outlet Vacuum	<u>0.0</u>	"Hg
FI201	Soil Vapor Extraction Flow (Manual)	<u>0</u>	scfm
TI201	Soil Vapor Extraction Discharge Temperature	<u>NA</u>	°F
PI201	Soil Vapor Extraction Discharge Pressure	<u>0</u>	"W.C.
FT202	Vapor Liquid Separator Water Transfer Pump Totalizer	<u>255</u>	gal.

*Reading taken from newly installed Anemometer Port

Operational Checklist

Former EPT
Ithaca, NY

Maintenance Items:

Oil Level:	NA
Oil Change (yes/no every 6000hrs.):	No
Grease Lubrication Added (yes/no):	No
Transfer Water Out of Vapor Liquid Separator (yes/no)	No
Particulate Filter Changeout (yes/no)	No

Oil change Needed Every 6,000 hrs. Last changed 11/14/22
40,470.4 hrs. Next oil change due 46,470 hours.

Replacement Blower Filter is a Solberg 235 P

Replacement Bleed Filter is a Solberg 31 P

Additional Maintenance Needed:

SVE blower removed for rebuild. New blower on order.

Description of Maintenance Actives Completed:

Dropped off shaft couplers and inserts for new blower.

Vapor Phase Carbon

Nomenclature	Description	Reading	Units
PI203	Pressure After Carbon Vessel T201	0.0	"W.C.
PI204	Pressure After Carbon Vessel T202	0	"W.C.
TI202	Inlet Temperature of 1st Carbon Unit	70	°F
TI203	Temperature Between the Carbon Units	70	°F

Description of Maintenance Actives Completed:

None

Equalization Tank

Nomenclature	Description	Reading	Units
EQSG	Equalization Tank Site Glass	250	gal
PI701	Equalization Tank Vacuum	0	" W.C.

Description of Maintenance Actives Completed:

None

Operational Checklist

Former EPT
Ithaca, NY

Bag Filter Skid

EQ Pump Run Time (hrs.):	4,360.8	screen
EQ Pump Run Time (hrs.):	11,078.4	gauge

Nomenclature	Description	Reading	Units
PI211	Transfer Pump Discharge Water Pressure	29	psi
PI221	Bag Filter Influent Water Pressure	5	psi
PI222	Water Pressure Between PF-221 and PF-222	5	psi
PI223	Water Pressure Between PF-222 and PF-223	0	psi
PI224	Water Pressure Between PF-224 and PF-225	0	psi
PI225	Water Pressure Between PF-225 and PF-226	4	psi
PI226	Bag Filtration Exit Water Pressure	0	psi
FT221	Bag Filtration Water Totalizer	447,502.3	gal
FT221	Bag Filtration Water Flow	1.8	gpm

Maintenance Items:

Changed Bag Filter(s) (yes/no)	No	If yes, which filters? _____
Cleaned Bag Filter(s) (yes/no)	No	If yes, which filters? _____

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Operational Checklist

Former EPT
Ithaca, NY

Air-Stripper Skid

AS Blower Run Time (hrs.)	43,843.9	screen	check again next visit
AS Blower Run Time (hrs.)	1,851.3	gauge	
AS Transfer Pump Run Time (hrs.)	2,083.0	screen	
AS Transfer Pump Run Time (hrs.)	5,334.7	gauge	

Nomenclature	Description	Reading	Units
PI601	Differential Pressure Before the Butterfly Valve	0	"W.C.
PI602	Pressure After the Butterfly Valve	1	"W.C.
PI603	Back Pressure After Transfer Pump	5	psi
PI604	Sump Pressure	23	"W.C.
FT601	Flow Totalizer	1,743,344.6	gal
FT601	Flow Transmitter	0.0	gpm

Maintenance Items:

Cleaned Stripper Trays (yes/no)	No	

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Liquid Phase Carbon

Nomenclature	Description	Reading	Units
PI611	Pressure Before Carbon Vessel T611	26	psi
PI612	Pressure After Carbon Vessel T611	16	psi
Effluent Flow	Totalizer	1,499,599	gal
Effluent Flow	Flow	13	gpm

Operational Checklist

Former EPT
Ithaca, NY

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

Air Compressor

Motor Run Time (hrs.)	5,062.3	screen
Motor Run Time (hrs.)	12,820.7	gauge

Nomenclature	Description	Reading	Units
PCV101	Pressure Regulator Valve	150	psi
PI-101	Conveyance Line Pressure	130	psi
TI-101	Compressed Air Temperature	75	°F

Maintenance Items:

Oil Level:	Good	Oil Change needed every 2000 hrs. OR every 12 Months (Which ever comes first). Last changed 1/13/2022 at 11,231.2 hrs with new compressor pump. Next oil change Interval 13,231.2 hrs. or by 1/13/2023.
Oil Change (yes/no)	No	
Belt Condition:	Good	
Coalescing Filter Condition:	Good	

Additional Maintenance Needed:

Need new air filter housing on order and expected to arrive 5/17/23.

Description of Maintenance Actives Completed:

Plugged the bottom of 2nd air filter so it would not keep leaking air.

Operational Checklist

Former EPT
Ithaca, NY

Miscellaneous Tasks

Maintenance Items:

Snow Removal (yes/no)	No
Grass/Weed Removal (yes/no)	Yes
Is Shed Clean and Organized on Arrival (yes/no)	Yes
Is Shed Clean and Organized on Departure (yes/no)	Yes
Other (please specify in detail):	

WELL VAULT CHECKLIST

Checked Heat Trace Breakers (yes/no):	No	
NYSEG Meter Reading (kwh)	334,563	

EW-1

Checked Sample Port (yes/no):	No
Checked Compressed Air Line Drain (yes/no):	No

Vapor Line	Reading	Units
Vacuum Gauge	0	inHg

Water Line	Reading	Units
Pressure Gauge	7	psi
Cycle Count	441,028	# of cycles

Air Line	Reading	Units
Pressure Gauge	130	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-2

Checked Sample Port (yes/no):	No
Checked Compressed Air Line Drain (yes/no):	No

Vapor Line	Reading	Units
Vacuum Gauge	0.0	inHg

Water Line	Reading	Units
Pressure Gauge	3.0	psi
Cycle Count	20,878	# of cycles

Air Line	Reading	Units
Pressure Gauge	80	psi
Regulator Gauge	0	psi

Description of Maintained Activities Completed:

EW-3

Checked Sample Port (yes/no):	No
Checked Compressed Air Line Drain (yes/no):	No

Vapor Line	Reading	Units
Vacuum Gauge	0.0	inHg

Water Line	Reading	Units
Pressure Gauge	5	psi
Cycle Count	65,521	# of cycles

Air Line	Reading	Units
Pressure Gauge	125	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-4

Checked Sample Port (yes/no):	No
Checked Compressed Air Line Drain (yes/no):	No

Vapor Line	Reading	Units
Vacuum Gauge	0.0	inHg

Water Line	Reading	Units
Pressure Gauge	3	psi
Cycle Count	102,805	# of cycles 3

Air Line	Reading	Units
Pressure Gauge	110	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

EW-5

Checked Sample Port (yes/no):	No
Checked Compressed Air Line Drain (yes/no):	No

Vapor Line	Reading	Units
Vacuum Gauge	0	inHg

Water Line	Reading	Units
Pressure Gauge	5	psi
Cycle Count	651,931	# of cycles

Air Line	Reading	Units
Pressure Gauge	115	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-6

Checked Sample Port (yes/no):	No
Checked Compressed Air Line Drain (yes/no):	No

Vapor Line	Reading	Units
Vacuum Gauge	0.0	inHg

Water Line	Reading	Units
Pressure Gauge	6.0	psi
Cycle Count	995,966	# of cycles

Air Line	Reading	Units
Pressure Gauge	115	psi
Regulator Gauge	78	psi

Description of Maintained Activities Completed:

Closed the valve on air supply line to downstream wells due to disconnected line. Line unable to be reconnected, planning to extend and recouple the line.

EW-7

Checked Sample Port (yes/no):	No
Checked Compressed Air Line Drain (yes/no):	No

Vapor Line	Reading	Units
Vacuum Gauge	0	inHg

Water Line	Reading	Units
Pressure Gauge	0.0	psi
Cycle Count	315,289	# of cycles

Air Line	Reading	Units
Pressure Gauge	0	psi
Regulator Gauge	0	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-8

Checked Sample Port (yes/no):	No
Checked Compressed Air Line Drain (yes/no):	No

Vapor Line	Reading	Units
Vacuum Gauge	0	inHg

Water Line	Reading	Units
Pressure Gauge	0	psi
Cycle Count	446,366	# of cycles

Air Line	Reading	Units
Pressure Gauge	0	psi
Regulator Gauge	0	psi

Description of Maintained Activities Completed:

EW-10

Checked Sample Port (yes/no):	No
Checked Compressed Air Line Drain (yes/no):	No

Vapor Line	Reading	Units
Vacuum Gauge	0.0	inHg

Water Line	Reading	Units
Pressure Gauge	0	psi
Cycle Count	200,008	# of cycles

Air Line	Reading	Units
Pressure Gauge	0	psi
Regulator Gauge	0	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-9R (uphill)

Checked Sample Port (yes/no):	No
Checked Compressed Air Line Drain (yes/no):	No

Vapor Line	Reading	Units
Vacuum Gauge	0	inHg

Water Line	Reading	Units
Pressure Gauge	6.0	psi
Cycle Count	575,963	# of cycles

Air Line	Reading	Units
Pressure Gauge	NA	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

EW-11

Checked Sample Port (yes/no):	No
Checked Compressed Air Line Drain (yes/no):	No

Vapor Line	Reading	Units
Vacuum Gauge	0.0	inHg

Water Line	Reading	Units
Cycle Count	121,221	# of cycles

Air Line	Reading	Units
Regulator Gauge	35	psi

Description of Maintained Activities Completed:

EW-12

Checked Sample Port (yes/no):	No
Checked Compressed Air Line Drain (yes/no):	No

Vapor Line	Reading	Units
Vacuum Gauge	0	inHg

Water Line	Reading	Units
Pressure Gauge	1.0	psi
Cycle Count	2,076	# of cycles

Air Line	Reading	Units
Regulator Gauge	0	psi

Description of Maintained Activities Completed:

Table 8

**Operational Checklist
Former Emerson Power Transmission
Ithaca, New York**

Date: 6/9/2023 **Inspector:** Greg Ernst

Arrival Time: 0800 **Weather Conditions:** 60s and Partly Cloudy

Departure Time: _____

Reason for Visit (check all that apply):

Bi-Weekly O&M _____ Collect influent/effluent samples _____

Monthly O&M X Assist with carbon changeout X

Other _____

System Alarms Active Upon Arrival Phase/voltage fault, EQ Tank Level Low, Emergency Stop

TREATMENT SYSTEM CHECKLIST**Soil Vapor Extraction Skid**

Motor Run Time (hrs.):	<u>44,093.6</u>

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
VI201	Vapor Liquid Separator Inlet Vacuum	-	"Hg
VLSSG	Vapor Liquid Separator Site Glass	-	gal.
VI202	Particulate Filter Inlet Vacuum	-	"Hg
VI203	Particulate Filter Outlet Vacuum	-	"Hg
FI201	Soil Vapor Extraction Flow (Manual)	-	scfm
TI201	Soil Vapor Extraction Discharge Temperature	-	°F
PI201	Soil Vapor Extraction Discharge Pressure	-	"W.C.
FT202	Vapor Liquid Separator Water Transfer Pump Totalizer	<u>160,003</u>	gal.
<u>*Reading taken from newly installed Anemometer Port</u>			

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

Maintenance Items:

Oil Level:	-
Oil Change (yes/no every 6000hrs.):	-
Grease Lubrication Added (yes/no):	-
Transfer Water Out of Vapor Liquid Separator (yes/no)	-
Particulate Filter Changeout (yes/no)	-

Oil change Needed Every 6,000 hrs.

Replacement Blower Filter is a Solberg 235 P

Replacement Bleed Filter is a Solberg 31 P

Additional Maintenance Needed:

Blower being rebuilt, will be reinstalled when available. Mounting deck needs to be cleaned before reinstall.

Description of Maintenance Actives Completed:

Taped off blower exhaust flange air exhaust from air stripper back flowing into building.

Vapor Phase Carbon

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
PI203	Pressure After Carbon Vessel T201	-	"W.C.
PI204	Pressure After Carbon Vessel T202	-	"W.C.
TI202	Inlet Temperature of 1st Carbon Unit	-	°F
TI203	Temperature Between the Carbon Units	-	°F

Description of Maintenance Actives Completed:

None

Equalization Tank

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
EQSG	Equalization Tank Site Glass	900	gal
PI701	Equalization Tank Vacuum	0	" W.C.

Description of Maintenance Activities Completed

Cleaned site glass.

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

Bag Filter Skid

EQ Pump Run Time (hrs.):	4,363.2

Arrival / Depature / Adjusted

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
PI211	Transfer Pump Discharge Water Pressure	28	psi
PI221	Bag Filter Influent Water Pressure	2	psi
PI222	Water Pressure Between PF-221 and PF-222	4	pis
PI223	Water Pressure Between PF-222 and PF-223	0	psi
PI224	Water Pressure Between PF-224 and PF-225	0	psi
PI225	Water Pressure Between PF-225 and PF-226	0	psi
PI226	Bag Filtration Exit Water Pressure	0	psi
FT221	Bag Filtration Water Totalizer	448,320.8	gal
FT221	Bag Filtration Water Flow	5.2	gpm

Maintenance Items:

Changed Bag Filter(s) (yes/no)	No
Cleaned Bag Filter(s) (yes/no)	No

If yes, which filters? _____

If yes, which filters? _____

Additional Maintenance Needed:

Filter change next visit.

Description of Maintenance Actives Completed:

None

Air Stripper Skid

AS Blower Run Time (hrs.)	43,886.5
AS Transfer Pump Run Time (hrs.)	2,085.4

check again next visit

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
PI601	Differential Pressure Before the Butterfly Valve	0	"W.C.
PI602	Pressure After the Butterfly Valve	0.8	"W.C.
PI603	Back Pressure After Transfer Pump	38	psi
PI604	Sump Pressure	26	"W.C.
FT601	Flow Totalizer	1,745,601.1	gal
FT601	Flow Transmitter	9.4	gpm

Table 8

**Operational Checklist
Former Emerson Power Transmission
Ithaca, New York**

Maintenance Items:

Cleaned Stripper Trays (yes/no)	No

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Liquid Phase Carbon

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
PI611	Pressure Before Carbon Vessel T611	27	psi
PI612	Pressure After Carbon Vessel T611	18	psi
Effluent Flow	Totalizer	1,501,466	gal
Effluent Flow	Flow	16	gpm

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Air Compressor

Motor Run Time (hrs.)	5,081.9

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
PCV101	Pressure Regulator Valve Replaced with filter	130	psi
PI-101	Conveyance Line Pressure	115	psi
TI-101	Compressed Air Temperature	72	°F

Maintenance Items:

Oil Level:	Good
Oil Change (yes/no)	No
Belt Condition:	Good
Coalescing Filter Condition:	Good

Oil Change needed every 2000 hrs. OR every 12 Months (Which ever comes first)

Table 8

**Operational Checklist
Former Emerson Power Transmission
Ithaca, New York**

Additional Maintenance Needed:

Filter housing needs replacement. Received spare housing for install next trip.

Description of Maintenance Activities Completed:**Miscellaneous Tasks****Maintenance Items:**

Snow Removal (yes/no)	No
Grass/Weed Removal (yes/no)	Yes
Is Shed Clean and Organized on Arrival (yes/no)	Yes
Is Shed Clean and Organized on Departure (yes/no)	Yes
Other (please specify in detail):	

WELL VAULT CHECKLIST

Checked Heat Trace Breakers (yes/no):	No	
NYSEG Meter Reading (kwh)	335,266	

EW-1-62C

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

Vapor Line	Reading	Units
Vacuum Gauge	Off	inHg

Water Line	Reading	Units
Pressure Gauge	2	psi
Cycle Count	447,711	# of cycles

Air Line	Reading	Units
Pressure Gauge	115	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

<i>EW-2-62C</i>

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	Off	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	2.5	psi
Cycle Count	21,196	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	115	psi
Regulator Gauge	70	psi

Description of Maintained Activities Completed:

<i>EW-3-60C</i>

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	Off	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	4	psi
Cycle Count	66,557	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	110	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

EW-4-25B

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	Off	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	3	psi
Cycle Count	103,277	# of cycles 3

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	110	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

EW-5-25B

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	Off	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	3	psi
Cycle Count	652,193	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	125	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

<i>EW-6-60C</i>

Checked Sample Port (yes/no):		Yes
Checked Compressed Air Line Drain (yes/no):		Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	Off	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	Off scale	psi
Cycle Count	998,237	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	125	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

<i>EW-7-25B</i>

Checked Sample Port (yes/no):		Yes
Checked Compressed Air Line Drain (yes/no):		Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	Off	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	3.0	psi
Cycle Count	316,149	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	115	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Table 8
Operational Checklist
Former Emerson Power Transmission
Ithaca, New York

<i>EW-8-62C</i>

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	Off	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	3	psi
Cycle Count	448,266	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	120	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

<i>EW-10-25B</i>

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	Off	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	Off scale	psi
Cycle Count	200,492	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	130	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Table 8

**Operational Checklist
Former Emerson Power Transmission
Ithaca, New York**

<i>EW-9R-72C</i>

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	Off	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	2.0	psi
Cycle Count	580,078	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	NA	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

<i>EW-11-43C</i>

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	Off	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Cycle Count	124,342	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Regulator Gauge	40	psi

Description of Maintained Activities Completed:

Air leak in main line from access vault. Disconnected air line to upper tier at EW-8.

<i>EW-12-45C</i>

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	Off	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	0	psi
Cycle Count	2,078	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Regulator Gauge	0	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

Date: 7/19/2023
Arrival Time: 0800
Departure Time: _____

Inspector: Greg Ernst
Weather Conditions: 80°, clear

Reason for Visit (check all that apply):

Bi-Weekly O&M _____ Collect influent/effluent samples _____
Monthly O&M x Assist with carbon changeout _____
Other Air Stripper Cleaning

System Alarms Active Upon Arrival None

TREATMENT SYSTEM CHECKLIST

Soil Vapor Extraction Skid

Motor Run Time (hrs.):	<u>44,259.2</u>
Motor Run Time (hrs.):	<u>73,678.7</u>

screen

***New Blower Installed 7/13/23**

gauge

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
VI201	Vapor Liquid Separator Inlet Vacuum	<u>-8.0</u>	"Hg
VLSSG	Vapor Liquid Separator Site Glass	<u>11.75</u>	gal.
VI202	Particulate Filter Inlet Vacuum	<u>-2.5</u>	"Hg
VI203	Particulate Filter Outlet Vacuum	<u>-7.5</u>	"Hg
FI201	Soil Vapor Extraction Flow (Manual)	<u>26</u>	scfm
TI201	Soil Vapor Extraction Discharge Temperature	<u>165</u>	°F
PI201	Soil Vapor Extraction Discharge Pressure	<u>11</u>	"W.C.
FT202	Vapor Liquid Separator Water Transfer Pump Totalizer	<u>1,339</u>	gal.

***Reading taken from newly installed Anemometer Port**

Operational Checklist

Former EPT
Ithaca, NY

Maintenance Items:

Oil Level:	Okay
Oil Change (yes/no every 6000hrs.):	No
Grease Lubrication Added (yes/no):	Yes
Transfer Water Out of Vapor Liquid Separator (yes/no)	Yes
Particulate Filter Changeout (yes/no)	No

Oil change Needed Every 6,000 hrs. New Blower 7/13/23
44,259 hours. **Oil change needed at 50,259 hours.**

Replacement Blower Filter is a Solberg 235 P

Replacement Bleed Filter is a Solberg 31 P

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Vapor Phase Carbon

Nomenclature	Description	Reading	Units
PI203	Pressure After Carbon Vessel T201	5.0	"W.C.
PI204	Pressure After Carbon Vessel T202	0	"W.C.
TI202	Inlet Temperature of 1st Carbon Unit	130	°F
TI203	Temperature Between the Carbon Units	120	°F

Description of Maintenance Actives Completed:

None

Equalization Tank

Nomenclature	Description	Reading	Units
EQSG	Equalization Tank Site Glass	750	gal
PI701	Equalization Tank Vacuum	0	" W.C.

Description of Maintenance Actives Completed:

Cleaned site glass.

Operational Checklist

Former EPT
Ithaca, NY

Bag Filter Skid

EQ Pump Run Time (hrs.):	4,374.2	screen
EQ Pump Run Time (hrs.):	11,091.8	gauge

Nomenclature	Description	Reading	Units
PI211	Transfer Pump Discharge Water Pressure	28	psi
PI221	Bag Filter Influent Water Pressure	0	psi
PI222	Water Pressure Between PF-221 and PF-222	0	pis
PI223	Water Pressure Between PF-222 and PF-223	0	psi
PI224	Water Pressure Between PF-224 and PF-225	0	psi
PI225	Water Pressure Between PF-225 and PF-226	0	psi
PI226	Bag Filtration Exit Water Pressure	0	psi
FT221	Bag Filtration Water Totalizer	453,099.8	gal
FT221	Bag Filtration Water Flow	8	gpm

Maintenance Items:

Changed Bag Filter(s) (yes/no)	Yes	If yes, which filters? All
Cleaned Bag Filter(s) (yes/no)	No	If yes, which filters?

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Operational Checklist

Former EPT
Ithaca, NY

Air-Stripper Skid

AS Blower Run Time (hrs.)	44,107.7	screen
AS Blower Run Time (hrs.)	2,111.1	gauge
AS Transfer Pump Run Time (hrs.)	2,096.5	screen
AS Transfer Pump Run Time (hrs.)	5,348.1	gauge

Nomenclature	Description	Reading	Units
PI601	Differential Pressure Before the Butterfly Valve	0	"W.C.
PI602	Pressure After the Butterfly Valve	0.6	"W.C.
PI603	Back Pressure After Transfer Pump	38	psi
PI604	Sump Pressure	28	"W.C.
FT601	Flow Totalizer	1,751,604.3	gal
FT601	Flow Transmitter	8.0	gpm

Maintenance Items:

Cleaned Stripper Trays (yes/no)	Yes	

Additional Maintenance Needed:

Reseal door next service.

Description of Maintenance Actives Completed:

Cleaned trays and door glass. Recirculated acid for one hour.

Liquid Phase Carbon

Nomenclature	Description	Reading	Units
PI611	Pressure Before Carbon Vessel T611	28	psi
PI612	Pressure After Carbon Vessel T611	15	psi
Effluent Flow	Totalizer	1,510,305	gal
Effluent Flow	Flow	17	gpm

Operational Checklist

Former EPT
Ithaca, NY

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Air Compressor

Motor Run Time (hrs.)	5,113.3	screen
Motor Run Time (hrs.)	14,743.5	gauge

Nomenclature	Description	Reading	Units
PCV101	Pressure Regulator Valve	150	psi
PI-101	Conveyance Line Pressure	125	psi
TI-101	Compressed Air Temperature	82	°F

Maintenance Items:

Oil Level:	Okay	Oil Change needed every 2000 hrs. OR every 12 Months (Which ever comes first). Last changed 1/3/2023 at 11,879 hrs. Next oil change due 13,879 hours or 1/3/2024.
Oil Change (yes/no)	No	
Belt Condition:	Okay	
Coalescing Filter Condition:	Okay	

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Operational Checklist

Former EPT
Ithaca, NY

Miscellaneous Tasks

Maintenance Items:

Snow Removal (yes/no)	No
Grass/Weed Removal (yes/no)	Yes
Is Shed Clean and Organized on Arrival (yes/no)	Yes
Is Shed Clean and Organized on Departure (yes/no)	Yes

Other (please specify in detail):

Sprayed weeds around building perimeter.

WELL VAULT CHECKLIST

Checked Heat Trace Breakers (yes/no):	Yes - Off	
NYSEG Meter Reading (kwh)	338,576	

EW-1

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-9	inHg

Water Line	Reading	Units
Pressure Gauge	2	psi
Cycle Count	473,567	# of cycles

Air Line	Reading	Units
Pressure Gauge	125	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-2

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-7.5	inHg

Water Line	Reading	Units
Pressure Gauge	5.0	psi
Cycle Count	25,731	# of cycles

Air Line	Reading	Units
Pressure Gauge	120	psi
Regulator Gauge	70	psi

Description of Maintained Activities Completed:

EW-3

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-7.5	inHg

Water Line	Reading	Units
Pressure Gauge	2.5	psi
Cycle Count	67,840	# of cycles

Air Line	Reading	Units
Pressure Gauge	110	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-4

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-8.0	inHg

Water Line	Reading	Units
Pressure Gauge	0	psi
Cycle Count	107,584	# of cycles 3

Air Line	Reading	Units
Pressure Gauge	120	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

EW-5

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-10	inHg

Water Line	Reading	Units
Pressure Gauge	5	psi
Cycle Count	666,780	# of cycles

Air Line	Reading	Units
Pressure Gauge	115	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-6

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-8.0	inHg

Water Line	Reading	Units
Pressure Gauge	4.0	psi
Cycle Count	12,019	# of cycles

Air Line	Reading	Units
Pressure Gauge	115	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

EW-7

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-7.5	inHg

Water Line	Reading	Units
Pressure Gauge	0.0	psi
Cycle Count	322,878	# of cycles

Air Line	Reading	Units
Pressure Gauge	120	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-8

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-8	inHg

Water Line	Reading	Units
Pressure Gauge	2	psi
Cycle Count	467,507	# of cycles

Air Line	Reading	Units
Pressure Gauge	125	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

EW-10

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-9.0	inHg

Water Line	Reading	Units
Pressure Gauge	1	psi
Cycle Count	202,250	# of cycles

Air Line	Reading	Units
Pressure Gauge	130	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-9R (uphill)

Checked Sample Port (yes/no):	-
Checked Compressed Air Line Drain (yes/no):	-

Vapor Line	Reading	Units
Vacuum Gauge	-	inHg

Water Line	Reading	Units
Pressure Gauge	-	psi
Cycle Count	-	# of cycles

Air Line	Reading	Units
Pressure Gauge	-	psi
Regulator Gauge	-	psi

Description of Maintained Activities Completed:

Offline

EW-11

Checked Sample Port (yes/no):	-
Checked Compressed Air Line Drain (yes/no):	-

Vapor Line	Reading	Units
Vacuum Gauge	-	inHg

Water Line	Reading	Units
Cycle Count	-	# of cycles

Air Line	Reading	Units
Regulator Gauge	-	psi

Description of Maintained Activities Completed:

Offline

EW-12

Checked Sample Port (yes/no):	-
Checked Compressed Air Line Drain (yes/no):	-

Vapor Line	Reading	Units
Vacuum Gauge	-	inHg

Water Line	Reading	Units
Pressure Gauge	-	psi
Cycle Count	-	# of cycles

Air Line	Reading	Units
Regulator Gauge	-	psi

Description of Maintained Activities Completed:

Offline

Operational Checklist

Former EPT
Ithaca, NY

Date: 8/18/2023
Arrival Time: 0800
Departure Time: _____

Inspector: Greg Ernst
Weather Conditions: 80° Partly Cloudy

Reason for Visit (check all that apply):

Bi-Weekly O&M _____ Collect influent/effluent samples _____
Monthly O&M x _____ Assist with carbon changeout _____
Other _____

System Alarms Active Upon Arrival None

TREATMENT SYSTEM CHECKLIST

Soil Vapor Extraction Skid

Motor Run Time (hrs.):	<u>44,653.0</u>	screen	<u>*New Blower Installed 7/13/23</u>
Motor Run Time (hrs.):	<u>73,678.8</u>	gauge	

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
VI201	Vapor Liquid Separator Inlet Vacuum	<u>-8.5</u>	"Hg
VLSSG	Vapor Liquid Separator Site Glass	<u>50.9</u>	gal.
VI202	Particulate Filter Inlet Vacuum	<u>-3</u>	"Hg
VI203	Particulate Filter Outlet Vacuum	<u>-8.0</u>	"Hg
FI201	Soil Vapor Extraction Flow (Manual)	<u>26</u>	scfm
TI201	Soil Vapor Extraction Discharge Temperature	<u>175</u>	°F
PI201	Soil Vapor Extraction Discharge Pressure	<u>11</u>	"W.C.
FT202	Vapor Liquid Separator Water Transfer Pump Totalizer	<u>2,461</u>	gal.
<u>*Reading taken from newly installed Anemometer Port</u>			

Operational Checklist

Former EPT
Ithaca, NY

Maintenance Items:

Oil Level:	Okay
Oil Change (yes/no every 6000hrs.):	No
Grease Lubrication Added (yes/no):	Yes
Transfer Water Out of Vapor Liquid Separator (yes/no)	Yes
Particulate Filter Changeout (yes/no)	No

Oil change Needed Every 6,000 hrs. New Blower 7/13/23
44,259 hours. **Oil change needed at 50,259 hours.**

Replacement Blower Filter is a Solberg 235 P

Replacement Bleed Filter is a Solberg 31 P

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Vapor Phase Carbon

Nomenclature	Description	Reading	Units
PI203	Pressure After Carbon Vessel T201	0.0	"W.C.
PI204	Pressure After Carbon Vessel T202	0	"W.C.
TI202	Inlet Temperature of 1st Carbon Unit	135	°F
TI203	Temperature Between the Carbon Units	128	°F

Description of Maintenance Actives Completed:

None

Equalization Tank

Nomenclature	Description	Reading	Units
EQSG	Equalization Tank Site Glass	250	gal
PI701	Equalization Tank Vacuum	0	" W.C.

Description of Maintenance Actives Completed:

Cleaned site glass.

Operational Checklist

Former EPT
Ithaca, NY

Bag Filter Skid

EQ Pump Run Time (hrs.):	4,458.7	screen
EQ Pump Run Time (hrs.):	11,176.2	gauge

Nomenclature	Description	Reading	Units
PI211	Transfer Pump Discharge Water Pressure	34	psi
PI221	Bag Filter Influent Water Pressure	0	psi
PI222	Water Pressure Between PF-221 and PF-222	0	pis
PI223	Water Pressure Between PF-222 and PF-223	0	psi
PI224	Water Pressure Between PF-224 and PF-225	0	psi
PI225	Water Pressure Between PF-225 and PF-226	0	psi
PI226	Bag Filtration Exit Water Pressure	0	psi
FT221	Bag Filtration Water Totalizer	off - not working	gal
FT221	Bag Filtration Water Flow	off - not working	gpm

Maintenance Items:

Changed Bag Filter(s) (yes/no)	No	If yes, which filters? All
Cleaned Bag Filter(s) (yes/no)	No	If yes, which filters?

Additional Maintenance Needed:

New Flow Meter Needed.

Description of Maintenance Actives Completed:

None

Operational Checklist

Former EPT
Ithaca, NY

Air-Stripper Skid

AS Blower Run Time (hrs.)	44,502.6	screen
AS Blower Run Time (hrs.)	2,499.9	gauge
AS Transfer Pump Run Time (hrs.)	2,111.2	screen
AS Transfer Pump Run Time (hrs.)	5,362.6	gauge

Nomenclature	Description	Reading	Units
PI601	Differential Pressure Before the Butterfly Valve	0	"W.C.
PI602	Pressure After the Butterfly Valve	0.6	"W.C.
PI603	Back Pressure After Transfer Pump	37	psi
PI604	Sump Pressure	28	"W.C.
FT601	Flow Totalizer	1,763,827.2	gal
FT601	Flow Transmitter	9.0	gpm

Maintenance Items:

Cleaned Stripper Trays (yes/no)	No	

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Liquid Phase Carbon

Nomenclature	Description	Reading	Units
PI611	Pressure Before Carbon Vessel T611	28	psi
PI612	Pressure After Carbon Vessel T611	20	psi
Effluent Flow	Totalizer	1,522,897	gal
Effluent Flow	Flow	15	gpm

Operational Checklist

Former EPT
Ithaca, NY

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Air Compressor

Motor Run Time (hrs.)	5,161.6	screen
Motor Run Time (hrs.)	12,918.9	gauge

Nomenclature	Description	Reading	Units
PCV101	Pressure Regulator Valve	130	psi
PI-101	Conveyance Line Pressure	120	psi
TI-101	Compressed Air Temperature	88	°F

Maintenance Items:

Oil Level:	Okay	Oil Change needed every 2000 hrs. OR every 12 Months (Which ever comes first). Last changed 1/3/23 at 11,879 hrs. Next oil change due 13,879 hours or 1/3/2024
Oil Change (yes/no)	No	
Belt Condition:	Okay	
Coalescing Filter Condition:	Okay	

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Operational Checklist

Former EPT
Ithaca, NY

Miscellaneous Tasks

Maintenance Items:

Snow Removal (yes/no)	No
Grass/Weed Removal (yes/no)	Yes
Is Shed Clean and Organized on Arrival (yes/no)	Yes
Is Shed Clean and Organized on Departure (yes/no)	Yes
Other (please specify in detail):	

WELL VAULT CHECKLIST

Checked Heat Trace Breakers (yes/no):	No	
NYSEG Meter Reading (kwh)	344,799	

EW-1

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-8.5	inHg

Water Line	Reading	Units
Pressure Gauge	4.5	psi
Cycle Count	509,313	# of cycles

Air Line	Reading	Units
Pressure Gauge	130	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-2

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-8.0	inHg

Water Line	Reading	Units
Pressure Gauge	2.0	psi
Cycle Count	31,650	# of cycles

Air Line	Reading	Units
Pressure Gauge	125	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

EW-3

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-8.0	inHg

Water Line	Reading	Units
Pressure Gauge	0	psi
Cycle Count	69,436	# of cycles

Air Line	Reading	Units
Pressure Gauge	115	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-4

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-9.0	inHg

Water Line	Reading	Units
Pressure Gauge	0	psi
Cycle Count	111,384	# of cycles 3

Air Line	Reading	Units
Pressure Gauge	115	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

EW-5

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-9.5	inHg

Water Line	Reading	Units
Pressure Gauge	3	psi
Cycle Count	681,044	# of cycles

Air Line	Reading	Units
Pressure Gauge	130	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-6

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-8.0	inHg

Water Line	Reading	Units
Pressure Gauge	3.0	psi
Cycle Count	12,023	# of cycles

Air Line	Reading	Units
Pressure Gauge	130	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

EW-7

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-8	inHg

Water Line	Reading	Units
Pressure Gauge	7.0	psi
Cycle Count	332,660	# of cycles

Air Line	Reading	Units
Pressure Gauge	125	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-8

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-8	inHg

Water Line	Reading	Units
Pressure Gauge	8	psi
Cycle Count	492,537	# of cycles

Air Line	Reading	Units
Pressure Gauge	115	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

EW-10

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-9.0	inHg

Water Line	Reading	Units
Pressure Gauge	0	psi
Cycle Count	204,458	# of cycles

Air Line	Reading	Units
Pressure Gauge	115	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-9R (uphill)

Checked Sample Port (yes/no):	-
Checked Compressed Air Line Drain (yes/no):	-

Vapor Line	Reading	Units
Vacuum Gauge	-	inHg

Water Line	Reading	Units
Pressure Gauge	-	psi
Cycle Count	-	# of cycles

Air Line	Reading	Units
Pressure Gauge	-	psi
Regulator Gauge	-	psi

Description of Maintained Activities Completed:

Offline

EW-11

Checked Sample Port (yes/no):	-
Checked Compressed Air Line Drain (yes/no):	-

Vapor Line	Reading	Units
Vacuum Gauge	-	inHg

Water Line	Reading	Units
Cycle Count	-	# of cycles

Air Line	Reading	Units
Regulator Gauge	-	psi

Description of Maintained Activities Completed:

Offline

EW-12

Checked Sample Port (yes/no):	-
Checked Compressed Air Line Drain (yes/no):	-

Vapor Line	Reading	Units
Vacuum Gauge	-	inHg

Water Line	Reading	Units
Pressure Gauge	-	psi
Cycle Count	-	# of cycles

Air Line	Reading	Units
Regulator Gauge	-	psi

Description of Maintained Activities Completed:

Offline

Operational Checklist

Former EPT
Ithaca, NY

Date: 9/21/2023
Arrival Time: 0800
Departure Time: _____

Inspector: Greg Ernst
Weather Conditions: clear 50's-60's

Reason for Visit (check all that apply):

Bi-Weekly O&M _____ Collect influent/effluent samples _____
Monthly O&M x Assist with carbon changeout _____
Other Reinstall pumps and restart system.

System Alarms Active Upon Arrival System off for annual well rehab. Restart at 10:00 am collect O&M readings at 13:00.

TREATMENT SYSTEM CHECKLIST

Soil Vapor Extraction Skid

Motor Run Time (hrs.):	<u>44,693.3</u>
Motor Run Time (hrs.):	<u>73,678.4</u>

screen

*New Blower Installed 7/13/23

gauge

Nomenclature	Description	Reading	Units
VI201	Vapor Liquid Separator Inlet Vacuum	<u>-8.5</u>	"Hg
VLSSG	Vapor Liquid Separator Site Glass	<u>118</u>	gal.
VI202	Particulate Filter Inlet Vacuum	<u>-0.5</u>	"Hg
VI203	Particulate Filter Outlet Vacuum	<u>-7.5</u>	"Hg
FI201	Soil Vapor Extraction Flow (Manual)	<u>26</u>	scfm
TI201	Soil Vapor Extraction Discharge Temperature	<u>165</u>	°F
PI201	Soil Vapor Extraction Discharge Pressure	<u>10.5</u>	"W.C.
FT202	Vapor Liquid Separator Water Transfer Pump Totalizer	<u>2,709</u>	gal.

*Reading taken from newly installed Anemometer Port

Operational Checklist

Former EPT
Ithaca, NY

Maintenance Items:

Oil Level:	Okay
Oil Change (yes/no every 6000hrs.):	No
Grease Lubrication Added (yes/no):	Yes
Transfer Water Out of Vapor Liquid Separator (yes/no)	No
Particulate Filter Changeout (yes/no)	No

Oil change Needed Every 6,000 hrs. New Blower 7/13/23
44,259 hours. **Oil change needed at 50,259 hours.**

Replacement Blower Filter is a Solberg 235 P

Replacement Bleed Filter is a Solberg 31 P

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Vapor Phase Carbon

Nomenclature	Description	Reading	Units
PI203	Pressure After Carbon Vessel T201	0.0	"W.C.
PI204	Pressure After Carbon Vessel T202	0	"W.C.
TI202	Inlet Temperature of 1st Carbon Unit	165	°F
TI203	Temperature Between the Carbon Units	95	°F

Description of Maintenance Actives Completed:

None

Equalization Tank

Nomenclature	Description	Reading	Units
EQSG	Equalization Tank Site Glass	475	gal
PI701	Equalization Tank Vacuum	0	" W.C.

Description of Maintenance Actives Completed:

None

Operational Checklist

Former EPT
Ithaca, NY

Bag Filter Skid

EQ Pump Run Time (hrs.):	4,471.7	screen
EQ Pump Run Time (hrs.):	11,189.2	gauge

Nomenclature	Description	Reading	Units
PI211	Transfer Pump Discharge Water Pressure	36	psi
PI221	Bag Filter Influent Water Pressure	0	psi
PI222	Water Pressure Between PF-221 and PF-222	0	pis
PI223	Water Pressure Between PF-222 and PF-223	0	psi
PI224	Water Pressure Between PF-224 and PF-225	0	psi
PI225	Water Pressure Between PF-225 and PF-226	0	psi
PI226	Bag Filtration Exit Water Pressure	0	psi
FT221	Bag Filtration Water Totalizer	off	gal
FT221	Bag Filtration Water Flow	off	gpm

Maintenance Items:

Changed Bag Filter(s) (yes/no)	No	If yes, which filters? _____
Cleaned Bag Filter(s) (yes/no)	No	If yes, which filters? _____

Additional Maintenance Needed:

New filters prior to restart.

Description of Maintenance Actives Completed:

None

Operational Checklist

Former EPT
Ithaca, NY

Air-Stripper Skid

AS Blower Run Time (hrs.)	44,551.0	screen
AS Blower Run Time (hrs.)	2,547.6	gauge
AS Transfer Pump Run Time (hrs.)	2,117.7	screen
AS Transfer Pump Run Time (hrs.)	5,368.9	gauge

Nomenclature	Description	Reading	Units
PI601	Differential Pressure Before the Butterfly Valve	2	"W.C.
PI602	Pressure After the Butterfly Valve	0.6	"W.C.
PI603	Back Pressure After Transfer Pump	6	psi
PI604	Sump Pressure	29	"W.C.
FT601	Flow Totalizer	1,771,280.5	gal
FT601	Flow Transmitter	10.0	gpm

Maintenance Items:

Cleaned Stripper Trays (yes/no)	No	

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

Resealed stripper door and able to reinstall with no leaks.

Liquid Phase Carbon

Nomenclature	Description	Reading	Units
PI611	Pressure Before Carbon Vessel T611	No reading recorded	psi
PI612	Pressure After Carbon Vessel T611	No reading recorded	psi
Effluent Flow	Totalizer	1,528,023	gal
Effluent Flow	Flow	18	gpm

Operational Checklist

Former EPT
Ithaca, NY

Additional Maintenance Needed:

Cam lock fittings and hose 90° elbow need replacement.

Description of Maintenance Actives Completed:

New hose installed but new fittings cracked during install.

Motor Run Time (hrs.)	5,168.1	screen
Motor Run Time (hrs.)	12,925.5	gauge

Nomenclature	Description	Reading	Units
PCV101	Pressure Regulator Valve	140	psi
PI-101	Conveyance Line Pressure	125	psi
TI-101	Compressed Air Temperature	72	°F

Maintenance Items:

Oil Level:	Okay	Oil Change needed every 2000 hrs. OR every 12 Months (Which ever comes first). Last changed 1/3/23 at 11,879 hrs. Next oil change due 13,879 hours or 1/3/2024
Oil Change (yes/no)	No	
Belt Condition:	Okay	
Coalescing Filter Condition:	Okay	

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Operational Checklist

Former EPT
Ithaca, NY

Miscellaneous Tasks

Maintenance Items:

Snow Removal (yes/no)	No
Grass/Weed Removal (yes/no)	Yes
Is Shed Clean and Organized on Arrival (yes/no)	Yes
Is Shed Clean and Organized on Departure (yes/no)	Yes
Other (please specify in detail):	

WELL VAULT CHECKLIST

Checked Heat Trace Breakers (yes/no):	No	off
NYSEG Meter Reading (kwh)	346,032	

EW-1

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-8	inHg

Water Line	Reading	Units
Pressure Gauge	3	psi
Cycle Count	513,679	# of cycles

Air Line	Reading	Units
Pressure Gauge	130	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-2

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-8.0	inHg

Water Line	Reading	Units
Pressure Gauge	5.0	psi
Cycle Count	32,986	# of cycles

Air Line	Reading	Units
Pressure Gauge	125	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

EW-3

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-7.0	inHg

Water Line	Reading	Units
Pressure Gauge	1	psi
Cycle Count	70,420	# of cycles

Air Line	Reading	Units
Pressure Gauge	110	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-4

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-7.0	inHg

Water Line	Reading	Units
Pressure Gauge	0.5	psi
Cycle Count	111,701	# of cycles 3

Air Line	Reading	Units
Pressure Gauge	120	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

EW-5

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-9	inHg

Water Line	Reading	Units
Pressure Gauge	6	psi
Cycle Count	683,645	# of cycles

Air Line	Reading	Units
Pressure Gauge	125	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-6

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-8.0	inHg

Water Line	Reading	Units
Pressure Gauge	1.0	psi
Cycle Count	12,024	# of cycles

Air Line	Reading	Units
Pressure Gauge	125	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

EW-7

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-8	inHg

Water Line	Reading	Units
Pressure Gauge	1.0	psi
Cycle Count	334,181	# of cycles

Air Line	Reading	Units
Pressure Gauge	130	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-8

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-7.5	inHg

Water Line	Reading	Units
Pressure Gauge	2.5	psi
Cycle Count	496,610	# of cycles

Air Line	Reading	Units
Pressure Gauge	115	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

EW-10

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-8.0	inHg

Water Line	Reading	Units
Pressure Gauge	2	psi
Cycle Count	204,841	# of cycles

Air Line	Reading	Units
Pressure Gauge	125	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-9R (uphill)

Checked Sample Port (yes/no):	-
Checked Compressed Air Line Drain (yes/no):	-

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	-	psi
Cycle Count	-	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	-	psi
Regulator Gauge	-	psi

Description of Maintained Activities Completed:

Offline due to air leak. Removed old air line but unable to insert new air line due to 90° elbow in conduit impeding straight run. Will need 2 staff and power puller to install.

EW-11

Checked Sample Port (yes/no):	-
Checked Compressed Air Line Drain (yes/no):	-

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Cycle Count	-	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Regulator Gauge	-	psi

Description of Maintained Activities Completed:

Offline

EW-12

Checked Sample Port (yes/no):	-
Checked Compressed Air Line Drain (yes/no):	-

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	-	psi
Cycle Count	-	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Regulator Gauge	-	psi

Description of Maintained Activities Completed:

Offline

Operational Checklist

Former EPT
Ithaca, NY

Date: 10/5/2023
Arrival Time: 0745
Departure Time: _____

Inspector: Greg Ernst
Weather Conditions: clear 70-80°

Reason for Visit (check all that apply):

Bi-Weekly O&M _____ Collect influent/effluent samples _____
Monthly O&M x Assist with carbon changeout _____
Other Reinstall air line to upper level wells.

System Alarms Active Upon Arrival None

TREATMENT SYSTEM CHECKLIST

Soil Vapor Extraction Skid

Motor Run Time (hrs.):	<u>44,990.3</u>
Motor Run Time (hrs.):	<u>73,678.8</u>

screen

***New Blower Installed 7/13/23**

gauge

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
VI201	Vapor Liquid Separator Inlet Vacuum	<u>-8.5</u>	"Hg
VLSSG	Vapor Liquid Separator Site Glass	<u>118</u>	gal.
VI202	Particulate Filter Inlet Vacuum	<u>-2.5</u>	"Hg
VI203	Particulate Filter Outlet Vacuum	<u>-7.5</u>	"Hg
FI201	Soil Vapor Extraction Flow (Manual)	<u>26</u>	scfm
TI201	Soil Vapor Extraction Discharge Temperature	<u>170</u>	°F
PI201	Soil Vapor Extraction Discharge Pressure	<u>12</u>	"W.C.
FT202	Vapor Liquid Separator Water Transfer Pump Totalizer	<u>163,338</u>	gal.

***Reading taken from newly installed Anemometer Port**

Operational Checklist

Former EPT
Ithaca, NY

Maintenance Items:

Oil Level:	Okay
Oil Change (yes/no every 6000hrs.):	No
Grease Lubrication Added (yes/no):	No
Transfer Water Out of Vapor Liquid Separator (yes/no)	No
Particulate Filter Changeout (yes/no)	No

Oil change Needed Every 6,000 hrs. New Blower 7/13/23
44,259 hours. **Oil change needed at 50,259 hours.**

Replacement Blower Filter is a Solberg 235 P

Replacement Bleed Filter is a Solberg 31 P

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Vapor Phase Carbon

Nomenclature	Description	Reading	Units
PI203	Pressure After Carbon Vessel T201	0.0	"W.C.
PI204	Pressure After Carbon Vessel T202	0	"W.C.
TI202	Inlet Temperature of 1st Carbon Unit	140	°F
TI203	Temperature Between the Carbon Units	125	°F

Description of Maintenance Actives Completed:

None

Equalization Tank

Nomenclature	Description	Reading	Units
EQSG	Equalization Tank Site Glass	625	gal
PI701	Equalization Tank Vacuum	0	" W.C.

Description of Maintenance Actives Completed:

None

Operational Checklist

Former EPT
Ithaca, NY

Bag Filter Skid

EQ Pump Run Time (hrs.):	4,502.9	screen
EQ Pump Run Time (hrs.):	11,220.6	gauge

Nomenclature	Description	Reading	Units
PI211	Transfer Pump Discharge Water Pressure	33	psi
PI221	Bag Filter Influent Water Pressure	0	psi
PI222	Water Pressure Between PF-221 and PF-222	0	pis
PI223	Water Pressure Between PF-222 and PF-223	0	psi
PI224	Water Pressure Between PF-224 and PF-225	0	psi
PI225	Water Pressure Between PF-225 and PF-226	0	psi
PI226	Bag Filtration Exit Water Pressure	0	psi
FT221	Bag Filtration Water Totalizer	454,366.9	gal
FT221	Bag Filtration Water Flow	0.0	gpm

Maintenance Items:

Changed Bag Filter(s) (yes/no)	No	If yes, which filters? _____
Cleaned Bag Filter(s) (yes/no)	No	If yes, which filters? _____

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Operational Checklist

Former EPT
Ithaca, NY

Air-Stripper Skid

AS Blower Run Time (hrs.)	44,847.8	screen
AS Blower Run Time (hrs.)	2,839.8	gauge
AS Transfer Pump Run Time (hrs.)	2,126.2	screen
AS Transfer Pump Run Time (hrs.)	5,377.2	gauge

Nomenclature	Description	Reading	Units
PI601	Differential Pressure Before the Butterfly Valve	0	"W.C.
PI602	Pressure After the Butterfly Valve	0.6	"W.C.
PI603	Back Pressure After Transfer Pump	5	psi
PI604	Sump Pressure	29	"W.C.
FT601	Flow Totalizer	1,775,562.5	gal
FT601	Flow Transmitter	10.5	gpm

Maintenance Items:

Cleaned Stripper Trays (yes/no)	No	

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Liquid Phase Carbon

Nomenclature	Description	Reading	Units
PI611	Pressure Before Carbon Vessel T611	26	psi
PI612	Pressure After Carbon Vessel T611	20	psi
Effluent Flow	Totalizer	1,535,945	gal
Effluent Flow	Flow	15	gpm

Operational Checklist

Former EPT
Ithaca, NY

Additional Maintenance Needed:

Replace hose connections with schedule 80 fittings.

Description of Maintenance Actives Completed:

None

Motor Run Time (hrs.)	5,199.2	screen
Motor Run Time (hrs.)	12,956.2	gauge

Nomenclature	Description	Reading	Units
PCV101	Pressure Regulator Valve	135	psi
PI-101	Conveyance Line Pressure	110	psi
TI-101	Compressed Air Temperature	84	°F

Maintenance Items:

Oil Level:	Okay	Oil Change needed every 2000 hrs. OR every 12 Months (Which ever comes first). Last changed 1/3/23 at 11,879 hrs. Next oil change due 13,879 hours or 1/3/2024
Oil Change (yes/no)	No	
Belt Condition:	Okay	
Coalescing Filter Condition:	Okay	

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Operational Checklist

Former EPT
Ithaca, NY

Miscellaneous Tasks

Maintenance Items:

Snow Removal (yes/no)	No
Grass/Weed Removal (yes/no)	No
Is Shed Clean and Organized on Arrival (yes/no)	Yes
Is Shed Clean and Organized on Departure (yes/no)	Yes

Other (please specify in detail):	Returned rebuilt blower to treatment shed. Blower is staged on pallet with two quarts of manufacturers oil. Reinstalled 1" airline from upper utility vault to EW-11 vault. Reconnected air in EW-8 vault for upper level.

WELL VAULT CHECKLIST

Checked Heat Trace Breakers (yes/no):	No	off
NYSEG Meter Reading (kwh)	350,580	

EW-1

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-9	inHg

Water Line	Reading	Units
Pressure Gauge	4	psi
Cycle Count	539,713	# of cycles

Air Line	Reading	Units
Pressure Gauge	115	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-2

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-8.0	inHg

Water Line	Reading	Units
Pressure Gauge	6.0	psi
Cycle Count	41,532	# of cycles

Air Line	Reading	Units
Pressure Gauge	120	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

EW-3

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-8.5	inHg

Water Line	Reading	Units
Pressure Gauge	5	psi
Cycle Count	70,798	# of cycles

Air Line	Reading	Units
Pressure Gauge	120	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-4

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-9.0	inHg

Water Line	Reading	Units
Pressure Gauge	3	psi
Cycle Count	118,475	# of cycles 3

Air Line	Reading	Units
Pressure Gauge	120	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

EW-5

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-9.5	inHg

Water Line	Reading	Units
Pressure Gauge	1	psi
Cycle Count	686,349	# of cycles

Air Line	Reading	Units
Pressure Gauge	125	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-6

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-8.5	inHg

Water Line	Reading	Units
Pressure Gauge	11.0	psi
Cycle Count	33,893	# of cycles

Air Line	Reading	Units
Pressure Gauge	125	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

EW-7

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-8	inHg

Water Line	Reading	Units
Pressure Gauge	8.0	psi
Cycle Count	340,696	# of cycles

Air Line	Reading	Units
Pressure Gauge	130	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-8

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-8	inHg

Water Line	Reading	Units
Pressure Gauge	7	psi
Cycle Count	505,995	# of cycles

Air Line	Reading	Units
Pressure Gauge	130	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

EW-10

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-8.5	inHg

Water Line	Reading	Units
Pressure Gauge	3	psi
Cycle Count	205,566	# of cycles

Air Line	Reading	Units
Pressure Gauge	120	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-9R (uphill)

Checked Sample Port (yes/no):	-
Checked Compressed Air Line Drain (yes/no):	-

Vapor Line	Reading	Units
Vacuum Gauge	-	inHg

Water Line	Reading	Units
Pressure Gauge	-	psi
Cycle Count	-	# of cycles

Air Line	Reading	Units
Pressure Gauge	-	psi
Regulator Gauge	-	psi

Description of Maintained Activities Completed:

Offline

EW-11

Checked Sample Port (yes/no):	-
Checked Compressed Air Line Drain (yes/no):	-

Vapor Line	Reading	Units
Vacuum Gauge	-	inHg

Water Line	Reading	Units
Cycle Count	-	# of cycles

Air Line	Reading	Units
Regulator Gauge	-	psi

Description of Maintained Activities Completed:

Offline

EW-12

Checked Sample Port (yes/no):	-
Checked Compressed Air Line Drain (yes/no):	-

Vapor Line	Reading	Units
Vacuum Gauge	-	inHg

Water Line	Reading	Units
Pressure Gauge	-	psi
Cycle Count	-	# of cycles

Air Line	Reading	Units
Regulator Gauge	-	psi

Description of Maintained Activities Completed:

Offline

Operational Checklist

Former EPT
Ithaca, NY

Date: 11/6/2023
Arrival Time: 0800
Departure Time: _____

Inspector: Greg Ernst
Weather Conditions: Partly Cloudy 30's

Reason for Visit (check all that apply):

Bi-Weekly O&M _____ Collect influent/effluent samples _____
Monthly O&M x Assist with carbon changeout _____
Other _____

System Alarms Active Upon Arrival None

TREATMENT SYSTEM CHECKLIST

Soil Vapor Extraction Skid

Motor Run Time (hrs.):	<u>45,763.7</u>	screen	<u>*New Blower Installed 7/13/23</u>
Motor Run Time (hrs.):	<u>73,678.8</u>	gauge	

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
VI201	Vapor Liquid Separator Inlet Vacuum	<u>-9.0</u>	"Hg
VLSSG	Vapor Liquid Separator Site Glass	<u>118</u>	gal.
VI202	Particulate Filter Inlet Vacuum	<u>0</u>	"Hg
VI203	Particulate Filter Outlet Vacuum	<u>-8.0</u>	"Hg
FI201	Soil Vapor Extraction Flow (Manual)	<u>26</u>	scfm
TI201	Soil Vapor Extraction Discharge Temperature	<u>160</u>	°F
PI201	Soil Vapor Extraction Discharge Pressure	<u>12</u>	"W.C.
FT202	Vapor Liquid Separator Water Transfer Pump Totalizer	<u>164,442</u>	gal.
<u>*Reading taken from newly installed Anemometer Port</u>			

Operational Checklist

Former EPT
Ithaca, NY

Maintenance Items:

Oil Level:	Okay
Oil Change (yes/no every 6000hrs.):	No
Grease Lubrication Added (yes/no):	Yes
Transfer Water Out of Vapor Liquid Separator (yes/no)	No
Particulate Filter Changeout (yes/no)	No

Oil change Needed Every 6,000 hrs. New Blower 7/13/23
44,259 hours. **Oil change needed at 50,259 hours.**

Replacement Blower Filter is a Solberg 235 P

Replacement Bleed Filter is a Solberg 31 P

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Vapor Phase Carbon

Nomenclature	Description	Reading	Units
PI203	Pressure After Carbon Vessel T201	0.0	"W.C.
PI204	Pressure After Carbon Vessel T202	0	"W.C.
TI202	Inlet Temperature of 1st Carbon Unit	125	°F
TI203	Temperature Between the Carbon Units	120	°F

Description of Maintenance Actives Completed:

None

Equalization Tank

Nomenclature	Description	Reading	Units
EQSG	Equalization Tank Site Glass	550	gal
PI701	Equalization Tank Vacuum	0	" W.C.

Description of Maintenance Actives Completed:

None

Operational Checklist

Former EPT
Ithaca, NY

Bag Filter Skid

EQ Pump Run Time (hrs.):	4,533.8	screen
EQ Pump Run Time (hrs.):	11,251.2	gauge

Nomenclature	Description	Reading	Units
PI211	Transfer Pump Discharge Water Pressure	34	psi
PI221	Bag Filter Influent Water Pressure	0	psi
PI222	Water Pressure Between PF-221 and PF-222	0	pis
PI223	Water Pressure Between PF-222 and PF-223	0	psi
PI224	Water Pressure Between PF-224 and PF-225	0	psi
PI225	Water Pressure Between PF-225 and PF-226	0	psi
PI226	Bag Filtration Exit Water Pressure	0	psi
FT221	Bag Filtration Water Totalizer	454,500.4	gal
FT221	Bag Filtration Water Flow	0.0	gpm

Maintenance Items:

Changed Bag Filter(s) (yes/no)	No	If yes, which filters? _____
Cleaned Bag Filter(s) (yes/no)	No	If yes, which filters? _____

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Operational Checklist

**Former EPT
Ithaca, NY**

Air-Stripper Skid

AS Blower Run Time (hrs.)	45,621.5	screen
AS Blower Run Time (hrs.)	3,601.7	gauge
AS Transfer Pump Run Time (hrs.)	2,144.5	screen
AS Transfer Pump Run Time (hrs.)	5,395.6	gauge

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
PI601	Differential Pressure Before the Butterfly Valve	0	"W.C.
PI602	Pressure After the Butterfly Valve	0.6	"W.C.
PI603	Back Pressure After Transfer Pump	6	psi
PI604	Sump Pressure	30	"W.C.
FT601	Flow Totalizer	1,785,121.3	gal
FT601	Flow Transmitter	8.6	gpm

Maintenance Items:

Cleaned Stripper Trays (yes/no)	No	

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Liquid Phase Carbon

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
PI611	Pressure Before Carbon Vessel T611	27	psi
PI612	Pressure After Carbon Vessel T611	19	psi
Effluent Flow	Totalizer	1,553,462	gal
Effluent Flow	Flow	16	gpm

Operational Checklist

Former EPT
Ithaca, NY

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

Changed camlock fittings on hoses, replaced 90° elbows on tubing.

Motor Run Time (hrs.)	5,309.8	screen
Motor Run Time (hrs.)	13,066.6	gauge

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
PCV101	Pressure Regulator Valve	150	psi
PI-101	Conveyance Line Pressure	120	psi
TI-101	Compressed Air Temperature	72	°F

Maintenance Items:

Oil Level:	Okay	Oil Change needed every 2000 hrs. OR every 12 Months (Which ever comes first). Last changed 1/3/23 at 11,879 hrs. Next oil change due 13,879 hours or 1/3/2024
Oil Change (yes/no)	No	
Belt Condition:	Okay	
Coalescing Filter Condition:	Okay	

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Operational Checklist

Former EPT
Ithaca, NY

Miscellaneous Tasks

Maintenance Items:

Snow Removal (yes/no)	No
Grass/Weed Removal (yes/no)	No
Is Shed Clean and Organized on Arrival (yes/no)	Yes
Is Shed Clean and Organized on Departure (yes/no)	Yes
Other (please specify in detail):	None

WELL VAULT CHECKLIST

Checked Heat Trace Breakers (yes/no):	Yes	On
NYSEG Meter Reading (kwh)	363,190	

EW-1

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-7	inHg

Water Line	Reading	Units
Pressure Gauge	3	psi
Cycle Count	597,337	# of cycles

Air Line	Reading	Units
Pressure Gauge	115	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-2

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-8.0	inHg

Water Line	Reading	Units
Pressure Gauge	5.5	psi
Cycle Count	57,959	# of cycles

Air Line	Reading	Units
Pressure Gauge	115	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

EW-3

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-7.0	inHg

Water Line	Reading	Units
Pressure Gauge	3	psi
Cycle Count	73,026	# of cycles

Air Line	Reading	Units
Pressure Gauge	128	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-4

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-7.0	inHg

Water Line	Reading	Units
Pressure Gauge	1	psi
Cycle Count	121,526	# of cycles 3

Air Line	Reading	Units
Pressure Gauge	128	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

EW-5

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-8.5	inHg

Water Line	Reading	Units
Pressure Gauge	1	psi
Cycle Count	693,474	# of cycles

Air Line	Reading	Units
Pressure Gauge	125	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-6

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-8.5	inHg

Water Line	Reading	Units
Pressure Gauge	5.0	psi
Cycle Count	91,295	# of cycles

Air Line	Reading	Units
Pressure Gauge	125	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

EW-7

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-8.5	inHg

Water Line	Reading	Units
Pressure Gauge	9.0	psi
Cycle Count	357,895	# of cycles

Air Line	Reading	Units
Pressure Gauge	120	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-8

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-8	inHg

Water Line	Reading	Units
Pressure Gauge	7	psi
Cycle Count	527,039	# of cycles

Air Line	Reading	Units
Pressure Gauge	115	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

EW-10

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-7.5	inHg

Water Line	Reading	Units
Pressure Gauge	2	psi
Cycle Count	207,384	# of cycles

Air Line	Reading	Units
Pressure Gauge	115	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-9R (uphill)

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-7	inHg

Water Line	Reading	Units
Pressure Gauge	2.0	psi
Cycle Count	581,051	# of cycles

Air Line	Reading	Units
Pressure Gauge	-	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

EW-11

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-7.0	inHg

Water Line	Reading	Units
Cycle Count	127,245	# of cycles

Air Line	Reading	Units
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

EW-12

Checked Sample Port (yes/no):	yes
Checked Compressed Air Line Drain (yes/no):	yes

Vapor Line	Reading	Units
Vacuum Gauge	-7.5	inHg

Water Line	Reading	Units
Pressure Gauge	0.0	psi
Cycle Count	2,441	# of cycles

Air Line	Reading	Units
Regulator Gauge	70	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

Date: 12/8/2023
Arrival Time: 0800
Departure Time: 14:30

Inspector: Gregory Ernst
Weather Conditions: Clear, calm, 40 degrees

Reason for Visit (check all that apply):

Bi-Weekly O&M _____ Collect influent/effluent samples _____
Monthly O&M ☒ _____ Assist with carbon changeout _____
Other _____

System Alarms Active Upon Arrival Na

TREATMENT SYSTEM CHECKLIST

Soil Vapor Extraction Skid

Motor Run Time (hrs.):	<u>46,544.4</u>
Motor Run Time (hrs.):	<u>73,678.8</u>

screen

gauge

<i>Nomenclature</i>	<i>Description</i>	<i>Reading</i>	<i>Units</i>
VI201	Vapor Liquid Separator Inlet Vacuum	<u>-9.0</u>	"Hg
VLSSG	Vapor Liquid Separator Site Glass	<u>31.3</u>	gal.
VI202	Particulate Filter Inlet Vacuum	<u>0</u>	"Hg
VI203	Particulate Filter Outlet Vacuum	<u>-7.5</u>	"Hg
FI201	Soil Vapor Extraction Flow (Manual)	<u>260</u>	scfm
TI201	Soil Vapor Extraction Discharge Temperature	<u>170</u>	°F
PI201	Soil Vapor Extraction Discharge Pressure	<u>11.5</u>	"W.C.
FT202	Vapor Liquid Separator Water Transfer Pump Totalizer	<u>165,854</u>	gal.

***Reading taken from newly installed Anemometer Port**

Operational Checklist

Former EPT
Ithaca, NY

Maintenance Items:

Oil Level:	OK
Oil Change (yes/no every 6000hrs.):	No
Grease Lubrication Added (yes/no):	No
Transfer Water Out of Vapor Liquid Separator (yes/no)	No
Particulate Filter Changeout (yes/no)	No

Oil change Needed Every 6,000 hrs. Last changed 11/14/22
40,470.4 hrs. Next oil change due 46,470 hours.

Replacement Blower Filter is a Solberg 235 P

Replacement Bleed Filter is a Solberg 31 P

Additional Maintenance Needed:

NA

Description of Maintenance Actives Completed:

None

Vapor Phase Carbon

Nomenclature	Description	Reading	Units
PI203	Pressure After Carbon Vessel T201	0	"W.C.
PI204	Pressure After Carbon Vessel T202	0	"W.C.
TI202	Inlet Temperature of 1st Carbon Unit	135	°F
TI203	Temperature Between the Carbon Units	125	°F

Description of Maintenance Actives Completed:

None

Equalization Tank

Nomenclature	Description	Reading	Units
EQSG	Equalization Tank Site Glass	700	gal
PI701	Equalization Tank Vacuum	0	" W.C.

Description of Maintenance Actives Completed:

Cleaned site glass

Operational Checklist

Former EPT
Ithaca, NY

Bag Filter Skid

EQ Pump Run Time (hrs.):	4,592.3	screen
EQ Pump Run Time (hrs.):	11,309.7	gauge

Nomenclature	Description	Reading	Units
PI211	Transfer Pump Discharge Water Pressure	34	psi
PI221	Bag Filter Influent Water Pressure	0	psi
PI222	Water Pressure Between PF-221 and PF-222	0	psi
PI223	Water Pressure Between PF-222 and PF-223	0	psi
PI224	Water Pressure Between PF-224 and PF-225	0	psi
PI225	Water Pressure Between PF-225 and PF-226	0	psi
PI226	Bag Filtration Exit Water Pressure	8	psi
FT221	Bag Filtration Water Totalizer	454,500.9	gal
FT221	Bag Filtration Water Flow	0	gpm

Maintenance Items:

Changed Bag Filter(s) (yes/no)	No	If yes, which filters? _____
Cleaned Bag Filter(s) (yes/no)	No	If yes, which filters? _____

Additional Maintenance Needed:

NA

Description of Maintenance Actives Completed:

None

Operational Checklist

Former EPT
Ithaca, NY

Air-Stripper Skid

AS Blower Run Time (hrs.)	46,402.2	screen
AS Blower Run Time (hrs.)	4,370.4	gauge
AS Transfer Pump Run Time (hrs.)	2,167.7	screen
AS Transfer Pump Run Time (hrs.)	5,417.6	gauge

Nomenclature	Description	Reading	Units
PI601	Differential Pressure Before the Butterfly Valve	0	"W.C.
PI602	Pressure After the Butterfly Valve	0.6	"W.C.
PI603	Back Pressure After Transfer Pump	37	psi
PI604	Sump Pressure	29	"W.C.
FT601	Flow Totalizer	1,796,813.3	gal
FT601	Flow Transmitter	8.6	gpm

Maintenance Items:

Cleaned Stripper Trays (yes/no)	No

Additional Maintenance Needed:

Air Stripper pump leaking along impellar chamber seal. Needs repair or replacement.

Description of Maintenance Actives Completed:

None

Liquid Phase Carbon

Nomenclature	Description	Reading	Units
PI611	Pressure Before Carbon Vessel T611	27	psi
PI612	Pressure After Carbon Vessel T611	18	psi
Effluent Flow	Totalizer	1,574,900	gal
Effluent Flow	Flow	16	gpm

Operational Checklist

Former EPT
Ithaca, NY

Additional Maintenance Needed:

Treated water discharge piping leaking at air vent behind poly tank, need replacement.

Description of Maintenance Actives Completed:

Replace treated water discharge sample spigot

Air Compressor

Motor Run Time (hrs.)	5,396.0	screen
Motor Run Time (hrs.)	13,152.6	gauge

Nomenclature	Description	Reading	Units
PCV101	Pressure Regulator Valve	140	psi
PI-101	Conveyance Line Pressure	120	psi
TI-101	Compressed Air Temperature	70	°F

Maintenance Items:

Oil Level:	Ok
Oil Change (yes/no)	No
Belt Condition:	Good
Coalescing Filter Condition:	Good

Oil Change needed every 2000 hrs. OR every 12 Months (Which ever comes first). Last changed 1/13/2022 at 11,231.2 hrs with new compressor pump. Next oil change Interval 13,231.2 hrs. or by 1/13/2023.

Additional Maintenance Needed:

Oil change due next month, January 2024

Description of Maintenance Actives Completed:

None

Operational Checklist

Former EPT
Ithaca, NY

Miscellaneous Tasks

Maintenance Items:

Snow Removal (yes/no)	No
Grass/Weed Removal (yes/no)	No
Is Shed Clean and Organized on Arrival (yes/no)	No
Is Shed Clean and Organized on Departure (yes/no)	Yes
Other (please specify in detail):	None

WELL VAULT CHECKLIST

Checked Heat Trace Breakers (yes/no):	Yes	
NYSEG Meter Reading (kwh)	377,548	

EW-1

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

Vapor Line	Reading	Units
Vacuum Gauge	-7	inHg

Water Line	Reading	Units
Pressure Gauge	7	psi
Cycle Count	644,519	# of cycles

Air Line	Reading	Units
Pressure Gauge	130	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Na

Operational Checklist

Former EPT
Ithaca, NY

EW-2

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

Vapor Line	Reading	Units
Vacuum Gauge	-8.0	inHg

Water Line	Reading	Units
Pressure Gauge	6.0	psi
Cycle Count	74,047	# of cycles

Air Line	Reading	Units
Pressure Gauge	125	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

Na

EW-3

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

Vapor Line	Reading	Units
Vacuum Gauge	-7.0	inHg

Water Line	Reading	Units
Pressure Gauge	7.5	psi
Cycle Count	77,368	# of cycles

Air Line	Reading	Units
Pressure Gauge	120	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Na

Operational Checklist

Former EPT
Ithaca, NY

EW-4

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

Vapor Line	Reading	Units
Vacuum Gauge	-7.0	inHg

Water Line	Reading	Units
Pressure Gauge	3	psi
Cycle Count	124,934	# of cycles 3

Air Line	Reading	Units
Pressure Gauge	120	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Na

EW-5

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

Vapor Line	Reading	Units
Vacuum Gauge	-8.5	inHg

Water Line	Reading	Units
Pressure Gauge	0	psi
Cycle Count	736,390	# of cycles

Air Line	Reading	Units
Pressure Gauge	110	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

Na

Operational Checklist

Former EPT
Ithaca, NY

EW-6

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

Vapor Line	Reading	Units
Vacuum Gauge	-8.0	inHg

Water Line	Reading	Units
Pressure Gauge	6.0	psi
Cycle Count	117,764	# of cycles

Air Line	Reading	Units
Pressure Gauge	130	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

Na

EW-7

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

Vapor Line	Reading	Units
Vacuum Gauge	-8	inHg

Water Line	Reading	Units
Pressure Gauge	9.0	psi
Cycle Count	370,035	# of cycles

Air Line	Reading	Units
Pressure Gauge	130	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Na

Operational Checklist

Former EPT
Ithaca, NY

EW-8

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-7.5	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	7	psi
Cycle Count	548,993	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	120	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Na

EW-10

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

<i>Vapor Line</i>	<i>Reading</i>	<i>Units</i>
Vacuum Gauge	-7.0	inHg

<i>Water Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	2	psi
Cycle Count	209,965	# of cycles

<i>Air Line</i>	<i>Reading</i>	<i>Units</i>
Pressure Gauge	120	psi
Regulator Gauge	75	psi

Description of Maintained Activities Completed:

Na

Operational Checklist

Former EPT
Ithaca, NY

EW-9R (uphill)

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

Vapor Line	Reading	Units
Vacuum Gauge	-8	inHg

Water Line	Reading	Units
Pressure Gauge	5.0	psi
Cycle Count	589,192	# of cycles

Air Line	Reading	Units
Pressure Gauge	0	psi
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Na

EW-11

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

Vapor Line	Reading	Units
Vacuum Gauge	-8.0	inHg

Water Line	Reading	Units
Cycle Count	127,267	# of cycles

Air Line	Reading	Units
Regulator Gauge	80	psi

Description of Maintained Activities Completed:

Na

EW-12

Checked Sample Port (yes/no):	Yes
Checked Compressed Air Line Drain (yes/no):	Yes

Vapor Line	Reading	Units
Vacuum Gauge	-8	inHg

Water Line	Reading	Units
Pressure Gauge	0	psi
Cycle Count	2,441	# of cycles

Air Line	Reading	Units
Regulator Gauge	70	psi

Description of Maintained Activities Completed:

Na