

New York State Office of People with Developmental Disabilities
PERIODIC REVIEW REPORT – REPORTING PERIOD APRIL 6, 2024, to APRIL 6, 2025
FORMER GOWANDA DAY HABILITATION CENTER
4 Industrial Place, Gowanda, NY
NYSDEC Site Number V00463



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1.0 EXECUTIVE SUMMARY

This Periodic Review Report (PRR) was prepared on behalf of the Dormitory Authority of the State of New York (DASNY) and the New York State Office for People With Developmental Disabilities (OPWDD) for the former Gowanda Day Habilitation Center facility (Site) located at 4 Industrial Place, Gowanda, New York. The OPWDD, as the volunteer, entered into a Voluntary Cleanup Agreement (VCA) with the New York State Department of Environmental Conservation (NYSDEC) to conduct investigations and implement remedial measures in accordance with VCA Site No. V-00463, effective August 16, 2001. The Reporting Period for this PRR is from April 6, 2024, to April 6, 2025.

1.1 BACKGROUND

The Site consists of a 5.94-acre parcel located at 4 Industrial Place. The building, previously used by several manufacturing operations, was built in stages between 1948 and 1987 and was renovated in 1987 and 1988. New York State agencies have occupied the building since 1982, and New York State acquired the parcel in 1989. The building was most recently operated by the OPWDD, which at that time was known as the Western New York Developmental Disabilities Services Office, as a Day Habilitation Center for mental care clients. On-site operations ceased in April 2001, and the building has remained vacant since. In 2003 and 2004, reports documenting investigations performed by Colliers Engineering & Design, formerly Bergmann, revealed the presence of chlorinated volatile organic compounds (CVOCs), consisting of Trichloroethylene (TCE) and its degradation products including cis-1,2, Dichloromethane (cis-DCE), trans-1,2-Dichloroethene (trans-1,2-DCE), and Vinyl Chloride (VC). Groundwater monitoring at the Site began in 2002. A Groundwater Treatment System (GTS) and Soil Vapor Extraction (SVE) system was installed in May 2005, and operated until 2013. In 2019, an Additional Subsurface Investigation (ASI) was performed, which identified preliminary remedial alternatives to address the remaining soil and groundwater contamination at the site. A Soil Vapor and Indoor Air Sampling Investigation (SVI/IA) was performed at three (3) residences north of the Site in 2021, which indicated that a Vapor Intrusion Condition (migration pathway) existed for nearby residential homes. A workplan to address the remaining soil and groundwater contamination is in progress, and a contract to produce a demolition design is pending.

1.2 REMEDIAL PROGRAM EFFECTIVENESS

Contamination levels generally trend towards a reduction as time progresses with some fluctuations that result in slight increases and decreases in contamination levels between sample events. This appears to be due to rising and falling groundwater elevations and the shutdown of the GTS.

The ASI completed in August 2019 indicated that chlorinated VOC-impacted soils at the south side of the former Gowanda Day Habilitation building continue to impact the groundwater consistent with seasonal variation in water table elevation, and chlorinated VOCs were non-detect in the soil within the downgradient groundwater source area. CED's hypothesis from this investigation is that downgradient groundwater source area is an area of elevated VOCs controlled by a preferential pathway in the overburden soils, and an alluvium historic buried stream channel or imported fill below the sewer lateral that runs along the northern side of the building is likely to be that pathway. As such, partial demolition of the southwest portion of the structure present at the site, with remedial actions to be completed, is intended.

During the reporting period of this PRR, the following activities were performed towards meeting the remedial objectives of the Site:

- Quarterly Groundwater Monitoring and associated reporting.
 - Q2 2024
 - Q3 2024

- Q4 2024
- Hazardous Materials Survey Report dated June 10, 2024. The southwest portion of the facility was surveyed for Asbestos, Lead Based Paint, and PCB-Caulk, and Universal Waste.
- Asbestos Project Design based on the above Hazardous Materials Survey, and to be included in the demolition design.

1.3 COMPLIANCE

Due to pending contract approval, a sampling event was not performed in Q1 2025. Additionally, MW-16 was found to be damaged in Q3 2024, and so was not sampled in Q3 and Q4 2024. A proposal will be created to perform repair of MW-16 and perform monitoring well redevelopment, with an intent to perform this repair by the end of 2025.

1.4 RECOMMENDATIONS

CED recommends that the quarterly monitoring continue for the site, and that the partial demolition of the structure and remedial actions be performed.

2.0 SITE OVERVIEW

2.1 PHYSICAL SETTING

The Site consists of a 5.94-acre parcel (Tax ID 16.027-2-11) located at 4 Industrial Place in Gowanda, New York. The parcel consists of an approximately 56,000 square-foot, single-story, slab-on-grade concrete block structure surrounded by parking lots, access roads, and green space, as depicted in Figure 1 – Site Boundary Map. The Site is bounded by Thatcher Creek at its western boundary and Industrial Place on its eastern boundary, and six (6) residential parcels adjoining its northern boundary and one (1) industrial parcel and a railroad adjoining its southern boundary. Torrance Place lies immediately north of the residential parcels. Gowanda Electronics site (NYSDEC Site 905025) is located immediately east of Industrial Place and east of the Site. Twenty-one (21) monitoring wells and seven (7) recovery wells (wells formerly utilized by the GTS/SVE system) are present at the Site.

2.2 REMEDIAL PROGRAM HISTORY

Bergmann, now Colliers Engineering & Design (CED), investigated the nature and extent of contamination resulting from historical underground chemical storage at the Gowanda Day Habilitation Center as documented in the 2003 Bergmann Site Investigation and 2004 Bergmann Supplemental Site Investigation reports. CVOCs, consisting of TCE and its degradation products (cis-DCE, trans-1,2-DCE, and VC), were identified at the site.

In May 2005, an Interim Remedial Measure (IRM) system that included activation of a Groundwater Treatment System (GTS) and Soil Vapor Extraction (SVE) System, was installed. This GTS and SVE system is located within the interior of the northwest portion of the building. An additional groundwater recovery well, designated G-3, was installed outside the building and adjacent to monitoring well MW-17 in November 2008. The GTS consists of seven (7) groundwater recovery wells (four dual-phase recovery wells and three groundwater-only recovery wells), an air compressor, a network of controller-less pneumatic pumps and an air stripper treatment system to treat recovered groundwater. The SVE System consists of a lobe blower and piping network which extracted vapors and passed them through two (2) 10,000 lb. carbon filters. Once filtered, the vapors were discharged to the outdoor air. As of 2013, the GTS has been deactivated.

Recovered groundwater was formerly pumped to an equalization tank for settling of sediment. The groundwater was discharged to the Village of Gowanda Sewage Treatment Plant (STP) via the sanitary sewer in accordance with a Gowanda Sewer Use Permit. A Volatile Organic Compound (VOC) Groundwater Treatment Agreement between OPWDD and the Village was active until the shutdown of the system, discussed below. As the system is currently shut down, water was not discharged to the sewer during the reporting period. If the system is re-activated, a new agreement will be executed between OPWDD and the Village.

In January 2008, OPWDD use of the building stopped. Bergmann winterized the GTS with the addition of heat tape and insulation to conveyance lines and the installation of an independently operated unit heater in the treatment area for the GTS and SVE (former Machine Shop). The building remains unoccupied and in a state of disrepair for the April 6, 2024, to April 6, 2025 certifying period. Numerous roof leaks and damage relative to two (2) flooding events have introduced excessive water infiltration and as a result mold to interior spaces. The roof leaks and mold do not appear to be impacting the deactivated remedial system and quarterly sampled interior groundwater wells. OPWDD and/or their agents will perform periodic inspections of the building for potential structural deficiency issues and will perform limited building envelope repairs as necessary to address any significant site safety concerns. The condition of the foundation is unknown and a damaged foundation may contribute to variation in groundwater quality and flow patterns.

The next steps to remediate remaining contamination at the Site were discussed with OPWDD, DASNY, and NYSDEC in 2019. In pursuit of this, Bergmann performed an additional subsurface investigation in August 2019

to determine the nature and extent of remaining contamination in groundwater and soils. The primary goal of the investigation was to evaluate the concentration of CVOCs in the two soil (2) source areas: the MW-1 area and the MW-17 area. The investigation identified that shallow soils beneath the building in the source area were impacted at depths ranging from one (1) to three (3) feet below ground surface (bgs). CVOC-impacted soils at the south side of the building and within the southern portion of the building near MW-1/MW-11 continue to impact the groundwater. This finding is consistent with seasonal groundwater fluctuations.

On August 13 and 14, 2019, Bergmann conducted an Additional Subsurface Soil Investigation (ASI) at the former Gowanda Day Habilitation Center facility for further evaluation of soils at upgradient and downgradient chlorinated solvent source areas. This ASI was performed in accordance with the Bergmann Additional Subsurface Investigation Plan (ASIP) dated August 2018. Five (5) soil borings were completed in the building source area with the historically highest chlorinated VOC concentrations (adjacent monitoring wells MW-1 and MW-11, in the upgradient source area,) and five (5) soil borings were completed at locations adjacent to monitoring well MW-17 and recovery well G-3 (the down gradient source area). One (1) soil sample was collected from each of the ten (10) boring locations. The soil samples were selected from targeted zones for soil sample collection based on Photoionization Detector (PID) measurements, depth intervals above the top of the groundwater table, and historic groundwater levels. The targeted zone for soil sample collection was from depths ranging to 6.5 feet at the upgradient source area, and 11.5 feet at the downgradient source area.

Elevated PID measurements for total VOCs, ranging from 1.0 ppm to 30.0 ppm were detected at depths ranging from one (1) to three (3) ft. bgs and above the groundwater table in the upgradient source area at the south side of the building near MW-1/MW-11. Groundwater depth in this area is historically around 5.90-ft bgs. Soil analytical results indicated detections of CVOCs.

- Cis-DCE exceeded Unrestricted Use Soil Cleanup Objectives (UUSCOs) in soil borings SB-01, SB-02, SB-03, and SB-05.
- TCE exceeded UUSCOs in soil borings SB-01, SB-02, and SB-04, and exceeded Restricted Residential Use Soil Cleanup Objectives (RRUSCOs) and Commercial Use Soil Cleanup Objectives (CUSCOs) in soil borings SB-03 and SB-05.
- Vinyl Chloride exceeded RRUSCOs in soil boring SB-01.

Soil impacted with CVOCs at the south side of the building is the source area for groundwater. The concentrations of CVOCs in the soil are indicative of a seasonally variable water table. The CVOCs were not detected in the soil within the downgradient groundwater source area, adjacent to monitoring well MW-17 and recovery well G-3. The downgradient groundwater source area is controlled by a preferential pathway in the overburden soils, such as an alluvium historic buried stream channel or imported fill below the sewer lateral that runs along the northern side of the building.

Based on the results of the ASI, Bergmann identified four (4) preliminary remedial alternatives to address the remaining source areas of soil and groundwater contamination at the former Gowanda Day Habilitation Center facility. These four (4) alternatives include 1) PlumeStop® Barrier & Bioremediation, an in-situ source area containment and bioremediation treatment; 2) Soil and groundwater removal, to reduce the impacted soil and groundwater from the Site with off-Site disposal; 3) Thermal soil and groundwater remediation, for in-place destruction and/or vapor removal from the subsurface soil and groundwater media; and 4) Building demolition with soil and groundwater removal.

Based on the results of the investigation, Bergmann prepared an Overview Analysis for Site Closure document outlining cleanup options and costs analysis to identify the most feasible and cost-effective method to achieve chlorinated VOC concentrations that allow Site closure. Discussions with NYSDEC, OPWDD, DASNY, and Bergmann concluded that a source area removal with partial building demolition is the most cost-effective remedial option for site closure.

On March 25 and March 26, 2021, Bergmann completed a Soil Vapor Intrusion and Indoor Air Sampling Investigation (SVI/IA) at three (3) of five (5) identified residential homes in the NYSDEC, NYSDOH, DASNY, and OPWDD approved *OPWDD Gowanda Day Habilitation Center NYSDEC VCA Site Number V-00462-9 Soil Vapor Intrusion and Indoor Air Quality Sampling Work Plan*, Bergmann, February 2021. The three (3) residences sampled were 98, 114, and 118 Torrance Place, Gowanda, New York. Access was not granted for the collection of SVI/IA sample at 106 and 110 Torrance Place.

Three samples were collected from each of the three (3) residents: one (1) sub-slab vapor sample, one (1) basement indoor air quality sample, and one (1) first floor indoor air quality sample. Additionally, one (1) outdoor air sample, one (1) outdoor matrix spike/matrix spike duplicate sample, and one (1) blind duplicate indoor air sample were collected as part of this investigation. The analytical results of this sampling were compared to NYSDOH Final Guidance for Evaluation Soil Vapor Intrusion in New York State (October 2006 with 2017 amendment), NYSDOH Upper Fence Values from the NYSDOH Fuel Oil Study, and NYSDOH Soil Vapor Indoor Air Matrix A and B (May 2017).

Four (4) targeted VOCs were detected in the sub-slab samples: Acetone, Carbon Disulfide, Tetrachloroethene, and Trichloroethene, which are associated with VOCs historically detected at the groundwater at the Site. Three (3) targeted VOCs, Acetone, Carbon Disulfide, and Trichloroethene, were detected in indoor and outdoor air samples, with outdoor air concentrations being similar or lower than targeted VOCs detected in the indoor air (basement and first-floor areas) and sub-slab samples. Acetone and Carbon disulfide were detected below NYSDOH Upper Fence levels for residential homes, while Trichloroethene exceeded the NYSDOH Upper Fence level in each indoor air sample.

Based on the results of the SVI/IA sampling, a Vapor Intrusion Condition (migration pathway) to the residential homes is a risk from sub-slab vapors to indoor air. VOCs detected in the sub-slab vapor samples have a low to moderate potential to migrate into indoor air in the nearby residential homes.

3.0 REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

3.1 HISTORICAL DATA REVIEW

The historical data collected over the extent of the monitoring program is presented in tables and charts provided in the appendix of this PRR. Tables 2 and 3 include data collected from multiple monitoring wells (MW-1 to MW-21) and recovery wells (DR-1 to DR-4, G-1 to G-3).

Table 2 - Percent Reductions in Total Groundwater VOCs, provides data on the percent reductions in total groundwater VOCs (Volatile Organic Compounds) concentrations at the Site from 2002 to dates between November 2005 to December 2024. The data includes measurements from showing fluctuations in VOC reduction percentages over time.

Some wells, such as MW-2, MW-3, MW-4, MW-5, MW-8, MW-9, MW-10, MW-13, MW-15, MW-19R, and MW-20, consistently show high reduction percentages, often close to or at 100%. These high reduction percentages are inferred to be due to the wells being located outside of the source area of VOCs. Other wells, like MW-1, MW-6, MW-7, MW-11, MW-12, MW-14, MW-16, MW-17, MW-18, and MW-21, exhibit more variability, with some negative values indicating an increase in VOC concentrations at certain times. These values are inferred to be due to the wells being located within the upgradient and downgradient source areas present at the site.

Overall, the data indicates a positive trend in reducing VOC concentrations across the site, with significant improvements over the years, inferred to be caused by natural attenuation of the groundwater at the site. However, some wells continue to show elevated VOC levels, indicating areas that may require further remediation efforts.

Table 3 – Historic Groundwater Analysis Results Summary provides a summary of historic groundwater analysis results at the Site. The data spans from March 2012 to December 2024 and presents measurements of total VOC (Volatile Organic Compounds) concentrations in parts per billion (ppb). The table presents VOC concentrations for each well for each sampling event, showing fluctuations in VOC levels over time. Some wells, such as MW-1 and MW-11, exhibit high VOC concentrations, while others, like MW-2, MW-4, and MW-10, consistently show non-detectable levels (ND). Wells with elevated VOC concentrations generally correspond to the inferred source areas present at the site, while those with low VOC concentrations generally correspond to those wells outside of the inferred areas of impacted soils.

Overall, the data indicates variability in VOC concentrations across different wells and time periods. The table generally corresponds with percentage reductions in Table 2, with some wells showing marked improvements over time, while others continue to exhibit elevated levels, indicating areas that may require further remediation efforts.

Chart 1 - Site-Wide Contamination Reduction, tracks the overall site-wide reduction in VOC concentrations between the October 2006 and December 2024, and corresponds with the data presented in Table 2 – Percent Reductions in Total Groundwater VOCs. The chart indicates that there have been fluctuations in VOC reduction percentages over time. Despite these fluctuations, there's an overall increasing trend in the reduction of VOC concentrations. The overall trend is a general improvement in reducing VOC concentrations across the site from October 2006 to December 2024.

Chart 2 - Recovery Well Percent Reduction of VOC Concentrations, tracks the percent reduction of VOC concentrations at recovery wells over time, spanning from October 2006 to December 2024. The reduction percentage, ranging from 0% to 100%, indicates the increase or decrease in concentration for a sampling event compared to the initial concentrations measured prior to the installation of the GTS. Initially, the reduction percentage was high, near 90%, generally corresponding to the time period in which the GTS was active. Despite

these fluctuations, the dotted trend line suggests a slight overall decrease in the effectiveness of VOC reduction over time, likely due to the deactivated of the GTS.

Charts 3 through 10 provide a detailed overview of VOC concentrations across multiple monitoring and recovery wells at the site. The dates of sampling events depicted in these charts span from 2004 to 2024. Overall, the charts indicate a general downward trend in VOC concentrations.

3.2 MANN-KENDALL TREND ANALYSIS

As presented in graphs at located in the 'Mann-Kendall Test' section at the end of this report, a Mann-Kendall trend analysis was conducted for 36 sampling events, dating from November 2014 to December 2024, across all 21 monitoring wells and 7 recovery wells to evaluate temporal trends in VOC concentrations. The analysis categorized each location based on the statistical significance and direction of the observed trends, using a 90% confidence threshold.

Out of the 28 locations evaluated, eight (8) wells exhibited statistically significant decreasing trends in VOC concentrations. These include MW-1, MW-6, MW-11, MW-15, MW-17, DR-2, DR-4, and G-1. The decreasing trends at these locations suggest that natural attenuation processes, and previously, remediation efforts, may be effectively reducing contaminant levels in these areas.

Conversely, nine (9) locations demonstrated statistically significant increasing trends in VOC concentrations. These include MW-2, MW-3, MW-5, MW-9, MW-12, MW-13, MW-18, MW-19R, and G-2. The presence of increasing trends at these wells may indicate localized sources of contamination, changes in subsurface conditions, or the need for further investigation and potential corrective action.

Nine (9) locations were classified as stable, meaning no statistically significant trend was detected and the data variability was within acceptable limits. These include MW-4, MW-7, MW-8, MW-10, MW-14, MW-16, DR-1, DR-3, and G-3. These wells appear to be maintaining consistent VOC concentrations over time.

The remaining two (2) locations—MW-20, and MW-21—were deemed inconclusive due to insufficient statistical confidence or high variability in the data. Additional monitoring and data collection are recommended at these locations to better characterize long-term trends.

Overall, the site exhibits a mixed pattern of VOC trends. Approximately 64% of the locations show statistically significant trends, evenly split between increasing and decreasing. This indicates that while some areas are improving, others may require further attention. Continued monitoring and targeted investigation will be essential to guide future site management and remediation strategies.

4.0 IC/EC PLAN COMPLIANCE

4.1 IC/EC REQUIREMENTS AND COMPLIANCE

During the April 6, 2024 – April 6, 2025, Reporting Period, the remedial system was not in operation and therefore was not discharging water. The existing wells and monitoring well network are adequate to monitor the performance of the remediation program and to allow for the collection of groundwater quality samples.

No changes in the use of the site, the use of the groundwater, or excavations occurred at the site during the 2024-2025 reporting period.

4.2 IC/EC CERTIFICATION

The IC/EC certification form is provided in Appendix C.

5.0 MONITORING PLAN COMPLIANCE

5.1 MONITORING PLAN

Groundwater elevation measurements and sampling activities were conducted in accordance with the October 2006 OM&M Manual. Although the system was shut down and the pumps were pulled from recovery wells for the reporting period, hydraulic containment of the plume has been historically achieved since the shutdown of the system in 2013.

Groundwater samples were collected from monitoring wells and recovery wells after each well was gauged and purged of standing water via hand bailing. Beginning in Q4, 2024, purged standing water was containerized in 55-gallon, closed-top steel drums for disposal. Disposal of this purged groundwater is pending and is expected to occur in Q3 or Q4 2025. Sample parameters including turbidity, temperature, pH, oxygen, and specific conductivity were monitored using a YSI Quatro Pro to ensure sufficient well purging prior to sampling. The YSI Quatro Pro was calibrated by the supplier and calibrated daily prior to the use of the equipment. After purging, water was placed in the provided YSI Quatro Pro storage cup and a reading was collected over approximately 60 seconds prior to sampling. Equipment was rinsed with distilled or deionized water after each parameter measuring event. Parameters collected during an October 2024 site visit in preparation for the site work plan were collected in-situ with no bailing performed. One (1) duplicate sample and one (1) field blank sample were collected and submitted for laboratory analysis.

Groundwater samples were delivered via chain-of-custody protocol to a New York State Department of Health (NYSDOH) certified laboratory (ALS Environmental, Inc.) for testing using United States Environmental Protection Agency (US EPA) Method 8260 for Target Compound List (TCL) VOCs.

5.2 SUMMARY OF MONITORING DURING REPORTING PERIOD

Groundwater samples were collected on the following dates during the Reporting Period:

- June 17 and 18, 2024 (Q2 2024 Sampling Event).
- September 19 and 20, 2024 (Q3 2024 Sampling Event).
- December 19 and 20, 2024 (Q4 2024 Sampling Event).

Samples were collected from and depth to groundwater measurements were obtained from all twenty-one (21) site-related groundwater monitoring wells during the Q2 2024 sampling event. Samples were collected from and depth to groundwater measurements were obtained from twenty (20) groundwater monitoring wells during Q3 2024, and nineteen (19) of the groundwater monitoring wells during the Q4 2024 sampling event. It is noted that Q1 2025 samples were not collected due to the pending 2025 contract approval.

During the 2024 sampling events, most wells were accessible, and the integrity of most wells was not compromised. One (1) monitoring well, well MW-16, was found to be leaning at an 85-degree angle during the Q3 2024 sampling event and appears to have been struck by a vehicle and was not sampled in Q3 and Q4 2024. A proposal will be created to perform repair of MW-16 and perform monitoring well redevelopment, with an intent to perform this repair by the end of 2025. All standpipes and flush-mount curb boxes were found to be intact and secure. Exterior monitoring wells are secured with locking standpipes or flush mount curb boxes. The monitoring wells within the building are secured with flush-mount roadway covers.

The monitoring wells that were selected in 2008 by the NYSDEC and Bergmann personnel were outside the area of impact by the GTS and include MW-2, MW-3, MW-5, MW-8, MW-9, MW-10, MW-13, and MW-21. NYSDEC added MW-21 to the sampling program in 2015. Sentry groundwater monitoring wells (MW-19R, MW-20, and MW-4) were established to monitor a separate occurrence of contaminated groundwater at the Gowanda Electronics site (NYSDEC Site 905025), immediately east of Industrial Place and east of the Site.

For Quality Assurance/Quality Control (QA/QC) purposes, a field duplicate, equipment blank and trip blank were collected during each sampling event. During the Q2 2024 sampling event, the duplicate was collected from monitoring well MW-1. A duplicate was collected for the Q3 2024 sampling event from monitoring well MW-17. The duplicate collected during the Q4 2024 sampling event was collected at monitoring well MW-1. All duplicates for all sampling events were labeled 'MW-X.' Results from these samples were consistent with the samples collected from their respective sampling locations. Refer to the attached table.

In addition, QA/QC samples including trip blanks and equipment blanks were collected during each sampling event and submitted for the analysis of VOCs. Trip blanks were supplied by the laboratories for QA/QC and remained with the bottleware and groundwater samples until the samples were submitted for laboratory analysis. An equipment blank was also collected for QA/QC purposes to ensure proper cleaning of the sampling equipment. There were detections of 1.6 ppb and 1.7 ppb of 1,4-Dichlorobenzene in the trip blank supplied in Q3 2024. As the trip blank was supplied by the laboratory, the source of this substance is unknown. It is CED's opinion that the detection is a laboratory artifact.

In general, laboratory reporting limits were below groundwater quality standards, except for most non-target compounds. It appears that reporting limits are above groundwater quality standards for most non-target compounds in these samples due to the samples having high concentrations of CVOCs. The data was consistent with previous groundwater analytical data.

5.2.1 Quarterly Monitoring Summary

The current network of monitoring wells at the facility is shown in Figure 2 – Monitoring and Recovery Well Locations. Groundwater characteristics were determined using depth to water measurements obtained on the dates of sampling.

The well gauging values and groundwater elevations are provided in Table 1 – Groundwater Elevations and Field Measurements. Percent reductions in total groundwater VOCs are presented in Table 2 – Percent Reductions in Total Groundwater VOCs. Sampling results for each quarterly sampling event are presented in Table 3 – Historic Groundwater Analysis Results Summary.

The general groundwater flow direction is to the north. The houses on Torrance Place are hydraulically down-gradient from the Day Habilitation Center building. The following is a summary of groundwater elevations and percent reduction for each sampling event in the reporting period:

June 2024

The June 2024 groundwater elevations range from 764.66 ft. above mean sea level (AMSL) at MW-21, to 772.13 ft. AMSL at MW-9. The average groundwater elevation at the wells measured was 768.79 ft AMSL. The site-wide average water table elevation decreased by approximately 0.94 ft. when compared to the March 2024 sampling event (769.73 ft. AMSL). This decrease in the water table elevation is inferred as seasonal.

Twenty-one (21) of the twenty-one (21) monitoring wells were sampled during the June 2024 sampling event. Concentrations in five (5) of the twenty-one (21) monitoring well groundwater samples increased when compared to the March 2024 sampling event while concentrations in four (4) of the twenty-one (21) monitoring well groundwater samples decreased. Concentrations in twelve (12) groundwater samples from monitoring wells had no change. The June 2024 sampling analytical results indicated an average site-wide decrease in total VOCs of approximately 88.99%.

The June 2024 analytical results indicated detection of either TCE or Cis-DCE in all seven (7) of the recovery wells. Total VOCs at the seven (7) recovery wells for which past data is available have decreased overall since June 2002. The average decrease in VOCs in recovery wells for the June 2024 sampling event is 91.31% relative to concentrations prior to GTS activation in 2002.

The eastern sentry wells sampled for this event included MW-4, MW-19R, and MW-20. The June 2024 analytical results indicated CVOCs were not detected in groundwater samples collected from MW-4, MW-19R, MW-20.

September 2024

The September 2024 groundwater elevations range from 765.3 ft. AMSL at MW-19R, to 772.53 ft. AMSL at MW-9. The average groundwater elevation at the wells measured was 768.51 ft. AMSL, which is a decrease from the average groundwater elevation of the previous sampling event in June 2024 (768.79 ft. AMSL). The site-wide average water table elevation decreased by approximately 0.28 ft. when compared to the May 2024 sampling event. This decrease in the water table elevation is inferred as seasonal.

Twenty (20) of the twenty-one (21) monitoring wells were sampled during the September 2024 sampling event. Concentrations in six (6) of the twenty (20) monitoring well groundwater samples increased when compared to the September 2024 sampling event while concentrations in four (4) of the twenty (20) monitoring well groundwater samples decreased. Concentrations in ten (10) groundwater samples from monitoring wells had no change. The September 2024 sampling analytical results indicated an average site-wide decrease in total VOCs of approximately 93.41%

The September 2024 analytical results indicated detection of either TCE or Cis-DCE in all seven (7) of the recovery wells. Total VOCs at the seven (7) recovery wells for which past data is available have decreased overall since May 2002. The average decrease in VOCs for the September 2024 sampling event is 87.75% relative to concentrations prior to GTS activation in 2002.

The eastern sentry wells sampled for this event included MW-4, MW-19R, and MW-20. The September 2024 analytical results indicated CVOCs were not detected in groundwater samples collected from MW-4, MW-19R and MW-20. CVOCs were detected at concentrations of 16 ppb and 27.90 ppb in northern monitoring wells MW-18 and MW-21, respectively.

December 2024

The December 2024 groundwater elevations range from 767 ft. AMSL at MW-19R, to 774.91 ft. AMSL at MW-9. The average groundwater elevation at the wells measured was 770.34 ft. AMSL, which is an increase from the average groundwater elevation of the previous sampling event in September 2024 (768.51 ft. AMSL). The site-wide average water table elevation increased by approximately 1.83 ft. when compared to the September 2024 sampling event. This increase in the water table is inferred as seasonal.

Nineteen (19) of the twenty-one (21) monitoring wells were sampled during the December 2024 sampling event. Concentrations in seven (7) of the nineteen (19) monitoring well groundwater samples increased when compared to the September 2024 sampling event while concentrations in four (4) of the nineteen (19) monitoring well groundwater samples decreased. Concentrations in nine (9) groundwater samples from monitoring wells had no change. The current sampling analytical results indicate an average site-wide decrease in total VOCs of approximately 91.34%.

The December 2024 indicated detection of either TCE or Cis-DCE in all seven (7) of the recovery wells. Total VOCs detected in the seven (7) recovery wells for which past data is available have decreased overall since May 2002. The average decrease in VOCs for the December 2024 sampling event is 89.01% relative to concentrations prior to GTS activation in 2002.

The eastern sentry wells sampled for this event were MW-4, MW-19R, and MW-20. The December 2024 analytical results indicated CVOCs were not detected in groundwater samples collected from MW-4, MW-19R and MW-20. CVOCs were detected at concentrations of 9.4 ppb and 12 ppb in northern monitoring wells MW-18 and MW-21, respectively.

5.3 COMPARISON WITH REMEDIAL OBJECTIVES

Overall contaminant reduction is monitored at each individual sampling point and in four specific “groups” of points: site-wide, original plume area only, sentry wells, and recovery wells. These four (4) groups allow CED to thoroughly monitor the system’s effectiveness and adjust network operation. Table 2 - Percent Reductions in Total Groundwater VOCs shows the breakdown of those four (4) groups by quarter since activation of the GTS and SVE Systems.

Overall contaminant reduction at the recovery wells decreased to 89.01% (December 2024) from 91.86% (March 2024). Reduction at the recovery wells remained consistently between the 90-95% range since 2010 until the shutdown of the system. The GTS was inactive during the reporting period. Contaminant concentration rebound during these years may be associated with the system shutdown and associated groundwater level recovery, as well as residual contamination released in the capillary fringe to the dissolve phase in groundwater at the Site. Reduction at the recovery wells have ranged between 23% and 95% since the ISCO groundwater treatments, completed in May 2015 and September 2015,

Overall contaminant reduction at the monitoring wells increased to 91.34% (December 2024) from 93.55% (March 2024). Reduction at the monitoring wells remained consistently between 70%- 85% since 2010 until the shutdown of the system. The GTS, having been deactivated in 2013, was inactive for the three (3) quarters in 2024 and Q1 2025 quarterly sampling events. Contaminant concentration rebound during the year may be associated with the system shutdown and associated groundwater level recovery, as well as residual contamination released in the capillary fringe to the dissolve phase in groundwater at the Site. Reduction at the monitoring wells have generally ranged between 62% and 92% since the ISCO groundwater treatments, completed in May 2015 and September 2015.

The remediation system at the Gowanda Day Habilitation Center previously controlled and removed contaminants from the groundwater plume area. Contaminant levels decreased by 87.47% from August 2002 to December 2024. The ISCO groundwater treatments, completed in May 2015 and September 2015, may have released residual contamination in the capillary fringe to the dissolve phase in groundwater at the Site.

Overall contaminant reduction at the sentry wells remained at 100.00% (December 2024) from 100.00% (March 2024). Reduction at the sentry wells remained consistently between 90%- 100% from 2010 until the shutdown of the system in 2013.

June 2024

Chlorinated VOCs were detected in groundwater samples from eight (8) of the twenty-one (21) sampled monitoring wells. Groundwater samples from eight (8) monitoring wells had detectable CVOCs at concentrations above applicable Class GA Standards. The monitoring well with the highest total VOCs, MW-1 (625.8 ppb), is located in the area of historically greatest impacted groundwater. Concentrations in five (5) of the twenty-one (21) monitoring well groundwater samples increased when compared to the March 2024 sampling event while concentrations in three (3) of the twenty-one (21) monitoring well groundwater samples decreased. Concentrations in twelve (12) groundwater samples from monitoring wells had no change. As presented in Table 2 - Percent Reductions in Total Groundwater VOCs, the current sampling analytical results indicate an average site-wide decrease in total VOCs of approximately 88.99% since May 2005.

September 2024

Chlorinated VOCs were detected in groundwater samples from eleven (11) of the twenty (20) sampled monitoring wells. Groundwater samples from nine (9) monitoring wells had detectable chlorinated VOCs at concentrations above applicable Class GA Standards. The monitoring well with the highest total VOCs, MW-11 (297.1 ppb), is located in the area of historically greatest impacted groundwater. Concentrations in seven (7) of

the twenty (20) monitoring well groundwater samples increased when compared to the June 2024 sampling event while concentrations in four (4) of the twenty (20) monitoring well groundwater samples decreased. Concentrations in nine (9) groundwater samples from monitoring wells had no change. As presented in Table 2 - Percent Reductions in Total Groundwater VOCs, the current sampling analytical results indicate an average site-wide decrease in total VOCs of approximately 93.41% since May 2005.

December 2024

Chlorinated VOCs were detected in groundwater samples from thirteen (13) of the nineteen (19) sampled monitoring wells. Groundwater samples from ten (10) monitoring wells had detectable chlorinated VOCs at concentrations above applicable Class GA Standards. The monitoring well with the highest total VOCs, MW-11 (454 ppb), is located in the area of historically greatest impacted groundwater. Concentrations in nine (9) of the nineteen (19) groundwater monitoring wells increased when compared to the September 2024 sampling event while concentrations in four (4) of the nineteen (19) groundwater monitoring wells decreased. Concentrations in six (6) groundwater monitoring wells had no change. As presented in Table 2 - Percent Reductions in Total Groundwater VOCs, the current sampling analytical results indicate an average site-wide decrease in total VOCs of approximately 91.34% since May 2005.

5.4 MONITORING DEFICIENCIES

Three (3) quarters of groundwater samples were collected during the reporting period of this report in accordance with site management procedures. Sampling for Q1 2025 was not performed due to pending approval of contract. Monitoring well MW-16 was not sampled in Q3 and Q4 2024 due to the well being damaged.

5.5 CONCLUSIONS AND RECOMMENDATIONS FOR CHANGES

The contaminant plume appears to be concentrated beneath the building in the source area which is located in the vicinity of monitoring wells MW-1 and MW-11 and extends north to recovery wells DR-1 and DR-2. The area of highest groundwater contamination is consistent for all three (3) quarters of the Q2 2024 through Q4 2024 reporting period.

The wells were redeveloped on June 25th and 26th, 2007 and August 19th, 2015. Since almost 10 years have passed since the last redevelopment event, redevelopment of wells in the near future may be warranted.

6.0 OPERATION & MAINTENANCE (O&M) PLAN COMPLIANCE

6.1 O&M COMPONENTS

Bergmann performed an In Situ Chemical Oxidation (ISCO) remediation in May 2015 and a second round of injections in September 2015. The in-situ groundwater treatment was performed to address remaining contamination at the Site in lieu of costly repair of the SVE and GTS.

6.2 SUMMARY OF O&M COMPLETED DURING REPORTING PERIOD

No maintenance was conducted on the GTS or SVE systems during the 2024 calendar year.

6.3 EVALUATION OF REMEDIAL SYSTEMS

During January 2014, as discussed with the NYSDEC representative, the remedial program at the Site was modified by terminating the GTS and soil vapor extraction system, which was believed to have achieved the extent of its practical benefits in favor of ISCO treatment of the residual concentration of VOCs in groundwater. The SVE and GTS equipment is currently deactivated and disconnected but remains on-site in the event that re-activation is required in the future.

6.4 O&M DEFICIENCIES

No deficiencies regarding operation and maintenance are noted for the reporting period.

6.5 CONCLUSIONS AND RECOMMENDATIONS FOR IMPROVEMENTS

The contaminant plume appears to have stabilized due to the previous operation of the GTS for over nine (9) years. While in operation, the GTS was successful in hydraulically containing most of the contaminant plume on the property and minimizing further migration. The GTS was not operating during the current reporting period and overall sample results are similar to previous quarterly reports. In general, VOCs levels fluctuate slightly higher during periods of higher groundwater table elevations and lower VOCs levels when groundwater table is at lower elevations. It appears that residual VOCs in the plume have not migrated and are contained when compared to sample results with operation of the GTS during previous monitoring events. It is CED's hypothesis that the downgradient groundwater source area is an area of elevated VOCs controlled by a preferential pathway in the overburden soils. An alluvium historic buried stream channel or imported fill below the sewer lateral that runs along the northern side of the building is likely to be that pathway.

7.0 OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS

7.1 COMPLIANCE WITH SMP

IC/EC

During the April 6, 2024 – April 6, 2025, Reporting Period, the remedial system was not in operation and therefore was not discharging water.

Monitoring

Due to pending contract approval, a monitoring sampling event was not performed in Q1 2025. Additionally, MW-16 was found to be damaged in Q3 2024, and so was not sampled in Q3 and Q4 2024.

O&M

The SVE and GTS equipment is currently deactivated and disconnected but remains on-site in the event that re-activation is required in the future. No deficiencies regarding operation and maintenance are noted for the reporting period.

7.2 PERFORMANCE AND EFFECTIVENESS OF REMEDY

IC/EC

The deactivated remedial system is not in operation and is not discharging water.

Monitoring

The existing wells and monitoring well network are adequate to monitor the performance of the remediation program and to allow for the collection of groundwater quality samples.

O&M

The SVE and GTS equipment is currently deactivated and disconnected but remains on-site in the event that re-activation is required in the future.

7.3 FUTURE PRR SUBMITTALS

The next PRR report, which will encompass the period from April 6, 2025 to April 6, 2026, will include the following quarterly groundwater sampling events for the following quarters:

- Q2 2025
- Q3 2025
- Q4 2025
- Q1 2026

SITE FIGURES

Former Gowanda Day Habilitation Center 4 Industrial Place

SITE BOUNDARY
MAP

Fig. 1

160

Feet



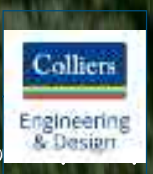
Village of Gowanda, Cattaraugus County, New York



Legend

 Site Property

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus, USGS, AeroGRID, IGN, and the GIS User Community



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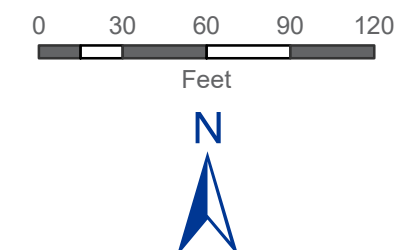
**Gowanda Day
Habilitation Center**

**4 Industrial Place
Gowanda, NY**



Figure 2

**Monitoring and
Recovery Well
Locations**



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Gowanda Day
Habilitation Center
4 Industrial Place
Gowanda, New York



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Project Number: 24004500A	

JUNE 2024
WATER LEVEL
CONTOUR MAP

Drawing Number:
FIGURE 3

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4 Industrial Place
Gowanda, New York



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Project Number: 24004500A	

SEPTEMBER 2024
WATER LEVEL
CONTOUR MAP

Drawing Number:
FIGURE 4

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Project Number: 24004500A	

DECEMBER 2024
WATER LEVEL
CONTOUR MAP

Drawing Number:

FIGURE 5



Q2 JUNE 2024 FIGURES

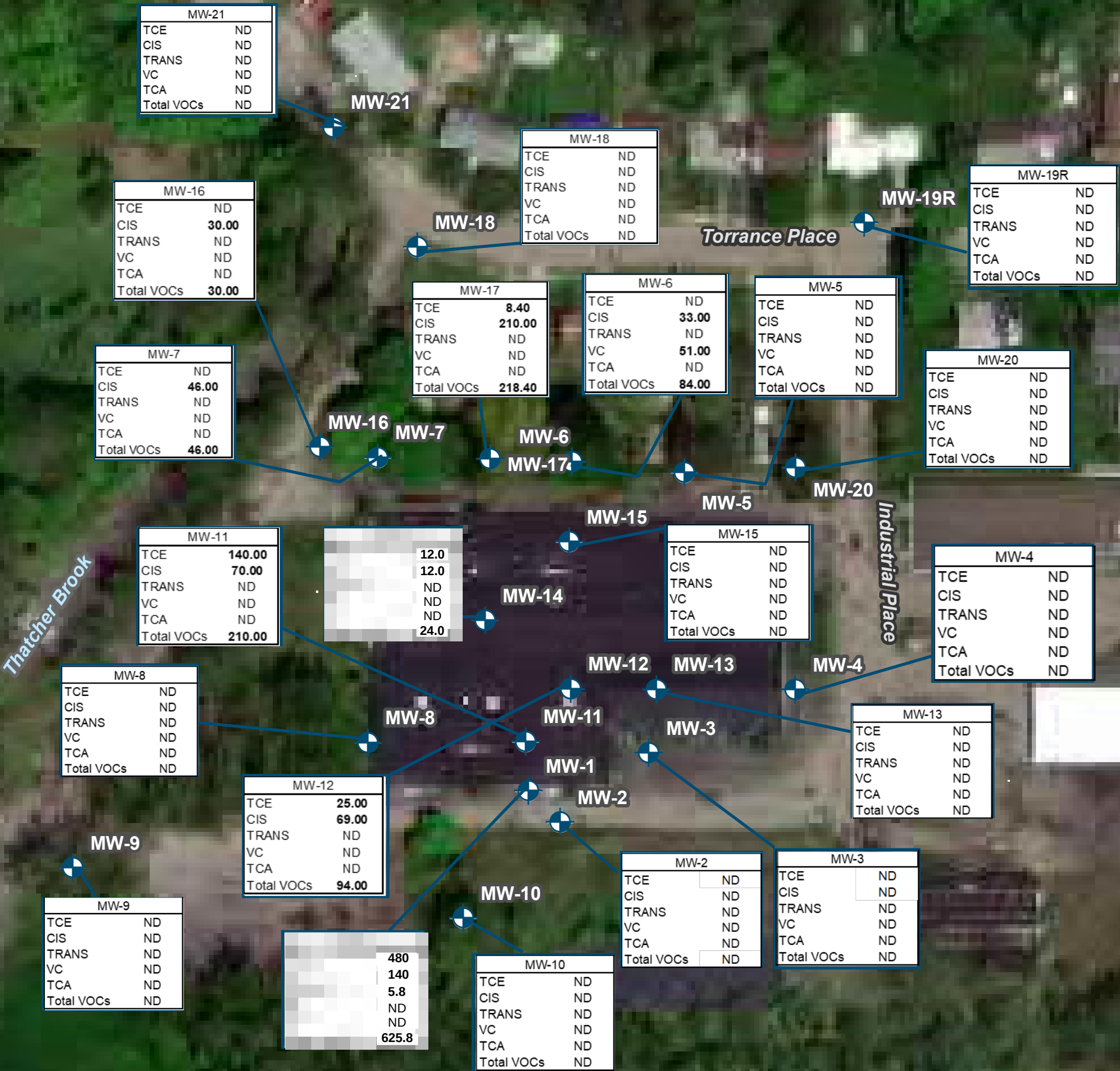
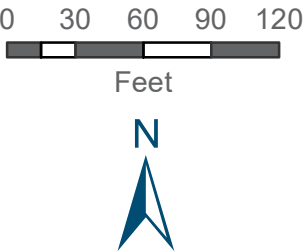
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Habilitation Center

4 Industrial Place
Gowanda, NY



Figure 6

June 2024
Distribution of
Groundwater
Analytical Results:
Monitoring Wells



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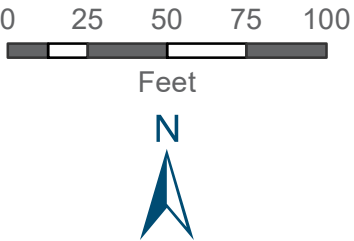
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4 Industrial Place
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Figure 7

June 2024
Distribution of
Groundwater
Analytical Results:
Recovery Wells



Q3 SEPTEMBER 2024 FIGURES

Gowanda Day
Habilitation Center

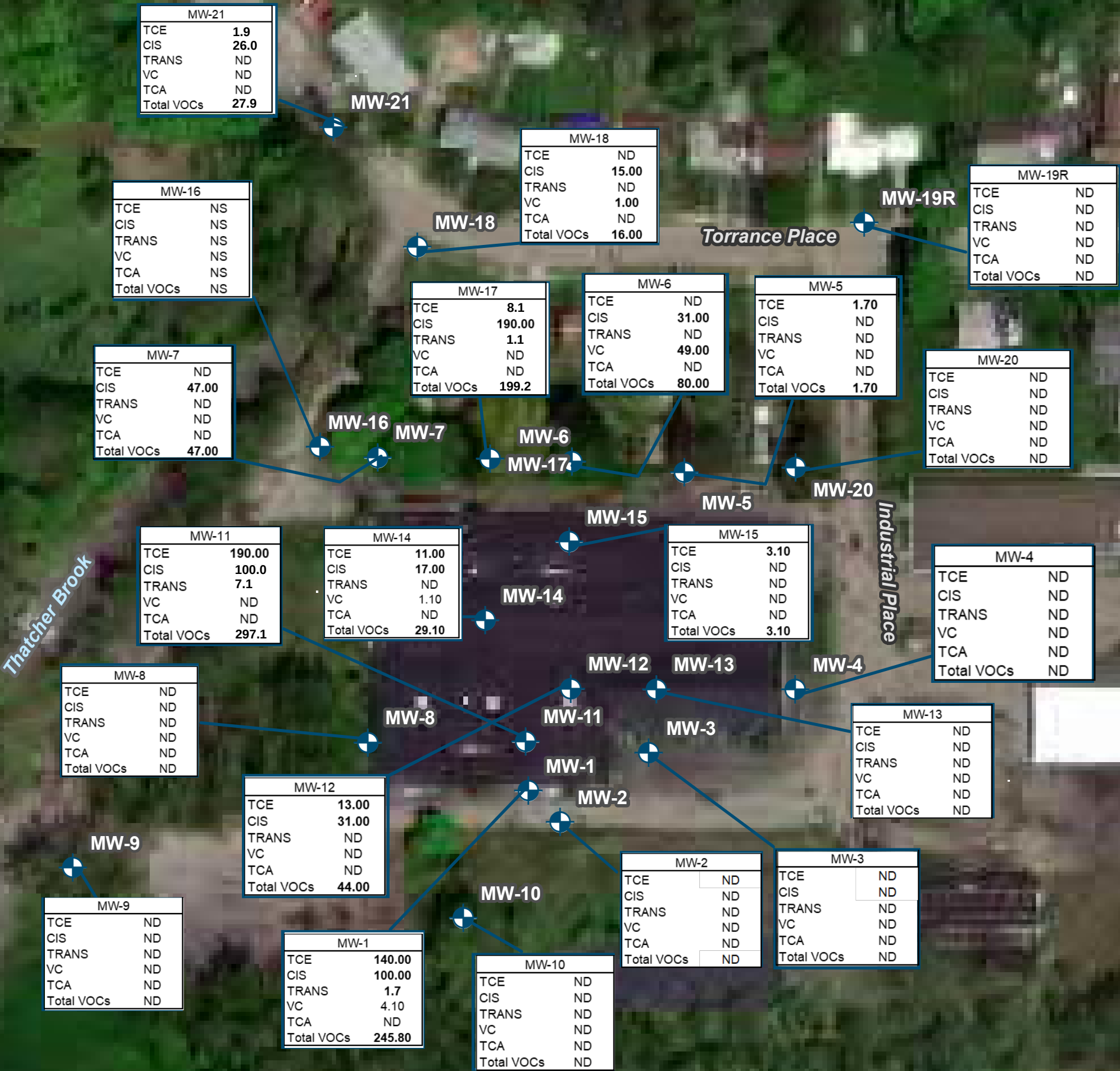
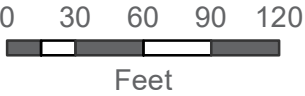
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Gowanda, NY



Figure 8

September
2024

Distribution of
Groundwater
Analytical Results:
Monitoring Wells



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Gowanda Day
Habilitation Center

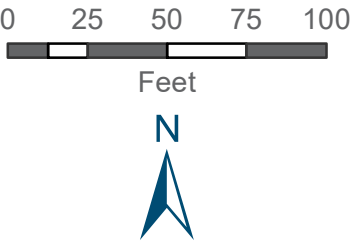
4 Industrial Place
Gowanda, NY



Figure 9

September
2024

Distribution of
Groundwater
Analytical Results:
Recovery Wells





Q4 DECEMBER 2024 FIGURES

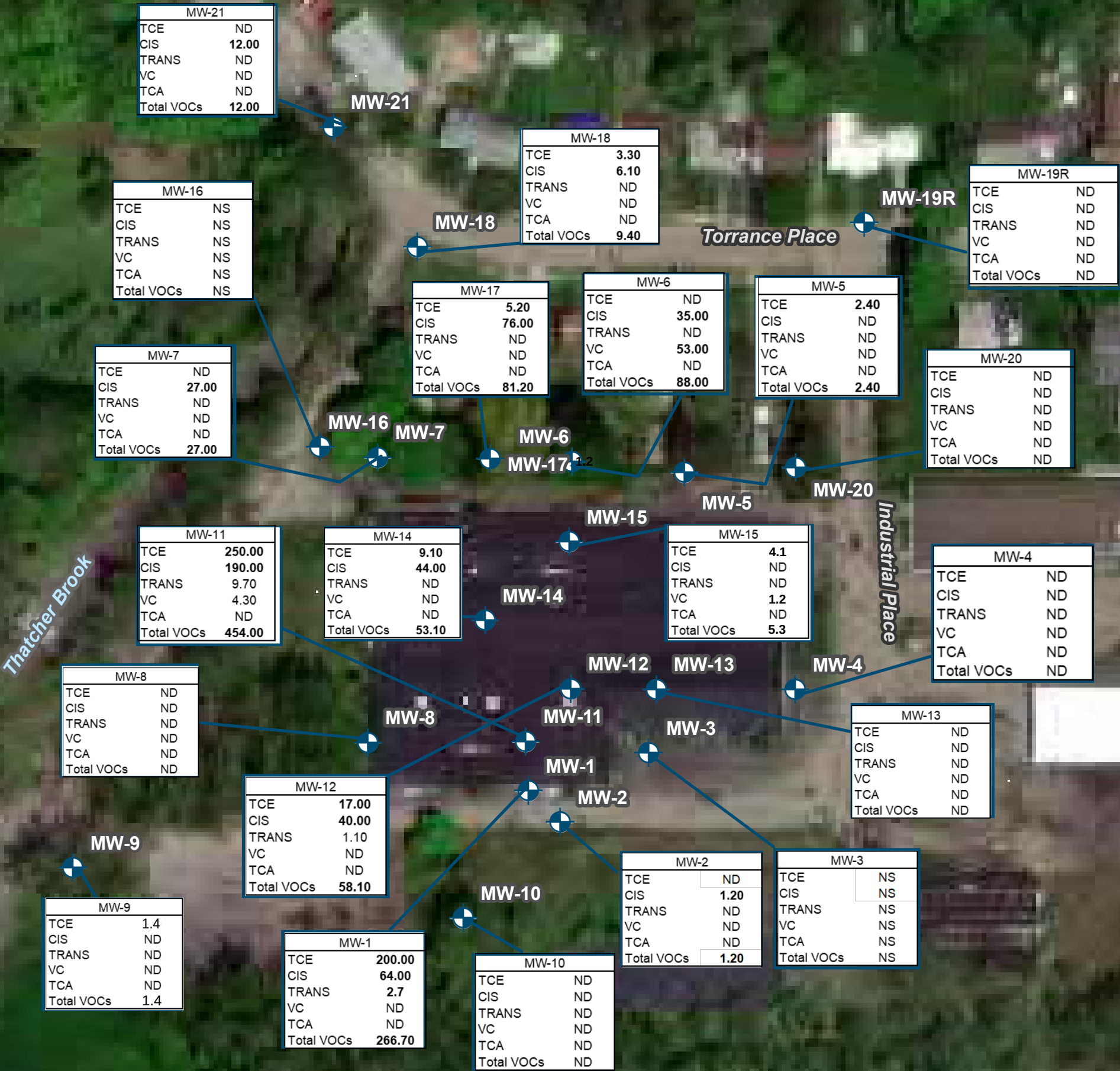
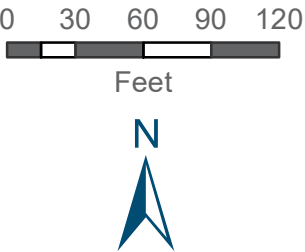
Gowanda Day
Habilitation Center

4 Industrial Place
Gowanda, NY



Figure 10

December
2024
Distribution of
Groundwater
Analytical Results:
Monitoring Wells



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Gowanda Day
Habilitation Center

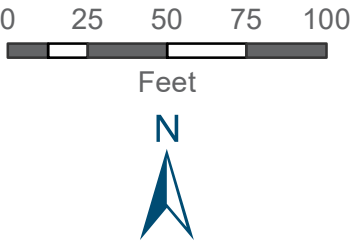
4 Industrial Place
Gowanda, NY



Figure 11

December
2024

Distribution of
Groundwater
Analytical Results:
Recovery Wells





TABLES

Table 1 Groundwater Elevations and Field Measurements

Gowanda Day Habilitation Center
 4 Industrial Place, Gowanda, New York
 VCA # V-00463-9

		Monitoring Wells									
		MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10
Casing Elevation*		778.23	778.08	778.38	778.43	778.61	781.10	780.94	781.33	782.61	780.02
Depth to Groundwater (btoc)	Q2 2024	7.15	6.89	7.45	7.72	11.39	13.78	13.75	10.09	10.48	8.06
	Q3 2024	7.95	7.70	8.50	8.60	11.60	13.80	14.04	11.40	10.08	9.02
	Q4 2024	5.30	5.30	N/A	9.00	10.10	12.74	12.78	8.55	7.70	6.70
Groundwater Elevation	Q2 2024	771.08	771.19	770.93	770.71	767.22	767.32	767.19	771.24	772.13	771.96
	Q3 2024	770.28	770.38	769.88	769.83	767.01	767.30	766.90	769.93	772.53	771.00
	Q4 2024	772.93	772.78	N/A	769.43	768.51	768.36	768.16	772.78	774.91	773.32
Well Diameter		2"	2"	2"	2"	2"	2"	2"	2"	2"	2"
Well Depth (btoc)		16.02	17.15	16.30	15.78	13.95	22.88	21.80	17.65	20.96	19.44
Bottom of Well Elevation		762.21	760.93	762.08	762.65	764.66	758.22	759.14	763.68	761.65	760.58
Comments		Flush = -0.29'	Flush = -0.30'	Flush = -0.23'	Flush = -0.34'	Flush = -0.24'	Stickup=2.17'	Stickup=2.17'	Stickup=2.84'	Stickup=2.05'	Stickup=2.56'

		Monitoring Wells										
		MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19R	MW-20	MW-21
Casing Elevation		778.58	778.50	778.39	778.43	778.38	780.43	779.85	776.39	774.2	778.04	774.76
Depth to Groundwater (btoc)	Q2 2024	7.25	7.93	8.04	11.12	11.09	13.40	13.68	9.90	8.38	10.38	10.1
	Q3 2024	8.30	8.92	8.78	11.35	11.39	N/A	13.82	10.40	8.90	10.75	6.6
	Q4 2024	5.12	5.50	6.20	9.93	9.95	N/A	12.51	8.32	7.20	8.90	6.25
Groundwater Elevation	Q2 2024	771.33	770.57	770.35	767.31	767.29	767.03	766.17	766.49	765.8	767.66	764.66
	Q3 2024	770.28	769.58	769.61	767.08	766.99	N/A	766.03	765.99	765.3	767.29	768.16
	Q4 2024	773.46	773.00	772.19	768.50	768.43	N/A	767.34	768.07	767.0	769.14	768.51
Well Diameter		2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"
Well Depth (btoc)		15.48	17.38	17.40	18.15	19.80	23.26	25.18	25.0	17.67	14.75	15.82
Bottom of Well Elevation		763.10	761.12	760.99	760.28	758.58	757.17	754.67	751.39	756.53	763.29	758.94
Comments		Flush = -0.23'	Flush = -0.35'	Flush = -0.48'	Flush = -0.39'	Flush = -0.38'	Stickup=2.26'	Stickup=1.18'	Flush =-0.26'	Flush =-0.36'	Flush=-0.43'	Flush =-.71'

		Recovery Wells						
		DR-1	DR-2	DR-3	DR-4	G-1	G-2	G-3
Casing Elevation		779.66	779.93	779.78	779.64	779.83	779.72	779.42
Depth to Groundwater (btoc)	Q2 2024	9.45	8.35	12.20	12.04	12.70	12.16	10.69
	Q3 2024	9.29	8.93	12.33	12.33	12.53	12.43	11.60
	Q4 2024	6.30	6.00	10.94	10.90	11.15	11.08	9.55
Groundwater Elevation	Q2 2024	770.21	771.58	767.58	767.60	767.13	767.56	768.73
	Q3 2024	770.37	771.00	767.45	767.31	767.30	767.29	767.82
	Q4 2024	773.36	773.93	768.84	768.74	768.68	768.64	769.87
Well Diameter		4"	4"	4"	4"	4"	4"	4"
Well Depth (btoc)		18.06	18.06	20.45	19.69	22.98	20.72	18.15
Bottom of Well Elevation		761.6	761.87	759.33	759.95	756.85	759	761.27
Comments		Stickup=0.85'	Stickup=1.06'	Stickup=0.95'	Stickup=0.84'	Stickup=1.03'	Stickup=0.86'	Vaulted well

NOTES

btoc = Below top of casing (inner riser)

All measurements are in feet, referenced to Mean Sea Level

NS = Not Sampled

Table 4 Percent Reductions in Total Greenhouse GHGs
Emissions by Sector and Year
Emissions from 2005 to 2020
GHG Emissions from 2005 to 2020

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Electricity	100	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0	94.5	94.0	93.5	93.0	92.5
Manufacturing	100	99.8	99.6	99.4	99.2	99.0	98.8	98.6	98.4	98.2	98.0	97.8	97.6	97.4	97.2	97.0
Transportation	100	99.9	99.8	99.7	99.6	99.5	99.4	99.3	99.2	99.1	99.0	98.9	98.8	98.7	98.6	98.5
Buildings	100	99.7	99.5	99.3	99.1	98.9	98.7	98.5	98.3	98.1	97.9	97.7	97.5	97.3	97.1	96.9
International Aviation	100	99.9	99.8	99.7	99.6	99.5	99.4	99.3	99.2	99.1	99.0	98.9	98.8	98.7	98.6	98.5
International Shipping	100	99.9	99.8	99.7	99.6	99.5	99.4	99.3	99.2	99.1	99.0	98.9	98.8	98.7	98.6	98.5
Land Use Change and Forestry	100	99.9	99.8	99.7	99.6	99.5	99.4	99.3	99.2	99.1	99.0	98.9	98.8	98.7	98.6	98.5
Total	100	99.8	99.6	99.4	99.2	99.0	98.8	98.6	98.4	98.2	98.0	97.8	97.6	97.4	97.2	97.0

Source: EPA's GHG Reporting Program, 2020. GHG emissions from 2005 to 2020 are reported in million metric tons of CO2 equivalent.

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Electricity	100	99.5	99.0	98.5	98.0	97.5	97.0	96.5	96.0	95.5	95.0	94.5	94.0	93.5	93.0	92.5
Manufacturing	100	99.8	99.6	99.4	99.2	99.0	98.8	98.6	98.4	98.2	98.0	97.8	97.6	97.4	97.2	97.0
Transportation	100	99.9	99.8	99.7	99.6	99.5	99.4	99.3	99.2	99.1	99.0	98.9	98.8	98.7	98.6	98.5
Buildings	100	99.7	99.5	99.3	99.1	98.9	98.7	98.5	98.3	98.1	97.9	97.7	97.5	97.3	97.1	96.9
International Aviation	100	99.9	99.8	99.7	99.6	99.5	99.4	99.3	99.2	99.1	99.0	98.9	98.8	98.7	98.6	98.5
International Shipping	100	99.9	99.8	99.7	99.6	99.5	99.4	99.3	99.2	99.1	99.0	98.9	98.8	98.7	98.6	98.5
Land Use Change and Forestry	100	99.9	99.8	99.7	99.6	99.5	99.4	99.3	99.2	99.1	99.0	98.9	98.8	98.7	98.6	98.5
Total	100	99.8	99.6	99.4	99.2	99.0	98.8	98.6	98.4	98.2	98.0	97.8	97.6	97.4	97.2	97.0

Source: EPA's GHG Reporting Program, 2020. GHG emissions from 2005 to 2020 are reported in million metric tons of CO2 equivalent.

Table 3 Historic Groundwater Analysis Results Summary
Gowanda Day Habilitation Center
4 Industrial Place, Gowanda, New York
VCA # V-00463-9

Monitoring Well Number		2024		2023		2022		2021		2020		2019		2018		2017		2016		2015		2014		2013		2012		2011		2010		2009		2008		2007		2006		2005		2004		2003		2002		2001		2000		1999		1998		1997		1996		1995		1994		1993		1992		1991		1990		1989		1988		1987		1986		1985		1984		1983		1982		1981		1980		1979		1978		1977		1976		1975		1974		1973		1972		1971		1970		1969		1968		1967		1966		1965		1964		1963		1962		1961		1960		1959		1958		1957		1956		1955		1954		1953		1952		1951		1950		1949		1948		1947		1946		1945		1944		1943		1942		1941		1940		1939		1938		1937		1936		1935		1934		1933		1932		1931		1930		1929		1928		1927		1926		1925		1924		1923		1922		1921		1920		1919		1918		1917		1916		1915		1914		1913		1912		1911		1910		1909		1908		1907		1906		1905		1904		1903		1902		1901		1900		1899		1898		1897		1896		1895		1894		1893		1892		1891		1890		1889		1888		1887		1886		1885		1884		1883		1882		1881		1880		1879		1878		1877		1876		1875		1874		1873		1872		1871		1870		1869		1868		1867		1866		1865		1864		1863		1862		1861		1860		1859		1858		1857		1856		1855		1854		1853		1852		1851		1850		1849		1848		1847		1846		1845		1844		1843		1842		1841		1840		1839		1838		1837		1836		1835		1834		1833		1832		1831		1830		1829		1828		1827		1826		1825		1824		1823		1822		1821		1820		1819		1818		1817		1816		1815		1814		1813		1812		1811		1810		1809		1808		1807		1806		1805		1804		1803		1802		1801		1800		1799		1798		1797		1796		1795		1794		1793		1792		1791		1790		1789		1788		1787		1786		1785		1784		1783		1782		1781		1780		1779		1778		1777		1776		1775		1774		1773		1772		1771		1770		1769		1768		1767		1766		1765		1764		1763		1762		1761		1760		1759		1758		1757		1756		1755		1754		1753		1752		1751		1750		1749		1748		1747		1746		1745		1744		1743		1742		1741		1740		1739		1738		1737		1736		1735		1734		1733		1732		1731		1730		1729		1728		1727		1726		1725		1724		1723		1722		1721		1720		1719		1718		1717		1716		1715		1714		1713		1712		1711		1710		1709		1708		1707		1706		1705		1704		1703		1702		1701		1700		1699		1698		1697		1696		1695		1694		1693		1692		1691		1690		1689		1688		1687		1686		1685		1684		1683		1682		1681		1680		1679		1678		1677		1676		1675		1674		1673		1672		1671		1670		1669		1668		1667		1666		1665		1664		1663		1662		1661		1660		1659		1658		1657		1656		1655		1654		1653		1652		1651		1650		1649		1648		1647		1646		1645		1644		1643		1642		1641		1640		1639		1638		1637		1636		1635		1634		1633		1632		1631		1630		1629		1628		1627		1626		1625		1624		1623		1622		1621		1620		1619		1618		1617		1616		1615		1614		1613		1612		1611		1610		1609		1608		1607		1606		1605		1604		1603		1602		1601		1600		1599		1598		1597		1596		1595		1594		1593		1592		1591		1590		1589		1588		1587		1586		1585		1584		1583		1582		1581		1580		1579		1578		1577		1576		1575		1574		1573		1572		1571		1570		1569		1568		1567		1566		1565		1564		1563		1562		1561		1560		1559		1558		1557		1556		1555		1554		1553		1552		1551		1550		1549		1548		1547		1546		1545		1544		1543		1542		1541		1540		1539		1538		1537		1536		1535		1534		1533		1532		1531		1530		1529		1528		1527		1526		1525		1524		1523		1522		1521		1520		1519		1518		1517		1516		1515		1514		1513		1512		1511		1510		1509		1508		1507		1506		1505		1504		1503		1502		1501		1500		1499		1498		1497		1496		1495		1494		1493		1492		1491		1490		1489		1488		1487		1486		1485		1484		1483		1482		1481		1480		1479		1478		1477		1476		1475		1474		1473		1472		1471		1470		1469		1468		1467		1466		1465		1464		1463		1462		1461		1460		1459		1458		1457		1456		1455		1454		1453		1452		1451		1450		1449		1448		1447		1446		1445		1444		1443		1442		1441		1440		1439		1438		1437		1436		1435		1434		1433		1432		1431		1430		1429		1428		1427		1426		1425		1424		1423		1422		1421		1420		1419		1418		1417		1416		1415		1414		1413		1412		1411		1410		1409		1408		1407		1406		1405		1404		1403		1402		1401		1400		1399		1398		1397		1396		1395		1394		1393		1392		1391		1390		1389		1388		1387		1386		1385		1384		1383		1382		1381		1380		1379		1378		1377		1376		1375		1374		1373		1372		1371		1370		1369		1368		1367		1366		1365		1364		1363		1362		1361		1360		1359		1358		1357		1356		1355		1354		1353		1352		1351		1350		1349		1348		1347		1346		1345		1344		1343		1342		1341		1340		1339		1338		1337		1336		1335		1334		1333		1332		1331		1330		1329		1328		1327		1326		1325		1324		1323		1322		1321		1320		1319		1318		1317		1316		1315		1314		1313		1312		1311		1310		1309		1308		1307		1306		1305		1304		1303		1302		1301		1300		1299		1298		1297		1296		1295		1294		1293		1292		1291		1290		1289		1288		1287		1286		1285		1284		1283		1282		1281		1280		1279		1278		1277		1276		1275		1274		1273		1272		1271		1270		1269		1268		1267		1266		1265		1264		1263		1262		1261		1260		1259		1258		1257		1256		1255		1254		1253		1252		1251		1250		1249		1248		1247		1246		1245		1244		1243		1242		1241		1240		1239		1238		1237		1236		1235		1234		1233		1232		1231		1230		1229		1228		1227		1226		1225		1224		1223		1222		1221		1220		1219		1218		1217		1216		1215		1214		1213		1212		1211		1210		1209		1208		1207		1206		1205		1204		1203		1202		1201		1200		1199		1198		1197		1196		1195		1194		1193		1192		1191		1190		1189		1188		1187		1186		1185		1184		1183		1182		1181		1180		1179		1178		1177		1176		1175		1174		1173		1172		1171		1170		1169		1168		1167		1166		1165		1164		1163		1162		1161		1160		1159		1158		1157		1156		1155		1154		1153		1152		1151		1150		1149		1148		1147		1146		1145		1144		1143		1142		1141		1140		1139		1138		1137		1136		1135		1134		1133		1132		1131		1130		1129		1128		1127		1126		1125		1124		1123		1122		1121		1120		1119		1118		1117		1116		1115		1114		1113		1112		1111		1110		1109		1108		1107		1106		1105		1104		1103		1102		1101		1100		1099		1098		1097		1096		1095		1094		1093		1092		1091		1090		1089		1088		1087		1086		1085		1084		1083		1082		1081		1080		1079		1078		1077		1076		1075		1074		1073		1072		1071		1070		1069		1068		1067		1066		1065		1064		1063		1062		1061		1060		1059		1058		1057		1056		1055		1054		1053		1052		1051		1050		1049		1048		1047		1046		1045		1044		1043		1042		1041		1040		1039		1038		1037		1036		1035		1034		1033		1032		1031		1030		1029		1028		1027		1026		1025		1024		1023		1022		1021		1020		1019		1018		1017		1016		1015		1014		1013		1012		1011		1010		1009		1008		1007		1006		1005		1004		1003		1002		1001		1000		999		998		997		996		995		994	

NS= This well not included in this sampling event
 ND = Not Detected, results less than Method Detection Limit.
 Impacted north property line wells: MW-5, MW-6, MW-7, MW-16, MW-17, MW-21
 All compounds are measured in parts per billion (ppb)
 VOC - Volatile Organic Compounds
 DUP - Duplicate Sample
 EB - Equipment/Field Blank Sample
 * - Sample was broken in transit and not able to be analyzed
 DWS: Different Well Sampled than previously tested

Total VOCs values are not the total VOCs detected, but the sum of TCE, CIS, TRANS, VC, and TCA detected

Table 4 - Q2, Q3, and Q4 2024 Analytical Results Summary

Gowanda Day Habilitation Center
 4 Industrial Place, Gowanda, New York
 VCA # V-00463-9

Monitoring Well MW-1

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		480	140	200	5.0
CIS		140	100	64	5.0
TRANS		5.8	1.7	2.7	5.0
VC		ND	4.1	ND	2.0
TCA		ND	ND	ND	5.0
Total VOCs		625.8	245.8	266.7	

Monitoring Well MW-2

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		ND	ND	ND	5.0
CIS		ND	ND	1.2	5.0
TRANS		ND	ND	ND	5.0
VC		ND	ND	ND	2.0
TCA		ND	ND	ND	5.0
Total VOCs		ND	ND	1.20	

Monitoring Well MW-3

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		ND	ND	NS	5.0
CIS		ND	ND	NS	5.0
TRANS		ND	ND	NS	5.0
VC		ND	ND	NS	2.0
TCA		ND	ND	NS	5.0
Total VOCs		ND	ND	NS	

Monitoring Well MW-4

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		ND	ND	ND	5.0
CIS		ND	ND	ND	5.0
TRANS		ND	ND	ND	5.0
VC		ND	ND	ND	2.0
TCA		ND	ND	ND	5.0
Total VOCs		ND	ND	ND	

Monitoring Well MW-5

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		ND	1.7	2.4	5.0
CIS		ND	ND	ND	5.0
TRANS		ND	ND	ND	5.0
VC		ND	ND	ND	2.0
TCA		ND	ND	ND	5.0
Total VOCs		ND	1.7	2.4	

Monitoring Well MW-6

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		ND	ND	ND	5.0
CIS		33	31	35	5.0
TRANS		ND	ND	ND	5.0
VC		51	49	53	2.0
TCA		ND	ND	ND	5.0
Total VOCs		84	80	88	

ND = Non-detect

NS = Not Sampled. No analysis performed during this sampling event.

Results expressed as parts per billion (ppb).

Bold results exceed NYSDEC TOGS 1.1.1 Class GA, June 1998 re-issue (MTBE = April 2000 Addendum Guidance Value)

Table 4 - Q2, Q3, and Q4 2024 Analytical Results Summary

Gowanda Day Habilitation Center
 4 Industrial Place, Gowanda, New York
 VCA # V-00463-9

Monitoring Well MW-7

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		ND	ND	ND	5.0
CIS		46	47	27	5.0
TRANS		ND	ND	ND	5.0
VC		ND	ND	ND	2.0
TCA		ND	ND	ND	5.0
Total VOCs		46	47	27	

Monitoring Well MW-8

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		ND	ND	ND	5.0
CIS		ND	ND	ND	5.0
TRANS		ND	ND	ND	5.0
VC		ND	ND	ND	2.0
TCA		ND	ND	ND	5.0
Total VOCs		ND	ND	ND	

Monitoring Well MW-9

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		ND	ND	1.4	5.0
CIS		ND	ND	ND	5.0
TRANS		ND	ND	ND	5.0
VC		ND	ND	ND	2.0
TCA		ND	ND	ND	5.0
Total VOCs		ND	ND	1.4	

Monitoring Well MW-10

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		ND	ND	ND	5.0
CIS		ND	ND	ND	5.0
TRANS		ND	ND	ND	5.0
VC		ND	ND	ND	2.0
TCA		ND	ND	ND	5.0
Total VOCs		ND	ND	ND	

Monitoring Well MW-11

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		140	190	250	5.0
CIS		70	100	190	5.0
TRANS		ND	7.1	9.7	5.0
VC		ND	ND	4.3	2.0
TCA		ND	ND	ND	5.0
Total VOCs		210.0	297.1	454.0	

Monitoring Well MW-12

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		25	13	17	5.0
CIS		69	31	40	5.0
TRANS		ND	ND	1.1	5.0
VC		ND	ND	ND	2.0
TCA		ND	ND	ND	5.0
Total VOCs		94	44	58.1	

ND = Non-detect

NS = Not Sampled. No analysis performed during this sampling event.

Results expressed as parts per billion (ppb).

Bold results exceed NYSDEC TOGS 1.1.1 Class GA, June 1998 re-issue (MTBE = April 2000 Addendum Guidance Value)

Table 4 - Q2, Q3, and Q4 2024 Analytical Results Summary

Gowanda Day Habilitation Center
 4 Industrial Place, Gowanda, New York
 VCA # V-00463-9

Monitoring Well MW-13

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		ND	ND	ND	5.0
CIS		ND	ND	ND	5.0
TRANS		ND	ND	ND	5.0
VC		ND	ND	ND	2.0
TCA		ND	ND	ND	5.0
Total VOCs		ND	ND	ND	

Monitoring Well MW-14

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		12	11	9.1	5.0
CIS		12	17	44	5.0
TRANS		ND	ND	ND	5.0
VC		ND	1.1	ND	2.0
TCA		ND	ND	ND	5.0
Total VOCs		24.0	29.1	53.1	

Monitoring Well MW-15

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		ND	3.1	4.1	5.0
CIS		ND	ND	ND	5.0
TRANS		ND	ND	ND	5.0
VC		ND	ND	1.2	2.0
TCA		ND	ND	ND	5.0
Total VOCs		ND	3.1	5.3	

Monitoring Well MW-16

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		ND	NS	NS	5.0
CIS		30	NS	NS	5.0
TRANS		ND	NS	NS	5.0
VC		ND	NS	NS	2.0
TCA		ND	NS	NS	5.0
Total VOCs		30	NS	NS	

Monitoring Well MW-17

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		8.4	8.1	5.2	5.0
CIS		210	190	76	5.0
TRANS		ND	1.1	ND	5.0
VC		ND	ND	ND	2.0
TCA		ND	ND	ND	5.0
Total VOCs		218.4	199.2	81.2	

Monitoring Well MW-18

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		ND	ND	3.3	5.0
CIS		ND	15.0	6.1	5.0
TRANS		ND	ND	ND	5.0
VC		ND	1.0	ND	2.0
TCA		ND	ND	ND	5.0
Total VOCs		ND	16.0	9.4	

ND = Non-detect

NS = Not Sampled. No analysis performed during this sampling event.

Results expressed as parts per billion (ppb).

Bold results exceed NYSDEC TOGS 1.1.1 Class GA, June 1998 re-issue (MTBE = April 2000 Addendum Guidance Value)

Table 4 - Q2, Q3, and Q4 2024 Analytical Results Summary

Gowanda Day Habilitation Center

4 Industrial Place, Gowanda, New York

VCA # V-00463-9

Monitoring Well MW-19R

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		ND	ND	ND	5.0
CIS		ND	ND	ND	5.0
TRANS		ND	ND	ND	5.0
VC		ND	ND	ND	2.0
TCA		ND	ND	ND	5.0
Acetone		13	ND	5.8	5.0
Total VOCs		13	ND	5.8	

Monitoring Well MW-20

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		ND	ND	ND	5.0
CIS		ND	ND	ND	5.0
TRANS		ND	ND	ND	5.0
VC		ND	ND	ND	2.0
TCA		ND	ND	ND	5.0
Total VOCs		ND	ND	ND	

Monitoring Well MW-21

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		ND	1.90	ND	5.0
CIS		ND	26.00	12.00	5.0
TRANS		ND	ND	ND	5.0
VC		ND	ND	ND	2.0
TCA		ND	ND	ND	5.0
Total VOCs		ND	27.90	12.00	

ND = Non-detect

NS = Not Sampled. No analysis performed during this sampling event.

Results expressed as parts per billion (ppb).

Bold results exceed NYSDEC TOGS 1.1.1 Class GA, June 1998 re-issue (MTBE = April 2000 Addendum Guidance Value)

Table 4 - Q2, Q3, and Q4 2024 Analytical Results Summary

Gowanda Day Habilitation Center
 4 Industrial Place, Gowanda, New York
 VCA # V-00463-9

Recovery Well DR-1

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		380	250	300	5.0
CIS		49	23	64	5.0
TRANS		ND	4.5	3.5	5.0
VC		ND	ND	4.8	2.0
TCA		ND	ND	ND	5.0
Total VOCs		429.0	277.5	372.3	

Recovery Well DR-2

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		27	22	14	5.0
CIS		140	120	88	5.0
TRANS		ND	1.2	ND	5.0
VC		5.8	ND	4.1	2.0
TCA		ND	ND	ND	5.0
Total VOCs		172.8	143.2	106.1	

Recovery Well DR-3

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		25	26	22	5.0
CIS		54	59	42	5.0
TRANS		ND	1.0	ND	5.0
VC		ND	1.1	ND	2.0
TCA		ND	ND	ND	5.0
Total VOCs		79.0	87.1	64.0	

Recovery Well DR-4

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		16	18	19	5.0
CIS		5.2	9.2	6.7	5.0
TRANS		ND	ND	ND	5.0
VC		ND	ND	ND	2.0
TCA		ND	ND	ND	5.0
Total VOCs		21.2	27.2	25.7	

Recovery Well G-1

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		6.5	3.4	5.4	5.0
CIS		16.0	43.0	54.0	5.0
TRANS		ND	ND	ND	5.0
VC		ND	1.0	1.0	2.0
TCA		ND	ND	ND	5.0
Total VOCs		22.5	47.4	60.4	

Recovery Well G-2

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		ND	ND	ND	5.0
CIS		56	58	33	5.0
TRANS		ND	ND	ND	5.0
VC		ND	ND	ND	2.0
TCA		ND	ND	ND	5.0
Total VOCs		56	58	33	

ND = Non-detect

NS = Not Sampled. No analysis performed during this sampling event.

Results expressed as parts per billion (ppb).

Bold results exceed NYSDEC TOGS 1.1.1 Class GA, June 1998 re-issue (MTBE = April 2000 Addendum Guidance Value)

Table 4 - Q2, Q3, and Q4 2024 Analytical Results Summary

Gowanda Day Habilitation Center
4 Industrial Place, Gowanda, New York
VCA # V-00463-9

Recovery Well G-3

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		12	16	16	5.0
CIS		75	160	150	5.0
TRANS		ND	1.1	1.4	5.0
VC		ND	ND	ND	2.0
TCA		ND	ND	ND	5.0
Total VOCs		87.0	177.1	167.4	

Duplicate Blank (MW-X)

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		420	100	170	5.0
CIS		150	84	71	5.0
TRANS		ND	1.3	2.1	5.0
VC		ND	3.6	ND	2.0
TCA		ND	ND	ND	5.0
Total VOCs		570.0	188.9	243.1	

Equipment Blank

Sampling Events

Analyte	in ppb	Jun 2024	Sep 2024	Dec 2024	NYS Guidance Value
TCE		ND	ND	ND	5.0
CIS		ND	ND	ND	5.0
TRANS		ND	ND	ND	5.0
VC		ND	ND	ND	2.0
TCA		ND	ND	ND	5.0
Total VOCs		ND	ND	ND	

ND = Non-detect

NS = Not Sampled. No analysis performed during this sampling event.

Results expressed as parts per billion (ppb).

Bold results exceed NYSDEC TOGS 1.1.1 Class GA, June 1998 re-issue (MTBE = April 2000 Addendum Guidance Value)

CHARTS

Chart 1
Gowanda Site V00463

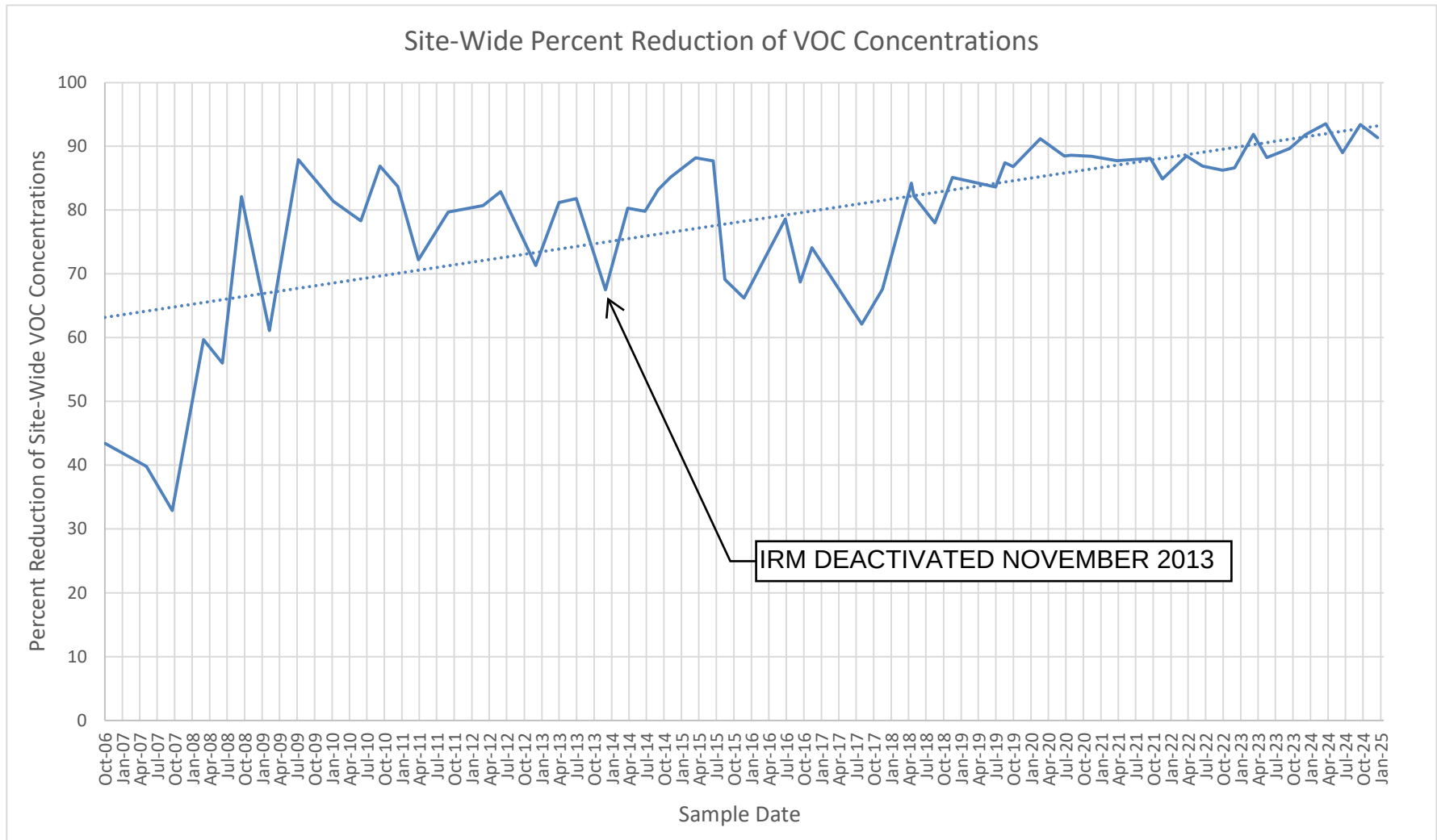
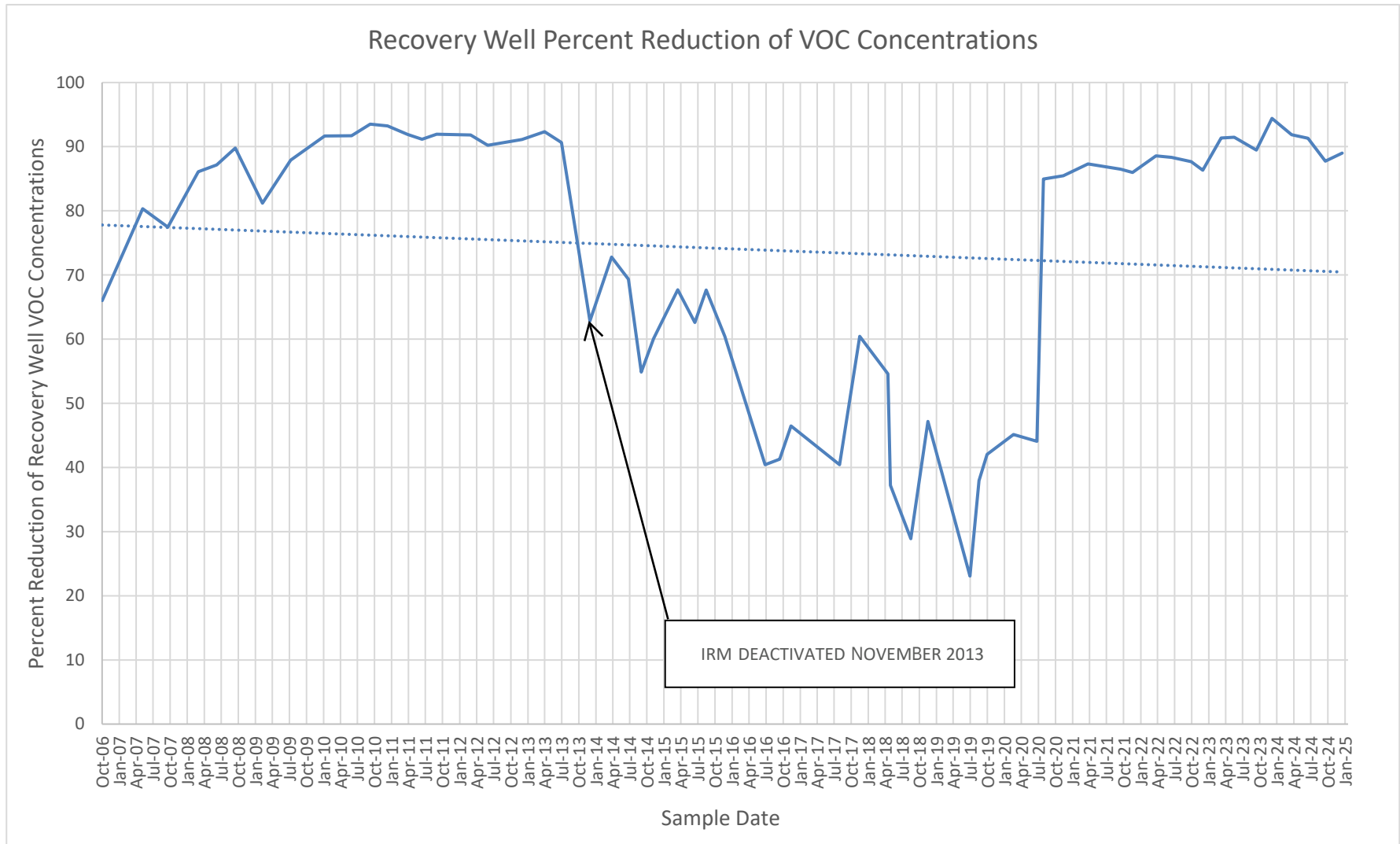
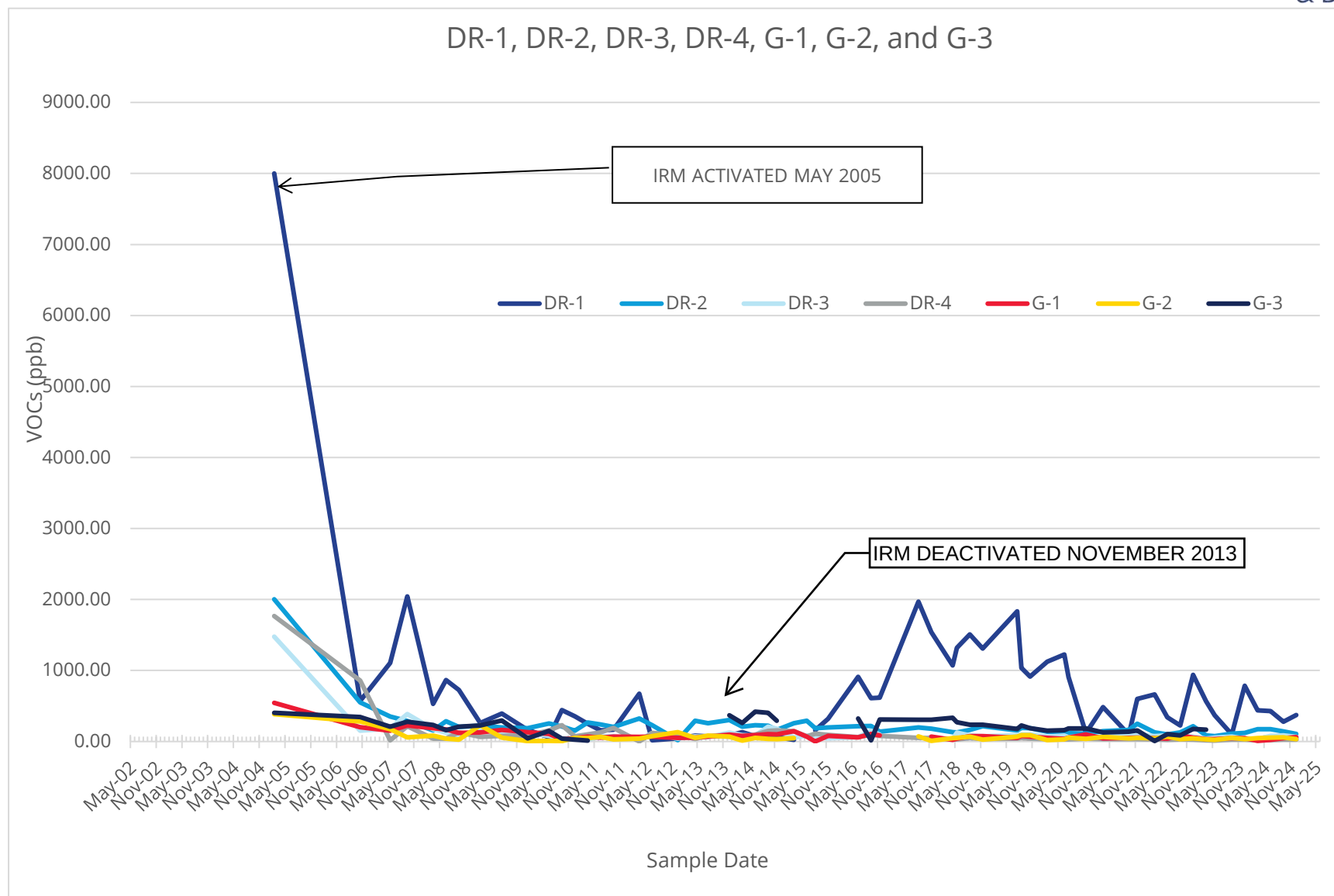
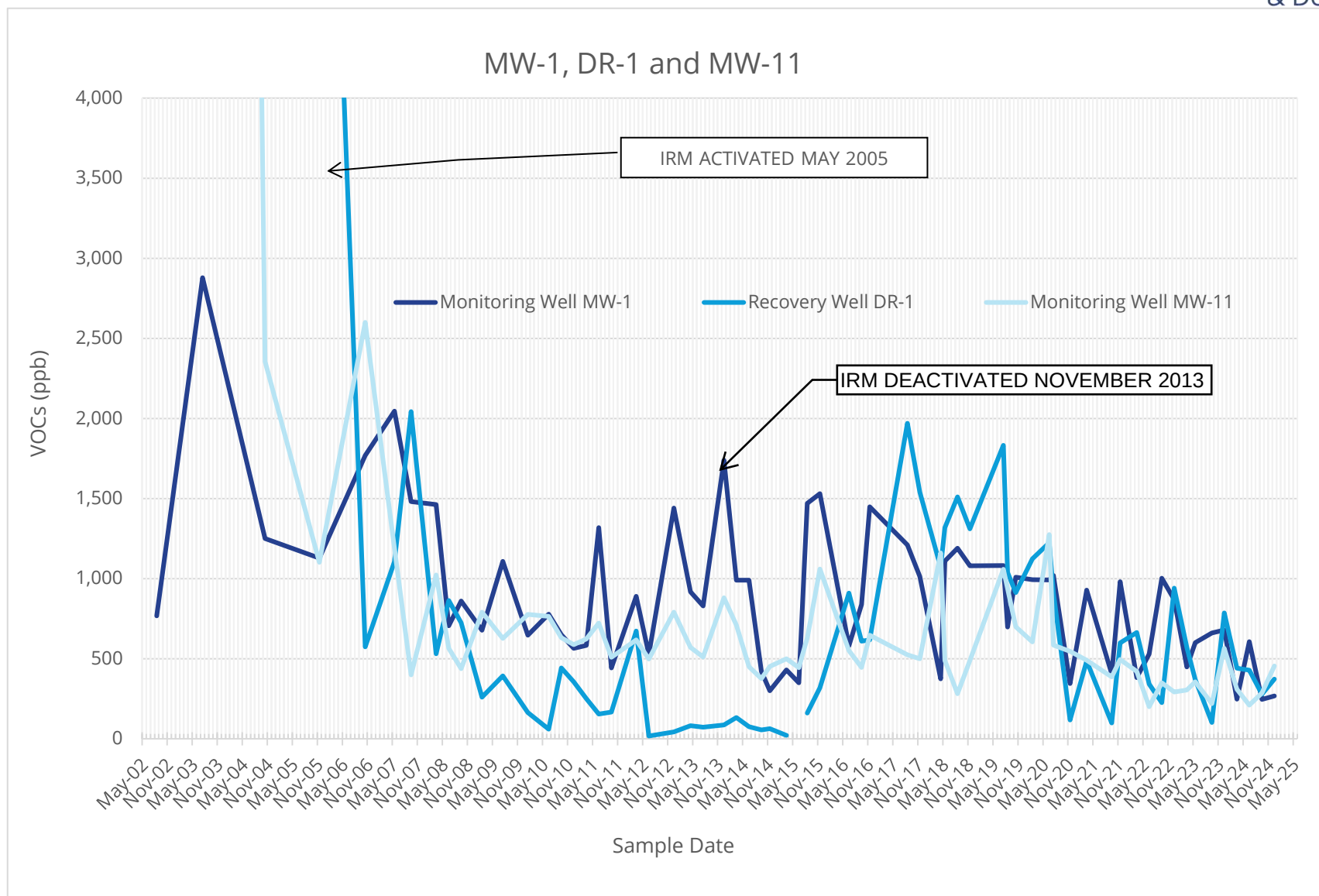
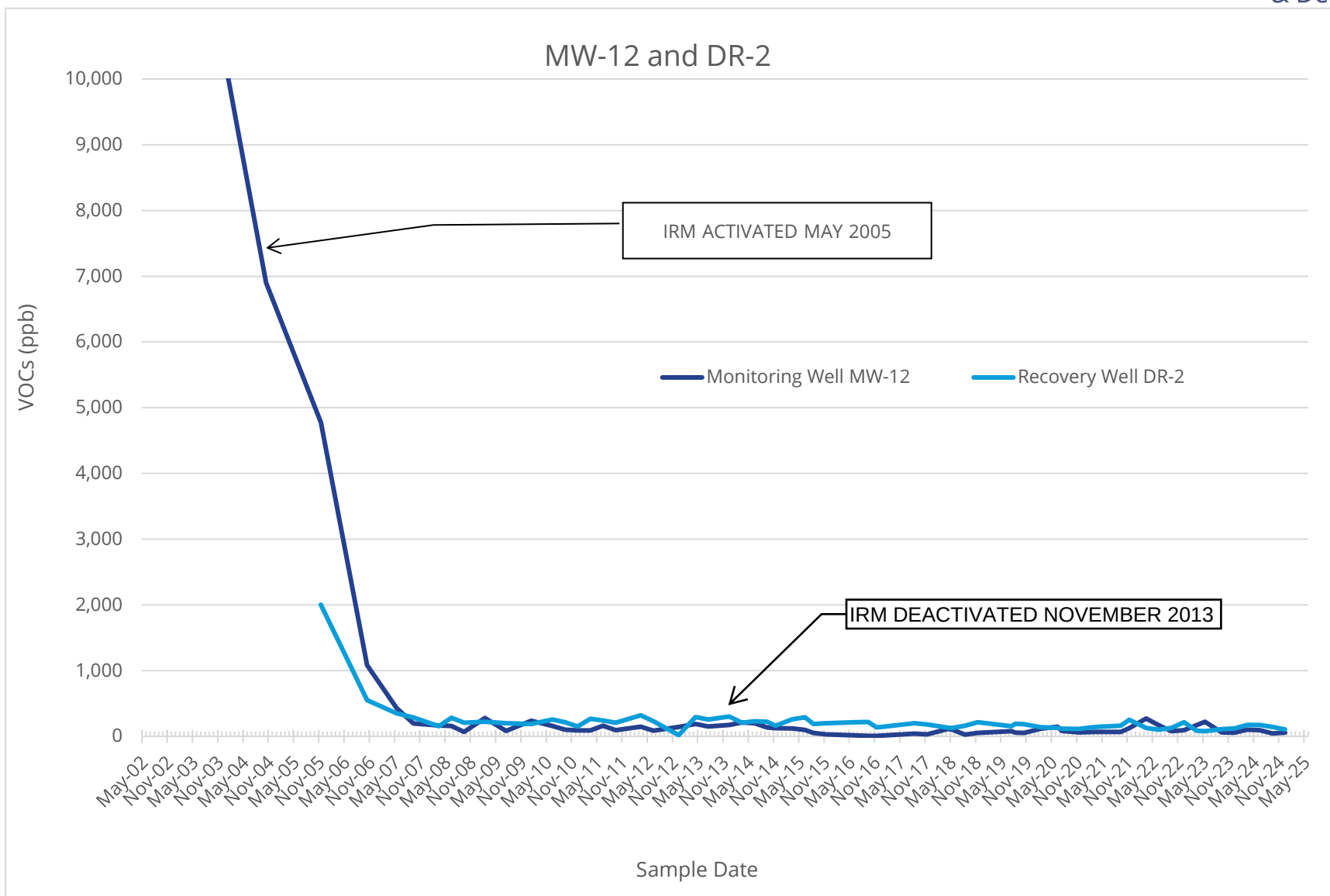


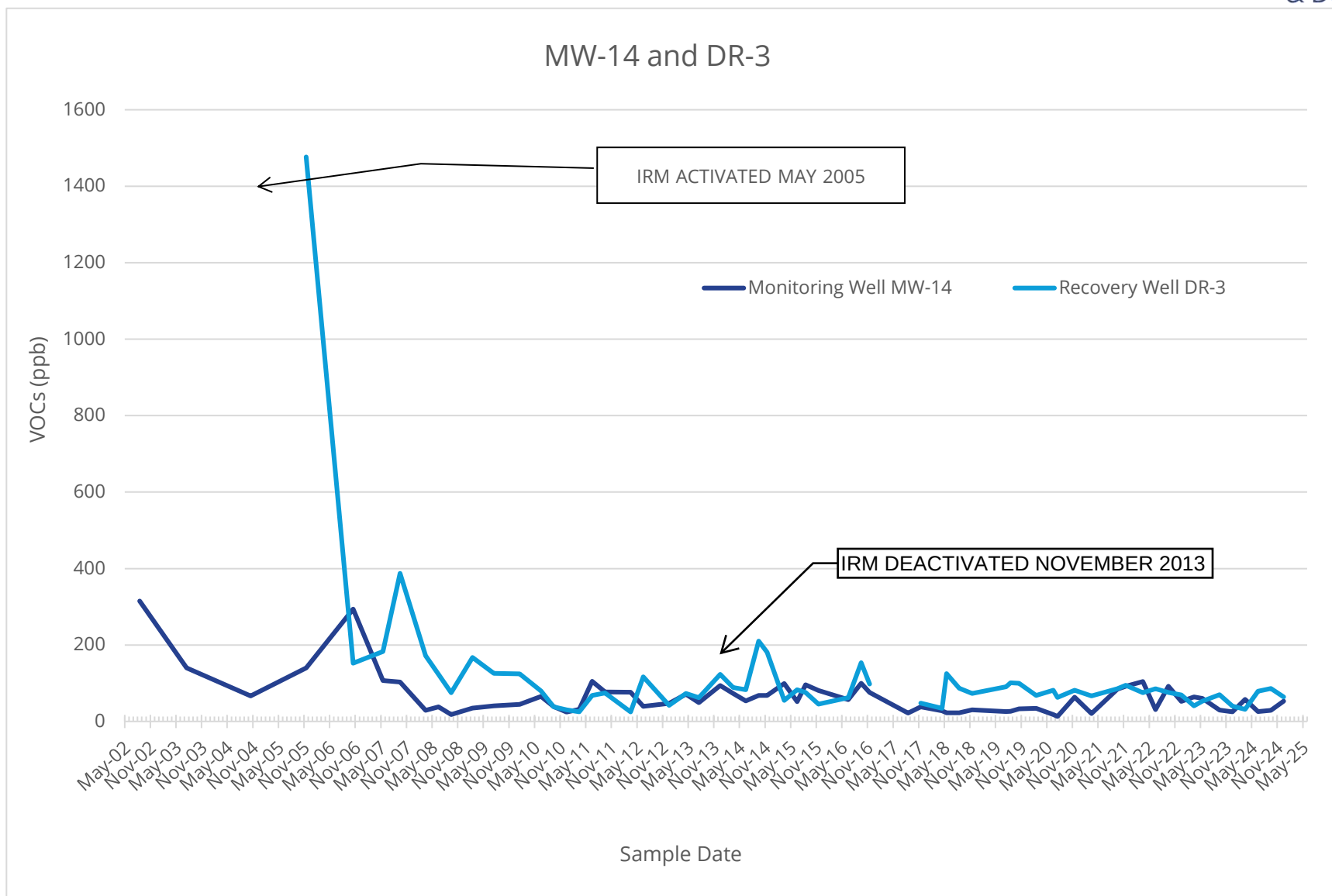
Chart 2
Gowanda Site V00463

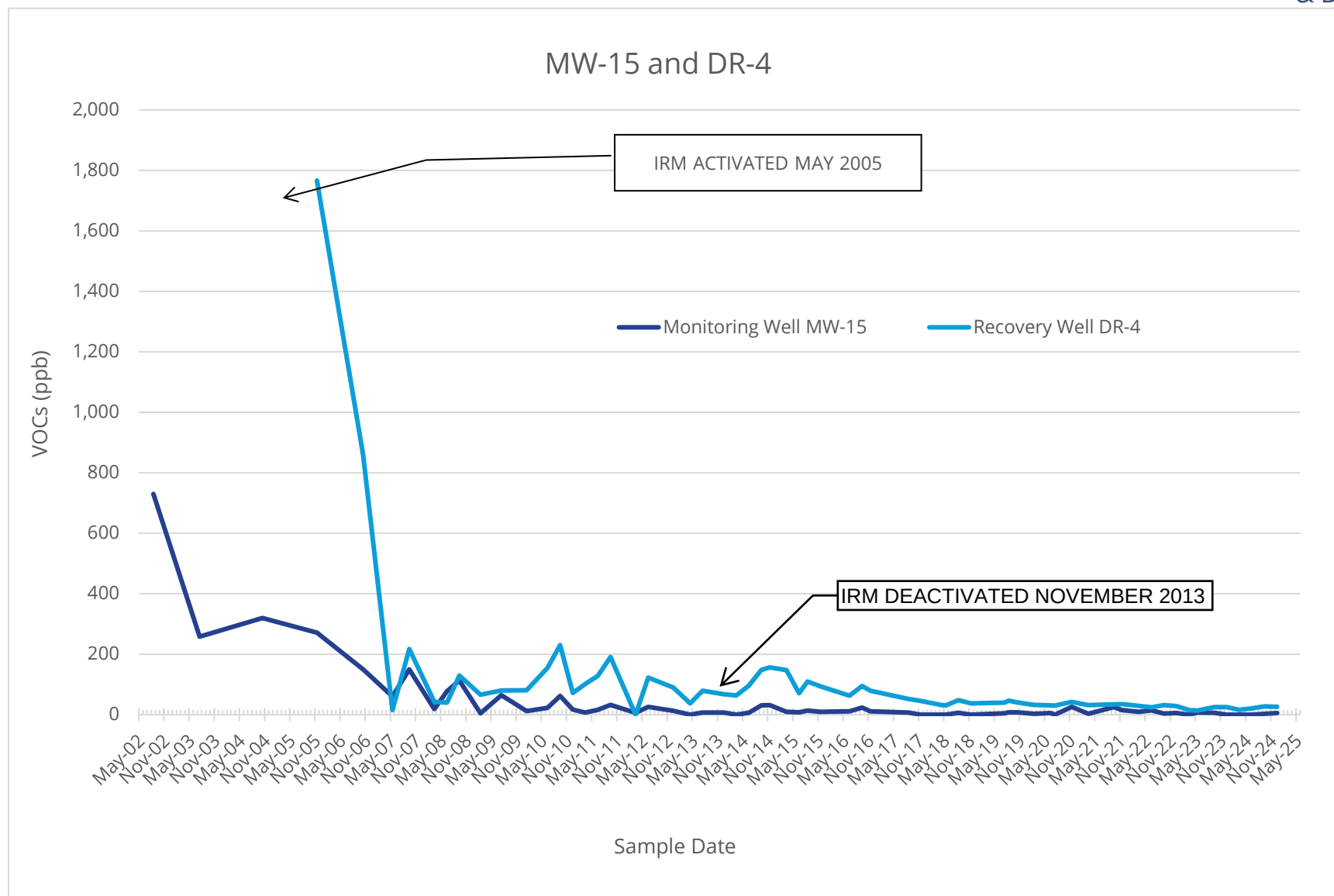


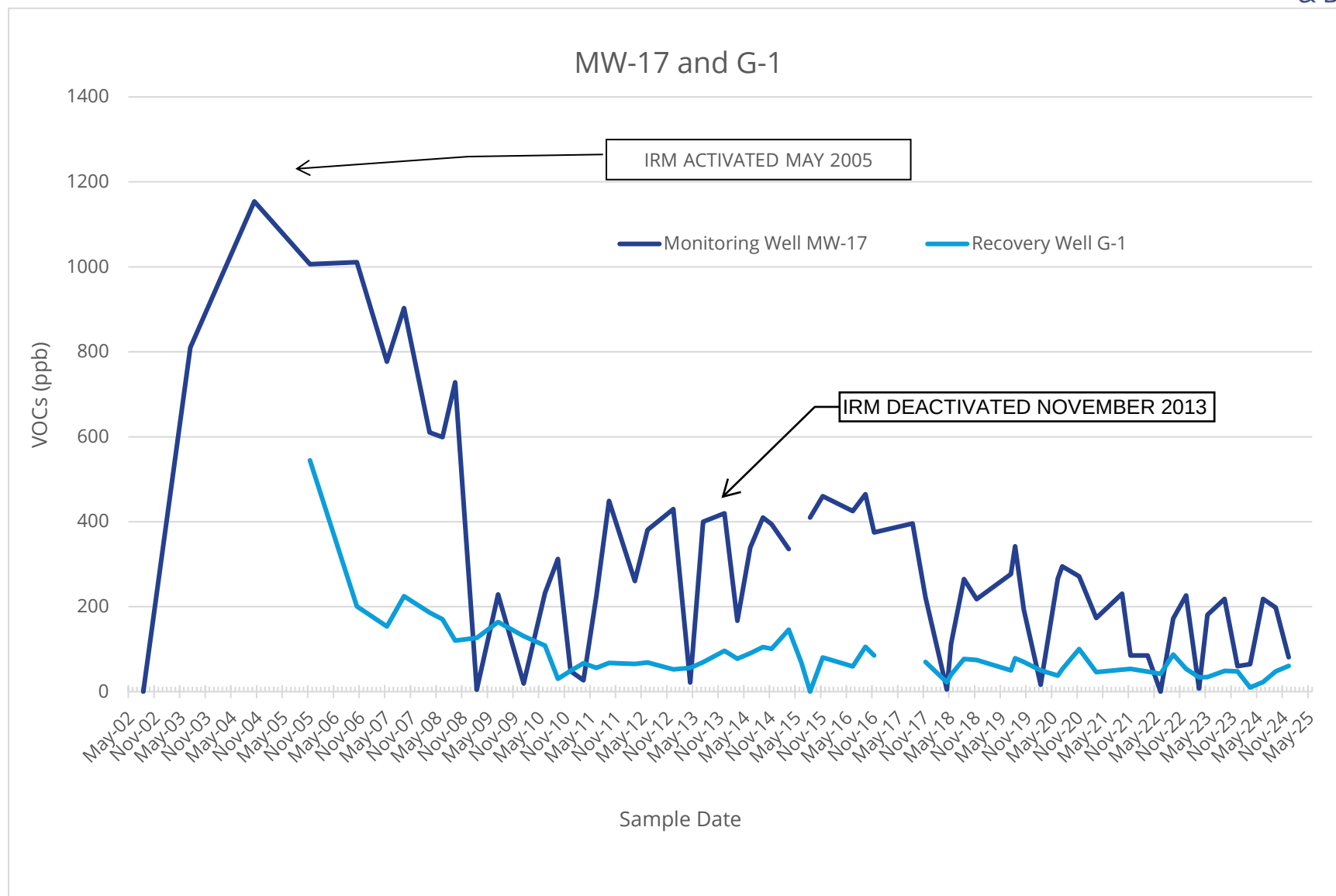


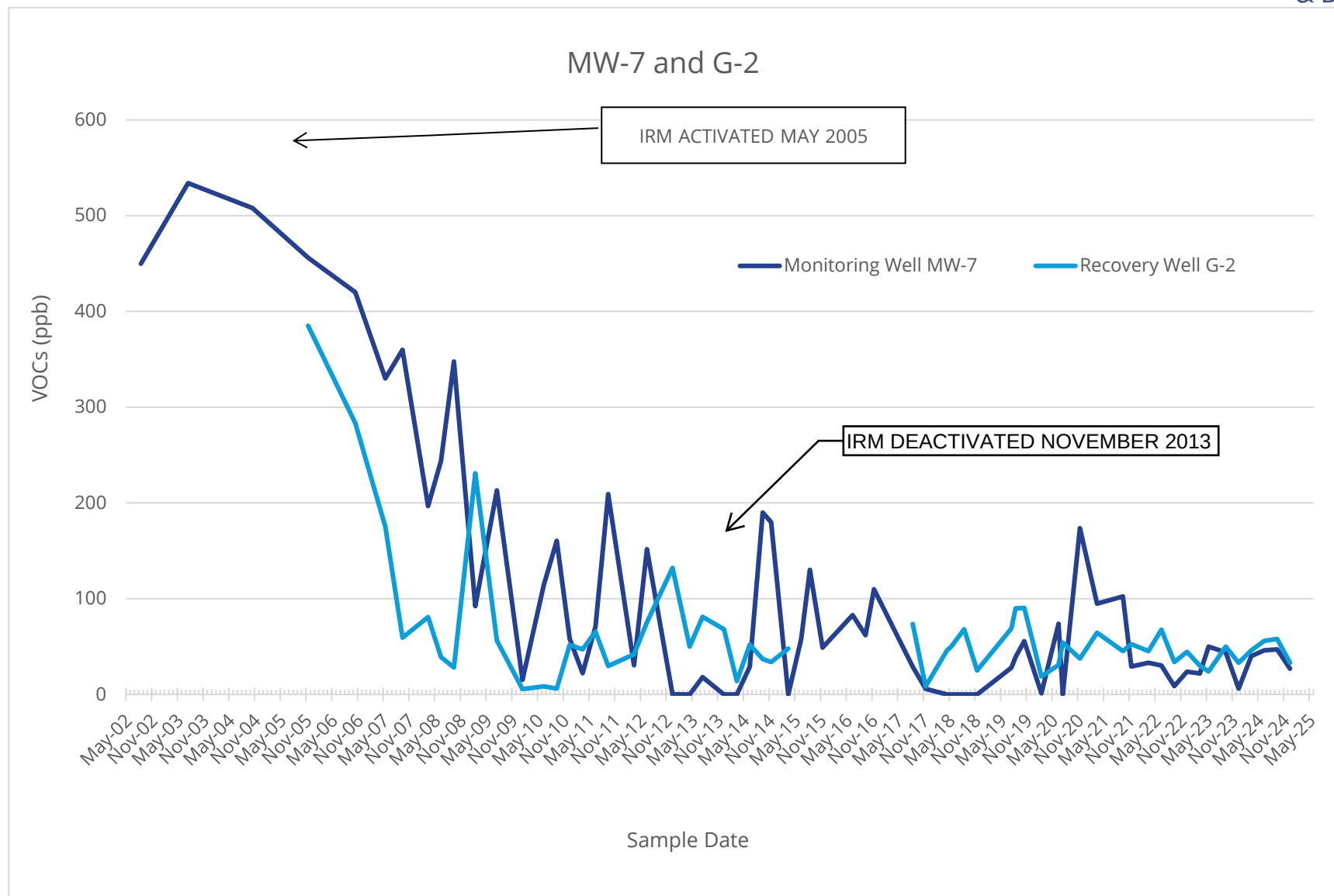




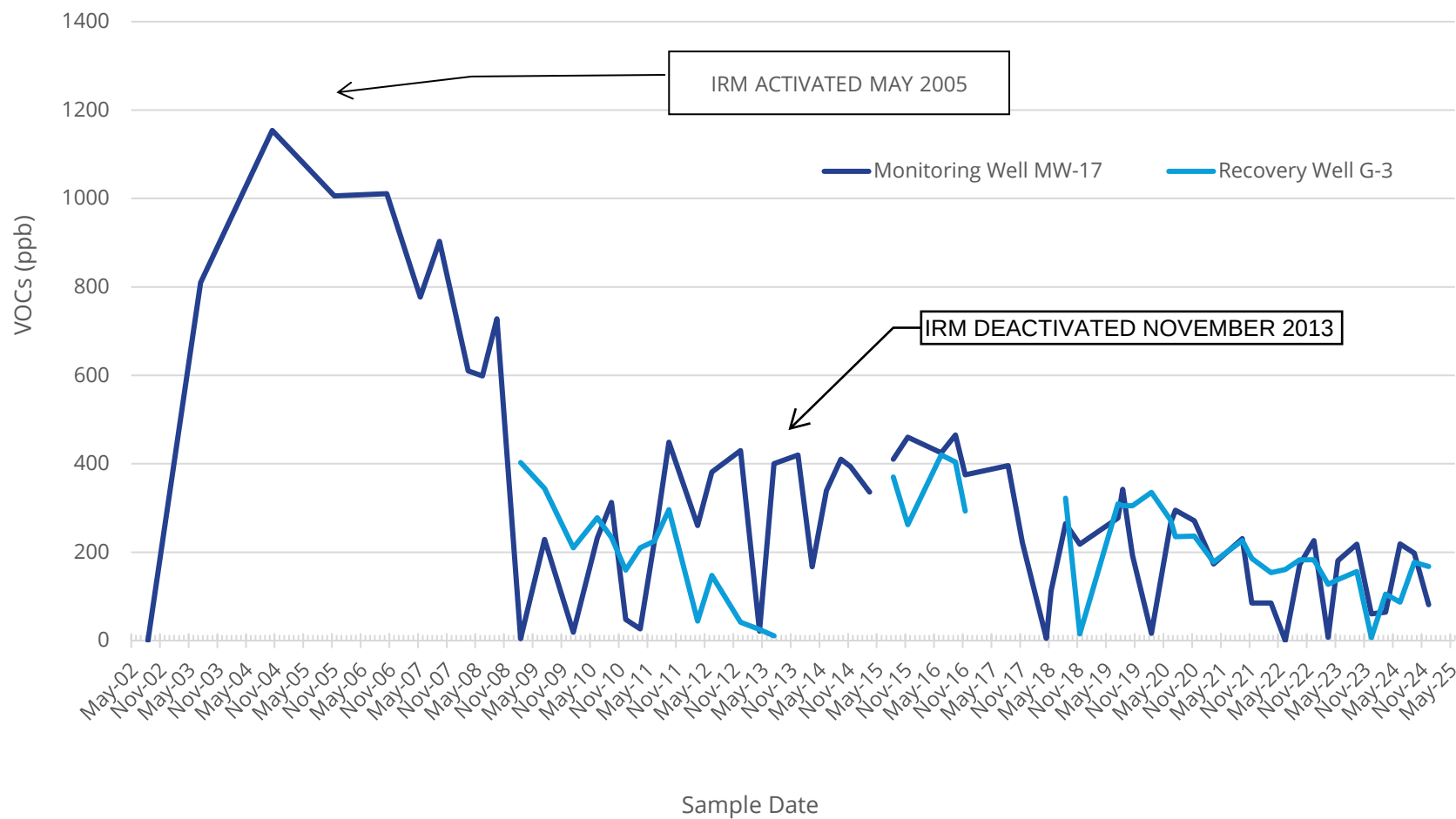








MW-17 and G-3



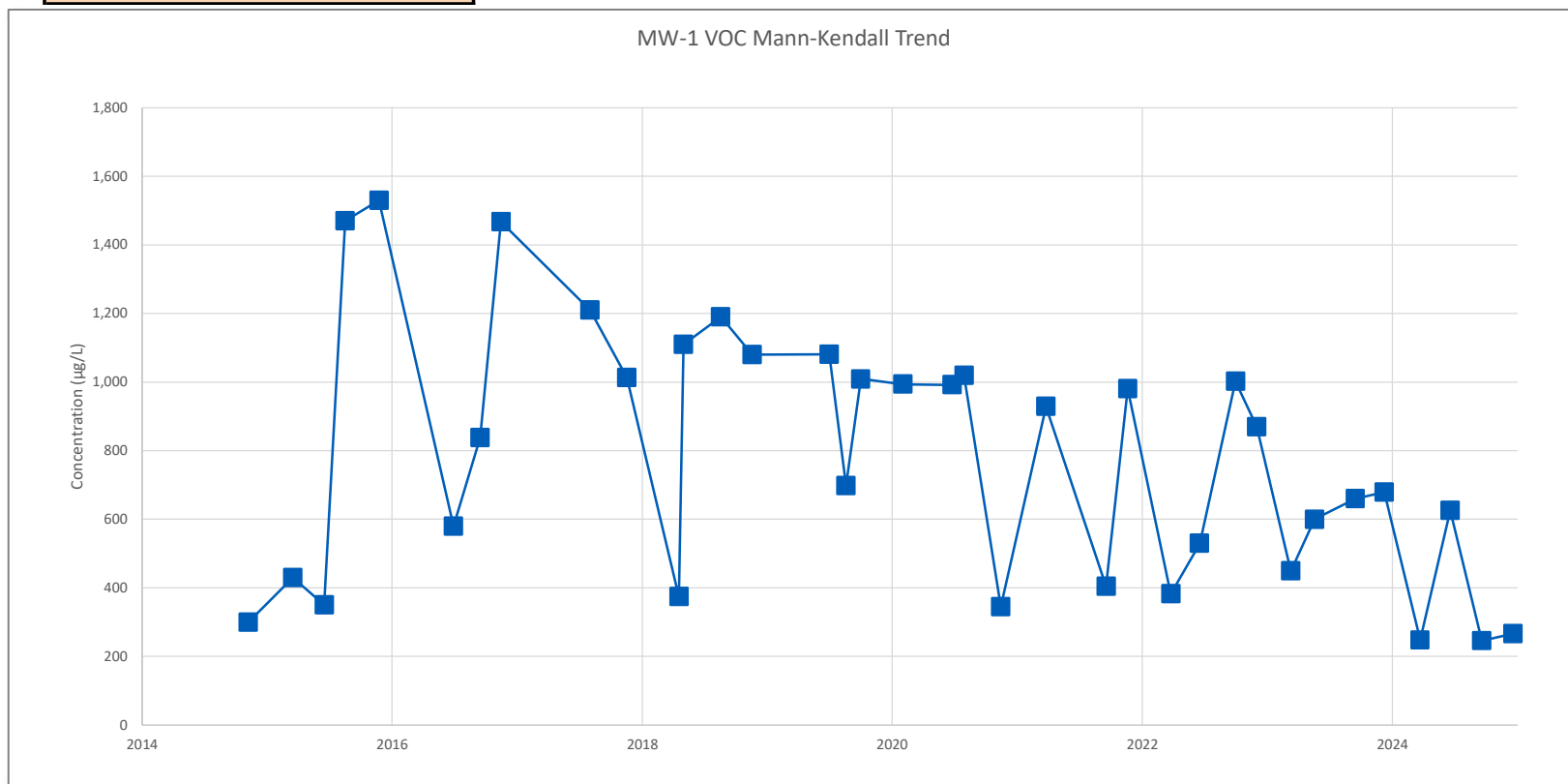
MANN KENDALL TEST

[illegible]

Mann-Kendall Results	
n:	36
S:	-202
SES:	73.42
Z:	-2.74
Confidence Factor:	>99%
Coefficient of Variation:	0.48
Conclusion:	Decreasing Trend

Mann-Kendall	Statistical Confidence	Trend Conclusion
$S > 0$	$\geq 90\%$	Increasing
$S > 0$	$< 90\%$	More Data Needed
$S \leq 0$	$< 90\%$ and $\text{COV} \geq 1$	More Data Needed
$S \leq 0$	$< 90\%$ $\text{COV} < 1$	Stable
$S < 0$	$\geq 90\%$	Decreasing

Trend Threshold:	90%

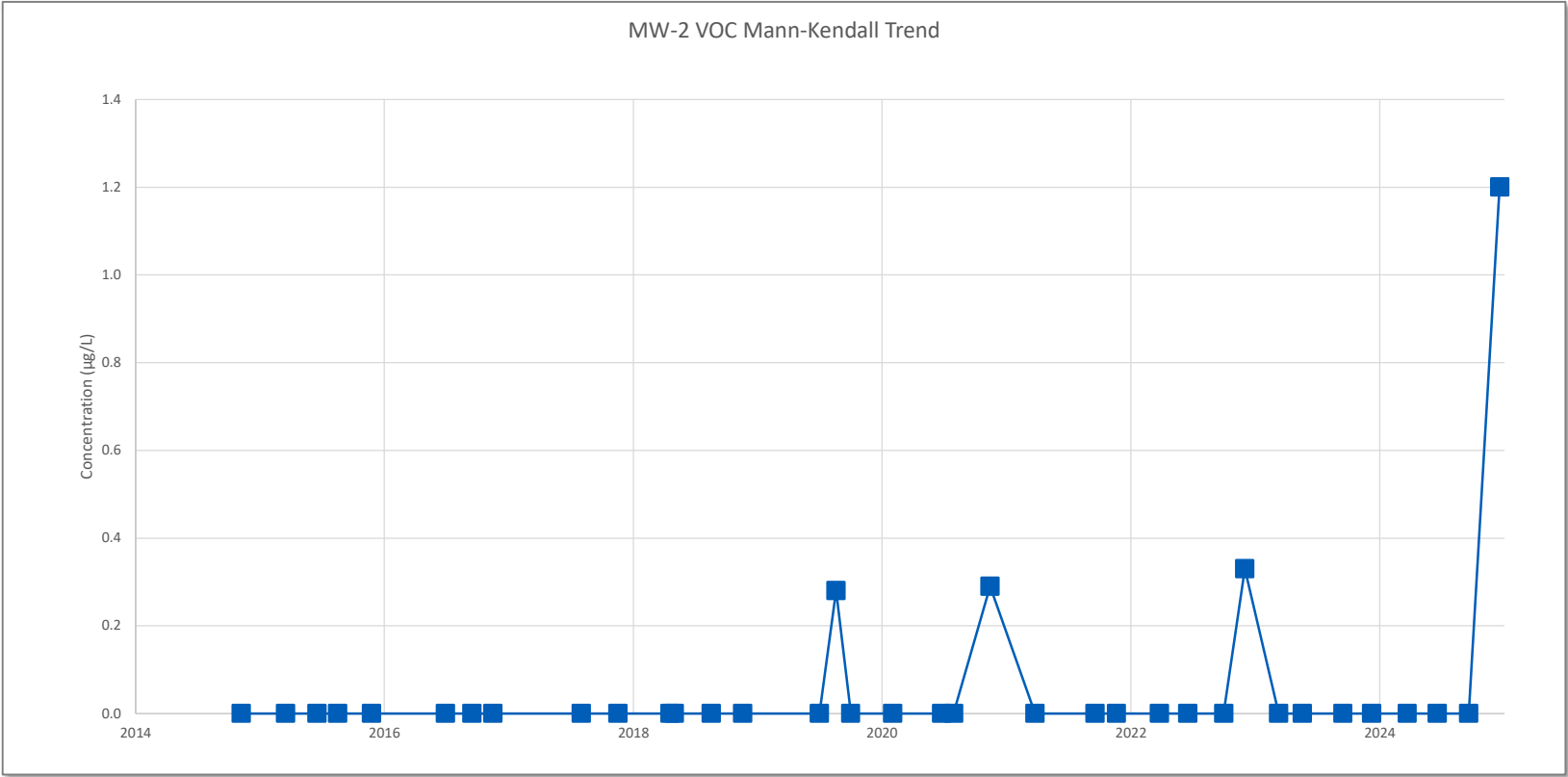


Data Set ID:	MW-2 VOC	
Units:	µg/L	
Event #	Date	Value
1	11/07/2014	0.00
2	03/17/2015	0.00
3	06/17/2015	0.00
4	08/17/2015	0.00
5	11/24/2015	0.00
6	06/28/2016	0.00
7	09/14/2016	0.00
8	11/14/2016	0.00
9	08/01/2017	0.00
10	11/17/2017	0.00
11	04/18/2018	0.00
12	05/01/2018	0.00
13	08/18/2018	0.00
14	11/18/2018	0.00
15	07/01/2019	0.00
16	08/19/2019	0.28
17	10/01/2019	0.00
18	02/01/2020	0.00
19	06/24/2020	0.00
20	07/29/2020	0.00
21	11/13/2020	0.29
22	03/25/2021	0.00
23	09/17/2021	0.00
24	11/19/2021	0.00
25	03/25/2022	0.00
26	06/17/2022	0.00
27	09/30/2022	0.00
28	12/01/2022	0.33
29	03/10/2023	0.00
30	05/19/2023	0.00
31	09/15/2023	0.00
32	12/08/2023	0.00
33	03/22/2024	0.00
34	06/18/2024	0.00
35	09/18/2024	0.00
36	12/18/2024	1.20

Mann-Kendall Results	
n:	36
S:	60
SES:	39.84
Z:	1.48
Confidence Factor:	93%
Coefficient of Variation:	3.65
Conclusion:	Increasing Trend

Trend Threshold:	90%

Mann-Kendall	Statistical Confidence	Trend Conclusion
$S > 0$	$\geq 90\%$	Increasing
$S > 0$	$< 90\%$	More Data Needed
$S \leq 0$	$< 90\%$ and $COV \geq 1$	More Data Needed
$S \leq 0$	$< 90\%$ $COV < 1$	Stable
$S < 0$	$\geq 90\%$	Decreasing

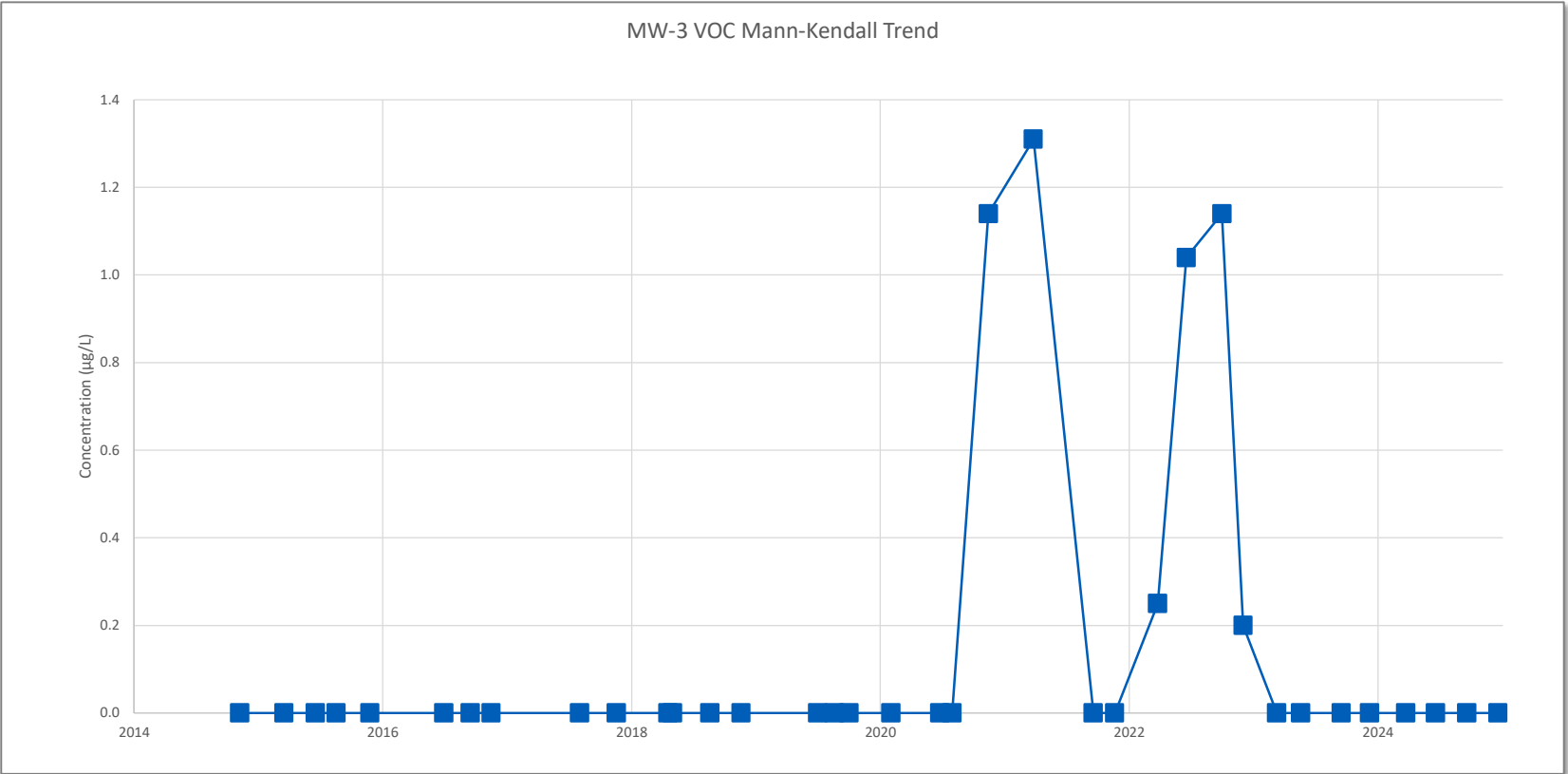


Data Set ID:	MW-3 VOC	
Units:	µg/L	
Event #	Date	Value
1	11/07/2014	0.00
2	03/17/2015	0.00
3	06/17/2015	0.00
4	08/17/2015	0.00
5	11/24/2015	0.00
6	06/28/2016	0.00
7	09/14/2016	0.00
8	11/14/2016	0.00
9	08/01/2017	0.00
10	11/17/2017	0.00
11	04/18/2018	0.00
12	05/01/2018	0.00
13	08/18/2018	0.00
14	11/18/2018	0.00
15	07/01/2019	0.00
16	08/19/2019	0.00
17	10/01/2019	0.00
18	02/01/2020	0.00
19	06/24/2020	0.00
20	07/29/2020	0.00
21	11/13/2020	1.14
22	03/25/2021	1.31
23	09/17/2021	0.00
24	11/19/2021	0.00
25	03/25/2022	0.25
26	06/17/2022	1.04
27	09/30/2022	1.14
28	12/01/2022	0.20
29	03/10/2023	0.00
30	05/19/2023	0.00
31	09/15/2023	0.00
32	12/08/2023	0.00
33	03/22/2024	0.00
34	06/18/2024	0.00
35	09/18/2024	0.00
36	12/18/2024	0.00

Mann-Kendall Results	
n:	36
S:	70
SES:	47.41
Z:	1.46
Confidence Factor:	93%
Coefficient of Variation:	2.62
Conclusion:	Increasing Trend

Trend Threshold:	90%

Mann-Kendall	Statistical Confidence	Trend Conclusion
$S > 0$	$\geq 90\%$	Increasing
$S > 0$	$< 90\%$	More Data Needed
$S \leq 0$	$< 90\%$ and $COV \geq 1$	More Data Needed
$S \leq 0$	$< 90\%$ $COV < 1$	Stable
$S < 0$	$\geq 90\%$	Decreasing

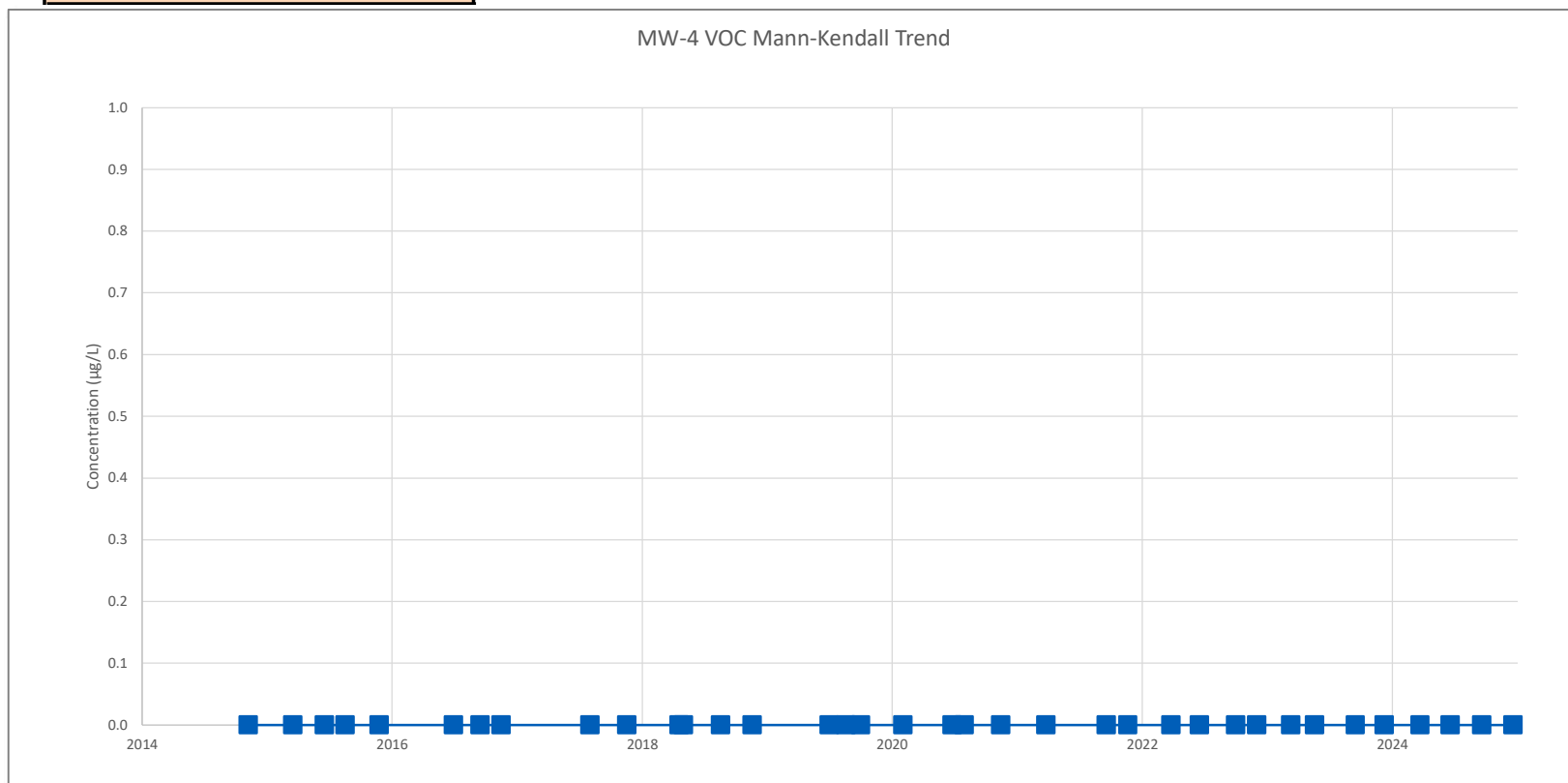


[illegible]

Mann-Kendall Results	
n:	36
S:	0
SES:	0.00
Z:	0.00
Confidence Factor:	50%
Coefficient of Variation:	Undefined
Conclusion:	Stable

Mann-Kendall	Statistical Confidence	Trend Conclusion
$S > 0$	$\geq 90\%$	Increasing
$S > 0$	$< 90\%$	More Data Needed
$S \leq 0$	$< 90\%$ and $COV \geq 1$	More Data Needed
$S \leq 0$	$< 90\%$ $COV < 1$	Stable
$S < 0$	$\geq 90\%$	Decreasing

Trend Threshold:	90%



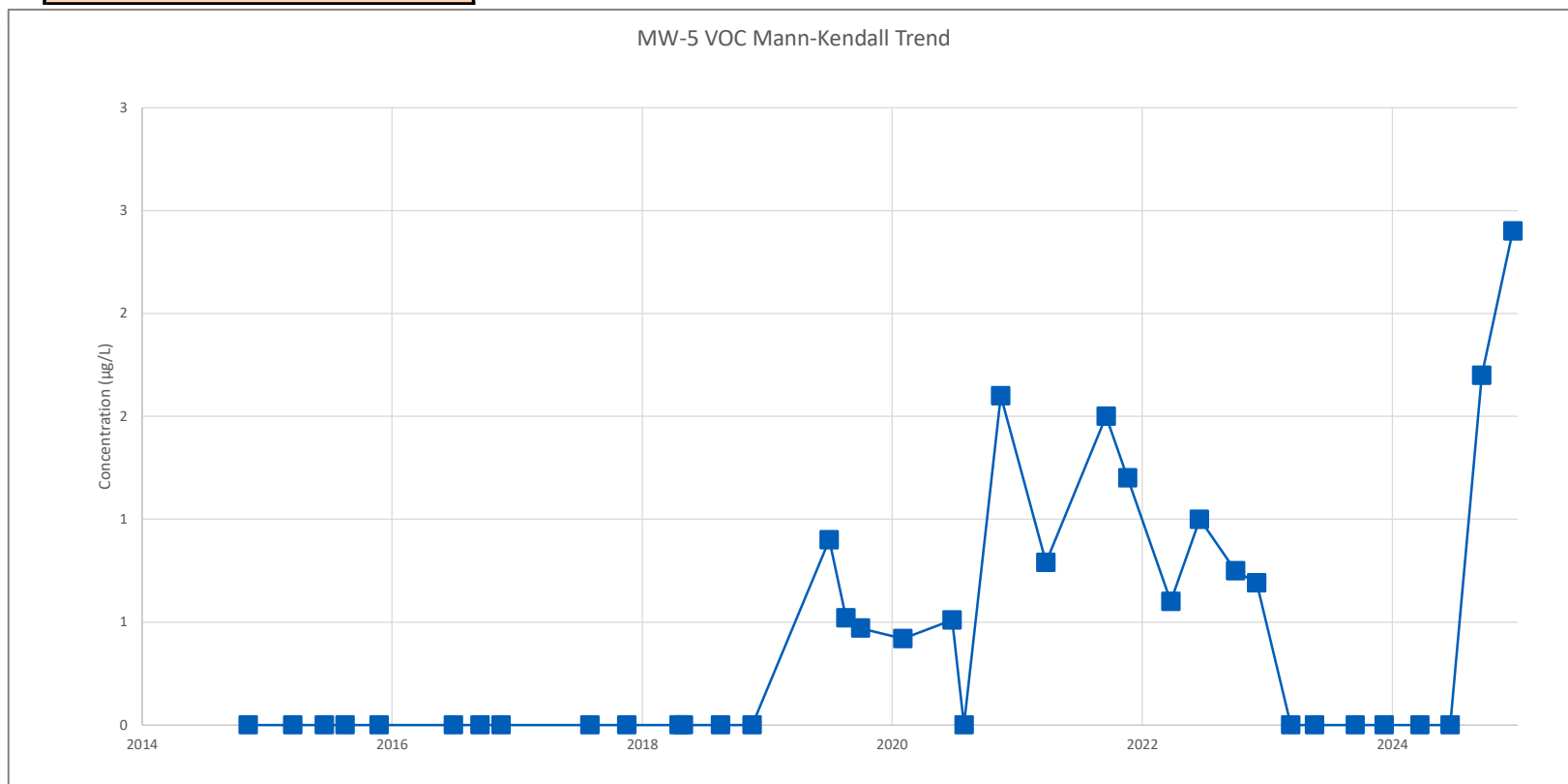
[illegible]

Event #	Date	Value
1	11/07/2014	0.00
2	03/17/2015	0.00
3	06/17/2015	0.00
4	08/17/2015	0.00
5	11/24/2015	0.00
6	06/28/2016	0.00
7	09/14/2016	0.00
8	11/14/2016	0.00
9	08/01/2017	0.00
10	11/17/2017	0.00
11	04/18/2018	0.00
12	05/01/2018	0.00
13	08/18/2018	0.00
14	11/18/2018	0.00
15	07/01/2019	0.90
16	08/19/2019	0.52
17	10/01/2019	0.47
18	02/01/2020	0.42
19	06/24/2020	0.51
20	07/29/2020	0.00
21	11/13/2020	1.60
22	03/25/2021	0.79
23	09/17/2021	1.50
24	11/19/2021	1.20
25	03/25/2022	0.60
26	06/17/2022	1.00
27	09/30/2022	0.75
28	12/01/2022	0.69
29	03/10/2023	0.00
30	05/19/2023	0.00
31	09/15/2023	0.00
32	12/08/2023	0.00
33	03/22/2024	0.00
34	06/18/2024	0.00
35	09/18/2024	1.70
36	12/18/2024	2.40

Mann-Kendall Results	
n:	36
S:	184
SES:	65.52
Z:	2.79
Confidence Factor:	>99%
Coefficient of Variation:	5.55
Conclusion:	Increasing Trend

Trend Threshold:	90%

Mann-Kendall	Statistical Confidence	Trend Conclusion
$S > 0$	$\geq 90\%$	Increasing
$S > 0$	$< 90\%$	More Data Needed
$S \leq 0$	$< 90\%$ and $COV \geq 1$	More Data Needed
$S \leq 0$	$< 90\%$ $COV < 1$	Stable
$S < 0$	$\geq 90\%$	Decreasing

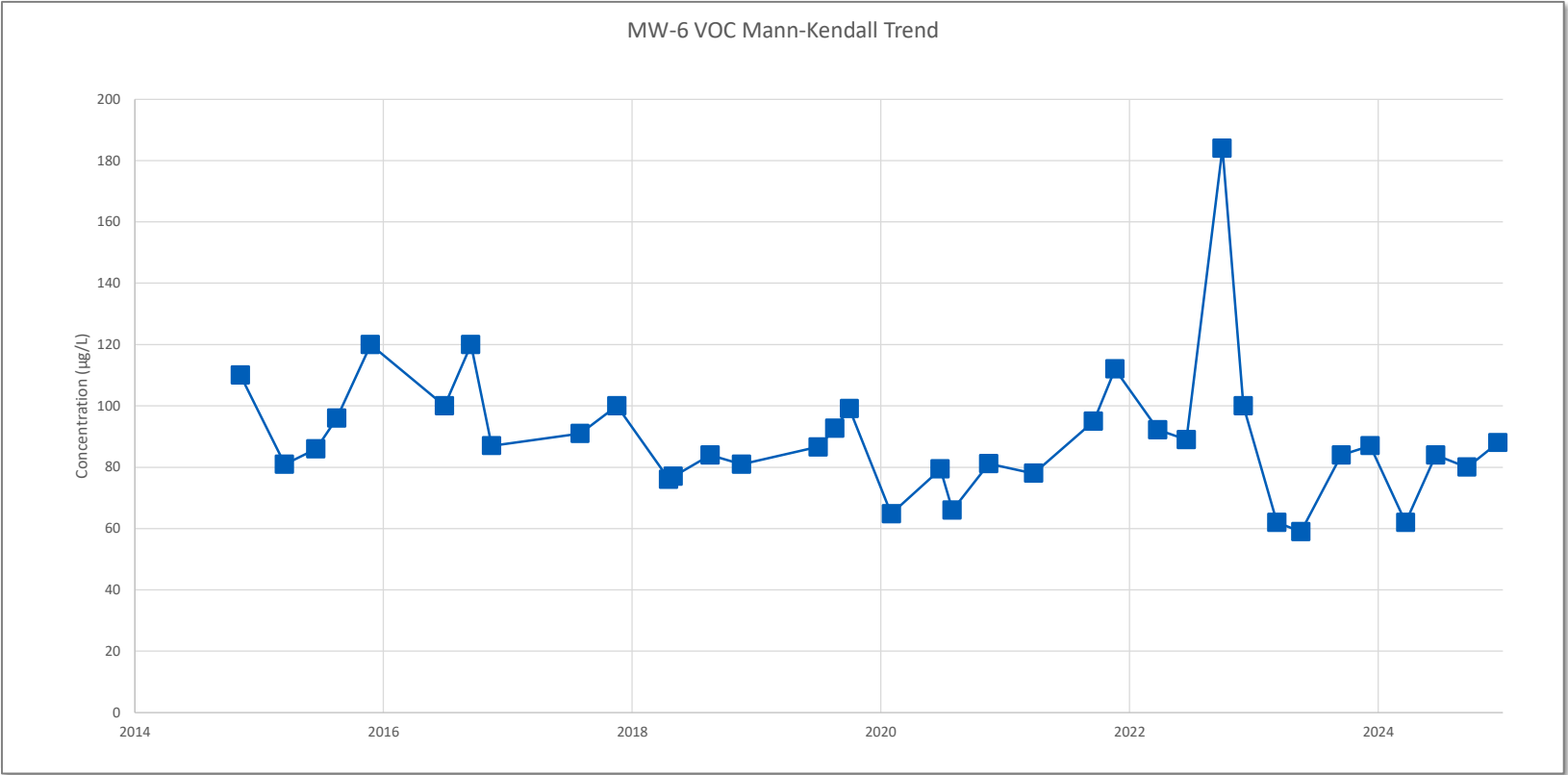


Data Set ID:	MW-6 VOC	
Units:	µg/L	
Event #	Date	Value
1	11/07/2014	110.00
2	03/17/2015	81.00
3	06/17/2015	86.00
4	08/17/2015	96.00
5	11/24/2015	120.00
6	06/28/2016	100.00
7	09/14/2016	120.00
8	11/14/2016	87.00
9	08/01/2017	91.00
10	11/17/2017	100.00
11	04/18/2018	76.00
12	05/01/2018	77.00
13	08/18/2018	84.00
14	11/18/2018	81.00
15	07/01/2019	86.63
16	08/19/2019	92.64
17	10/01/2019	99.10
18	02/01/2020	64.80
19	06/24/2020	79.41
20	07/29/2020	66.00
21	11/13/2020	81.20
22	03/25/2021	78.00
23	09/17/2021	95.00
24	11/19/2021	112.00
25	03/25/2022	92.21
26	06/17/2022	89.00
27	09/30/2022	184.00
28	12/01/2022	100.00
29	03/10/2023	62.00
30	05/19/2023	59.00
31	09/15/2023	84.00
32	12/08/2023	87.00
33	03/22/2024	62.00
34	06/18/2024	84.00
35	09/18/2024	80.00
36	12/18/2024	88.00

Mann-Kendall Results	
n:	36
S:	-122
SES:	73.34
Z:	-1.65
Confidence Factor:	95%
Coefficient of Variation:	0.24
Conclusion:	Decreasing Trend

Trend Threshold:	90%

Mann-Kendall	Statistical Confidence	Trend Conclusion
$S > 0$	$\geq 90\%$	Increasing
$S > 0$	$< 90\%$	More Data Needed
$S \leq 0$	$< 90\%$ and $COV \geq 1$	More Data Needed
$S \leq 0$	$< 90\%$ $COV < 1$	Stable
$S < 0$	$\geq 90\%$	Decreasing

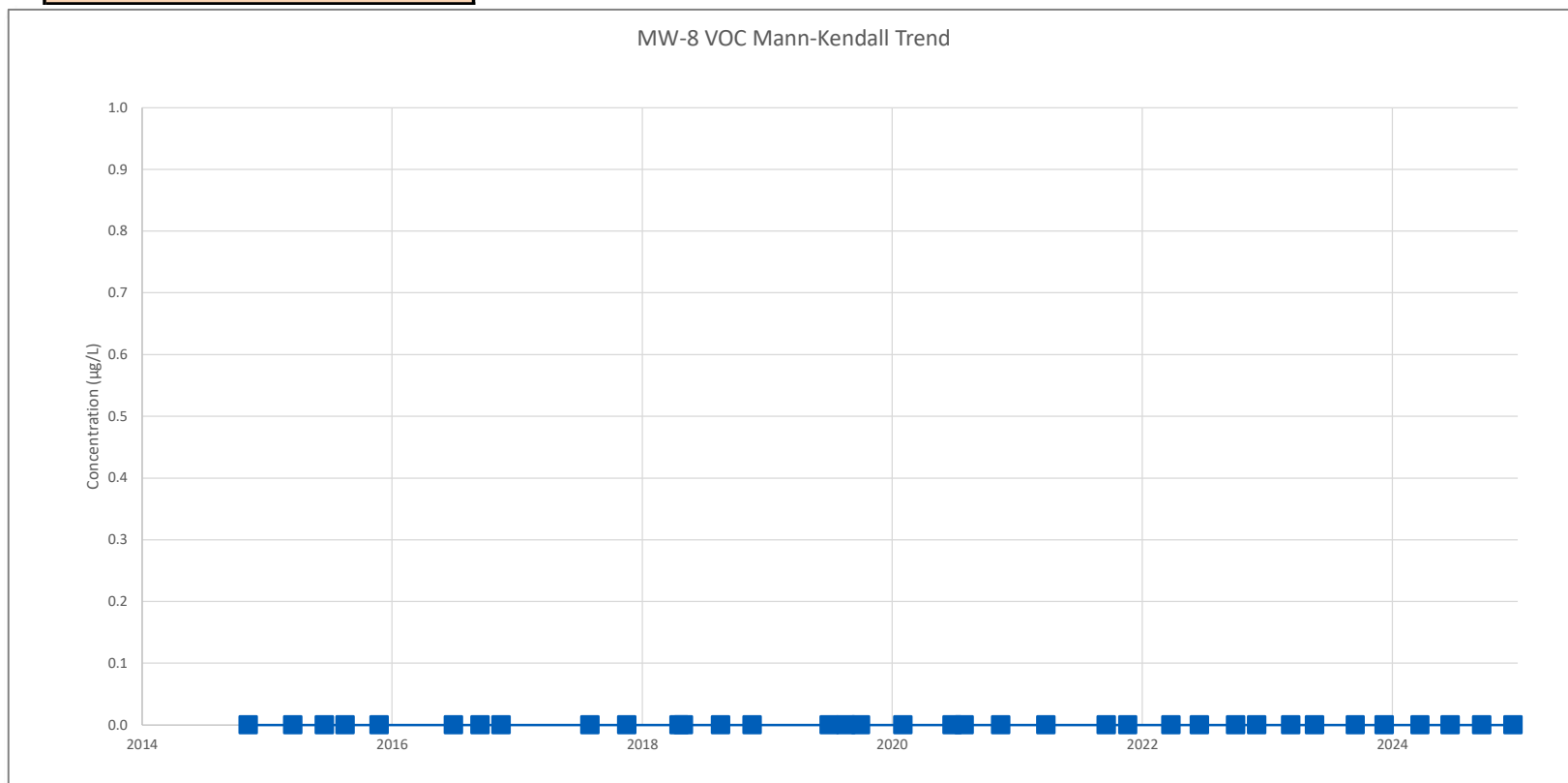


[illegible]

Mann-Kendall Results	
n:	36
S:	0
SES:	0.00
Z:	0.00
Confidence Factor:	50%
Coefficient of Variation:	Undefined
Conclusion:	Stable

Mann-Kendall	Statistical Confidence	Trend Conclusion
$S > 0$	$\geq 90\%$	Increasing
$S > 0$	$< 90\%$	More Data Needed
$S \leq 0$	$< 90\%$ and $COV \geq 1$	More Data Needed
$S \leq 0$	$< 90\%$ $COV < 1$	Stable
$S < 0$	$\geq 90\%$	Decreasing

Trend Threshold:	90%

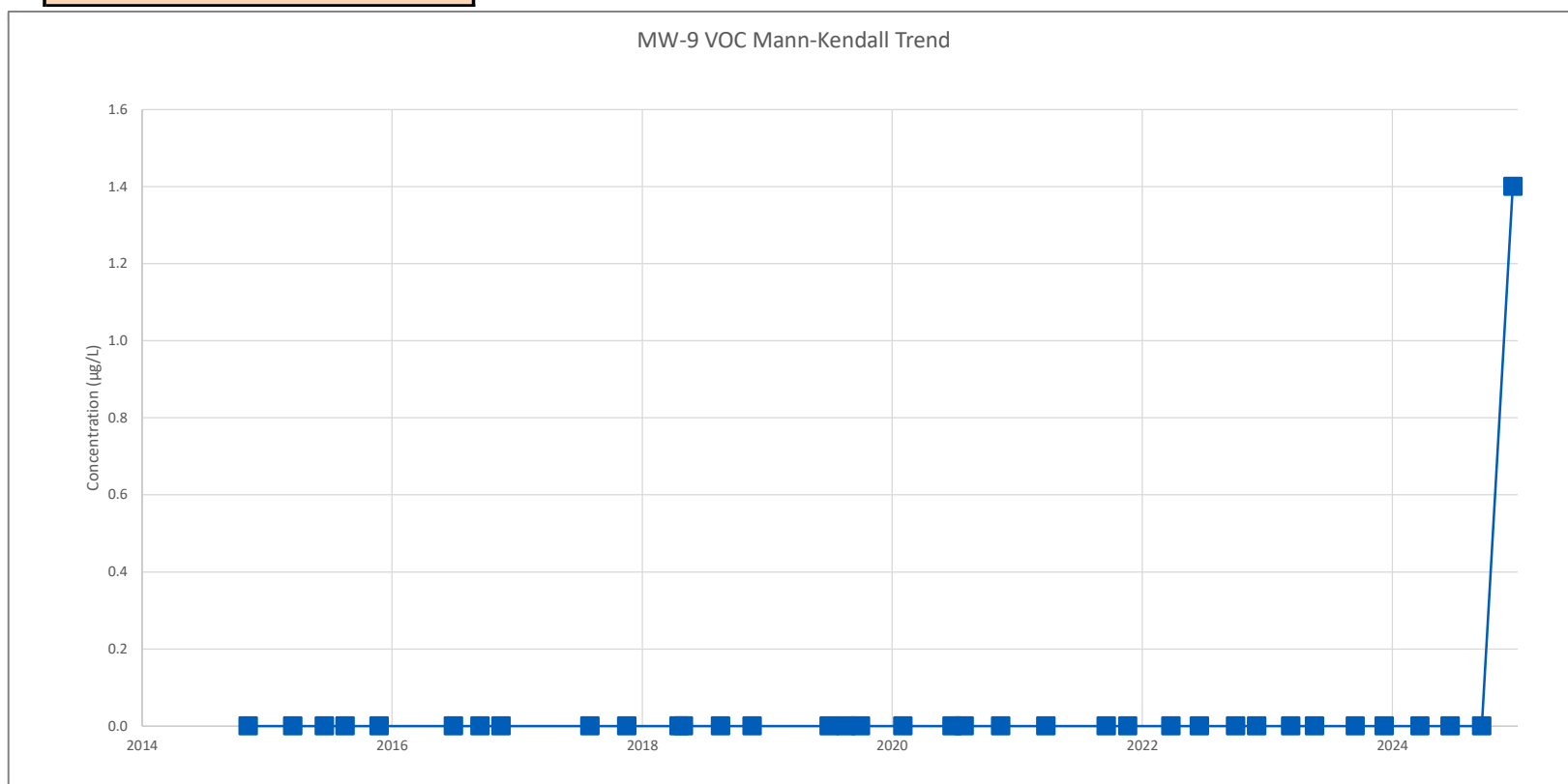


[illegible]

Mann-Kendall Results	
n:	36
S:	35
SES:	20.78
Z:	1.64
Confidence Factor:	95%
Coefficient of Variation:	6.00
Conclusion:	Increasing Trend

Trend Threshold:	90%

Mann-Kendall	Statistical Confidence	Trend Conclusion
$S > 0$	$\geq 90\%$	Increasing
$S > 0$	$< 90\%$	More Data Needed
$S \leq 0$	$< 90\%$ and $COV \geq 1$	More Data Needed
$S \leq 0$	$< 90\%$ $COV < 1$	Stable
$S < 0$	$\geq 90\%$	Decreasing

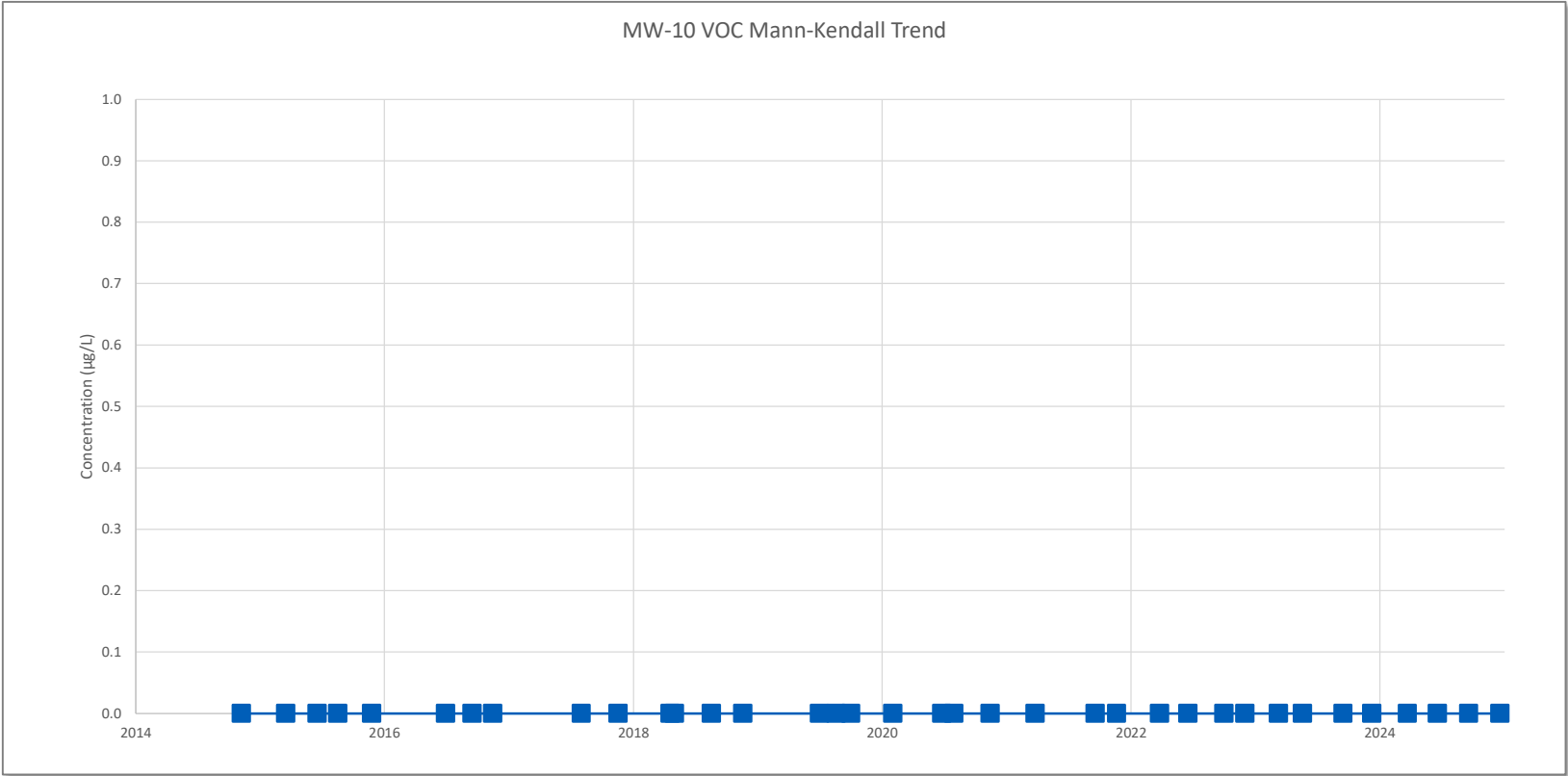


Data Set ID:	MW-10 VOC	
Units:	µg/L	
Event #	Date	Value
1	11/07/2014	0.00
2	03/17/2015	0.00
3	06/17/2015	0.00
4	08/17/2015	0.00
5	11/24/2015	0.00
6	06/28/2016	0.00
7	09/14/2016	0.00
8	11/14/2016	0.00
9	08/01/2017	0.00
10	11/17/2017	0.00
11	04/18/2018	0.00
12	05/01/2018	0.00
13	08/18/2018	0.00
14	11/18/2018	0.00
15	07/01/2019	0.00
16	08/19/2019	0.00
17	10/01/2019	0.00
18	02/01/2020	0.00
19	06/24/2020	0.00
20	07/29/2020	0.00
21	11/13/2020	0.00
22	03/25/2021	0.00
23	09/17/2021	0.00
24	11/19/2021	0.00
25	03/25/2022	0.00
26	06/17/2022	0.00
27	09/30/2022	0.00
28	12/01/2022	0.00
29	03/10/2023	0.00
30	05/19/2023	0.00
31	09/15/2023	0.00
32	12/08/2023	0.00
33	03/22/2024	0.00
34	06/18/2024	0.00
35	09/18/2024	0.00
36	12/18/2024	0.00

Mann-Kendall Results		
n:	36	
S:	0	
SES:	0.00	
Z:	0.00	
Confidence Factor:	50%	
Coefficient of Variation:	Undefined	
Conclusion:	Stable	

Mann-Kendall	Statistical Confidence	Trend Conclusion
S > 0	≥ 90%	Increasing
S > 0	< 90%	More Data Needed
S ≤ 0	< 90% and COV ≥ 1	More Data Needed
S ≤ 0	< 90% COV < 1	Stable
S < 0	≥ 90%	Decreasing

Trend Threshold:	90%

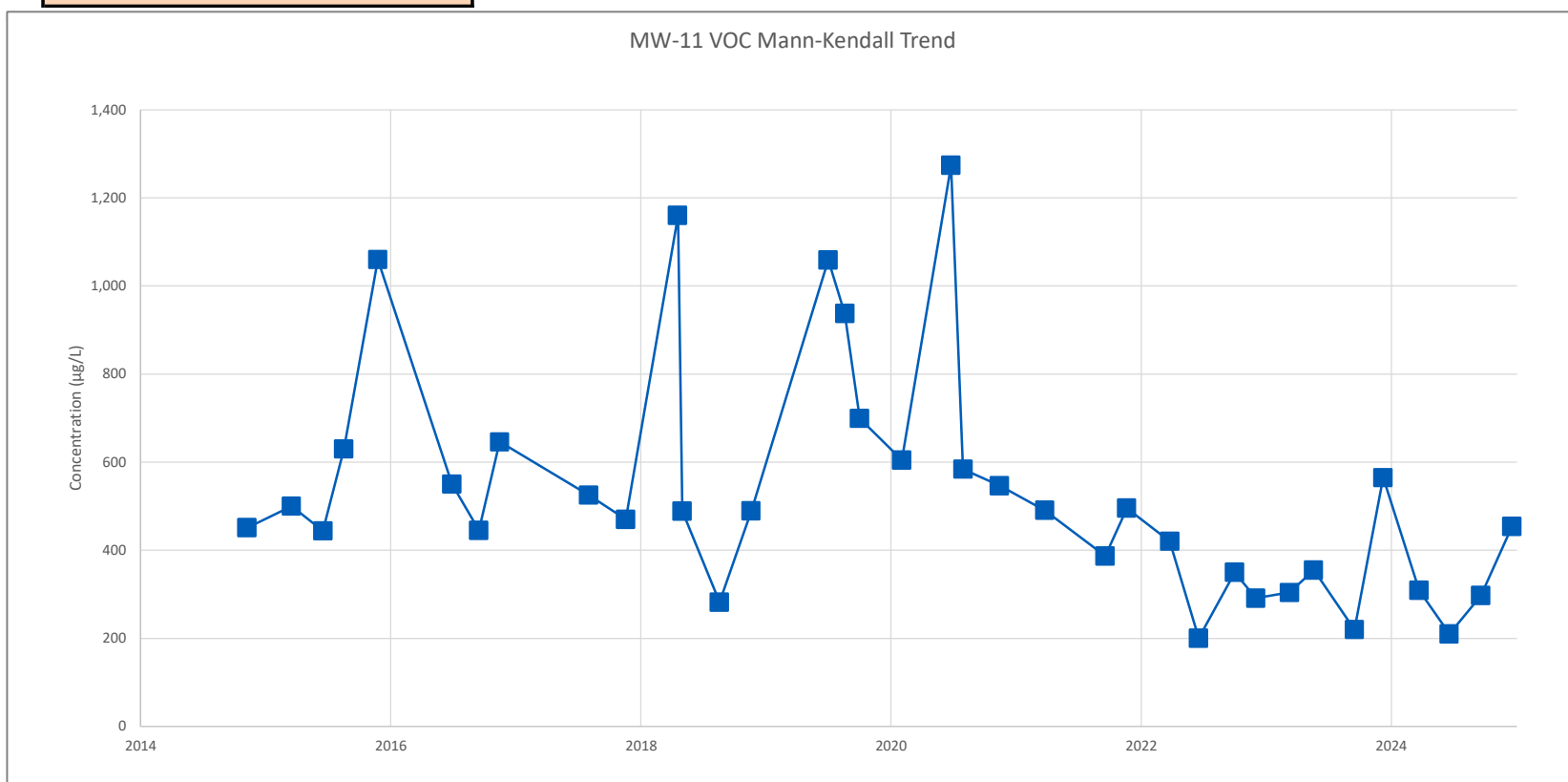


[illegible]

Mann-Kendall Results	
n:	36
S:	-216
SES:	73.42
Z:	-2.93
Confidence Factor:	>99%
Coefficient of Variation:	0.50
Conclusion:	Decreasing Trend

Mann-Kendall	Statistical Confidence	Trend Conclusion
$S > 0$	$\geq 90\%$	Increasing
$S > 0$	$< 90\%$	More Data Needed
$S \leq 0$	$< 90\%$ and $COV \geq 1$	More Data Needed
$S \leq 0$	$< 90\%$ $COV < 1$	Stable
$S < 0$	$\geq 90\%$	Decreasing

Trend Threshold:	90%

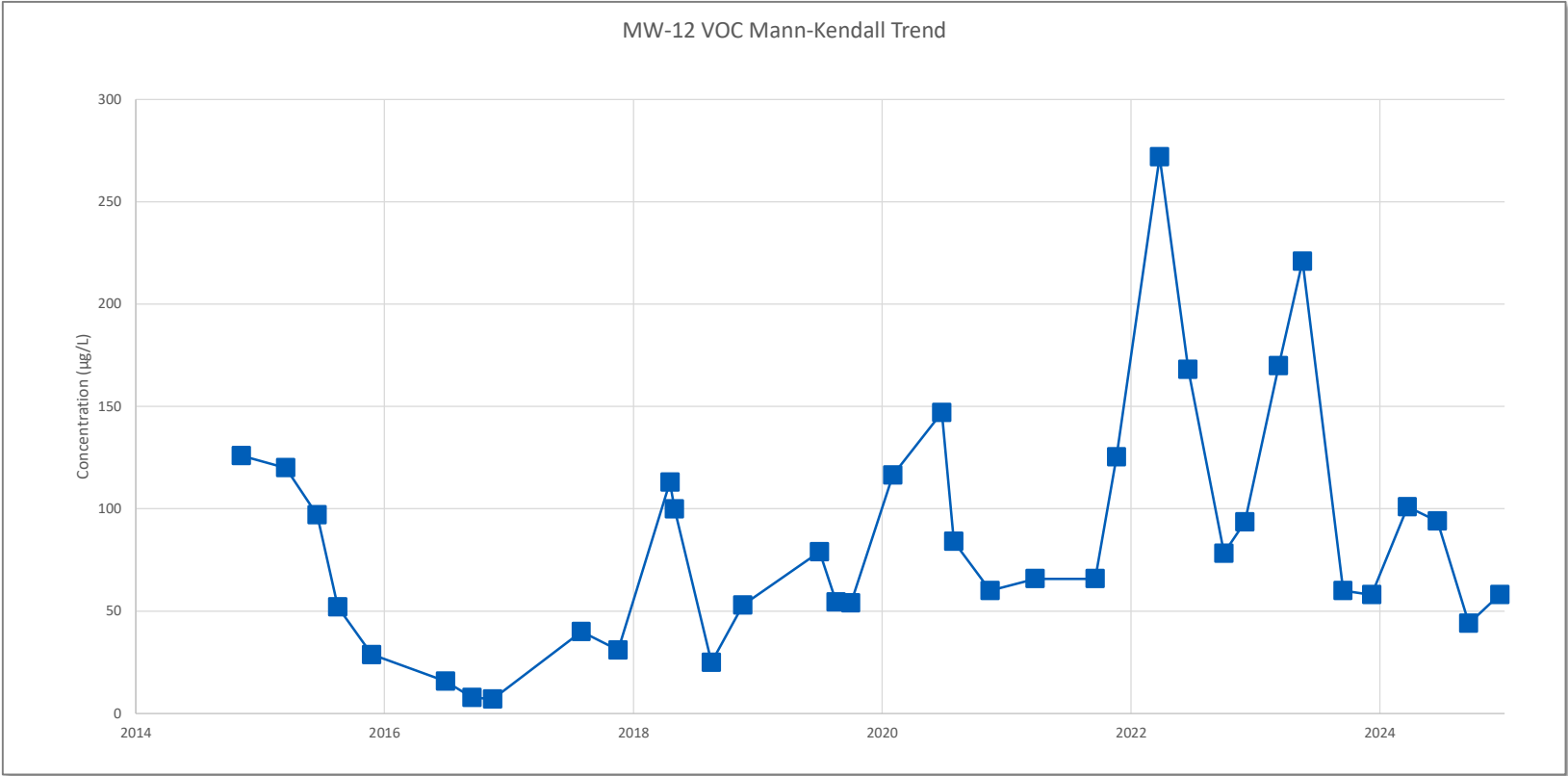


Data Set ID:	MW-12 VOC	
Units:	µg/L	
Event #	Date	Value
1	11/07/2014	126.00
2	03/17/2015	120.00
3	06/17/2015	97.00
4	08/17/2015	52.00
5	11/24/2015	28.80
6	06/28/2016	15.80
7	09/14/2016	7.80
8	11/14/2016	7.10
9	08/01/2017	40.00
10	11/17/2017	31.00
11	04/18/2018	113.00
12	05/01/2018	100.00
13	08/18/2018	25.00
14	11/18/2018	53.00
15	07/01/2019	79.00
16	08/19/2019	54.48
17	10/01/2019	54.00
18	02/01/2020	116.54
19	06/24/2020	147.03
20	07/29/2020	84.00
21	11/13/2020	60.05
22	03/25/2021	65.88
23	09/17/2021	65.86
24	11/19/2021	125.40
25	03/25/2022	271.90
26	06/17/2022	168.10
27	09/30/2022	78.30
28	12/01/2022	93.65
29	03/10/2023	170.00
30	05/19/2023	221.00
31	09/15/2023	60.00
32	12/08/2023	58.00
33	03/22/2024	101.00
34	06/18/2024	94.00
35	09/18/2024	44.00
36	12/18/2024	58.10

Mann-Kendall Results	
n:	36
S:	132
SES:	73.42
Z:	1.78
Confidence Factor:	96%
Coefficient of Variation:	0.67
Conclusion:	Increasing Trend

Trend Threshold:	90%

Mann-Kendall	Statistical Confidence	Trend Conclusion
S > 0	≥ 90%	Increasing
S > 0	< 90%	More Data Needed
S ≤ 0	< 90% and COV ≥ 1	More Data Needed
S ≤ 0	< 90% COV < 1	Stable
S < 0	≥ 90%	Decreasing

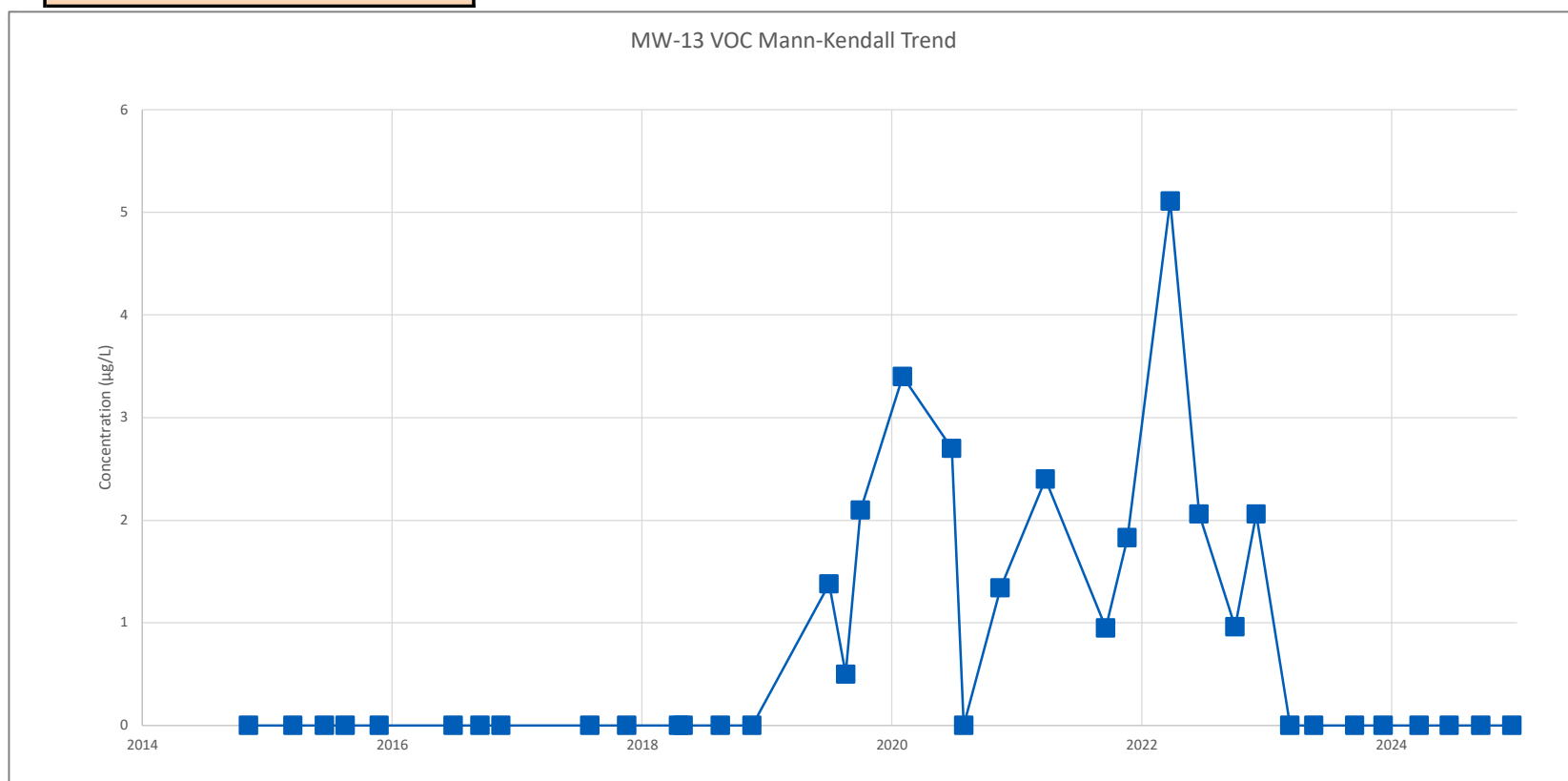


[illegible]

Mann-Kendall Results	
n:	36
S:	84
SES:	62.89
Z:	1.32
Confidence Factor:	91%
Coefficient of Variation:	1.65
Conclusion:	Increasing Trend

Mann-Kendall	Statistical Confidence	Trend Conclusion
$S > 0$	$\geq 90\%$	Increasing
$S > 0$	$< 90\%$	More Data Needed
$S \leq 0$	$< 90\%$ and $\text{COV} \geq 1$	More Data Needed
$S \leq 0$	$< 90\%$ $\text{COV} < 1$	Stable
$S < 0$	$\geq 90\%$	Decreasing

Trend Threshold:	90%

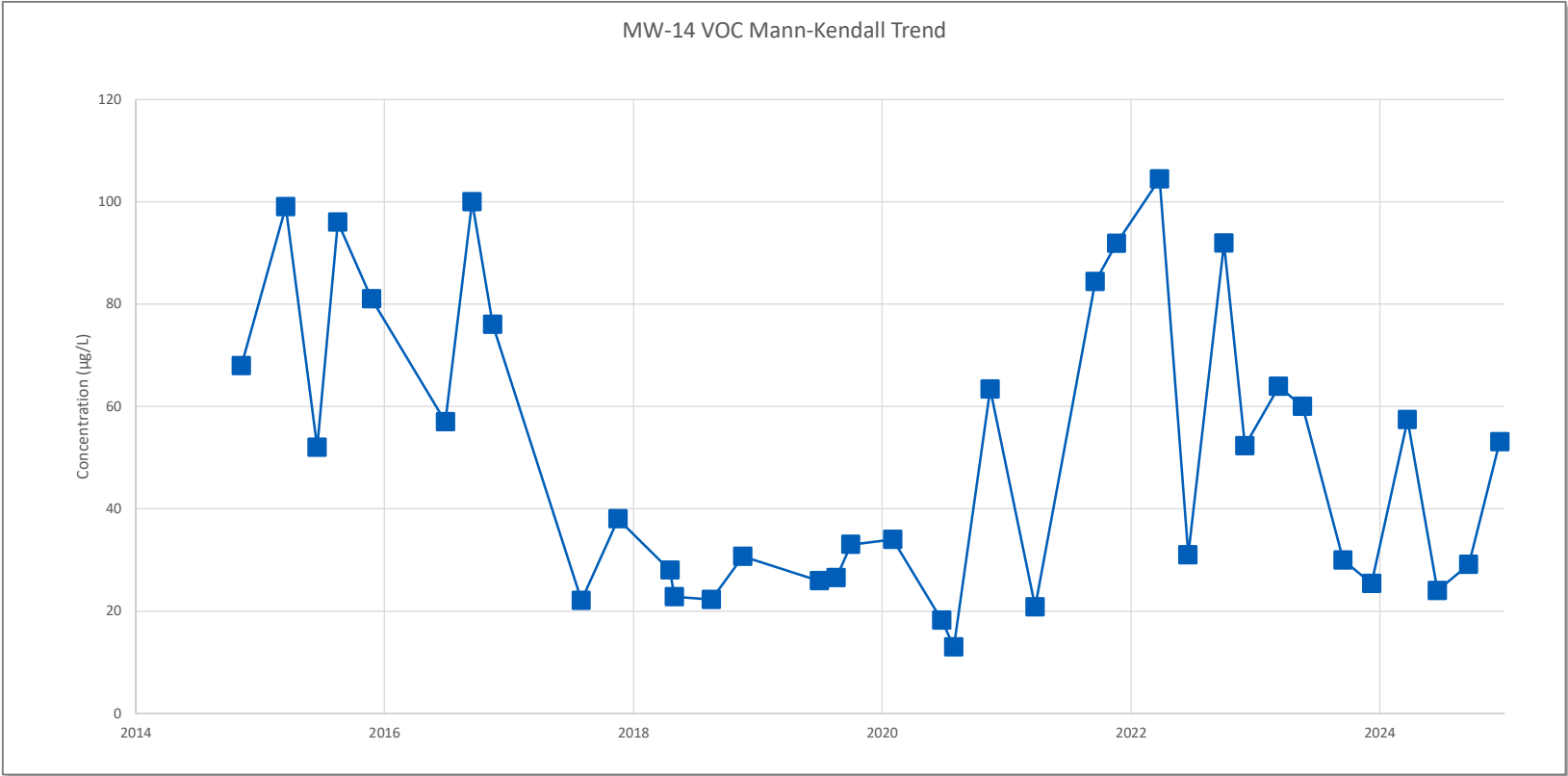


Data Set ID:	MW-14 VOC	
Units:	µg/L	
Event #	Date	Value
1	11/07/2014	68.00
2	03/17/2015	99.00
3	06/17/2015	52.00
4	08/17/2015	96.00
5	11/24/2015	81.00
6	06/28/2016	57.00
7	09/14/2016	100.00
8	11/14/2016	76.00
9	08/01/2017	22.10
10	11/17/2017	38.00
11	04/18/2018	28.00
12	05/01/2018	22.80
13	08/18/2018	22.30
14	11/18/2018	30.70
15	07/01/2019	25.90
16	08/19/2019	26.50
17	10/01/2019	33.00
18	02/01/2020	34.00
19	06/24/2020	18.20
20	07/29/2020	13.00
21	11/13/2020	63.40
22	03/25/2021	20.80
23	09/17/2021	84.40
24	11/19/2021	91.86
25	03/25/2022	104.45
26	06/17/2022	31.00
27	09/30/2022	91.90
28	12/01/2022	52.30
29	03/10/2023	63.90
30	05/19/2023	60.00
31	09/15/2023	30.00
32	12/08/2023	25.40
33	03/22/2024	57.40
34	06/18/2024	24.00
35	09/18/2024	29.10
36	12/18/2024	53.10

Mann-Kendall Results	
n:	36
S:	-76
SES:	73.42
Z:	-1.02
Confidence Factor:	85%
Coefficient of Variation:	0.56
Conclusion:	Stable

Mann-Kendall	Statistical Confidence	Trend Conclusion
S > 0	≥ 90%	Increasing
S > 0	< 90%	More Data Needed
S ≤ 0	< 90% and COV ≥ 1	More Data Needed
S ≤ 0	< 90% COV < 1	Stable
S < 0	≥ 90%	Decreasing

Trend Threshold:	90%



[illegible]

Units:	µg/L

1	11/07/2014	32.00
2	03/17/2015	9.80
3	06/17/2015	8.10
4	08/17/2015	14.00
5	11/24/2015	9.90
6	06/28/2016	11.00
7	09/14/2016	23.80
8	11/14/2016	11.00
9	08/01/2017	7.40
10	11/17/2017	0.00
11	04/18/2018	0.00
12	05/01/2018	0.00
13	08/18/2018	6.50
14	11/18/2018	0.00
15	07/01/2019	4.90
16	08/19/2019	8.10
17	10/01/2019	7.60
18	02/01/2020	2.90
19	06/24/2020	5.00
20	07/29/2020	0.00
21	11/13/2020	25.80
22	03/25/2021	2.60
23	09/17/2021	24.80
24	11/19/2021	15.60
25	03/25/2022	9.40
26	06/17/2022	14.10
27	09/30/2022	3.70
28	12/01/2022	5.20
29	03/10/2023	0.00
30	05/19/2023	6.90
31	09/15/2023	5.90
32	12/08/2023	0.00
33	03/22/2024	0.00
34	06/18/2024	0.00
35	09/18/2024	3.10
36	12/18/2024	5.30

Mann-Kendall Results	
n:	36
S:	-168
SES:	72.77
Z:	-2.29
Confidence Factor:	99%
Coefficient of Variation:	1.03
Conclusion:	Decreasing Trend

n:	36
S:	-168
SES:	72.77
Z:	-2.29
Confidence Factor:	99%
Coefficient of Variation:	1.03
Conclusion:	Decreasing Trend

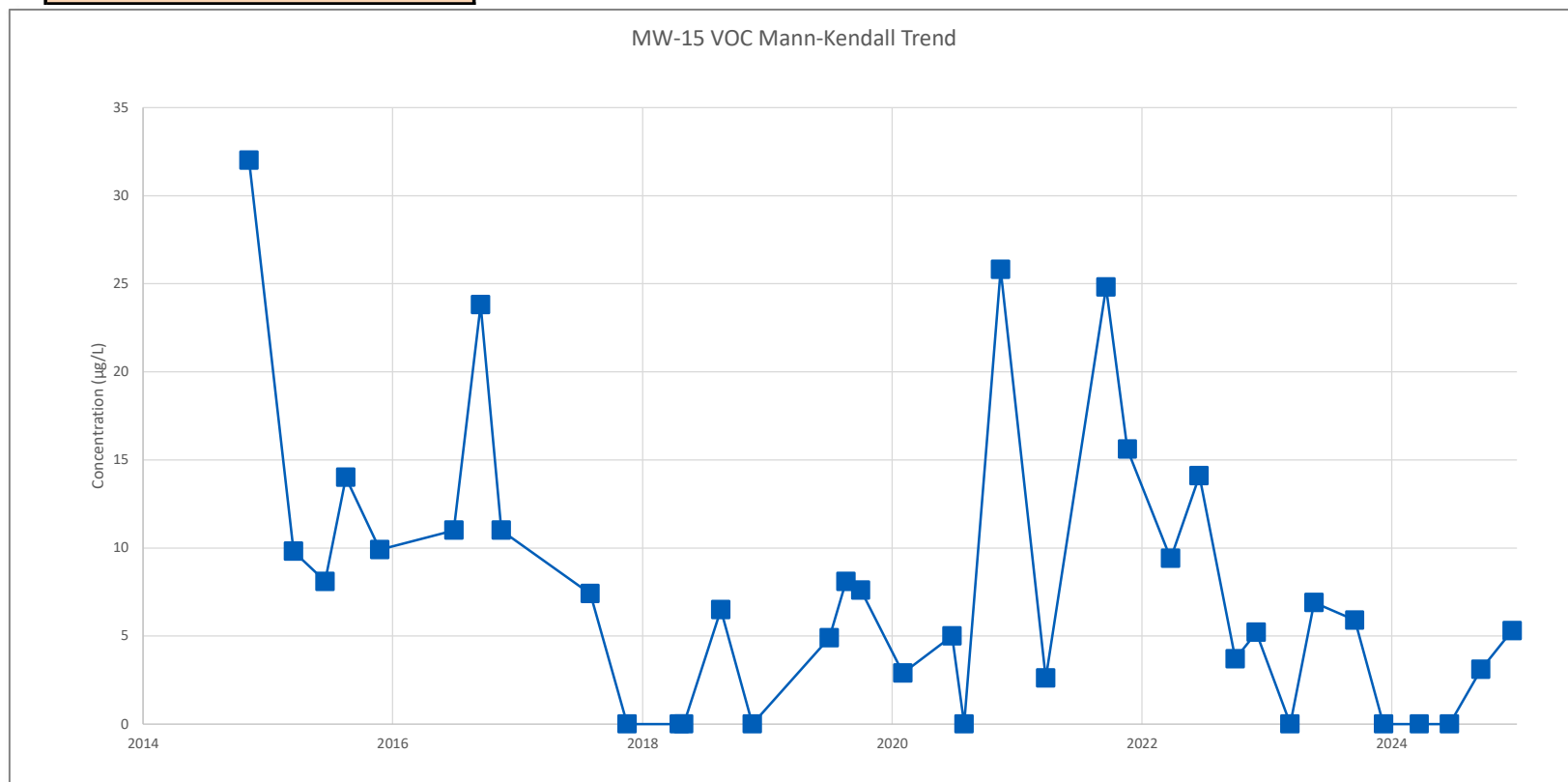
Trend Threshold:	90%

Mann-Kendall	Statistical Confidence	Trend Conclusion
$S > 0$	$\geq 90\%$	Increasing
$S > 0$	$< 90\%$	More Data Needed
$S \leq 0$	$< 90\%$ and $COV \geq 1$	More Data Needed
$S \leq 0$	$< 90\%$ $COV < 1$	Stable
$S < 0$	$\geq 90\%$	Decreasing

$S > 0$	$\geq 90\%$	Increasing

$S \leq 0$	$< 90\%$ and $COV \geq 1$	More Data Needed

$S < 0$	$\geq 90\%$	Decreasing

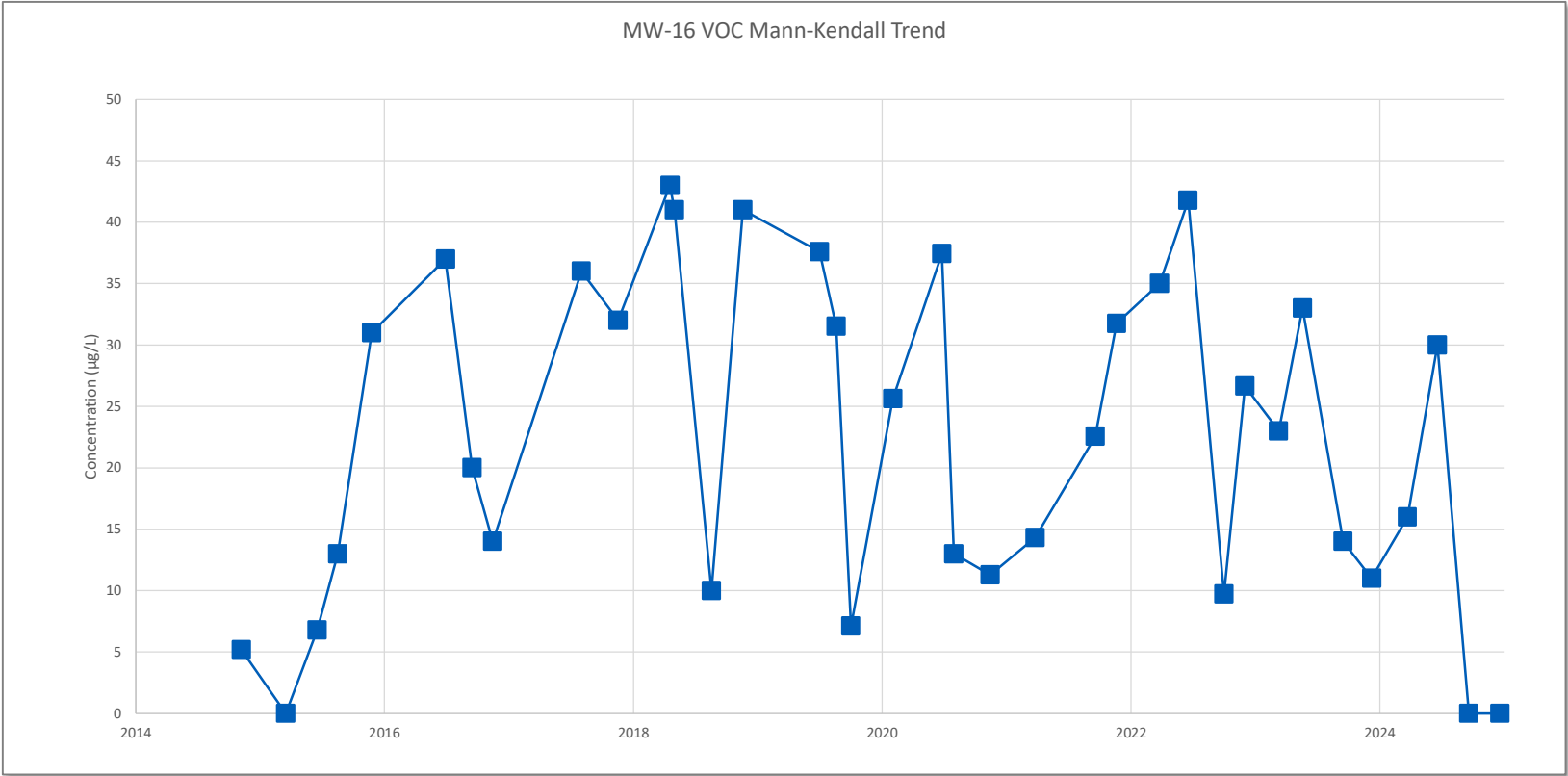


Data Set ID:	MW-16 VOC	
Units:	µg/L	
Event #	Date	Value
1	11/07/2014	5.20
2	03/17/2015	0.00
3	06/17/2015	6.80
4	08/17/2015	13.00
5	11/24/2015	31.00
6	06/28/2016	37.00
7	09/14/2016	20.00
8	11/14/2016	14.00
9	08/01/2017	36.00
10	11/17/2017	32.00
11	04/18/2018	43.00
12	05/01/2018	41.00
13	08/18/2018	10.00
14	11/18/2018	41.00
15	07/01/2019	37.61
16	08/19/2019	31.53
17	10/01/2019	7.11
18	02/01/2020	25.62
19	06/24/2020	37.43
20	07/29/2020	13.00
21	11/13/2020	11.29
22	03/25/2021	14.32
23	09/17/2021	22.56
24	11/19/2021	31.75
25	03/25/2022	35.02
26	06/17/2022	41.79
27	09/30/2022	9.72
28	12/01/2022	26.66
29	03/10/2023	23.00
30	05/19/2023	33.00
31	09/15/2023	14.00
32	12/08/2023	11.00
33	03/22/2024	16.00
34	06/18/2024	30.00
35	09/18/2024	0.00
36	12/18/2024	0.00

Mann-Kendall Results	
n:	36
S:	-28
SES:	73.37
Z:	-0.37
Confidence Factor:	64%
Coefficient of Variation:	0.60
Conclusion:	Stable

Mann-Kendall	Statistical Confidence	Trend Conclusion
S > 0	≥ 90%	Increasing
S > 0	< 90%	More Data Needed
S ≤ 0	< 90% and COV ≥ 1	More Data Needed
S ≤ 0	< 90% COV < 1	Stable
S < 0	≥ 90%	Decreasing

Trend Threshold:	90%

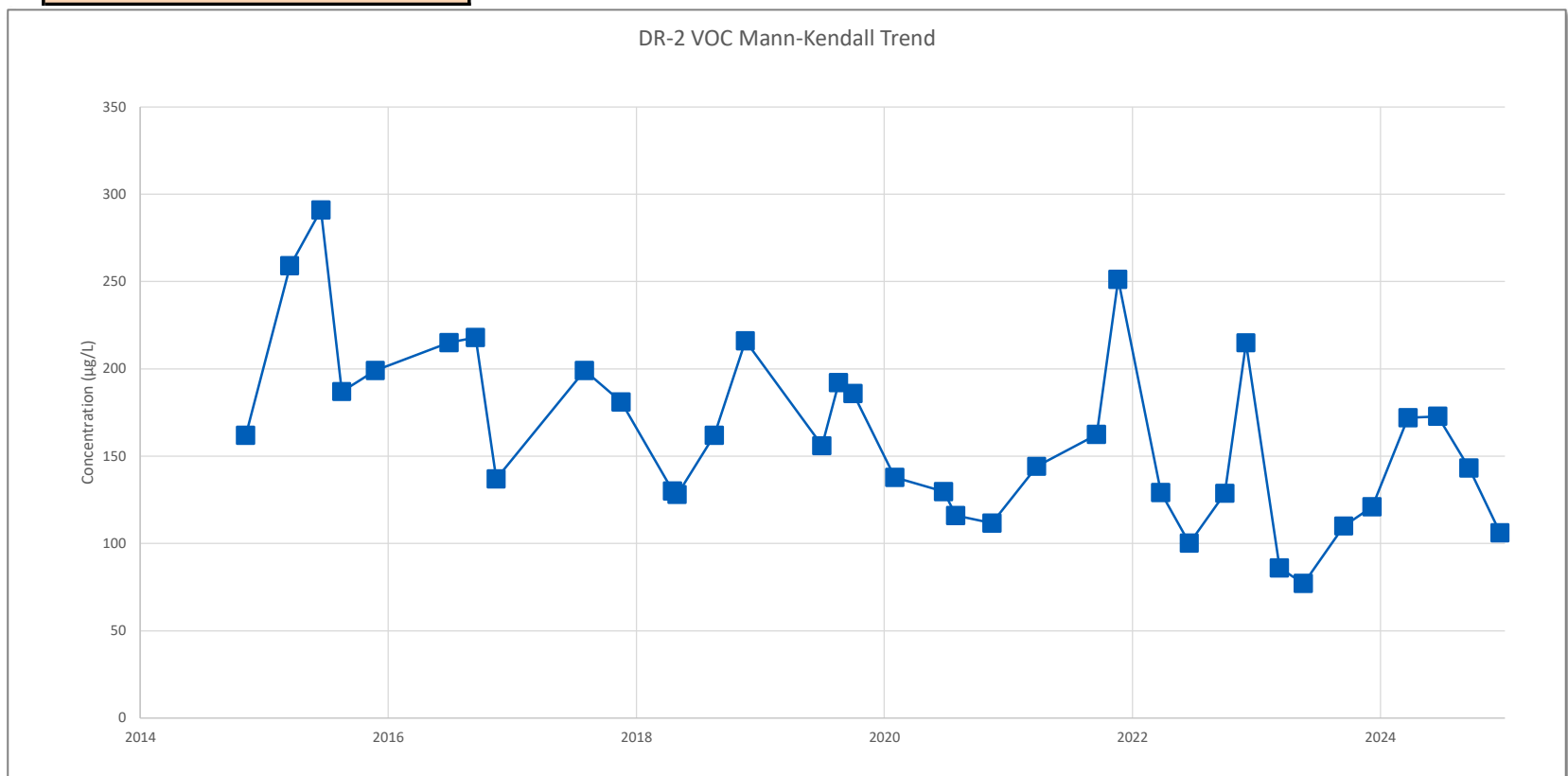


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Mann-Kendall Results	
n:	36
S:	-258
SES:	73.40
Z:	-3.50
Confidence Factor:	>99%
Coefficient of Variation:	0.31
Conclusion:	Decreasing Trend

Trend Threshold:	90%

Mann-Kendall	Statistical Confidence	Trend Conclusion
$S > 0$	$\geq 90\%$	Increasing
$S > 0$	$< 90\%$	More Data Needed
$S \leq 0$	$< 90\%$ and $COV \geq 1$	More Data Needed
$S \leq 0$	$< 90\%$ $COV < 1$	Stable
$S < 0$	$\geq 90\%$	Decreasing





APPENDIX A:

QUARTERLY FIELD FORMS AND CALIBRATION SHEETS

JUNE 2024
FIELD FORMS

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/18/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-1
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 7.15
Depth to bottom of the well: 16.02
Length of water column in well: 8.87

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.4458
3 Well volumes (= length water column X gal/foot X 3): 4.34
Actual volume purged prior to sampling: 4.5
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1362.8	NTU								
Temperature	15.8	°C								
pH	6.86									
Conductivity	0.536	SPC ms/cm								
Oxygen	4.77	DO mg/L								
Salinity										

Time sample was collected: 6:55

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/18/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-2
Location:
Casing Diameter: 2"

Depth to water, below top of casing: 6.89
Depth to bottom of the well: 17.15
Length of water column in well: 10.26

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.67
3 Well volumes (= length water column X gal/foot X 3): 5.02
Actual volume purged prior to sampling: 5.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1336.1	NTU								
Temperature	16.3	°C								
pH	6.85									
Conductivity	0.416	SPC ms/cm								
Oxygen	5.54	DO mg/L								
Salinity										

Time sample was collected: 7:25

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/18/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-3
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 7.45
Depth to bottom of the well: 16.30
Length of water column in well: 8.85

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.44
3 Well volumes (= length water column X gal/foot X 3): 4.33
Actual volume purged prior to sampling: 4.33
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	568.3	NTU								
Temperature	20.2	°C								
pH	6.7									
Conductivity	0.502	SPC ms/cm								
Oxygen	3.78	DO mg/L								
Salinity										

Time sample was collected: 10:25

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/18/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-4
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 7.72
Depth to bottom of the well: 15.78
Length of water column in well: 8.06

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.3138
3 Well volumes (= length water column X gal/foot X 3): 3.9413
Actual volume purged prior to sampling: 4.00
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1521	NTU								
Temperature	18	°C								
pH	7.1									
Conductivity	0.251	SPC ms/cm								
Oxygen	5.2	DO mg/L								
Salinity										

Time sample was collected: 10:53

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/18/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-5
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 11.39
Depth to bottom of the well: 13.95
Length of water column in well: 2.56

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 0.42
3 Well volumes (= length water column X gal/foot X 3): 1.25
Actual volume purged prior to sampling: 1.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1830.4	NTU								
Temperature	17.9	°C								
pH	6.58									
Conductivity	0.008	SPC ms/cm								
Oxygen	6.49	DO mg/L								
Salinity										

Time sample was collected: 8:03

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/18/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-6
Location:
Casing Diameter: 2"

Depth to water, below top of casing: 13.78
Depth to bottom of the well: 22.88
Length of water column in well: 9.10

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.48
3 Well volumes (= length water column X gal/foot X 3): 4.45
Actual volume purged prior to sampling: 4.50
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	3206	NTU								
Temperature	19.5	°C								
pH	7.94									
Conductivity	0.003	SPC ms/cm								
Oxygen	8.76	DO mg/L								
Salinity										

Time sample was collected: 8:25

COMMENTS

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/17/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-7
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 13.75
Depth to bottom of the well: 21.8
Length of water column in well: 8.05

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.3
3 Well volumes (= length water column X gal/foot X 3): 3.94
Actual volume purged prior to sampling: 4.00

Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	3226.1	NTU								
Temperature	17.8	°C								
pH	6.97									
Conductivity	0.573	SPC ms/cm								
Oxygen	4.13	DO mg/L								
Salinity										

Time sample was collected: 16:00

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/17/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-8
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 10.09
Depth to bottom of the well: 17.65
Length of water column in well: 7.56

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.23
3 Well volumes (= length water column X gal/foot X 3): 3.697
Actual volume purged prior to sampling: 3.75

Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	3433.84	NTU								
Temperature	17.2	°C								
pH	6.94									
Conductivity	0.003	SPC ms/cm								
Oxygen	4.63	DO mg/L								
Salinity										

Time sample was collected: 16:20

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/17/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-9
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 10.48
Depth to bottom of the well: 20.96
Length of water column in well: 10.48

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.71
3 Well volumes (= length water column X gal/foot X 3): 5.125
Actual volume purged prior to sampling: 5.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
<i>Turbidity</i>	670.60	NTU								
<i>Temperature</i>	19.06	°C								
<i>pH</i>	6.74									
<i>Conductivity</i>	0.375	SPC ms/cm								
<i>Oxygen</i>	4.12	DO mg/L								
<i>Salinity</i>										

Time sample was collected: 16:55

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/18/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-10
Location:
Casing Diameter: 2"

Depth to water, below top of casing: 8.06
Depth to bottom of the well: 19.44
Length of water column in well: 11.38

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.9
3 Well volumes (= length water column X gal/foot X 3): 5.57
Actual volume purged prior to sampling: 6.5

Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1145.5	NTU								
Temperature	16.3	°C								
pH	7.07									
Conductivity	0.533	SPC ms/cm								
Oxygen	6.43	DO mg/L								
Salinity										

Time sample was collected: 6:20

COMMENTS

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/17/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-11
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 7.25
Depth to bottom of the well: 15.48
Length of water column in well: 8.23

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.3415
3 Well volumes (= length water column X gal/foot X 3): 4.0245
Actual volume purged prior to sampling: 4.75
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	810.7	NTU								
Temperature	12.36	°C								
pH	6.63									
Conductivity	0.556	SPC ms/cm								
Oxygen	4.56	DO mg/L								
Salinity										

Time sample was collected: 14:30

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/17/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-12
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 7.93
Depth to bottom of the well: 17.38
Length of water column in well: 9.45

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.54
3 Well volumes (= length water column X gal/foot X 3): 4.62
Actual volume purged prior to sampling: 4.75
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	964.45	NTU								
Temperature	16.1	°C								
pH	7.58									
Conductivity	0.002	SPC ms/cm								
Oxygen	9.76	DO mg/L								
Salinity										

Time sample was collected: 13:25

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/18/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-13
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 8.04
Depth to bottom of the well: 17.40
Length of water column in well: 9.36

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.5257
3 Well volumes (= length water column X gal/foot X 3): 4.577
Actual volume purged prior to sampling: 4.75
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	2830.4	NTU								
Temperature	12.9	°C								
pH	6.75									
Conductivity	0.416	SPC ms/cm								
Oxygen	5.08	DO mg/L								
Salinity										

Time sample was collected: 13:40

COMMENTS

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/18/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-14
Location:
Casing Diameter: 2"

Depth to water, below top of casing: 11.12
Depth to bottom of the well: 18.15
Length of water column in well: 7.03

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.15
3 Well volumes (= length water column X gal/foot X 3): 3.44
Actual volume purged prior to sampling: 3.5
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	2509.78	NTU								
Temperature	16.1	°C								
pH	7.27									
Conductivity	0.584	SPC ms/cm								
Oxygen	7.86	DO mg/L								
Salinity										

Time sample was collected: 10:00

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/17/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-15
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 11.09
Depth to bottom of the well: 19.80
Length of water column in well: 8.71

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.4197
3 Well volumes (= length water column X gal/foot X 3): 4.26
Actual volume purged prior to sampling: 4.33
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? _____
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	3318.1	NTU								
Temperature	16	°C								
pH	6.94									
Conductivity	0.002	SPC ms/cm								
Oxygen	8.68	DO mg/L								
Salinity										

Time sample was collected: 11:42

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/17/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-16
Location:
Casing Diameter: 2"

Depth to water, below top of casing: 13.4
Depth to bottom of the well: 23.26
Length of water column in well: 9.86

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.61
3 Well volumes (= length water column X gal/foot X 3): 4.8215
Actual volume purged prior to sampling: 5
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1526	NTU								
Temperature	16.1	°C								
pH	6.89									
Conductivity	0.626	SPC ms/cm								
Oxygen	3.16	DO mg/L								
Salinity										

Time sample was collected: 15:43

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/18/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-17
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 13.68
Depth to bottom of the well: 25.18
Length of water column in well: 11.5

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.8745
3 Well volumes (= length water column X gal/foot X 3): 5.6235
Actual volume purged prior to sampling: 6
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	3580.8	NTU								
Temperature	18.4	°C								
pH	7.38									
Conductivity	0.01	SPC ms/cm								
Oxygen	6.48	DO mg/L								
Salinity										

Time sample was collected: 9:39

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/18/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-18
Location:
Casing Diameter: 2"

Depth to water, below top of casing: 9.9
Depth to bottom of the well: 25.0
Length of water column in well: 15.10

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 2.4613
3 Well volumes (= length water column X gal/foot X 3): 7.38
Actual volume purged prior to sampling: 7.5
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged?
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1148.73	NTU								
Temperature	20.1	°C								
pH	7.22									
Conductivity	0.304	SPC ms/cm								
Oxygen	6.74	DO mg/L								
Salinity										

Time sample was collected: 12:00

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/18/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-19R
Location:
Casing Diameter: 2"

Depth to water, below top of casing: 8.38
Depth to bottom of the well: 17.67
Length of water column in well: 9.29

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.5
3 Well volumes (= length water column X gal/foot X 3): 4.54
Actual volume purged prior to sampling: 4.8
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	454.65	NTU								
Temperature	20.1	°C								
pH	7.37									
Conductivity	0.004	SPC ms/cm								
Oxygen	7.04	DO mg/L								
Salinity										

Time sample was collected: 11:25

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/18/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-20
Location:
Casing Diameter: 2"

Depth to water, below top of casing: 10.38
Depth to bottom of the well: 14.75
Length of water column in well: 4.37

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 0.7123
3 Well volumes (= length water column X gal/foot X 3): 2.14
Actual volume purged prior to sampling: 2.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	4439.6	NTU								
Temperature	16.6	°C								
pH	6.7									
Conductivity	0.003	SPC ms/cm								
Oxygen	4.88	DO mg/L								
Salinity										

Time sample was collected: 7:48

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/18/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-21
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 10.1
Depth to bottom of the well: 15.82
Length of water column in well: 5.72

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 0.9324
3 Well volumes (= length water column X gal/foot X 3): 2.80
Actual volume purged prior to sampling: 3
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	738	NTU								
Temperature	19	°C								
pH	7.03									
Conductivity	0.245	SPC ms/cm								
Oxygen	5.24	DO mg/L								
Salinity										

Time sample was collected: 12:40

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/17/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: DR-1
Location:
Casing Diameter: 4"

Depth to water, below top of casing: 9.45
Depth to bottom of the well: 18.06
Length of water column in well: 8.61

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 5.6223
3 Well volumes (= length water column X gal/foot X 3): 16.867
Actual volume purged prior to sampling: 17.00
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	2456	NTU								
Temperature	12.3	°C								
pH	6.62									
Conductivity	0.515	SPC ms/cm								
Oxygen	4.29	DO mg/L								
Salinity										

Time sample was collected: 14:09

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/17/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: DR-2
Location:
Casing Diameter: 4"

Depth to water, below top of casing: 8.35
Depth to bottom of the well: 18.06
Length of water column in well: 9.71

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 6.3406
3 Well volumes (= length water column X gal/foot X 3): 19.02
Actual volume purged prior to sampling: 19.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1421.3	NTU								
Temperature	14.2	°C								
pH	7.11									
Conductivity	0.003	SPC ms/cm								
Oxygen	9.10	DO mg/L								
Salinity										

Time sample was collected: 14:09

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/17/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: DR-3
Location:
Casing Diameter: 4"

Depth to water, below top of casing: 12.2
Depth to bottom of the well: 20.45
Length of water column in well: 8.25

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 5.4
3 Well volumes (= length water column X gal/foot X 3): 16.162
Actual volume purged prior to sampling: 16.30
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1161.3	NTU								
Temperature	13.3	°C								
pH	6.64									
Conductivity	0.549	SPC ms/cm								
Oxygen	4.22	DO mg/L								
Salinity										

Time sample was collected: 12:38

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/17/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: DR-4
Location: _____
Casing Diameter: 4"

Depth to water, below top of casing: 12.04
Depth to bottom of the well: 19.69
Length of water column in well: 7.65

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 5.00
3 Well volumes (= length water column X gal/foot X 3): 14.99
Actual volume purged prior to sampling: 15.00

Sampling Methodology: _____
Sampling Equipment: Hand bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1862.6	NTU								
Temperature	14.6	°C								
pH	6.67									
Conductivity	0.568	SPC ms/cm								
Oxygen	3.68	DO mg/L								
Salinity										

Time sample was collected: 12:08

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/17/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: G-1
Location:
Casing Diameter: 4"

Depth to water, below top of casing: 12.7
Depth to bottom of the well: 22.98
Length of water column in well: 10.28

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 6.7128
3 Well volumes (= length water column X gal/foot X 3): 20.14
Actual volume purged prior to sampling: 20.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1202.5	NTU								
Temperature	18.2	°C								
pH	7.48									
Conductivity	0.004	SPC ms/cm								
Oxygen	7.59	DO mg/L								
Salinity										

Time sample was collected: 15:00

COMMENTS

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/17/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: G-2
Location:
Casing Diameter: 4"

Depth to water, below top of casing: 12.16
Depth to bottom of the well: 20.72
Length of water column in well: 8.56

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 5.5897
3 Well volumes (= length water column X gal/foot X 3): 16.769
Actual volume purged prior to sampling: 17
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1243	NTU								
Temperature	14.5	°C								
pH	6.87									
Conductivity	0.557	SPC ms/cm								
Oxygen	29.3	DO mg/L								
Salinity										

Time sample was collected: 15:25

COMMENTS

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q2 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/18/2024
Weather: 90 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: G-3
Location:
Casing Diameter: 4"

Depth to water, below top of casing: 10.69
Depth to bottom of the well: 18.15
Length of water column in well: 7.46

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 4.87
3 Well volumes (= length water column X gal/foot X 3): 14.61
Actual volume purged prior to sampling: 14.75
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	843.8	NTU								
Temperature	17.9	°C								
pH	7.57									
Conductivity	0.557	SPC ms/cm								
Oxygen	7.31	DO mg/L								
Salinity										

Time sample was collected: 9:08

COMMENTS

SEPTEMBER 2024
FIELD FORMS

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/19/2024
Weather: 71 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-1
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 7.95
Depth to bottom of the well: 16.02
Length of water column in well: 8.07

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.3154
3 Well volumes (= length water column X gal/foot X 3): 3.95
Actual volume purged prior to sampling: 4
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1055	NTU								
Temperature	17.1	°C								
pH	7.08									
Conductivity	0.67	SPC ms/cm								
Oxygen	4.94	DO mg/L								
Salinity										

Time sample was collected: 17:55
MW-X was collected simultaneously from this well.

COMMENTS

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/20/2024
Weather: 71 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-2
Location:
Casing Diameter: 2"

Depth to water, below top of casing: 7.7
Depth to bottom of the well: 17.15
Length of water column in well: 9.45

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.54
3 Well volumes (= length water column X gal/foot X 3): 4.62
Actual volume purged prior to sampling: 4.75
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1247	NTU								
Temperature	70.6	°C								
pH	7.87									
Conductivity	0.004	SPC ms/cm								
Oxygen	6.4	DO mg/L								
Salinity										

Time sample was collected: 8:45

COMMENTS

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/20/2024
Weather: 70 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-3
Location:
Casing Diameter: 2"

Depth to water, below top of casing: 8.5
Depth to bottom of the well: 16.30
Length of water column in well: 7.80

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.27
3 Well volumes (= length water column X gal/foot X 3): 3.81
Actual volume purged prior to sampling: 4.33

Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1645	NTU								
Temperature	18.8	°C								
pH	7.05									
Conductivity	0.533	SPC ms/cm								
Oxygen	4.6	DO mg/L								
Salinity										

Time sample was collected: 8:20

COMMENTS

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/20/2024
Weather: 70 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-4
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 8.6
Depth to bottom of the well: 15.78
Length of water column in well: 7.18

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.1703
3 Well volumes (= length water column X gal/foot X 3): 3.511
Actual volume purged prior to sampling: 3.75
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	2461	NTU								
Temperature	21.1	°C								
pH	6.97									
Conductivity	0.792	SPC ms/cm								
Oxygen	4.05	DO mg/L								
Salinity										

Time sample was collected: 10:34

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/20/2024
Weather: 70 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-5
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 11.6
Depth to bottom of the well: 13.95
Length of water column in well: 2.35

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 0.38
3 Well volumes (= length water column X gal/foot X 3): 1.15
Actual volume purged prior to sampling: 1.25

Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	3203	NTU								
Temperature	24.2	°C								
pH	6.99									
Conductivity	0.812	SPC ms/cm								
Oxygen	5.01	DO mg/L								
Salinity										

Time sample was collected: 11:16

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/20/2024
Weather: 70 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-6
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 13.8
Depth to bottom of the well: 22.88
Length of water column in well: 9.08

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.48
3 Well volumes (= length water column X gal/foot X 3): 4.44
Actual volume purged prior to sampling: 4.50
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	2463	NTU								
Temperature	20.1	°C								
pH	7.6									
Conductivity	0.325	SPC ms/cm								
Oxygen	4.7	DO mg/L								
Salinity										

Time sample was collected: 11:37

COMMENTS

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/19/2024
Weather: 71 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-7
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 14.04
Depth to bottom of the well: 21.8
Length of water column in well: 7.76

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.3
3 Well volumes (= length water column X gal/foot X 3): 3.79
Actual volume purged prior to sampling: 4.00

Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	2368	NTU								
Temperature	20.5	°C								
pH	7.05									
Conductivity	0.686	SPC ms/cm								
Oxygen	5.27	DO mg/L								
Salinity										

Time sample was collected: 16:17

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/19/2024
Weather: 71 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-8
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 11.4
Depth to bottom of the well: 17.65
Length of water column in well: 6.25

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.02
3 Well volumes (= length water column X gal/foot X 3): 3.056
Actual volume purged prior to sampling: 3.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	2357.00	NTU								
Temperature	21	°C								
pH	7.1									
Conductivity	0.68	SPC ms/cm								
Oxygen	4.7	DO mg/L								
Salinity										

Time sample was collected: 16:41

COMMENTS

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/19/2024
Weather: 71 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-9
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 10.08
Depth to bottom of the well: 20.96
Length of water column in well: 10.88

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.77
3 Well volumes (= length water column X gal/foot X 3): 5.320
Actual volume purged prior to sampling: 5.50

Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
<i>Turbidity</i>	3698.00	NTU								
<i>Temperature</i>	18.5	°C								
<i>pH</i>	7.16									
<i>Conductivity</i>	0.589	SPC ms/cm								
<i>Oxygen</i>	5.34	DO mg/L								
<i>Salinity</i>										

Time sample was collected: 17:30

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/19/2024
Weather: 71 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-10
Location:
Casing Diameter: 2"

Depth to water, below top of casing: 9.02
Depth to bottom of the well: 19.44
Length of water column in well: 10.42

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.7
3 Well volumes (= length water column X gal/foot X 3): 5.10
Actual volume purged prior to sampling: 5.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1141	NTU								
Temperature	24.1	°C								
pH	7.39									
Conductivity	0.006	SPC ms/cm								
Oxygen	8.7	DO mg/L								
Salinity										

Time sample was collected: 17:07

COMMENTS

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/19/2024
Weather: 71 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-11
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 8.3
Depth to bottom of the well: 15.48
Length of water column in well: 7.18

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.1703
3 Well volumes (= length water column X gal/foot X 3): 3.511
Actual volume purged prior to sampling: 3.75
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
<i>Turbidity</i>	166.64	NTU								
<i>Temperature</i>	15.60	°C								
<i>pH</i>	6.84									
<i>Conductivity</i>	0.615	SPC ms/cm								
<i>Oxygen</i>	3.41	DO mg/L								
<i>Salinity</i>										

Time sample was collected: 16:05

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/19/2024
Weather: 71 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-12
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 8.92
Depth to bottom of the well: 17.38
Length of water column in well: 8.46

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.38
3 Well volumes (= length water column X gal/foot X 3): 4.14
Actual volume purged prior to sampling: 4.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1090	NTU								
Temperature	16	°C								
pH	6.83									
Conductivity	0.507	SPC ms/cm								
Oxygen	3.32	DO mg/L								
Salinity										

Time sample was collected: 15:10

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/19/2024
Weather: 71 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-13
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 8.78
Depth to bottom of the well: 17.40
Length of water column in well: 8.62

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

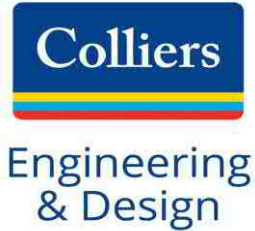
Volume of water in well casing, gallons: 1.4051
3 Well volumes (= length water column X gal/foot X 3): 4.2152
Actual volume purged prior to sampling: 4.75
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	425	NTU								
Temperature	15.8	°C								
pH	6.83									
Conductivity	0.548	SPC ms/cm								
Oxygen	3.05	DO mg/L								
Salinity										

Time sample was collected: 15:25

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/19/2024
Weather: 71 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-14
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 11.35
Depth to bottom of the well: 18.15
Length of water column in well: 6.80

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.11
3 Well volumes (= length water column X gal/foot X 3): 3.33
Actual volume purged prior to sampling: 3.33
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	132.75	NTU								
Temperature	15.5	°C								
pH	6.8									
Conductivity	0.6345	SPC ms/cm								
Oxygen	4.28	DO mg/L								
Salinity										

Time sample was collected: 13:46

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/19/2024
Weather: 71 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-15
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 11.39
Depth to bottom of the well: 19.80
Length of water column in well: 8.41

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.3708
3 Well volumes (= length water column X gal/foot X 3): 4.11
Actual volume purged prior to sampling: 4.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? _____
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	32.43	NTU								
Temperature	16.3	°C								
pH	6.75									
Conductivity	0.588	SPC ms/cm								
Oxygen	4.26	DO mg/L								
Salinity										

Time sample was collected: 13:00

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/19/2024
Weather: 71 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-16
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: N/A
Depth to bottom of the well: 23.26
Length of water column in well: N/A

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: N/A
3 Well volumes (= length water column X gal/foot X 3): N/A
Actual volume purged prior to sampling: N/A
Sampling Methodology: _____
Sampling Equipment: _____

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	N/S	NTU								
Temperature	N/S	°C								
pH	N/S									
Conductivity	N/S	SPC ms/cm								
Oxygen	N/S	DO mg/L								
Salinity										

Time sample was collected: N/S
Well appears to have been struck by lawnmower or vehicle.

COMMENTS Bailer will not advance beyond 2 feet. No sample collected.

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/20/2024
Weather: 70 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-17
Location:
Casing Diameter: 2"

Depth to water, below top of casing: 13.82
Depth to bottom of the well: 25.18
Length of water column in well: 11.36

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.8517
3 Well volumes (= length water column X gal/foot X 3): 5.555
Actual volume purged prior to sampling: 5.75
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1370	NTU								
Temperature	18.4	°C								
pH	7.48									
Conductivity	0.316	SPC ms/cm								
Oxygen	5.52	DO mg/L								
Salinity										

Time sample was collected: 959

COMMENTS

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/20/2024
Weather: 70 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-18
Location:
Casing Diameter: 2"

Depth to water, below top of casing: 10.4
Depth to bottom of the well: 25.0
Length of water column in well: 14.60

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 2.3798
3 Well volumes (= length water column X gal/foot X 3): 7.14
Actual volume purged prior to sampling: 7.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged?
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1538.00	NTU								
Temperature	14.5	°C								
pH	7.21									
Conductivity	0.005	SPC ms/cm								
Oxygen	6.73	DO mg/L								
Salinity										

Time sample was collected: 7:55

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/20/2024
Weather: 70 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-19R
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 8.9
Depth to bottom of the well: 17.67
Length of water column in well: 8.77

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

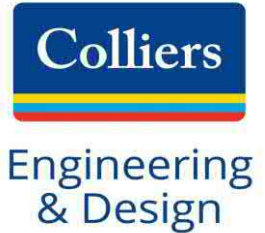
Volume of water in well casing, gallons: 1.4
3 Well volumes (= length water column X gal/foot X 3): 4.29
Actual volume purged prior to sampling: 4.3
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1767	NTU								
Temperature	17.7	°C								
pH	7.07									
Conductivity	0.846	SPC ms/cm								
Oxygen	6.62	DO mg/L								
Salinity										

Time sample was collected: 7:05

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/20/2024
Weather: 70 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-20
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 10.75
Depth to bottom of the well: 14.75
Length of water column in well: 4

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 0.652
3 Well volumes (= length water column X gal/foot X 3): 1.96
Actual volume purged prior to sampling: 2
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	3082	NTU								
Temperature	25	°C								
pH	7.21									
Conductivity	0.922	SPC ms/cm								
Oxygen	3.72	DO mg/L								
Salinity										

Time sample was collected: 10:59

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/20/2024
Weather: 70 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-21
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 6.6
Depth to bottom of the well: 15.82
Length of water column in well: 9.22

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.5029
3 Well volumes (= length water column X gal/foot X 3): 4.51
Actual volume purged prior to sampling: 4.75

Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1547	NTU								
Temperature	15.9	°C								
pH	7.2									
Conductivity	0.754	SPC ms/cm								
Oxygen	6.55	DO mg/L								
Salinity										

Time sample was collected: 6:40

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/19/2024
Weather: 71 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: DR-1
Location:
Casing Diameter: 4"

Depth to water, below top of casing: 9.29
Depth to bottom of the well: 18.06
Length of water column in well: 8.77

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 5.7268
3 Well volumes (= length water column X gal/foot X 3): 17.18
Actual volume purged prior to sampling: 17.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	315.98	NTU								
Temperature	16.4	°C								
pH	6.93									
Conductivity	0.515	SPC ms/cm								
Oxygen	4.93	DO mg/L								
Salinity										

Time sample was collected: 15:50

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/19/2024
Weather: 71 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: DR-2
Location: _____
Casing Diameter: 4"

Depth to water, below top of casing: 8.93
Depth to bottom of the well: 18.06
Length of water column in well: 9.13

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 5.9619
3 Well volumes (= length water column X gal/foot X 3): 17.89
Actual volume purged prior to sampling: 18

Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	351.95	NTU								
Temperature	15.9	°C								
pH	6.97									
Conductivity	3.8	SPC ms/cm								
Oxygen	3.26	DO mg/L								
Salinity										

Time sample was collected: 14:51

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/19/2024
Weather: 71 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: DR-3
Location: _____
Casing Diameter: 4"

Depth to water, below top of casing: 12.33
Depth to bottom of the well: 20.45
Length of water column in well: 8.12

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 5.3
3 Well volumes (= length water column X gal/foot X 3): 15.907
Actual volume purged prior to sampling: 16.25

Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	459.69	NTU								
Temperature	17	°C								
pH	7.31									
Conductivity	0.005	SPC ms/cm								
Oxygen	5.84	DO mg/L								
Salinity										

Time sample was collected: 14:27

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/19/2024
Weather: 71 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: DR-4
Location: _____
Casing Diameter: 4"

Depth to water, below top of casing: 12.33
Depth to bottom of the well: 19.69
Length of water column in well: 7.36

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 4.81
3 Well volumes (= length water column X gal/foot X 3): 14.42
Actual volume purged prior to sampling: 14.50

Sampling Methodology: _____
Sampling Equipment: Hand bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	36.46	NTU								
Temperature	15.8	°C								
pH	6.81									
Conductivity	0.588	SPC ms/cm								
Oxygen	4.72	DO mg/L								
Salinity										

Time sample was collected: 13:30

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 6/19/2024
Weather: 71 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: G-1
Location:
Casing Diameter: 4"

Depth to water, below top of casing: 12.53
Depth to bottom of the well: 22.98
Length of water column in well: 10.45

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 6.8239
3 Well volumes (= length water column X gal/foot X 3): 20.47
Actual volume purged prior to sampling: 20.50
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	53.43	NTU								
Temperature	18.4	°C								
pH	7.12									
Conductivity	0.309	SPC ms/cm								
Oxygen	4.75	DO mg/L								
Salinity										

Time sample was collected: 12:40

COMMENTS

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/19/2024
Weather: 71 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: G-2
Location:
Casing Diameter: 4"

Depth to water, below top of casing: 12.43
Depth to bottom of the well: 20.72
Length of water column in well: 8.29

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 5.4134
3 Well volumes (= length water column X gal/foot X 3): 16.24
Actual volume purged prior to sampling: 16.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	89.27	NTU								
Temperature	17.7	°C								
pH	6.88									
Conductivity	0.005	SPC ms/cm								
Oxygen	4	DO mg/L								
Salinity										

Time sample was collected: 12:10

COMMENTS

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q3 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 9/20/2024
Weather: 70 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: G-3
Location:
Casing Diameter: 4"

Depth to water, below top of casing: 11.6
Depth to bottom of the well: 18.15
Length of water column in well: 6.55

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 4.28
3 Well volumes (= length water column X gal/foot X 3): 12.83
Actual volume purged prior to sampling: 13.00
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	486	NTU								
Temperature	16.6	°C								
pH	7.2									
Conductivity	0.005	SPC ms/cm								
Oxygen	4.68	DO mg/L								
Salinity										

Time sample was collected: 9:29

COMMENTS

DECEMBER 2024
FIELD FORMS

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/20/2024
Weather: 28 Degrees F, Light Snow
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-1
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 5.3
Depth to bottom of the well: 16.02
Length of water column in well: 10.72

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.7474
3 Well volumes (= length water column X gal/foot X 3): 5.24
Actual volume purged prior to sampling: 5.25

Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity		NTU								
Temperature		°C								
pH										
Conductivity		SPC ms/cm								
Oxygen		DO mg/L								
Salinity										

Time sample was collected: 12:38

COMMENTS MW-X collected from this well.

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/20/2024
Weather: 28 Degrees F, Light Snow
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-2
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 5.3
Depth to bottom of the well: 17.15
Length of water column in well: 11.85

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.93
3 Well volumes (= length water column X gal/foot X 3): 5.79
Actual volume purged prior to sampling: 6
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity		NTU								
Temperature		°C								
pH										
Conductivity		SPC ms/cm								
Oxygen		DO mg/L								
Salinity										

Time sample was collected: 13:14

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/20/2024
Weather: 28 Degrees F, Light Snow
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-3
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: N/A
Depth to bottom of the well: 16.30
Length of water column in well: N/A

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: N/A
3 Well volumes (= length water column X gal/foot X 3): N/A
Actual volume purged prior to sampling: _____
Sampling Methodology: _____
Sampling Equipment: _____

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	N/S	NTU								
Temperature	N/S	°C								
pH	N/S									
Conductivity	N/S	SPC ms/cm								
Oxygen	N/S	DO mg/L								
Salinity										

Time sample was collected: N/S

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/20/2024
Weather: 28 Degrees F, Light Snow
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-4
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 9
Depth to bottom of the well: 15.78
Length of water column in well: 6.78

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.1051
3 Well volumes (= length water column X gal/foot X 3): 3.3154
Actual volume purged prior to sampling: 3.50

Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
<i>Turbidity</i>		NTU								
<i>Temperature</i>		°C								
<i>pH</i>										
<i>Conductivity</i>		SPC ms/cm								
<i>Oxygen</i>		DO mg/L								
<i>Salinity</i>										

Time sample was collected: 13:52

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/20/2024
Weather: 28 Degrees F, Light Snow
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-5
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 10.1
Depth to bottom of the well: 13.95
Length of water column in well: 3.85

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 0.63
3 Well volumes (= length water column X gal/foot X 3): 1.88
Actual volume purged prior to sampling: 2.00

Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity		NTU								
Temperature		°C								
pH										
Conductivity		SPC ms/cm								
Oxygen		DO mg/L								
Salinity										

Time sample was collected: 11:33

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/20/2024
Weather: 28 Degrees F, Light Snow
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-6
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 12.74
Depth to bottom of the well: 22.88
Length of water column in well: 10.14

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.65
3 Well volumes (= length water column X gal/foot X 3): 4.96
Actual volume purged prior to sampling: 5.00
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1614	NTU								
Temperature	10.3	°C								
pH	7.12									
Conductivity	0.748	SPC ms/cm								
Oxygen	3.73	DO mg/L								
Salinity										

Time sample was collected: 10:50

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/20/2024
Weather: 28 Degrees F, Light Snow
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-7
Location:
Casing Diameter: 2"

Depth to water, below top of casing: 12.78
Depth to bottom of the well: 21.8
Length of water column in well: 9.02

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.5
3 Well volumes (= length water column X gal/foot X 3): 4.41
Actual volume purged prior to sampling: 4.50
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	2371	NTU								
Temperature	13.3	°C								
pH	7.48									
Conductivity	0.724	SPC ms/cm								
Oxygen	8.11	DO mg/L								
Salinity										

Time sample was collected: 7:20

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/20/2024
Weather: 28 Degrees F, Light Snow
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-8
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 8.55
Depth to bottom of the well: 17.65
Length of water column in well: 9.10

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.48
3 Well volumes (= length water column X gal/foot X 3): 4.450
Actual volume purged prior to sampling: 4.50
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity		NTU								
Temperature		°C								
pH										
Conductivity		SPC ms/cm								
Oxygen		DO mg/L								
Salinity										

Time sample was collected: 12:15

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/20/2024
Weather: 28 Degrees F, Light Snow
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-9
Location:
Casing Diameter: 2"

Depth to water, below top of casing: 7.7
Depth to bottom of the well: 20.96
Length of water column in well: 13.26

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 2.16
3 Well volumes (= length water column X gal/foot X 3): 6.484
Actual volume purged prior to sampling: 6.50

Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity		NTU								
Temperature		°C								
pH										
Conductivity		SPC ms/cm								
Oxygen		DO mg/L								
Salinity										

Time sample was collected: 12:26

COMMENTS

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/20/2024
Weather: 28 Degrees F, Light Snow
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-10
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 6.7
Depth to bottom of the well: 19.44
Length of water column in well: 12.74

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 2.1
3 Well volumes (= length water column X gal/foot X 3): 6.23
Actual volume purged prior to sampling: 6.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity		NTU								
Temperature		°C								
pH										
Conductivity		SPC ms/cm								
Oxygen		DO mg/L								
Salinity										

Time sample was collected: 13:40

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/20/2024
Weather: 28 Degrees F, Light Snow
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-11
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 5.12
Depth to bottom of the well: 15.48
Length of water column in well: 10.36

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.6887
3 Well volumes (= length water column X gal/foot X 3): 5.066
Actual volume purged prior to sampling: 5.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	2542	NTU								
Temperature	12.10	°C								
pH	7.00									
Conductivity	0.856	SPC ms/cm								
Oxygen	5.79	DO mg/L								
Salinity										

Time sample was collected: 10:10

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/20/2024
Weather: 28 Degrees F, Light Snow
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-12
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 5.50
Depth to bottom of the well: 17.38
Length of water column in well: 11.88

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.94
3 Well volumes (= length water column X gal/foot X 3): 5.81
Actual volume purged prior to sampling: 6
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1321	NTU								
Temperature	12.9	°C								
pH	6.85									
Conductivity	0.672	SPC ms/cm								
Oxygen	5.87	DO mg/L								
Salinity										

Time sample was collected: 10:16

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/20/2024
Weather: 28 Degrees F, Light Snow
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-13
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 6.2
Depth to bottom of the well: 17.40
Length of water column in well: 11.20

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

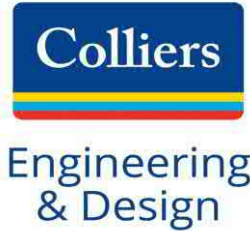
Volume of water in well casing, gallons: 1.8256
3 Well volumes (= length water column X gal/foot X 3): 5.4768
Actual volume purged prior to sampling: 5.50
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	896.26	NTU								
Temperature	13.6	°C								
pH	6.88									
Conductivity	0.569	SPC ms/cm								
Oxygen	5.54	DO mg/L								
Salinity										

Time sample was collected: 10:21

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/19/2024
Weather: 31 Degrees F, Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-14
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 9.93
Depth to bottom of the well: 18.15
Length of water column in well: 8.22

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.34
3 Well volumes (= length water column X gal/foot X 3): 4.02
Actual volume purged prior to sampling: 4.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1748.00	NTU								
Temperature	12.7	°C								
pH	6.86									
Conductivity	0.717	SPC ms/cm								
Oxygen	4.31	DO mg/L								
Salinity										

Time sample was collected: 15:42

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/19/2024
Weather: 31 Degrees F, Partly Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-15
Location:
Casing Diameter: 2"

Depth to water, below top of casing: 9.95
Depth to bottom of the well: 19.80
Length of water column in well: 9.85

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.6056
3 Well volumes (= length water column X gal/foot X 3): 4.82
Actual volume purged prior to sampling: 5
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged?
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	2443	NTU								
Temperature	11.8	°C								
pH	6.77									
Conductivity	0.782	SPC ms/cm								
Oxygen	6.23	DO mg/L								
Salinity										

Time sample was collected: 14:45

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/20/2024
Weather: 28 Degrees F, Light Snow
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-16
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: n/a
Depth to bottom of the well: 23.26
Length of water column in well: _____

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: N/A
3 Well volumes (= length water column X gal/foot X 3): _____
Actual volume purged prior to sampling: _____
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	N/S	NTU								
Temperature	N/S	°C								
pH	N/S									
Conductivity	N/S	SPC ms/cm								
Oxygen	N/S	DO mg/L								
Salinity										

Time sample was collected: N/S

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/20/2024
Weather: 28 Degrees F, Light Snow
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-17
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 12.51
Depth to bottom of the well: 25.18
Length of water column in well: 12.67

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 2.0652
3 Well volumes (= length water column X gal/foot X 3): 6.1956
Actual volume purged prior to sampling: 6.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	2373	NTU								
Temperature	8.9	°C								
pH	6.85									
Conductivity	0.93	SPC ms/cm								
Oxygen	7.35	DO mg/L								
Salinity										

Time sample was collected: 8:20

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/20/2024
Weather: 28 Degrees F, Light Snow
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-18
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 8.32
Depth to bottom of the well: 25.0
Length of water column in well: 16.68

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 2.7188
3 Well volumes (= length water column X gal/foot X 3): 8.16
Actual volume purged prior to sampling: 8.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? _____
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity		NTU								
Temperature		°C								
pH										
Conductivity		SPC ms/cm								
Oxygen		DO mg/L								
Salinity										

Time sample was collected: 11:37

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/20/2024
Weather: 28 Degrees F, Light Snow
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-19R
Location:
Casing Diameter: 2"

Depth to water, below top of casing: 7.2
Depth to bottom of the well: 17.67
Length of water column in well: 10.47

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

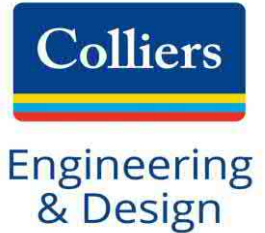
Volume of water in well casing, gallons: 1.7
3 Well volumes (= length water column X gal/foot X 3): 5.12
Actual volume purged prior to sampling: 5.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity		NTU								
Temperature		°C								
pH										
Conductivity		SPC ms/cm								
Oxygen		DO mg/L								
Salinity										

Time sample was collected: 14:06

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/20/2024
Weather: 28 Degrees F, Light Snow
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-20
Location:
Casing Diameter: 2"

Depth to water, below top of casing: 8.9
Depth to bottom of the well: 14.75
Length of water column in well: 5.85

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 0.9536
3 Well volumes (= length water column X gal/foot X 3): 2.86
Actual volume purged prior to sampling: 3
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity		NTU								
Temperature		°C								
pH										
Conductivity		SPC ms/cm								
Oxygen		DO mg/L								
Salinity										

Time sample was collected: 11:42

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/20/2024
Weather: 28 Degrees F, Light Snow
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: MW-21
Location: _____
Casing Diameter: 2"

Depth to water, below top of casing: 6.25
Depth to bottom of the well: 15.82
Length of water column in well: 9.57

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 1.5599
3 Well volumes (= length water column X gal/foot X 3): 4.68
Actual volume purged prior to sampling: 4.75

Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity		NTU								
Temperature		°C								
pH										
Conductivity		SPC ms/cm								
Oxygen		DO mg/L								
Salinity										

Time sample was collected: 14:30

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/20/2024
Weather: 28 Degrees F, Light Snow
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: DR-1
Location:
Casing Diameter: 4"

Depth to water, below top of casing: 6.3
Depth to bottom of the well: 18.06
Length of water column in well: 11.76

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

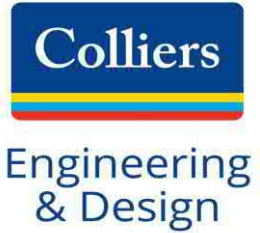
Volume of water in well casing, gallons: 7.6793
3 Well volumes (= length water column X gal/foot X 3): 23.038
Actual volume purged prior to sampling: 23.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	3622	NTU								
Temperature	10.8	°C								
pH	6.71									
Conductivity	0.675	SPC ms/cm								
Oxygen	10.8	DO mg/L								
Salinity										

Time sample was collected: 9:20

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/19/2024
Weather: 31 Degrees F, Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: DR-2
Location: _____
Casing Diameter: 4"

Depth to water, below top of casing: 6
Depth to bottom of the well: 18.06
Length of water column in well: 12.06

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 7.8752
3 Well volumes (= length water column X gal/foot X 3): 23.63
Actual volume purged prior to sampling: 23.75
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	478	NTU								
Temperature	12.4	°C								
pH	6.89									
Conductivity	0.348	SPC ms/cm								
Oxygen	5.36	DO mg/L								
Salinity										

Time sample was collected: 17:00

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/19/2024
Weather: 31 Degrees F, Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: DR-3
Location: _____
Casing Diameter: 4"

Depth to water, below top of casing: 10.94
Depth to bottom of the well: 20.45
Length of water column in well: 9.51

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 6.2
3 Well volumes (= length water column X gal/foot X 3): 18.63
Actual volume purged prior to sampling: 18.75

Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity		NTU								
Temperature	13	°C								
pH	6.81									
Conductivity	0.741	SPC ms/cm								
Oxygen	4.15	DO mg/L								
Salinity										

Time sample was collected: 16:15

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/19/2024
Weather: 31 Degrees F, Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: DR-4
Location: _____
Casing Diameter: 4"

Depth to water, below top of casing: 10.9
Depth to bottom of the well: 19.69
Length of water column in well: 8.79

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 5.74
3 Well volumes (= length water column X gal/foot X 3): 17.22
Actual volume purged prior to sampling: 17.25

Sampling Methodology: _____
Sampling Equipment: Hand bailer

Well Recharged? N/A
Required Analysis: _____

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1783	NTU								
Temperature	12.6	°C								
pH	6.94									
Conductivity	0.642	SPC ms/cm								
Oxygen	5.98	DO mg/L								
Salinity										

Time sample was collected: 15:25

COMMENTS _____

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/19/2024
Weather: 31 Degrees F, Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: G-1
Location:
Casing Diameter: 4"

Depth to water, below top of casing: 11.15
Depth to bottom of the well: 22.98
Length of water column in well: 11.83

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 7.725
3 Well volumes (= length water column X gal/foot X 3): 23.17
Actual volume purged prior to sampling: 23.25
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer
Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	886.53	NTU								
Temperature	11.9	°C								
pH	6.82									
Conductivity	0.555	SPC ms/cm								
Oxygen	6.55	DO mg/L								
Salinity										

Time sample was collected: 14:15

COMMENTS

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/19/2024
Weather: 31 Degrees F, Cloudy
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: G-2
Location:
Casing Diameter: 4"

Depth to water, below top of casing: 11.08
Depth to bottom of the well: 20.72
Length of water column in well: 9.64

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 6.2949
3 Well volumes (= length water column X gal/foot X 3): 18.885
Actual volume purged prior to sampling: 19

Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	1123	NTU								
Temperature	12	°C								
pH	6.9									
Conductivity	0.545	SPC ms/cm								
Oxygen	5.3	DO mg/L								
Salinity										

Time sample was collected: 13:30

COMMENTS

GROUNDWATER SAMPLING WORKSHEET**Engineering
& Design**

PROJECT NAME: Gowanda Q4 2024
Project Number: 24004500A
Site Location: Gowanda, New York
Sample Date: 12/20/2024
Weather: 28 Degrees F, Light Snow
Personnel: Justin L. O'Brien

GROUNDWATER SAMPLE POINT

Well Number: G-3
Location:
Casing Diameter: 4"

Depth to water, below top of casing: 9.55
Depth to bottom of the well: 18.15
Length of water column in well: 8.6

Well Dia.	Volume/Foot
1"	0.041 gal/foot
2"	0.163 gal/foot
4"	0.653 gal/foot
6"	1.469 gal/foot
8"	2.611 gal/foot

Volume of water in well casing, gallons: 5.62
3 Well volumes (= length water column X gal/foot X 3): 16.85
Actual volume purged prior to sampling: 17.00
Sampling Methodology: Hand bailing
Sampling Equipment: Bailer

Well Recharged? N/A
Required Analysis:

FIELD PARAMETER MEASUREMENTS

Parameter:	Accumulated Volume Purged in Gallons									
Turbidity	908	NTU								
Temperature	10.6	°C								
pH	6.99									
Conductivity	0.665	SPC ms/cm								
Oxygen	5.02	DO mg/L								
Salinity										

Time sample was collected: 7:50

COMMENTS



QUARTERLY CALIBRATION SHEETS



Calibration Certificate

rev 8/9/11

Work Order No.: SE-132335

Date of Service: 06/12/24

Order Time: 2:25:40 PM

Unit Under Test: YSI ProDSS, 4M with Flow Cell

Asset No.: FA03313 Technician: Haley Steinbruckner

Initials: _____

Serial No: 17J100574/18D100738

TEST	Specification	Result
Standard Calibration	Pass/Fail	pass

TEST STANDARDS USED:

DESCRIPTION	LOT NO./EXPIRATION DATE	QUANTITY
7.00 mS Conductivity Standard Solution	Lot No. 3GL0530 Exp. 12/2024	1
pH 10.00 Standard Solution	Lot No. ACABU5010-T	1
pH 4.00 Standard Solution	Lot No. 3GE1074 Exp. 05/2025	1
pH 7.00 Standard Solution	Lot No. 2GK014 Exp. 11/2024	1
ORP Standard Solution	Lot No. 23D100185 Exp. 04/11/2028	1
Turbidity Free Water	Lot No. 2GK873 Exp. 11/2024	1
100 NTU AMCO Turbidity Standard	Lot No. 22420023 Exp. 05/2024	1
Air Saturated Water		1

TEST EQUIPMENT USED:

DESCRIPTION	ASSET NO.	SERIAL NO.	DATE OF LAST CAL	DATE CAL DUE

Test Equipment and standards are traceable to National standards.



Calibration Certificate

rev 8/9/11

Work Order No.: SE-135582

Date of Service: 09/11/24

Order Time: 3:23:59 PM

Unit Under Test: YSI ProDSS, 4M with Flow Cell

Asset No.: FA03152 Technician: Haley Steinbruckner

Initials: _____

Serial No: 17C105116/17D105932

TEST	Specification	Result
Standard Calibration	Pass/Fail	pass

TEST STANDARDS USED:

DESCRIPTION	LOT NO./EXPIRATION DATE	QUANTITY
7.00 mS Conductivity Standard Solution	Lot No. ACACS7000-T Exp. 07/2025	1
pH 10.00 Standard Solution	Lot No. 3GL0168 Exp: 12/2025	1
pH 7.00 Standard Solution	Lot No. 4GF0046 Exp. 06/2026	1
pH 4.00 Standard Solution	Lot No. 3GE1074 Exp. 05/2025	1
ORP Standard Solution	Lot No. 24A100343 Exp. 01/16/2029	1
Turbidity Free Water	Lot No. 2GK873 Exp. 11/2024	1
124 FNU YSI Turbidity Standard	Lot No. 24B24008958 Exp. 02/2025	1
Air Saturated Water	Tap, Bubbler Generated	1

TEST EQUIPMENT USED:

DESCRIPTION	ASSET NO.	SERIAL NO.	DATE OF LAST CAL	DATE CAL DUE

Test Equipment and standards are traceable to National standards.



Calibration Certificate

rev 8/9/11

Work Order No.: SE-138966

Date of Service: 12/03/24

Order Time: 10:31:51 AM

Unit Under Test: YSI ProDSS, 4m Cable

Asset No.: FA04345

Technician: Grant Gifford

Initials: _____

Serial No: 20D102067/20C203819

TEST	Specification	Result
Standard Calibration	Pass/Fail	Pass

TEST STANDARDS USED:

DESCRIPTION	LOT NO./EXPIRATION DATE	QUANTITY
7.00 mS Conductivity Standard Solution	Lot No. ACACS7000-T Exp. 07/2025	1
pH 7.00 Standard Solution	Lot No. 4GF0046 Exp. 06/2026	1
pH 10.00 Standard Solution	Lot No. 4GE1203 Exp. 05/2026	1
pH 4.00 Standard Solution	Lot No. 3GE1074 Exp. 05/2025	0
ORP Standard Solution	Lot No. 24A100343 Exp. 01/16/2029	1
Turbidity Free Water	Lot No. 3GF0946 Exp. 06/2025	1
124 FNU YSI Turbidity Standard	Lot No. 24B24008958 Exp. 02/2025	1
Air Saturated Water	Tap, Bubbler Generated	1

TEST EQUIPMENT USED:

DESCRIPTION	ASSET NO.	SERIAL NO.	DATE OF LAST CAL	DATE CAL DUE

Test Equipment and standards are traceable to National standards.

APPENDIX B:

LABORATORY RESULTS



JUNE 2024
LABORATORY RESULTS



June 27, 2024

Service Request No:R2405445

Ariadna Cheremeteff
Colliers Engineering & Design
280 East Broad Street
Suite 200
Rochester, NY 14604

Laboratory Results for: Gowanda Q2 2024

Dear Ariadna,

Enclosed are the results of the sample(s) submitted to our laboratory June 18, 2024
For your reference, these analyses have been assigned our service request number **R2405445**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7476. You may also contact me via email at Chris.Leavy@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

A handwritten signature in black ink, appearing to read 'Chris Leavy'.

Christopher Leavy
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024
Sample Matrix: Water

Service Request: R2405445
Date Received: 06/18/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Thirty one water samples were received for analysis at ALS Environmental on 06/18/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Volatiles by GC/MS:

Method 8260C, 06/24/2024: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 06/25/2024: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 06/25/2024: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 06/25/2024: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Approved by  _____

Date 06/27/2024



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MW-19R				Lab ID: R2405445-019		
Analyte	Results	Flag	MDL	MRL	Units	Method
Acetone	13			10	ug/L	8260C

CLIENT ID: MW-1				Lab ID: R2405445-001		
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	140			5.0	ug/L	8260C
cis-1,2-Dichloroethene	140	D		25	ug/L	8260C
trans-1,2-Dichloroethene	5.8			5.0	ug/L	8260C
Trichloroethene (TCE)	460	E		5.0	ug/L	8260C
Trichloroethene (TCE)	480	D		25	ug/L	8260C

CLIENT ID: MW-6				Lab ID: R2405445-006		
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	33			5.0	ug/L	8260C
Vinyl Chloride	51			5.0	ug/L	8260C

CLIENT ID: MW-7				Lab ID: R2405445-007		
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	46			5.0	ug/L	8260C

CLIENT ID: MW-11				Lab ID: R2405445-011		
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	70			10	ug/L	8260C
Trichloroethene (TCE)	140			10	ug/L	8260C

CLIENT ID: MW-12				Lab ID: R2405445-012		
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	69			5.0	ug/L	8260C
Trichloroethene (TCE)	25			5.0	ug/L	8260C

CLIENT ID: MW-14				Lab ID: R2405445-014		
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	12			5.0	ug/L	8260C
Trichloroethene (TCE)	12			5.0	ug/L	8260C

CLIENT ID: MW-16				Lab ID: R2405445-016		
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	30			5.0	ug/L	8260C

CLIENT ID: MW-17				Lab ID: R2405445-017		
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	210	E		5.0	ug/L	8260C
cis-1,2-Dichloroethene	210	D		13	ug/L	8260C
Trichloroethene (TCE)	8.4			5.0	ug/L	8260C



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: DR-1		Lab ID: R2405445-022				
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	49			13	ug/L	8260C
Trichloroethene (TCE)	380			13	ug/L	8260C
CLIENT ID: DR-2		Lab ID: R2405445-023				
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	140			5.0	ug/L	8260C
Trichloroethene (TCE)	27			5.0	ug/L	8260C
Vinyl Chloride	5.8			5.0	ug/L	8260C
CLIENT ID: DR-3		Lab ID: R2405445-024				
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	54			5.0	ug/L	8260C
Trichloroethene (TCE)	25			5.0	ug/L	8260C
CLIENT ID: DR-4		Lab ID: R2405445-025				
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	5.2			5.0	ug/L	8260C
Trichloroethene (TCE)	16			5.0	ug/L	8260C
CLIENT ID: G-1		Lab ID: R2405445-026				
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	16			5.0	ug/L	8260C
Trichloroethene (TCE)	6.5			5.0	ug/L	8260C
CLIENT ID: G-2		Lab ID: R2405445-027				
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	56			5.0	ug/L	8260C
CLIENT ID: G-3		Lab ID: R2405445-028				
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	75			5.0	ug/L	8260C
Trichloroethene (TCE)	12			5.0	ug/L	8260C
CLIENT ID: MW-X		Lab ID: R2405445-029				
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	150			13	ug/L	8260C
Trichloroethene (TCE)	420			13	ug/L	8260C



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A

Service Request:R2405445

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2405445-001	MW-1	6/18/2024	0655
R2405445-002	MW-2	6/18/2024	0725
R2405445-003	MW-3	6/18/2024	1025
R2405445-004	MW-4	6/18/2024	1053
R2405445-005	MW-5	6/18/2024	0803
R2405445-006	MW-6	6/18/2024	0825
R2405445-007	MW-7	6/17/2024	1600
R2405445-008	MW-8	6/17/2024	1620
R2405445-009	MW-9	6/17/2024	1655
R2405445-010	MW-10	6/18/2024	0620
R2405445-011	MW-11	6/17/2024	1430
R2405445-012	MW-12	6/17/2024	1325
R2405445-013	MW-13	6/17/2024	1340
R2405445-014	MW-14	6/18/2024	1000
R2405445-015	MW-15	6/17/2024	1142
R2405445-016	MW-16	6/17/2024	1543
R2405445-017	MW-17	6/18/2024	0939
R2405445-018	MW-18	6/18/2024	1200
R2405445-019	MW-19R	6/18/2024	1125
R2405445-020	MW-20	6/18/2024	0748
R2405445-021	MW-21	6/18/2024	1240
R2405445-022	DR-1	6/17/2024	1409
R2405445-023	DR-2	6/17/2024	1313
R2405445-024	DR-3	6/17/2024	1238
R2405445-025	DR-4	6/17/2024	1208
R2405445-026	G-1	6/17/2024	1500
R2405445-027	G-2	6/17/2024	1525
R2405445-028	G-3	6/18/2024	0908
R2405445-029	MW-X	6/18/2024	
R2405445-030	Field Blank	6/18/2024	1250
R2405445-031	Trip Blank	6/18/2024	

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1. The following is a list of the items to be supplied under the contract for the year 2010.

Report On		Project Name		Project No.		Project Location		Project Status		Project Manager		Project Sponsor		Project Stakeholders	
Project Description		Project Objectives		Project Scope		Project Budget		Project Timeline		Project Risks		Project Issues		Project Deliverables	
Project Details		Project Summary		Project Overview		Project Background		Project Context		Project Environment		Project Constraints		Project Assumptions	
Project Analysis		Project Evaluation		Project Assessment		Project Review		Project Audit		Project Inspection		Project Monitoring		Project Control	
Project Results		Project Outcomes		Project Benefits		Project Impacts		Project Lessons		Project Feedback		Project Recommendations		Project Conclusions	
Project Summary		Project Conclusion		Project Recommendation		Project Action Plan		Project Next Steps		Project Follow-up		Project Review		Project Closure	
Project Details		Project Summary		Project Overview		Project Background		Project Context		Project Environment		Project Constraints		Project Assumptions	
Project Analysis		Project Evaluation		Project Assessment		Project Review		Project Audit		Project Inspection		Project Monitoring		Project Control	
Project Results		Project Outcomes		Project Benefits		Project Impacts		Project Lessons		Project Feedback		Project Recommendations		Project Conclusions	
Project Summary		Project Conclusion		Project Recommendation		Project Action Plan		Project Next Steps		Project Follow-up		Project Review		Project Closure	

Full Name: [REDACTED] **Date:** [REDACTED]

Project Name		Project Number		Project Date		Project Location		Project Status		Project Manager		Project Sponsor		Project Stakeholders	
1	Project A	101	102	103	104	105	106	107	108	109	110	111	112	113	114
2	Project B	201	202	203	204	205	206	207	208	209	210	211	212	213	214
3	Project C	301	302	303	304	305	306	307	308	309	310	311	312	313	314
4	Project D	401	402	403	404	405	406	407	408	409	410	411	412	413	414
5	Project E	501	502	503	504	505	506	507	508	509	510	511	512	513	514
6	Project F	601	602	603	604	605	606	607	608	609	610	611	612	613	614
7	Project G	701	702	703	704	705	706	707	708	709	710	711	712	713	714
8	Project H	801	802	803	804	805	806	807	808	809	810	811	812	813	814
9	Project I	901	902	903	904	905	906	907	908	909	910	911	912	913	914
10	Project J	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to <https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx>.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A

Service Request: R2405445

Sample Name: MW-1
Lab Code: R2405445-001
Sample Matrix: Water

Date Collected: 06/18/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-1
Lab Code: R2405445-001.R01
Sample Matrix: Water

Date Collected: 06/18/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-2
Lab Code: R2405445-002
Sample Matrix: Water

Date Collected: 06/18/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-3
Lab Code: R2405445-003
Sample Matrix: Water

Date Collected: 06/18/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-4
Lab Code: R2405445-004
Sample Matrix: Water

Date Collected: 06/18/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A

Service Request: R2405445

Sample Name: MW-5
Lab Code: R2405445-005
Sample Matrix: Water

Date Collected: 06/18/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-6
Lab Code: R2405445-006
Sample Matrix: Water

Date Collected: 06/18/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-7
Lab Code: R2405445-007
Sample Matrix: Water

Date Collected: 06/17/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-8
Lab Code: R2405445-008
Sample Matrix: Water

Date Collected: 06/17/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-9
Lab Code: R2405445-009
Sample Matrix: Water

Date Collected: 06/17/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A

Service Request: R2405445

Sample Name: MW-10
Lab Code: R2405445-010
Sample Matrix: Water

Date Collected: 06/18/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-11
Lab Code: R2405445-011
Sample Matrix: Water

Date Collected: 06/17/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-12
Lab Code: R2405445-012
Sample Matrix: Water

Date Collected: 06/17/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-13
Lab Code: R2405445-013
Sample Matrix: Water

Date Collected: 06/17/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-14
Lab Code: R2405445-014
Sample Matrix: Water

Date Collected: 06/18/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A

Service Request: R2405445

Sample Name: MW-15
Lab Code: R2405445-015
Sample Matrix: Water

Date Collected: 06/17/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-16
Lab Code: R2405445-016
Sample Matrix: Water

Date Collected: 06/17/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-17
Lab Code: R2405445-017
Sample Matrix: Water

Date Collected: 06/18/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-17
Lab Code: R2405445-017.R01
Sample Matrix: Water

Date Collected: 06/18/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-18
Lab Code: R2405445-018
Sample Matrix: Water

Date Collected: 06/18/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

ALS Group USA, Corp.
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Analyst Summary report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A

Service Request: R2405445

Sample Name: MW-19R
Lab Code: R2405445-019
Sample Matrix: Water

Date Collected: 06/18/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-20
Lab Code: R2405445-020
Sample Matrix: Water

Date Collected: 06/18/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-21
Lab Code: R2405445-021
Sample Matrix: Water

Date Collected: 06/18/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: DR-1
Lab Code: R2405445-022
Sample Matrix: Water

Date Collected: 06/17/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: DR-2
Lab Code: R2405445-023
Sample Matrix: Water

Date Collected: 06/17/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

ALS Group USA, Corp.
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Analyst Summary report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A

Service Request: R2405445

Sample Name: DR-3
Lab Code: R2405445-024
Sample Matrix: Water

Date Collected: 06/17/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: DR-4
Lab Code: R2405445-025
Sample Matrix: Water

Date Collected: 06/17/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: G-1
Lab Code: R2405445-026
Sample Matrix: Water

Date Collected: 06/17/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: G-2
Lab Code: R2405445-027
Sample Matrix: Water

Date Collected: 06/17/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: G-3
Lab Code: R2405445-028
Sample Matrix: Water

Date Collected: 06/18/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

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dba ALS Environmental

Analyst Summary report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A

Service Request: R2405445

Sample Name: MW-X
Lab Code: R2405445-029
Sample Matrix: Water

Date Collected: 06/18/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: Field Blank
Lab Code: R2405445-030
Sample Matrix: Water

Date Collected: 06/18/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: Trip Blank
Lab Code: R2405445-031
Sample Matrix: Water

Date Collected: 06/18/24
Date Received: 06/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER



PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

INORGANIC

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C or 6010D	3005A/3010A
6020A or 6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C or 6010D	3050B
6020A or 6020B	3050B
6010C or 6010D TCLP (1311) extract	3005A/3010A
6010C or 6010D SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":

For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.



Sample Results

ALS Environmental—Rochester Laboratory

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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Phone (585) 288-5380 Fax (585) 288-8475

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/18/24 06:55
Date Received: 06/18/24 15:36

Sample Name: MW-1
Lab Code: R2405445-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/24/24 12:46	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/24/24 12:46	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/24/24 12:46	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/24/24 12:46	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/24/24 12:46	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/24/24 12:46	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/24/24 12:46	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/24/24 12:46	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/24/24 12:46	
1,2-Dibromoethane	5.0 U	5.0	1	06/24/24 12:46	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/24/24 12:46	
1,2-Dichloroethane	5.0 U	5.0	1	06/24/24 12:46	
1,2-Dichloropropane	5.0 U	5.0	1	06/24/24 12:46	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/24/24 12:46	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/24/24 12:46	
1,4-Dioxane	100 U	100	1	06/24/24 12:46	
2-Butanone (MEK)	10 U	10	1	06/24/24 12:46	
2-Hexanone	10 U	10	1	06/24/24 12:46	
4-Methyl-2-pentanone	10 U	10	1	06/24/24 12:46	
Acetone	10 U	10	1	06/24/24 12:46	
Benzene	5.0 U	5.0	1	06/24/24 12:46	
Bromochloromethane	5.0 U	5.0	1	06/24/24 12:46	
Bromodichloromethane	5.0 U	5.0	1	06/24/24 12:46	
Bromoform	5.0 U	5.0	1	06/24/24 12:46	
Bromomethane	5.0 U	5.0	1	06/24/24 12:46	
Carbon Disulfide	10 U	10	1	06/24/24 12:46	
Carbon Tetrachloride	5.0 U	5.0	1	06/24/24 12:46	
Chlorobenzene	5.0 U	5.0	1	06/24/24 12:46	
Chloroethane	5.0 U	5.0	1	06/24/24 12:46	
Chloroform	5.0 U	5.0	1	06/24/24 12:46	
Chloromethane	5.0 U	5.0	1	06/24/24 12:46	
Cyclohexane	10 U	10	1	06/24/24 12:46	
Dibromochloromethane	5.0 U	5.0	1	06/24/24 12:46	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/24/24 12:46	
Dichloromethane	5.0 U	5.0	1	06/24/24 12:46	
Ethylbenzene	5.0 U	5.0	1	06/24/24 12:46	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/24/24 12:46	
Methyl Acetate	10 U	10	1	06/24/24 12:46	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/24/24 12:46	
Methylcyclohexane	10 U	10	1	06/24/24 12:46	
Styrene	5.0 U	5.0	1	06/24/24 12:46	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/24/24 12:46	
Toluene	5.0 U	5.0	1	06/24/24 12:46	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: MW-1
Lab Code: R2405445-001

Service Request: R2405445
Date Collected: 06/18/24 06:55
Date Received: 06/18/24 15:36

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	460 E	5.0	1	06/24/24 12:46	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/24/24 12:46	
Vinyl Chloride	5.0 U	5.0	1	06/24/24 12:46	
cis-1,2-Dichloroethene	140	5.0	1	06/24/24 12:46	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 12:46	
m,p-Xylenes	5.0 U	5.0	1	06/24/24 12:46	
o-Xylene	5.0 U	5.0	1	06/24/24 12:46	
trans-1,2-Dichloroethene	5.8	5.0	1	06/24/24 12:46	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 12:46	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	06/24/24 12:46	
Dibromofluoromethane	87	80 - 116	06/24/24 12:46	
Toluene-d8	92	87 - 121	06/24/24 12:46	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water
Sample Name: MW-1
Lab Code: R2405445-001

Service Request: R2405445
Date Collected: 06/18/24 06:55
Date Received: 06/18/24 15:36
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	25 U	25	5	06/25/24 17:27	
1,1,2,2-Tetrachloroethane	25 U	25	5	06/25/24 17:27	
1,1,2-Trichloroethane	25 U	25	5	06/25/24 17:27	
1,1,2-Trichloro-1,2,2-trifluoroethane	25 U	25	5	06/25/24 17:27	
1,1-Dichloroethane (1,1-DCA)	25 U	25	5	06/25/24 17:27	
1,1-Dichloroethene (1,1-DCE)	25 U	25	5	06/25/24 17:27	
1,2,3-Trichlorobenzene	25 U	25	5	06/25/24 17:27	
1,2,4-Trichlorobenzene	25 U	25	5	06/25/24 17:27	
1,2-Dibromo-3-chloropropane (DBCP)	25 U	25	5	06/25/24 17:27	
1,2-Dibromoethane	25 U	25	5	06/25/24 17:27	
1,2-Dichlorobenzene	25 U	25	5	06/25/24 17:27	
1,2-Dichloroethane	25 U	25	5	06/25/24 17:27	
1,2-Dichloropropane	25 U	25	5	06/25/24 17:27	
1,3-Dichlorobenzene	25 U	25	5	06/25/24 17:27	
1,4-Dichlorobenzene	25 U	25	5	06/25/24 17:27	
1,4-Dioxane	500 U	500	5	06/25/24 17:27	
2-Butanone (MEK)	50 U	50	5	06/25/24 17:27	
2-Hexanone	50 U	50	5	06/25/24 17:27	
4-Methyl-2-pentanone	50 U	50	5	06/25/24 17:27	
Acetone	50 U	50	5	06/25/24 17:27	
Benzene	25 U	25	5	06/25/24 17:27	
Bromochloromethane	25 U	25	5	06/25/24 17:27	
Bromodichloromethane	25 U	25	5	06/25/24 17:27	
Bromoform	25 U	25	5	06/25/24 17:27	
Bromomethane	25 U	25	5	06/25/24 17:27	
Carbon Disulfide	50 U	50	5	06/25/24 17:27	
Carbon Tetrachloride	25 U	25	5	06/25/24 17:27	
Chlorobenzene	25 U	25	5	06/25/24 17:27	
Chloroethane	25 U	25	5	06/25/24 17:27	
Chloroform	25 U	25	5	06/25/24 17:27	
Chloromethane	25 U	25	5	06/25/24 17:27	
Cyclohexane	50 U	50	5	06/25/24 17:27	
Dibromochloromethane	25 U	25	5	06/25/24 17:27	
Dichlorodifluoromethane (CFC 12)	25 U	25	5	06/25/24 17:27	
Dichloromethane	25 U	25	5	06/25/24 17:27	
Ethylbenzene	25 U	25	5	06/25/24 17:27	
Isopropylbenzene (Cumene)	25 U	25	5	06/25/24 17:27	
Methyl Acetate	50 U	50	5	06/25/24 17:27	
Methyl tert-Butyl Ether	25 U	25	5	06/25/24 17:27	
Methylcyclohexane	50 U	50	5	06/25/24 17:27	
Styrene	25 U	25	5	06/25/24 17:27	
Tetrachloroethene (PCE)	25 U	25	5	06/25/24 17:27	
Toluene	25 U	25	5	06/25/24 17:27	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: MW-1
Lab Code: R2405445-001

Service Request: R2405445
Date Collected: 06/18/24 06:55
Date Received: 06/18/24 15:36

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	480 D	25	5	06/25/24 17:27	
Trichlorofluoromethane (CFC 11)	25 U	25	5	06/25/24 17:27	
Vinyl Chloride	25 U	25	5	06/25/24 17:27	
cis-1,2-Dichloroethene	140 D	25	5	06/25/24 17:27	
cis-1,3-Dichloropropene	25 U	25	5	06/25/24 17:27	
m,p-Xylenes	25 U	25	5	06/25/24 17:27	
o-Xylene	25 U	25	5	06/25/24 17:27	
trans-1,2-Dichloroethene	25 U	25	5	06/25/24 17:27	
trans-1,3-Dichloropropene	25 U	25	5	06/25/24 17:27	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	85 - 122	06/25/24 17:27	
Dibromofluoromethane	92	80 - 116	06/25/24 17:27	
Toluene-d8	108	87 - 121	06/25/24 17:27	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/18/24 07:25
Date Received: 06/18/24 15:36

Sample Name: MW-2
Lab Code: R2405445-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/24/24 13:09	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/24/24 13:09	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/24/24 13:09	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/24/24 13:09	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/24/24 13:09	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/24/24 13:09	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/24/24 13:09	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/24/24 13:09	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/24/24 13:09	
1,2-Dibromoethane	5.0 U	5.0	1	06/24/24 13:09	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/24/24 13:09	
1,2-Dichloroethane	5.0 U	5.0	1	06/24/24 13:09	
1,2-Dichloropropane	5.0 U	5.0	1	06/24/24 13:09	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/24/24 13:09	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/24/24 13:09	
1,4-Dioxane	100 U	100	1	06/24/24 13:09	
2-Butanone (MEK)	10 U	10	1	06/24/24 13:09	
2-Hexanone	10 U	10	1	06/24/24 13:09	
4-Methyl-2-pentanone	10 U	10	1	06/24/24 13:09	
Acetone	10 U	10	1	06/24/24 13:09	
Benzene	5.0 U	5.0	1	06/24/24 13:09	
Bromochloromethane	5.0 U	5.0	1	06/24/24 13:09	
Bromodichloromethane	5.0 U	5.0	1	06/24/24 13:09	
Bromoform	5.0 U	5.0	1	06/24/24 13:09	
Bromomethane	5.0 U	5.0	1	06/24/24 13:09	
Carbon Disulfide	10 U	10	1	06/24/24 13:09	
Carbon Tetrachloride	5.0 U	5.0	1	06/24/24 13:09	
Chlorobenzene	5.0 U	5.0	1	06/24/24 13:09	
Chloroethane	5.0 U	5.0	1	06/24/24 13:09	
Chloroform	5.0 U	5.0	1	06/24/24 13:09	
Chloromethane	5.0 U	5.0	1	06/24/24 13:09	
Cyclohexane	10 U	10	1	06/24/24 13:09	
Dibromochloromethane	5.0 U	5.0	1	06/24/24 13:09	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/24/24 13:09	
Dichloromethane	5.0 U	5.0	1	06/24/24 13:09	
Ethylbenzene	5.0 U	5.0	1	06/24/24 13:09	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/24/24 13:09	
Methyl Acetate	10 U	10	1	06/24/24 13:09	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/24/24 13:09	
Methylcyclohexane	10 U	10	1	06/24/24 13:09	
Styrene	5.0 U	5.0	1	06/24/24 13:09	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/24/24 13:09	
Toluene	5.0 U	5.0	1	06/24/24 13:09	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water
Sample Name: MW-2
Lab Code: R2405445-002

Service Request: R2405445
Date Collected: 06/18/24 07:25
Date Received: 06/18/24 15:36
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	06/24/24 13:09	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/24/24 13:09	
Vinyl Chloride	5.0 U	5.0	1	06/24/24 13:09	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 13:09	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 13:09	
m,p-Xylenes	5.0 U	5.0	1	06/24/24 13:09	
o-Xylene	5.0 U	5.0	1	06/24/24 13:09	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 13:09	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 13:09	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	85 - 122	06/24/24 13:09	
Dibromofluoromethane	87	80 - 116	06/24/24 13:09	
Toluene-d8	93	87 - 121	06/24/24 13:09	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/18/24 10:25
Date Received: 06/18/24 15:36

Sample Name: MW-3
Lab Code: R2405445-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/24/24 13:31	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/24/24 13:31	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/24/24 13:31	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/24/24 13:31	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/24/24 13:31	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/24/24 13:31	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/24/24 13:31	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/24/24 13:31	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/24/24 13:31	
1,2-Dibromoethane	5.0 U	5.0	1	06/24/24 13:31	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/24/24 13:31	
1,2-Dichloroethane	5.0 U	5.0	1	06/24/24 13:31	
1,2-Dichloropropane	5.0 U	5.0	1	06/24/24 13:31	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/24/24 13:31	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/24/24 13:31	
1,4-Dioxane	100 U	100	1	06/24/24 13:31	
2-Butanone (MEK)	10 U	10	1	06/24/24 13:31	
2-Hexanone	10 U	10	1	06/24/24 13:31	
4-Methyl-2-pentanone	10 U	10	1	06/24/24 13:31	
Acetone	10 U	10	1	06/24/24 13:31	
Benzene	5.0 U	5.0	1	06/24/24 13:31	
Bromochloromethane	5.0 U	5.0	1	06/24/24 13:31	
Bromodichloromethane	5.0 U	5.0	1	06/24/24 13:31	
Bromoform	5.0 U	5.0	1	06/24/24 13:31	
Bromomethane	5.0 U	5.0	1	06/24/24 13:31	
Carbon Disulfide	10 U	10	1	06/24/24 13:31	
Carbon Tetrachloride	5.0 U	5.0	1	06/24/24 13:31	
Chlorobenzene	5.0 U	5.0	1	06/24/24 13:31	
Chloroethane	5.0 U	5.0	1	06/24/24 13:31	
Chloroform	5.0 U	5.0	1	06/24/24 13:31	
Chloromethane	5.0 U	5.0	1	06/24/24 13:31	
Cyclohexane	10 U	10	1	06/24/24 13:31	
Dibromochloromethane	5.0 U	5.0	1	06/24/24 13:31	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/24/24 13:31	
Dichloromethane	5.0 U	5.0	1	06/24/24 13:31	
Ethylbenzene	5.0 U	5.0	1	06/24/24 13:31	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/24/24 13:31	
Methyl Acetate	10 U	10	1	06/24/24 13:31	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/24/24 13:31	
Methylcyclohexane	10 U	10	1	06/24/24 13:31	
Styrene	5.0 U	5.0	1	06/24/24 13:31	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/24/24 13:31	
Toluene	5.0 U	5.0	1	06/24/24 13:31	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: MW-3
Lab Code: R2405445-003

Service Request: R2405445
Date Collected: 06/18/24 10:25
Date Received: 06/18/24 15:36

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	06/24/24 13:31	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/24/24 13:31	
Vinyl Chloride	5.0 U	5.0	1	06/24/24 13:31	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 13:31	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 13:31	
m,p-Xylenes	5.0 U	5.0	1	06/24/24 13:31	
o-Xylene	5.0 U	5.0	1	06/24/24 13:31	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 13:31	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 13:31	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	06/24/24 13:31	
Dibromofluoromethane	91	80 - 116	06/24/24 13:31	
Toluene-d8	95	87 - 121	06/24/24 13:31	

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dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/18/24 10:53
Date Received: 06/18/24 15:36

Sample Name: MW-4
Lab Code: R2405445-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/24/24 13:54	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/24/24 13:54	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/24/24 13:54	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/24/24 13:54	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/24/24 13:54	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/24/24 13:54	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/24/24 13:54	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/24/24 13:54	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/24/24 13:54	
1,2-Dibromoethane	5.0 U	5.0	1	06/24/24 13:54	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/24/24 13:54	
1,2-Dichloroethane	5.0 U	5.0	1	06/24/24 13:54	
1,2-Dichloropropane	5.0 U	5.0	1	06/24/24 13:54	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/24/24 13:54	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/24/24 13:54	
1,4-Dioxane	100 U	100	1	06/24/24 13:54	
2-Butanone (MEK)	10 U	10	1	06/24/24 13:54	
2-Hexanone	10 U	10	1	06/24/24 13:54	
4-Methyl-2-pentanone	10 U	10	1	06/24/24 13:54	
Acetone	10 U	10	1	06/24/24 13:54	
Benzene	5.0 U	5.0	1	06/24/24 13:54	
Bromochloromethane	5.0 U	5.0	1	06/24/24 13:54	
Bromodichloromethane	5.0 U	5.0	1	06/24/24 13:54	
Bromoform	5.0 U	5.0	1	06/24/24 13:54	
Bromomethane	5.0 U	5.0	1	06/24/24 13:54	
Carbon Disulfide	10 U	10	1	06/24/24 13:54	
Carbon Tetrachloride	5.0 U	5.0	1	06/24/24 13:54	
Chlorobenzene	5.0 U	5.0	1	06/24/24 13:54	
Chloroethane	5.0 U	5.0	1	06/24/24 13:54	
Chloroform	5.0 U	5.0	1	06/24/24 13:54	
Chloromethane	5.0 U	5.0	1	06/24/24 13:54	
Cyclohexane	10 U	10	1	06/24/24 13:54	
Dibromochloromethane	5.0 U	5.0	1	06/24/24 13:54	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/24/24 13:54	
Dichloromethane	5.0 U	5.0	1	06/24/24 13:54	
Ethylbenzene	5.0 U	5.0	1	06/24/24 13:54	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/24/24 13:54	
Methyl Acetate	10 U	10	1	06/24/24 13:54	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/24/24 13:54	
Methylcyclohexane	10 U	10	1	06/24/24 13:54	
Styrene	5.0 U	5.0	1	06/24/24 13:54	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/24/24 13:54	
Toluene	5.0 U	5.0	1	06/24/24 13:54	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water
Sample Name: MW-4
Lab Code: R2405445-004

Service Request: R2405445
Date Collected: 06/18/24 10:53
Date Received: 06/18/24 15:36
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	06/24/24 13:54	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/24/24 13:54	
Vinyl Chloride	5.0 U	5.0	1	06/24/24 13:54	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 13:54	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 13:54	
m,p-Xylenes	5.0 U	5.0	1	06/24/24 13:54	
o-Xylene	5.0 U	5.0	1	06/24/24 13:54	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 13:54	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 13:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	06/24/24 13:54	
Dibromofluoromethane	94	80 - 116	06/24/24 13:54	
Toluene-d8	97	87 - 121	06/24/24 13:54	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/18/24 08:03
Date Received: 06/18/24 15:36

Sample Name: MW-5
Lab Code: R2405445-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/24/24 14:17	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/24/24 14:17	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/24/24 14:17	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/24/24 14:17	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/24/24 14:17	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/24/24 14:17	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/24/24 14:17	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/24/24 14:17	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/24/24 14:17	
1,2-Dibromoethane	5.0 U	5.0	1	06/24/24 14:17	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/24/24 14:17	
1,2-Dichloroethane	5.0 U	5.0	1	06/24/24 14:17	
1,2-Dichloropropane	5.0 U	5.0	1	06/24/24 14:17	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/24/24 14:17	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/24/24 14:17	
1,4-Dioxane	100 U	100	1	06/24/24 14:17	
2-Butanone (MEK)	10 U	10	1	06/24/24 14:17	
2-Hexanone	10 U	10	1	06/24/24 14:17	
4-Methyl-2-pentanone	10 U	10	1	06/24/24 14:17	
Acetone	10 U	10	1	06/24/24 14:17	
Benzene	5.0 U	5.0	1	06/24/24 14:17	
Bromochloromethane	5.0 U	5.0	1	06/24/24 14:17	
Bromodichloromethane	5.0 U	5.0	1	06/24/24 14:17	
Bromoform	5.0 U	5.0	1	06/24/24 14:17	
Bromomethane	5.0 U	5.0	1	06/24/24 14:17	
Carbon Disulfide	10 U	10	1	06/24/24 14:17	
Carbon Tetrachloride	5.0 U	5.0	1	06/24/24 14:17	
Chlorobenzene	5.0 U	5.0	1	06/24/24 14:17	
Chloroethane	5.0 U	5.0	1	06/24/24 14:17	
Chloroform	5.0 U	5.0	1	06/24/24 14:17	
Chloromethane	5.0 U	5.0	1	06/24/24 14:17	
Cyclohexane	10 U	10	1	06/24/24 14:17	
Dibromochloromethane	5.0 U	5.0	1	06/24/24 14:17	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/24/24 14:17	
Dichloromethane	5.0 U	5.0	1	06/24/24 14:17	
Ethylbenzene	5.0 U	5.0	1	06/24/24 14:17	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/24/24 14:17	
Methyl Acetate	10 U	10	1	06/24/24 14:17	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/24/24 14:17	
Methylcyclohexane	10 U	10	1	06/24/24 14:17	
Styrene	5.0 U	5.0	1	06/24/24 14:17	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/24/24 14:17	
Toluene	5.0 U	5.0	1	06/24/24 14:17	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water
Sample Name: MW-5
Lab Code: R2405445-005

Service Request: R2405445
Date Collected: 06/18/24 08:03
Date Received: 06/18/24 15:36

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	06/24/24 14:17	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/24/24 14:17	
Vinyl Chloride	5.0 U	5.0	1	06/24/24 14:17	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 14:17	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 14:17	
m,p-Xylenes	5.0 U	5.0	1	06/24/24 14:17	
o-Xylene	5.0 U	5.0	1	06/24/24 14:17	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 14:17	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 14:17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	06/24/24 14:17	
Dibromofluoromethane	96	80 - 116	06/24/24 14:17	
Toluene-d8	101	87 - 121	06/24/24 14:17	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/18/24 08:25
Date Received: 06/18/24 15:36

Sample Name: MW-6
Lab Code: R2405445-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/24/24 14:40	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/24/24 14:40	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/24/24 14:40	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/24/24 14:40	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/24/24 14:40	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/24/24 14:40	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/24/24 14:40	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/24/24 14:40	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/24/24 14:40	
1,2-Dibromoethane	5.0 U	5.0	1	06/24/24 14:40	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/24/24 14:40	
1,2-Dichloroethane	5.0 U	5.0	1	06/24/24 14:40	
1,2-Dichloropropane	5.0 U	5.0	1	06/24/24 14:40	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/24/24 14:40	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/24/24 14:40	
1,4-Dioxane	100 U	100	1	06/24/24 14:40	
2-Butanone (MEK)	10 U	10	1	06/24/24 14:40	
2-Hexanone	10 U	10	1	06/24/24 14:40	
4-Methyl-2-pentanone	10 U	10	1	06/24/24 14:40	
Acetone	10 U	10	1	06/24/24 14:40	
Benzene	5.0 U	5.0	1	06/24/24 14:40	
Bromochloromethane	5.0 U	5.0	1	06/24/24 14:40	
Bromodichloromethane	5.0 U	5.0	1	06/24/24 14:40	
Bromoform	5.0 U	5.0	1	06/24/24 14:40	
Bromomethane	5.0 U	5.0	1	06/24/24 14:40	
Carbon Disulfide	10 U	10	1	06/24/24 14:40	
Carbon Tetrachloride	5.0 U	5.0	1	06/24/24 14:40	
Chlorobenzene	5.0 U	5.0	1	06/24/24 14:40	
Chloroethane	5.0 U	5.0	1	06/24/24 14:40	
Chloroform	5.0 U	5.0	1	06/24/24 14:40	
Chloromethane	5.0 U	5.0	1	06/24/24 14:40	
Cyclohexane	10 U	10	1	06/24/24 14:40	
Dibromochloromethane	5.0 U	5.0	1	06/24/24 14:40	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/24/24 14:40	
Dichloromethane	5.0 U	5.0	1	06/24/24 14:40	
Ethylbenzene	5.0 U	5.0	1	06/24/24 14:40	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/24/24 14:40	
Methyl Acetate	10 U	10	1	06/24/24 14:40	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/24/24 14:40	
Methylcyclohexane	10 U	10	1	06/24/24 14:40	
Styrene	5.0 U	5.0	1	06/24/24 14:40	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/24/24 14:40	
Toluene	5.0 U	5.0	1	06/24/24 14:40	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: MW-6
Lab Code: R2405445-006

Service Request: R2405445
Date Collected: 06/18/24 08:25
Date Received: 06/18/24 15:36

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	06/24/24 14:40	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/24/24 14:40	
Vinyl Chloride	51	5.0	1	06/24/24 14:40	
cis-1,2-Dichloroethene	33	5.0	1	06/24/24 14:40	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 14:40	
m,p-Xylenes	5.0 U	5.0	1	06/24/24 14:40	
o-Xylene	5.0 U	5.0	1	06/24/24 14:40	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 14:40	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 14:40	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	06/24/24 14:40	
Dibromofluoromethane	94	80 - 116	06/24/24 14:40	
Toluene-d8	98	87 - 121	06/24/24 14:40	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: MW-7
Lab Code: R2405445-007

Service Request: R2405445
Date Collected: 06/17/24 16:00
Date Received: 06/18/24 15:36

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/24/24 15:02	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/24/24 15:02	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/24/24 15:02	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/24/24 15:02	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/24/24 15:02	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/24/24 15:02	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/24/24 15:02	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/24/24 15:02	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/24/24 15:02	
1,2-Dibromoethane	5.0 U	5.0	1	06/24/24 15:02	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/24/24 15:02	
1,2-Dichloroethane	5.0 U	5.0	1	06/24/24 15:02	
1,2-Dichloropropane	5.0 U	5.0	1	06/24/24 15:02	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/24/24 15:02	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/24/24 15:02	
1,4-Dioxane	100 U	100	1	06/24/24 15:02	
2-Butanone (MEK)	10 U	10	1	06/24/24 15:02	
2-Hexanone	10 U	10	1	06/24/24 15:02	
4-Methyl-2-pentanone	10 U	10	1	06/24/24 15:02	
Acetone	10 U	10	1	06/24/24 15:02	
Benzene	5.0 U	5.0	1	06/24/24 15:02	
Bromochloromethane	5.0 U	5.0	1	06/24/24 15:02	
Bromodichloromethane	5.0 U	5.0	1	06/24/24 15:02	
Bromoform	5.0 U	5.0	1	06/24/24 15:02	
Bromomethane	5.0 U	5.0	1	06/24/24 15:02	
Carbon Disulfide	10 U	10	1	06/24/24 15:02	
Carbon Tetrachloride	5.0 U	5.0	1	06/24/24 15:02	
Chlorobenzene	5.0 U	5.0	1	06/24/24 15:02	
Chloroethane	5.0 U	5.0	1	06/24/24 15:02	
Chloroform	5.0 U	5.0	1	06/24/24 15:02	
Chloromethane	5.0 U	5.0	1	06/24/24 15:02	
Cyclohexane	10 U	10	1	06/24/24 15:02	
Dibromochloromethane	5.0 U	5.0	1	06/24/24 15:02	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/24/24 15:02	
Dichloromethane	5.0 U	5.0	1	06/24/24 15:02	
Ethylbenzene	5.0 U	5.0	1	06/24/24 15:02	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/24/24 15:02	
Methyl Acetate	10 U	10	1	06/24/24 15:02	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/24/24 15:02	
Methylcyclohexane	10 U	10	1	06/24/24 15:02	
Styrene	5.0 U	5.0	1	06/24/24 15:02	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/24/24 15:02	
Toluene	5.0 U	5.0	1	06/24/24 15:02	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: MW-7
Lab Code: R2405445-007

Service Request: R2405445
Date Collected: 06/17/24 16:00
Date Received: 06/18/24 15:36

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	06/24/24 15:02	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/24/24 15:02	
Vinyl Chloride	5.0 U	5.0	1	06/24/24 15:02	
cis-1,2-Dichloroethene	46	5.0	1	06/24/24 15:02	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 15:02	
m,p-Xylenes	5.0 U	5.0	1	06/24/24 15:02	
o-Xylene	5.0 U	5.0	1	06/24/24 15:02	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 15:02	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 15:02	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	06/24/24 15:02	
Dibromofluoromethane	93	80 - 116	06/24/24 15:02	
Toluene-d8	99	87 - 121	06/24/24 15:02	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/17/24 16:20
Date Received: 06/18/24 15:36

Sample Name: MW-8
Lab Code: R2405445-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/24/24 15:25	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/24/24 15:25	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/24/24 15:25	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/24/24 15:25	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/24/24 15:25	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/24/24 15:25	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/24/24 15:25	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/24/24 15:25	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/24/24 15:25	
1,2-Dibromoethane	5.0 U	5.0	1	06/24/24 15:25	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/24/24 15:25	
1,2-Dichloroethane	5.0 U	5.0	1	06/24/24 15:25	
1,2-Dichloropropane	5.0 U	5.0	1	06/24/24 15:25	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/24/24 15:25	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/24/24 15:25	
1,4-Dioxane	100 U	100	1	06/24/24 15:25	
2-Butanone (MEK)	10 U	10	1	06/24/24 15:25	
2-Hexanone	10 U	10	1	06/24/24 15:25	
4-Methyl-2-pentanone	10 U	10	1	06/24/24 15:25	
Acetone	10 U	10	1	06/24/24 15:25	
Benzene	5.0 U	5.0	1	06/24/24 15:25	
Bromochloromethane	5.0 U	5.0	1	06/24/24 15:25	
Bromodichloromethane	5.0 U	5.0	1	06/24/24 15:25	
Bromoform	5.0 U	5.0	1	06/24/24 15:25	
Bromomethane	5.0 U	5.0	1	06/24/24 15:25	
Carbon Disulfide	10 U	10	1	06/24/24 15:25	
Carbon Tetrachloride	5.0 U	5.0	1	06/24/24 15:25	
Chlorobenzene	5.0 U	5.0	1	06/24/24 15:25	
Chloroethane	5.0 U	5.0	1	06/24/24 15:25	
Chloroform	5.0 U	5.0	1	06/24/24 15:25	
Chloromethane	5.0 U	5.0	1	06/24/24 15:25	
Cyclohexane	10 U	10	1	06/24/24 15:25	
Dibromochloromethane	5.0 U	5.0	1	06/24/24 15:25	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/24/24 15:25	
Dichloromethane	5.0 U	5.0	1	06/24/24 15:25	
Ethylbenzene	5.0 U	5.0	1	06/24/24 15:25	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/24/24 15:25	
Methyl Acetate	10 U	10	1	06/24/24 15:25	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/24/24 15:25	
Methylcyclohexane	10 U	10	1	06/24/24 15:25	
Styrene	5.0 U	5.0	1	06/24/24 15:25	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/24/24 15:25	
Toluene	5.0 U	5.0	1	06/24/24 15:25	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: MW-8
Lab Code: R2405445-008

Service Request: R2405445
Date Collected: 06/17/24 16:20
Date Received: 06/18/24 15:36

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	06/24/24 15:25	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/24/24 15:25	
Vinyl Chloride	5.0 U	5.0	1	06/24/24 15:25	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 15:25	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 15:25	
m,p-Xylenes	5.0 U	5.0	1	06/24/24 15:25	
o-Xylene	5.0 U	5.0	1	06/24/24 15:25	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 15:25	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 15:25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	06/24/24 15:25	
Dibromofluoromethane	90	80 - 116	06/24/24 15:25	
Toluene-d8	96	87 - 121	06/24/24 15:25	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/17/24 16:55
Date Received: 06/18/24 15:36

Sample Name: MW-9
Lab Code: R2405445-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/24/24 15:48	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/24/24 15:48	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/24/24 15:48	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/24/24 15:48	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/24/24 15:48	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/24/24 15:48	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/24/24 15:48	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/24/24 15:48	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/24/24 15:48	
1,2-Dibromoethane	5.0 U	5.0	1	06/24/24 15:48	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/24/24 15:48	
1,2-Dichloroethane	5.0 U	5.0	1	06/24/24 15:48	
1,2-Dichloropropane	5.0 U	5.0	1	06/24/24 15:48	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/24/24 15:48	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/24/24 15:48	
1,4-Dioxane	100 U	100	1	06/24/24 15:48	
2-Butanone (MEK)	10 U	10	1	06/24/24 15:48	
2-Hexanone	10 U	10	1	06/24/24 15:48	
4-Methyl-2-pentanone	10 U	10	1	06/24/24 15:48	
Acetone	10 U	10	1	06/24/24 15:48	
Benzene	5.0 U	5.0	1	06/24/24 15:48	
Bromochloromethane	5.0 U	5.0	1	06/24/24 15:48	
Bromodichloromethane	5.0 U	5.0	1	06/24/24 15:48	
Bromoform	5.0 U	5.0	1	06/24/24 15:48	
Bromomethane	5.0 U	5.0	1	06/24/24 15:48	
Carbon Disulfide	10 U	10	1	06/24/24 15:48	
Carbon Tetrachloride	5.0 U	5.0	1	06/24/24 15:48	
Chlorobenzene	5.0 U	5.0	1	06/24/24 15:48	
Chloroethane	5.0 U	5.0	1	06/24/24 15:48	
Chloroform	5.0 U	5.0	1	06/24/24 15:48	
Chloromethane	5.0 U	5.0	1	06/24/24 15:48	
Cyclohexane	10 U	10	1	06/24/24 15:48	
Dibromochloromethane	5.0 U	5.0	1	06/24/24 15:48	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/24/24 15:48	
Dichloromethane	5.0 U	5.0	1	06/24/24 15:48	
Ethylbenzene	5.0 U	5.0	1	06/24/24 15:48	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/24/24 15:48	
Methyl Acetate	10 U	10	1	06/24/24 15:48	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/24/24 15:48	
Methylcyclohexane	10 U	10	1	06/24/24 15:48	
Styrene	5.0 U	5.0	1	06/24/24 15:48	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/24/24 15:48	
Toluene	5.0 U	5.0	1	06/24/24 15:48	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: MW-9
Lab Code: R2405445-009

Service Request: R2405445
Date Collected: 06/17/24 16:55
Date Received: 06/18/24 15:36

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	06/24/24 15:48	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/24/24 15:48	
Vinyl Chloride	5.0 U	5.0	1	06/24/24 15:48	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 15:48	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 15:48	
m,p-Xylenes	5.0 U	5.0	1	06/24/24 15:48	
o-Xylene	5.0 U	5.0	1	06/24/24 15:48	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 15:48	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 15:48	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	06/24/24 15:48	
Dibromofluoromethane	90	80 - 116	06/24/24 15:48	
Toluene-d8	94	87 - 121	06/24/24 15:48	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/18/24 06:20
Date Received: 06/18/24 15:36

Sample Name: MW-10
Lab Code: R2405445-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/24/24 16:11	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/24/24 16:11	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/24/24 16:11	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/24/24 16:11	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/24/24 16:11	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/24/24 16:11	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/24/24 16:11	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/24/24 16:11	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/24/24 16:11	
1,2-Dibromoethane	5.0 U	5.0	1	06/24/24 16:11	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/24/24 16:11	
1,2-Dichloroethane	5.0 U	5.0	1	06/24/24 16:11	
1,2-Dichloropropane	5.0 U	5.0	1	06/24/24 16:11	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/24/24 16:11	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/24/24 16:11	
1,4-Dioxane	100 U	100	1	06/24/24 16:11	
2-Butanone (MEK)	10 U	10	1	06/24/24 16:11	
2-Hexanone	10 U	10	1	06/24/24 16:11	
4-Methyl-2-pentanone	10 U	10	1	06/24/24 16:11	
Acetone	10 U	10	1	06/24/24 16:11	
Benzene	5.0 U	5.0	1	06/24/24 16:11	
Bromochloromethane	5.0 U	5.0	1	06/24/24 16:11	
Bromodichloromethane	5.0 U	5.0	1	06/24/24 16:11	
Bromoform	5.0 U	5.0	1	06/24/24 16:11	
Bromomethane	5.0 U	5.0	1	06/24/24 16:11	
Carbon Disulfide	10 U	10	1	06/24/24 16:11	
Carbon Tetrachloride	5.0 U	5.0	1	06/24/24 16:11	
Chlorobenzene	5.0 U	5.0	1	06/24/24 16:11	
Chloroethane	5.0 U	5.0	1	06/24/24 16:11	
Chloroform	5.0 U	5.0	1	06/24/24 16:11	
Chloromethane	5.0 U	5.0	1	06/24/24 16:11	
Cyclohexane	10 U	10	1	06/24/24 16:11	
Dibromochloromethane	5.0 U	5.0	1	06/24/24 16:11	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/24/24 16:11	
Dichloromethane	5.0 U	5.0	1	06/24/24 16:11	
Ethylbenzene	5.0 U	5.0	1	06/24/24 16:11	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/24/24 16:11	
Methyl Acetate	10 U	10	1	06/24/24 16:11	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/24/24 16:11	
Methylcyclohexane	10 U	10	1	06/24/24 16:11	
Styrene	5.0 U	5.0	1	06/24/24 16:11	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/24/24 16:11	
Toluene	5.0 U	5.0	1	06/24/24 16:11	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water
Sample Name: MW-10
Lab Code: R2405445-010

Service Request: R2405445
Date Collected: 06/18/24 06:20
Date Received: 06/18/24 15:36
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	06/24/24 16:11	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/24/24 16:11	
Vinyl Chloride	5.0 U	5.0	1	06/24/24 16:11	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 16:11	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 16:11	
m,p-Xylenes	5.0 U	5.0	1	06/24/24 16:11	
o-Xylene	5.0 U	5.0	1	06/24/24 16:11	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 16:11	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 16:11	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	06/24/24 16:11	
Dibromofluoromethane	89	80 - 116	06/24/24 16:11	
Toluene-d8	93	87 - 121	06/24/24 16:11	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/17/24 14:30
Date Received: 06/18/24 15:36

Sample Name: MW-11
Lab Code: R2405445-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	10 U	10	2	06/24/24 16:33	
1,1,2,2-Tetrachloroethane	10 U	10	2	06/24/24 16:33	
1,1,2-Trichloroethane	10 U	10	2	06/24/24 16:33	
1,1,2-Trichloro-1,2,2-trifluoroethane	10 U	10	2	06/24/24 16:33	
1,1-Dichloroethane (1,1-DCA)	10 U	10	2	06/24/24 16:33	
1,1-Dichloroethene (1,1-DCE)	10 U	10	2	06/24/24 16:33	
1,2,3-Trichlorobenzene	10 U	10	2	06/24/24 16:33	
1,2,4-Trichlorobenzene	10 U	10	2	06/24/24 16:33	
1,2-Dibromo-3-chloropropane (DBCP)	10 U	10	2	06/24/24 16:33	
1,2-Dibromoethane	10 U	10	2	06/24/24 16:33	
1,2-Dichlorobenzene	10 U	10	2	06/24/24 16:33	
1,2-Dichloroethane	10 U	10	2	06/24/24 16:33	
1,2-Dichloropropane	10 U	10	2	06/24/24 16:33	
1,3-Dichlorobenzene	10 U	10	2	06/24/24 16:33	
1,4-Dichlorobenzene	10 U	10	2	06/24/24 16:33	
1,4-Dioxane	200 U	200	2	06/24/24 16:33	
2-Butanone (MEK)	20 U	20	2	06/24/24 16:33	
2-Hexanone	20 U	20	2	06/24/24 16:33	
4-Methyl-2-pentanone	20 U	20	2	06/24/24 16:33	
Acetone	20 U	20	2	06/24/24 16:33	
Benzene	10 U	10	2	06/24/24 16:33	
Bromochloromethane	10 U	10	2	06/24/24 16:33	
Bromodichloromethane	10 U	10	2	06/24/24 16:33	
Bromoform	10 U	10	2	06/24/24 16:33	
Bromomethane	10 U	10	2	06/24/24 16:33	
Carbon Disulfide	20 U	20	2	06/24/24 16:33	
Carbon Tetrachloride	10 U	10	2	06/24/24 16:33	
Chlorobenzene	10 U	10	2	06/24/24 16:33	
Chloroethane	10 U	10	2	06/24/24 16:33	
Chloroform	10 U	10	2	06/24/24 16:33	
Chloromethane	10 U	10	2	06/24/24 16:33	
Cyclohexane	20 U	20	2	06/24/24 16:33	
Dibromochloromethane	10 U	10	2	06/24/24 16:33	
Dichlorodifluoromethane (CFC 12)	10 U	10	2	06/24/24 16:33	
Dichloromethane	10 U	10	2	06/24/24 16:33	
Ethylbenzene	10 U	10	2	06/24/24 16:33	
Isopropylbenzene (Cumene)	10 U	10	2	06/24/24 16:33	
Methyl Acetate	20 U	20	2	06/24/24 16:33	
Methyl tert-Butyl Ether	10 U	10	2	06/24/24 16:33	
Methylcyclohexane	20 U	20	2	06/24/24 16:33	
Styrene	10 U	10	2	06/24/24 16:33	
Tetrachloroethene (PCE)	10 U	10	2	06/24/24 16:33	
Toluene	10 U	10	2	06/24/24 16:33	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: MW-11
Lab Code: R2405445-011

Service Request: R2405445
Date Collected: 06/17/24 14:30
Date Received: 06/18/24 15:36

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	140	10	2	06/24/24 16:33	
Trichlorofluoromethane (CFC 11)	10 U	10	2	06/24/24 16:33	
Vinyl Chloride	10 U	10	2	06/24/24 16:33	
cis-1,2-Dichloroethene	70	10	2	06/24/24 16:33	
cis-1,3-Dichloropropene	10 U	10	2	06/24/24 16:33	
m,p-Xylenes	10 U	10	2	06/24/24 16:33	
o-Xylene	10 U	10	2	06/24/24 16:33	
trans-1,2-Dichloroethene	10 U	10	2	06/24/24 16:33	
trans-1,3-Dichloropropene	10 U	10	2	06/24/24 16:33	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	06/24/24 16:33	
Dibromofluoromethane	97	80 - 116	06/24/24 16:33	
Toluene-d8	101	87 - 121	06/24/24 16:33	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/17/24 13:25
Date Received: 06/18/24 15:36

Sample Name: MW-12
Lab Code: R2405445-012

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/24/24 16:56	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/24/24 16:56	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/24/24 16:56	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/24/24 16:56	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/24/24 16:56	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/24/24 16:56	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/24/24 16:56	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/24/24 16:56	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/24/24 16:56	
1,2-Dibromoethane	5.0 U	5.0	1	06/24/24 16:56	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/24/24 16:56	
1,2-Dichloroethane	5.0 U	5.0	1	06/24/24 16:56	
1,2-Dichloropropane	5.0 U	5.0	1	06/24/24 16:56	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/24/24 16:56	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/24/24 16:56	
1,4-Dioxane	100 U	100	1	06/24/24 16:56	
2-Butanone (MEK)	10 U	10	1	06/24/24 16:56	
2-Hexanone	10 U	10	1	06/24/24 16:56	
4-Methyl-2-pentanone	10 U	10	1	06/24/24 16:56	
Acetone	10 U	10	1	06/24/24 16:56	
Benzene	5.0 U	5.0	1	06/24/24 16:56	
Bromochloromethane	5.0 U	5.0	1	06/24/24 16:56	
Bromodichloromethane	5.0 U	5.0	1	06/24/24 16:56	
Bromoform	5.0 U	5.0	1	06/24/24 16:56	
Bromomethane	5.0 U	5.0	1	06/24/24 16:56	
Carbon Disulfide	10 U	10	1	06/24/24 16:56	
Carbon Tetrachloride	5.0 U	5.0	1	06/24/24 16:56	
Chlorobenzene	5.0 U	5.0	1	06/24/24 16:56	
Chloroethane	5.0 U	5.0	1	06/24/24 16:56	
Chloroform	5.0 U	5.0	1	06/24/24 16:56	
Chloromethane	5.0 U	5.0	1	06/24/24 16:56	
Cyclohexane	10 U	10	1	06/24/24 16:56	
Dibromochloromethane	5.0 U	5.0	1	06/24/24 16:56	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/24/24 16:56	
Dichloromethane	5.0 U	5.0	1	06/24/24 16:56	
Ethylbenzene	5.0 U	5.0	1	06/24/24 16:56	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/24/24 16:56	
Methyl Acetate	10 U	10	1	06/24/24 16:56	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/24/24 16:56	
Methylcyclohexane	10 U	10	1	06/24/24 16:56	
Styrene	5.0 U	5.0	1	06/24/24 16:56	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/24/24 16:56	
Toluene	5.0 U	5.0	1	06/24/24 16:56	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: MW-12
Lab Code: R2405445-012

Service Request: R2405445
Date Collected: 06/17/24 13:25
Date Received: 06/18/24 15:36

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	25	5.0	1	06/24/24 16:56	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/24/24 16:56	
Vinyl Chloride	5.0 U	5.0	1	06/24/24 16:56	
cis-1,2-Dichloroethene	69	5.0	1	06/24/24 16:56	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 16:56	
m,p-Xylenes	5.0 U	5.0	1	06/24/24 16:56	
o-Xylene	5.0 U	5.0	1	06/24/24 16:56	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 16:56	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 16:56	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	06/24/24 16:56	
Dibromofluoromethane	94	80 - 116	06/24/24 16:56	
Toluene-d8	100	87 - 121	06/24/24 16:56	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/17/24 13:40
Date Received: 06/18/24 15:36

Sample Name: MW-13
Lab Code: R2405445-013

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/24/24 17:19	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/24/24 17:19	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/24/24 17:19	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/24/24 17:19	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/24/24 17:19	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/24/24 17:19	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/24/24 17:19	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/24/24 17:19	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/24/24 17:19	
1,2-Dibromoethane	5.0 U	5.0	1	06/24/24 17:19	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/24/24 17:19	
1,2-Dichloroethane	5.0 U	5.0	1	06/24/24 17:19	
1,2-Dichloropropane	5.0 U	5.0	1	06/24/24 17:19	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/24/24 17:19	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/24/24 17:19	
1,4-Dioxane	100 U	100	1	06/24/24 17:19	
2-Butanone (MEK)	10 U	10	1	06/24/24 17:19	
2-Hexanone	10 U	10	1	06/24/24 17:19	
4-Methyl-2-pentanone	10 U	10	1	06/24/24 17:19	
Acetone	10 U	10	1	06/24/24 17:19	
Benzene	5.0 U	5.0	1	06/24/24 17:19	
Bromochloromethane	5.0 U	5.0	1	06/24/24 17:19	
Bromodichloromethane	5.0 U	5.0	1	06/24/24 17:19	
Bromoform	5.0 U	5.0	1	06/24/24 17:19	
Bromomethane	5.0 U	5.0	1	06/24/24 17:19	
Carbon Disulfide	10 U	10	1	06/24/24 17:19	
Carbon Tetrachloride	5.0 U	5.0	1	06/24/24 17:19	
Chlorobenzene	5.0 U	5.0	1	06/24/24 17:19	
Chloroethane	5.0 U	5.0	1	06/24/24 17:19	
Chloroform	5.0 U	5.0	1	06/24/24 17:19	
Chloromethane	5.0 U	5.0	1	06/24/24 17:19	
Cyclohexane	10 U	10	1	06/24/24 17:19	
Dibromochloromethane	5.0 U	5.0	1	06/24/24 17:19	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/24/24 17:19	
Dichloromethane	5.0 U	5.0	1	06/24/24 17:19	
Ethylbenzene	5.0 U	5.0	1	06/24/24 17:19	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/24/24 17:19	
Methyl Acetate	10 U	10	1	06/24/24 17:19	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/24/24 17:19	
Methylcyclohexane	10 U	10	1	06/24/24 17:19	
Styrene	5.0 U	5.0	1	06/24/24 17:19	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/24/24 17:19	
Toluene	5.0 U	5.0	1	06/24/24 17:19	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: MW-13
Lab Code: R2405445-013

Service Request: R2405445
Date Collected: 06/17/24 13:40
Date Received: 06/18/24 15:36

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	06/24/24 17:19	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/24/24 17:19	
Vinyl Chloride	5.0 U	5.0	1	06/24/24 17:19	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 17:19	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 17:19	
m,p-Xylenes	5.0 U	5.0	1	06/24/24 17:19	
o-Xylene	5.0 U	5.0	1	06/24/24 17:19	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 17:19	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 17:19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	06/24/24 17:19	
Dibromofluoromethane	93	80 - 116	06/24/24 17:19	
Toluene-d8	100	87 - 121	06/24/24 17:19	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/18/24 10:00
Date Received: 06/18/24 15:36

Sample Name: MW-14
Lab Code: R2405445-014

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/24/24 17:42	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/24/24 17:42	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/24/24 17:42	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/24/24 17:42	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/24/24 17:42	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/24/24 17:42	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/24/24 17:42	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/24/24 17:42	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/24/24 17:42	
1,2-Dibromoethane	5.0 U	5.0	1	06/24/24 17:42	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/24/24 17:42	
1,2-Dichloroethane	5.0 U	5.0	1	06/24/24 17:42	
1,2-Dichloropropane	5.0 U	5.0	1	06/24/24 17:42	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/24/24 17:42	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/24/24 17:42	
1,4-Dioxane	100 U	100	1	06/24/24 17:42	
2-Butanone (MEK)	10 U	10	1	06/24/24 17:42	
2-Hexanone	10 U	10	1	06/24/24 17:42	
4-Methyl-2-pentanone	10 U	10	1	06/24/24 17:42	
Acetone	10 U	10	1	06/24/24 17:42	
Benzene	5.0 U	5.0	1	06/24/24 17:42	
Bromochloromethane	5.0 U	5.0	1	06/24/24 17:42	
Bromodichloromethane	5.0 U	5.0	1	06/24/24 17:42	
Bromoform	5.0 U	5.0	1	06/24/24 17:42	
Bromomethane	5.0 U	5.0	1	06/24/24 17:42	
Carbon Disulfide	10 U	10	1	06/24/24 17:42	
Carbon Tetrachloride	5.0 U	5.0	1	06/24/24 17:42	
Chlorobenzene	5.0 U	5.0	1	06/24/24 17:42	
Chloroethane	5.0 U	5.0	1	06/24/24 17:42	
Chloroform	5.0 U	5.0	1	06/24/24 17:42	
Chloromethane	5.0 U	5.0	1	06/24/24 17:42	
Cyclohexane	10 U	10	1	06/24/24 17:42	
Dibromochloromethane	5.0 U	5.0	1	06/24/24 17:42	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/24/24 17:42	
Dichloromethane	5.0 U	5.0	1	06/24/24 17:42	
Ethylbenzene	5.0 U	5.0	1	06/24/24 17:42	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/24/24 17:42	
Methyl Acetate	10 U	10	1	06/24/24 17:42	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/24/24 17:42	
Methylcyclohexane	10 U	10	1	06/24/24 17:42	
Styrene	5.0 U	5.0	1	06/24/24 17:42	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/24/24 17:42	
Toluene	5.0 U	5.0	1	06/24/24 17:42	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: MW-14
Lab Code: R2405445-014

Service Request: R2405445
Date Collected: 06/18/24 10:00
Date Received: 06/18/24 15:36

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	12	5.0	1	06/24/24 17:42	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/24/24 17:42	
Vinyl Chloride	5.0 U	5.0	1	06/24/24 17:42	
cis-1,2-Dichloroethene	12	5.0	1	06/24/24 17:42	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 17:42	
m,p-Xylenes	5.0 U	5.0	1	06/24/24 17:42	
o-Xylene	5.0 U	5.0	1	06/24/24 17:42	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 17:42	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 17:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	06/24/24 17:42	
Dibromofluoromethane	97	80 - 116	06/24/24 17:42	
Toluene-d8	101	87 - 121	06/24/24 17:42	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/17/24 11:42
Date Received: 06/18/24 15:36

Sample Name: MW-15
Lab Code: R2405445-015

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/24/24 18:04	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/24/24 18:04	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/24/24 18:04	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/24/24 18:04	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/24/24 18:04	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/24/24 18:04	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/24/24 18:04	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/24/24 18:04	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/24/24 18:04	
1,2-Dibromoethane	5.0 U	5.0	1	06/24/24 18:04	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/24/24 18:04	
1,2-Dichloroethane	5.0 U	5.0	1	06/24/24 18:04	
1,2-Dichloropropane	5.0 U	5.0	1	06/24/24 18:04	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/24/24 18:04	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/24/24 18:04	
1,4-Dioxane	100 U	100	1	06/24/24 18:04	
2-Butanone (MEK)	10 U	10	1	06/24/24 18:04	
2-Hexanone	10 U	10	1	06/24/24 18:04	
4-Methyl-2-pentanone	10 U	10	1	06/24/24 18:04	
Acetone	10 U	10	1	06/24/24 18:04	
Benzene	5.0 U	5.0	1	06/24/24 18:04	
Bromochloromethane	5.0 U	5.0	1	06/24/24 18:04	
Bromodichloromethane	5.0 U	5.0	1	06/24/24 18:04	
Bromoform	5.0 U	5.0	1	06/24/24 18:04	
Bromomethane	5.0 U	5.0	1	06/24/24 18:04	
Carbon Disulfide	10 U	10	1	06/24/24 18:04	
Carbon Tetrachloride	5.0 U	5.0	1	06/24/24 18:04	
Chlorobenzene	5.0 U	5.0	1	06/24/24 18:04	
Chloroethane	5.0 U	5.0	1	06/24/24 18:04	
Chloroform	5.0 U	5.0	1	06/24/24 18:04	
Chloromethane	5.0 U	5.0	1	06/24/24 18:04	
Cyclohexane	10 U	10	1	06/24/24 18:04	
Dibromochloromethane	5.0 U	5.0	1	06/24/24 18:04	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/24/24 18:04	
Dichloromethane	5.0 U	5.0	1	06/24/24 18:04	
Ethylbenzene	5.0 U	5.0	1	06/24/24 18:04	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/24/24 18:04	
Methyl Acetate	10 U	10	1	06/24/24 18:04	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/24/24 18:04	
Methylcyclohexane	10 U	10	1	06/24/24 18:04	
Styrene	5.0 U	5.0	1	06/24/24 18:04	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/24/24 18:04	
Toluene	5.0 U	5.0	1	06/24/24 18:04	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: MW-15
Lab Code: R2405445-015

Service Request: R2405445
Date Collected: 06/17/24 11:42
Date Received: 06/18/24 15:36

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	06/24/24 18:04	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/24/24 18:04	
Vinyl Chloride	5.0 U	5.0	1	06/24/24 18:04	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 18:04	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 18:04	
m,p-Xylenes	5.0 U	5.0	1	06/24/24 18:04	
o-Xylene	5.0 U	5.0	1	06/24/24 18:04	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 18:04	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 18:04	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	06/24/24 18:04	
Dibromofluoromethane	96	80 - 116	06/24/24 18:04	
Toluene-d8	103	87 - 121	06/24/24 18:04	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/17/24 15:43
Date Received: 06/18/24 15:36

Sample Name: MW-16
Lab Code: R2405445-016

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/24/24 18:27	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/24/24 18:27	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/24/24 18:27	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/24/24 18:27	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/24/24 18:27	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/24/24 18:27	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/24/24 18:27	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/24/24 18:27	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/24/24 18:27	
1,2-Dibromoethane	5.0 U	5.0	1	06/24/24 18:27	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/24/24 18:27	
1,2-Dichloroethane	5.0 U	5.0	1	06/24/24 18:27	
1,2-Dichloropropane	5.0 U	5.0	1	06/24/24 18:27	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/24/24 18:27	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/24/24 18:27	
1,4-Dioxane	100 U	100	1	06/24/24 18:27	
2-Butanone (MEK)	10 U	10	1	06/24/24 18:27	
2-Hexanone	10 U	10	1	06/24/24 18:27	
4-Methyl-2-pentanone	10 U	10	1	06/24/24 18:27	
Acetone	10 U	10	1	06/24/24 18:27	
Benzene	5.0 U	5.0	1	06/24/24 18:27	
Bromochloromethane	5.0 U	5.0	1	06/24/24 18:27	
Bromodichloromethane	5.0 U	5.0	1	06/24/24 18:27	
Bromoform	5.0 U	5.0	1	06/24/24 18:27	
Bromomethane	5.0 U	5.0	1	06/24/24 18:27	
Carbon Disulfide	10 U	10	1	06/24/24 18:27	
Carbon Tetrachloride	5.0 U	5.0	1	06/24/24 18:27	
Chlorobenzene	5.0 U	5.0	1	06/24/24 18:27	
Chloroethane	5.0 U	5.0	1	06/24/24 18:27	
Chloroform	5.0 U	5.0	1	06/24/24 18:27	
Chloromethane	5.0 U	5.0	1	06/24/24 18:27	
Cyclohexane	10 U	10	1	06/24/24 18:27	
Dibromochloromethane	5.0 U	5.0	1	06/24/24 18:27	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/24/24 18:27	
Dichloromethane	5.0 U	5.0	1	06/24/24 18:27	
Ethylbenzene	5.0 U	5.0	1	06/24/24 18:27	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/24/24 18:27	
Methyl Acetate	10 U	10	1	06/24/24 18:27	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/24/24 18:27	
Methylcyclohexane	10 U	10	1	06/24/24 18:27	
Styrene	5.0 U	5.0	1	06/24/24 18:27	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/24/24 18:27	
Toluene	5.0 U	5.0	1	06/24/24 18:27	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: MW-16
Lab Code: R2405445-016

Service Request: R2405445
Date Collected: 06/17/24 15:43
Date Received: 06/18/24 15:36

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	06/24/24 18:27	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/24/24 18:27	
Vinyl Chloride	5.0 U	5.0	1	06/24/24 18:27	
cis-1,2-Dichloroethene	30	5.0	1	06/24/24 18:27	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 18:27	
m,p-Xylenes	5.0 U	5.0	1	06/24/24 18:27	
o-Xylene	5.0 U	5.0	1	06/24/24 18:27	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 18:27	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 18:27	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	06/24/24 18:27	
Dibromofluoromethane	90	80 - 116	06/24/24 18:27	
Toluene-d8	96	87 - 121	06/24/24 18:27	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/18/24 09:39
Date Received: 06/18/24 15:36

Sample Name: MW-17
Lab Code: R2405445-017

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/24/24 18:50	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/24/24 18:50	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/24/24 18:50	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/24/24 18:50	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/24/24 18:50	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/24/24 18:50	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/24/24 18:50	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/24/24 18:50	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/24/24 18:50	
1,2-Dibromoethane	5.0 U	5.0	1	06/24/24 18:50	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/24/24 18:50	
1,2-Dichloroethane	5.0 U	5.0	1	06/24/24 18:50	
1,2-Dichloropropane	5.0 U	5.0	1	06/24/24 18:50	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/24/24 18:50	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/24/24 18:50	
1,4-Dioxane	100 U	100	1	06/24/24 18:50	
2-Butanone (MEK)	10 U	10	1	06/24/24 18:50	
2-Hexanone	10 U	10	1	06/24/24 18:50	
4-Methyl-2-pentanone	10 U	10	1	06/24/24 18:50	
Acetone	10 U	10	1	06/24/24 18:50	
Benzene	5.0 U	5.0	1	06/24/24 18:50	
Bromochloromethane	5.0 U	5.0	1	06/24/24 18:50	
Bromodichloromethane	5.0 U	5.0	1	06/24/24 18:50	
Bromoform	5.0 U	5.0	1	06/24/24 18:50	
Bromomethane	5.0 U	5.0	1	06/24/24 18:50	
Carbon Disulfide	10 U	10	1	06/24/24 18:50	
Carbon Tetrachloride	5.0 U	5.0	1	06/24/24 18:50	
Chlorobenzene	5.0 U	5.0	1	06/24/24 18:50	
Chloroethane	5.0 U	5.0	1	06/24/24 18:50	
Chloroform	5.0 U	5.0	1	06/24/24 18:50	
Chloromethane	5.0 U	5.0	1	06/24/24 18:50	
Cyclohexane	10 U	10	1	06/24/24 18:50	
Dibromochloromethane	5.0 U	5.0	1	06/24/24 18:50	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/24/24 18:50	
Dichloromethane	5.0 U	5.0	1	06/24/24 18:50	
Ethylbenzene	5.0 U	5.0	1	06/24/24 18:50	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/24/24 18:50	
Methyl Acetate	10 U	10	1	06/24/24 18:50	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/24/24 18:50	
Methylcyclohexane	10 U	10	1	06/24/24 18:50	
Styrene	5.0 U	5.0	1	06/24/24 18:50	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/24/24 18:50	
Toluene	5.0 U	5.0	1	06/24/24 18:50	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: MW-17
Lab Code: R2405445-017

Service Request: R2405445
Date Collected: 06/18/24 09:39
Date Received: 06/18/24 15:36

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	8.4	5.0	1	06/24/24 18:50	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/24/24 18:50	
Vinyl Chloride	5.0 U	5.0	1	06/24/24 18:50	
cis-1,2-Dichloroethene	210 E	5.0	1	06/24/24 18:50	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 18:50	
m,p-Xylenes	5.0 U	5.0	1	06/24/24 18:50	
o-Xylene	5.0 U	5.0	1	06/24/24 18:50	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 18:50	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 18:50	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	06/24/24 18:50	
Dibromofluoromethane	92	80 - 116	06/24/24 18:50	
Toluene-d8	99	87 - 121	06/24/24 18:50	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/18/24 09:39
Date Received: 06/18/24 15:36

Sample Name: MW-17
Lab Code: R2405445-017

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	13 U	13	2.5	06/25/24 17:50	
1,1,2,2-Tetrachloroethane	13 U	13	2.5	06/25/24 17:50	
1,1,2-Trichloroethane	13 U	13	2.5	06/25/24 17:50	
1,1,2-Trichloro-1,2,2-trifluoroethane	13 U	13	2.5	06/25/24 17:50	
1,1-Dichloroethane (1,1-DCA)	13 U	13	2.5	06/25/24 17:50	
1,1-Dichloroethene (1,1-DCE)	13 U	13	2.5	06/25/24 17:50	
1,2,3-Trichlorobenzene	13 U	13	2.5	06/25/24 17:50	
1,2,4-Trichlorobenzene	13 U	13	2.5	06/25/24 17:50	
1,2-Dibromo-3-chloropropane (DBCP)	13 U	13	2.5	06/25/24 17:50	
1,2-Dibromoethane	13 U	13	2.5	06/25/24 17:50	
1,2-Dichlorobenzene	13 U	13	2.5	06/25/24 17:50	
1,2-Dichloroethane	13 U	13	2.5	06/25/24 17:50	
1,2-Dichloropropane	13 U	13	2.5	06/25/24 17:50	
1,3-Dichlorobenzene	13 U	13	2.5	06/25/24 17:50	
1,4-Dichlorobenzene	13 U	13	2.5	06/25/24 17:50	
1,4-Dioxane	250 U	250	2.5	06/25/24 17:50	
2-Butanone (MEK)	25 U	25	2.5	06/25/24 17:50	
2-Hexanone	25 U	25	2.5	06/25/24 17:50	
4-Methyl-2-pentanone	25 U	25	2.5	06/25/24 17:50	
Acetone	25 U	25	2.5	06/25/24 17:50	
Benzene	13 U	13	2.5	06/25/24 17:50	
Bromochloromethane	13 U	13	2.5	06/25/24 17:50	
Bromodichloromethane	13 U	13	2.5	06/25/24 17:50	
Bromoform	13 U	13	2.5	06/25/24 17:50	
Bromomethane	13 U	13	2.5	06/25/24 17:50	
Carbon Disulfide	25 U	25	2.5	06/25/24 17:50	
Carbon Tetrachloride	13 U	13	2.5	06/25/24 17:50	
Chlorobenzene	13 U	13	2.5	06/25/24 17:50	
Chloroethane	13 U	13	2.5	06/25/24 17:50	
Chloroform	13 U	13	2.5	06/25/24 17:50	
Chloromethane	13 U	13	2.5	06/25/24 17:50	
Cyclohexane	25 U	25	2.5	06/25/24 17:50	
Dibromochloromethane	13 U	13	2.5	06/25/24 17:50	
Dichlorodifluoromethane (CFC 12)	13 U	13	2.5	06/25/24 17:50	
Dichloromethane	13 U	13	2.5	06/25/24 17:50	
Ethylbenzene	13 U	13	2.5	06/25/24 17:50	
Isopropylbenzene (Cumene)	13 U	13	2.5	06/25/24 17:50	
Methyl Acetate	25 U	25	2.5	06/25/24 17:50	
Methyl tert-Butyl Ether	13 U	13	2.5	06/25/24 17:50	
Methylcyclohexane	25 U	25	2.5	06/25/24 17:50	
Styrene	13 U	13	2.5	06/25/24 17:50	
Tetrachloroethene (PCE)	13 U	13	2.5	06/25/24 17:50	
Toluene	13 U	13	2.5	06/25/24 17:50	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: MW-17
Lab Code: R2405445-017

Service Request: R2405445
Date Collected: 06/18/24 09:39
Date Received: 06/18/24 15:36

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	13 U	13	2.5	06/25/24 17:50	
Trichlorofluoromethane (CFC 11)	13 U	13	2.5	06/25/24 17:50	
Vinyl Chloride	13 U	13	2.5	06/25/24 17:50	
cis-1,2-Dichloroethene	210 D	13	2.5	06/25/24 17:50	
cis-1,3-Dichloropropene	13 U	13	2.5	06/25/24 17:50	
m,p-Xylenes	13 U	13	2.5	06/25/24 17:50	
o-Xylene	13 U	13	2.5	06/25/24 17:50	
trans-1,2-Dichloroethene	13 U	13	2.5	06/25/24 17:50	
trans-1,3-Dichloropropene	13 U	13	2.5	06/25/24 17:50	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	06/25/24 17:50	
Dibromofluoromethane	101	80 - 116	06/25/24 17:50	
Toluene-d8	103	87 - 121	06/25/24 17:50	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/18/24 12:00
Date Received: 06/18/24 15:36

Sample Name: MW-18
Lab Code: R2405445-018

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/24/24 19:13	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/24/24 19:13	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/24/24 19:13	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/24/24 19:13	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/24/24 19:13	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/24/24 19:13	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/24/24 19:13	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/24/24 19:13	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/24/24 19:13	
1,2-Dibromoethane	5.0 U	5.0	1	06/24/24 19:13	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/24/24 19:13	
1,2-Dichloroethane	5.0 U	5.0	1	06/24/24 19:13	
1,2-Dichloropropane	5.0 U	5.0	1	06/24/24 19:13	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/24/24 19:13	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/24/24 19:13	
1,4-Dioxane	100 U	100	1	06/24/24 19:13	
2-Butanone (MEK)	10 U	10	1	06/24/24 19:13	
2-Hexanone	10 U	10	1	06/24/24 19:13	
4-Methyl-2-pentanone	10 U	10	1	06/24/24 19:13	
Acetone	10 U	10	1	06/24/24 19:13	
Benzene	5.0 U	5.0	1	06/24/24 19:13	
Bromochloromethane	5.0 U	5.0	1	06/24/24 19:13	
Bromodichloromethane	5.0 U	5.0	1	06/24/24 19:13	
Bromoform	5.0 U	5.0	1	06/24/24 19:13	
Bromomethane	5.0 U	5.0	1	06/24/24 19:13	
Carbon Disulfide	10 U	10	1	06/24/24 19:13	
Carbon Tetrachloride	5.0 U	5.0	1	06/24/24 19:13	
Chlorobenzene	5.0 U	5.0	1	06/24/24 19:13	
Chloroethane	5.0 U	5.0	1	06/24/24 19:13	
Chloroform	5.0 U	5.0	1	06/24/24 19:13	
Chloromethane	5.0 U	5.0	1	06/24/24 19:13	
Cyclohexane	10 U	10	1	06/24/24 19:13	
Dibromochloromethane	5.0 U	5.0	1	06/24/24 19:13	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/24/24 19:13	
Dichloromethane	5.0 U	5.0	1	06/24/24 19:13	
Ethylbenzene	5.0 U	5.0	1	06/24/24 19:13	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/24/24 19:13	
Methyl Acetate	10 U	10	1	06/24/24 19:13	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/24/24 19:13	
Methylcyclohexane	10 U	10	1	06/24/24 19:13	
Styrene	5.0 U	5.0	1	06/24/24 19:13	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/24/24 19:13	
Toluene	5.0 U	5.0	1	06/24/24 19:13	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: MW-18
Lab Code: R2405445-018

Service Request: R2405445
Date Collected: 06/18/24 12:00
Date Received: 06/18/24 15:36

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	06/24/24 19:13	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/24/24 19:13	
Vinyl Chloride	5.0 U	5.0	1	06/24/24 19:13	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 19:13	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 19:13	
m,p-Xylenes	5.0 U	5.0	1	06/24/24 19:13	
o-Xylene	5.0 U	5.0	1	06/24/24 19:13	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 19:13	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 19:13	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	06/24/24 19:13	
Dibromofluoromethane	94	80 - 116	06/24/24 19:13	
Toluene-d8	100	87 - 121	06/24/24 19:13	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/18/24 11:25
Date Received: 06/18/24 15:36

Sample Name: MW-19R
Lab Code: R2405445-019

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/25/24 13:00	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/25/24 13:00	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/25/24 13:00	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/25/24 13:00	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/25/24 13:00	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/25/24 13:00	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/25/24 13:00	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/25/24 13:00	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/25/24 13:00	
1,2-Dibromoethane	5.0 U	5.0	1	06/25/24 13:00	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/25/24 13:00	
1,2-Dichloroethane	5.0 U	5.0	1	06/25/24 13:00	
1,2-Dichloropropane	5.0 U	5.0	1	06/25/24 13:00	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/25/24 13:00	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/25/24 13:00	
1,4-Dioxane	100 U	100	1	06/25/24 13:00	
2-Butanone (MEK)	10 U	10	1	06/25/24 13:00	
2-Hexanone	10 U	10	1	06/25/24 13:00	
4-Methyl-2-pentanone	10 U	10	1	06/25/24 13:00	
Acetone	13	10	1	06/25/24 13:00	
Benzene	5.0 U	5.0	1	06/25/24 13:00	
Bromochloromethane	5.0 U	5.0	1	06/25/24 13:00	
Bromodichloromethane	5.0 U	5.0	1	06/25/24 13:00	
Bromoform	5.0 U	5.0	1	06/25/24 13:00	
Bromomethane	5.0 U	5.0	1	06/25/24 13:00	
Carbon Disulfide	10 U	10	1	06/25/24 13:00	
Carbon Tetrachloride	5.0 U	5.0	1	06/25/24 13:00	
Chlorobenzene	5.0 U	5.0	1	06/25/24 13:00	
Chloroethane	5.0 U	5.0	1	06/25/24 13:00	
Chloroform	5.0 U	5.0	1	06/25/24 13:00	
Chloromethane	5.0 U	5.0	1	06/25/24 13:00	
Cyclohexane	10 U	10	1	06/25/24 13:00	
Dibromochloromethane	5.0 U	5.0	1	06/25/24 13:00	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/25/24 13:00	
Dichloromethane	5.0 U	5.0	1	06/25/24 13:00	
Ethylbenzene	5.0 U	5.0	1	06/25/24 13:00	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/25/24 13:00	
Methyl Acetate	10 U	10	1	06/25/24 13:00	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/25/24 13:00	
Methylcyclohexane	10 U	10	1	06/25/24 13:00	
Styrene	5.0 U	5.0	1	06/25/24 13:00	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/25/24 13:00	
Toluene	5.0 U	5.0	1	06/25/24 13:00	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: MW-19R
Lab Code: R2405445-019

Service Request: R2405445
Date Collected: 06/18/24 11:25
Date Received: 06/18/24 15:36

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	06/25/24 13:00	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/25/24 13:00	
Vinyl Chloride	5.0 U	5.0	1	06/25/24 13:00	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/25/24 13:00	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/25/24 13:00	
m,p-Xylenes	5.0 U	5.0	1	06/25/24 13:00	
o-Xylene	5.0 U	5.0	1	06/25/24 13:00	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/25/24 13:00	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/25/24 13:00	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	06/25/24 13:00	
Dibromofluoromethane	101	80 - 116	06/25/24 13:00	
Toluene-d8	107	87 - 121	06/25/24 13:00	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/18/24 07:48
Date Received: 06/18/24 15:36

Sample Name: MW-20
Lab Code: R2405445-020

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/25/24 13:23	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/25/24 13:23	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/25/24 13:23	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/25/24 13:23	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/25/24 13:23	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/25/24 13:23	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/25/24 13:23	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/25/24 13:23	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/25/24 13:23	
1,2-Dibromoethane	5.0 U	5.0	1	06/25/24 13:23	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/25/24 13:23	
1,2-Dichloroethane	5.0 U	5.0	1	06/25/24 13:23	
1,2-Dichloropropane	5.0 U	5.0	1	06/25/24 13:23	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/25/24 13:23	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/25/24 13:23	
1,4-Dioxane	100 U	100	1	06/25/24 13:23	
2-Butanone (MEK)	10 U	10	1	06/25/24 13:23	
2-Hexanone	10 U	10	1	06/25/24 13:23	
4-Methyl-2-pentanone	10 U	10	1	06/25/24 13:23	
Acetone	10 U	10	1	06/25/24 13:23	
Benzene	5.0 U	5.0	1	06/25/24 13:23	
Bromochloromethane	5.0 U	5.0	1	06/25/24 13:23	
Bromodichloromethane	5.0 U	5.0	1	06/25/24 13:23	
Bromoform	5.0 U	5.0	1	06/25/24 13:23	
Bromomethane	5.0 U	5.0	1	06/25/24 13:23	
Carbon Disulfide	10 U	10	1	06/25/24 13:23	
Carbon Tetrachloride	5.0 U	5.0	1	06/25/24 13:23	
Chlorobenzene	5.0 U	5.0	1	06/25/24 13:23	
Chloroethane	5.0 U	5.0	1	06/25/24 13:23	
Chloroform	5.0 U	5.0	1	06/25/24 13:23	
Chloromethane	5.0 U	5.0	1	06/25/24 13:23	
Cyclohexane	10 U	10	1	06/25/24 13:23	
Dibromochloromethane	5.0 U	5.0	1	06/25/24 13:23	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/25/24 13:23	
Dichloromethane	5.0 U	5.0	1	06/25/24 13:23	
Ethylbenzene	5.0 U	5.0	1	06/25/24 13:23	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/25/24 13:23	
Methyl Acetate	10 U	10	1	06/25/24 13:23	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/25/24 13:23	
Methylcyclohexane	10 U	10	1	06/25/24 13:23	
Styrene	5.0 U	5.0	1	06/25/24 13:23	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/25/24 13:23	
Toluene	5.0 U	5.0	1	06/25/24 13:23	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: MW-20
Lab Code: R2405445-020

Service Request: R2405445
Date Collected: 06/18/24 07:48
Date Received: 06/18/24 15:36

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	06/25/24 13:23	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/25/24 13:23	
Vinyl Chloride	5.0 U	5.0	1	06/25/24 13:23	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/25/24 13:23	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/25/24 13:23	
m,p-Xylenes	5.0 U	5.0	1	06/25/24 13:23	
o-Xylene	5.0 U	5.0	1	06/25/24 13:23	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/25/24 13:23	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/25/24 13:23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	86	85 - 122	06/25/24 13:23	
Dibromofluoromethane	103	80 - 116	06/25/24 13:23	
Toluene-d8	93	87 - 121	06/25/24 13:23	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/18/24 12:40
Date Received: 06/18/24 15:36

Sample Name: MW-21
Lab Code: R2405445-021

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/25/24 13:45	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/25/24 13:45	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/25/24 13:45	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/25/24 13:45	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/25/24 13:45	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/25/24 13:45	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/25/24 13:45	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/25/24 13:45	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/25/24 13:45	
1,2-Dibromoethane	5.0 U	5.0	1	06/25/24 13:45	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/25/24 13:45	
1,2-Dichloroethane	5.0 U	5.0	1	06/25/24 13:45	
1,2-Dichloropropane	5.0 U	5.0	1	06/25/24 13:45	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/25/24 13:45	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/25/24 13:45	
1,4-Dioxane	100 U	100	1	06/25/24 13:45	
2-Butanone (MEK)	10 U	10	1	06/25/24 13:45	
2-Hexanone	10 U	10	1	06/25/24 13:45	
4-Methyl-2-pentanone	10 U	10	1	06/25/24 13:45	
Acetone	10 U	10	1	06/25/24 13:45	
Benzene	5.0 U	5.0	1	06/25/24 13:45	
Bromochloromethane	5.0 U	5.0	1	06/25/24 13:45	
Bromodichloromethane	5.0 U	5.0	1	06/25/24 13:45	
Bromoform	5.0 U	5.0	1	06/25/24 13:45	
Bromomethane	5.0 U	5.0	1	06/25/24 13:45	
Carbon Disulfide	10 U	10	1	06/25/24 13:45	
Carbon Tetrachloride	5.0 U	5.0	1	06/25/24 13:45	
Chlorobenzene	5.0 U	5.0	1	06/25/24 13:45	
Chloroethane	5.0 U	5.0	1	06/25/24 13:45	
Chloroform	5.0 U	5.0	1	06/25/24 13:45	
Chloromethane	5.0 U	5.0	1	06/25/24 13:45	
Cyclohexane	10 U	10	1	06/25/24 13:45	
Dibromochloromethane	5.0 U	5.0	1	06/25/24 13:45	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/25/24 13:45	
Dichloromethane	5.0 U	5.0	1	06/25/24 13:45	
Ethylbenzene	5.0 U	5.0	1	06/25/24 13:45	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/25/24 13:45	
Methyl Acetate	10 U	10	1	06/25/24 13:45	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/25/24 13:45	
Methylcyclohexane	10 U	10	1	06/25/24 13:45	
Styrene	5.0 U	5.0	1	06/25/24 13:45	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/25/24 13:45	
Toluene	5.0 U	5.0	1	06/25/24 13:45	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: MW-21
Lab Code: R2405445-021

Service Request: R2405445
Date Collected: 06/18/24 12:40
Date Received: 06/18/24 15:36

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	06/25/24 13:45	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/25/24 13:45	
Vinyl Chloride	5.0 U	5.0	1	06/25/24 13:45	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/25/24 13:45	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/25/24 13:45	
m,p-Xylenes	5.0 U	5.0	1	06/25/24 13:45	
o-Xylene	5.0 U	5.0	1	06/25/24 13:45	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/25/24 13:45	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/25/24 13:45	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	06/25/24 13:45	
Dibromofluoromethane	103	80 - 116	06/25/24 13:45	
Toluene-d8	97	87 - 121	06/25/24 13:45	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/17/24 14:09
Date Received: 06/18/24 15:36

Sample Name: DR-1
Lab Code: R2405445-022

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	13 U	13	2.5	06/25/24 18:12	
1,1,2,2-Tetrachloroethane	13 U	13	2.5	06/25/24 18:12	
1,1,2-Trichloroethane	13 U	13	2.5	06/25/24 18:12	
1,1,2-Trichloro-1,2,2-trifluoroethane	13 U	13	2.5	06/25/24 18:12	
1,1-Dichloroethane (1,1-DCA)	13 U	13	2.5	06/25/24 18:12	
1,1-Dichloroethene (1,1-DCE)	13 U	13	2.5	06/25/24 18:12	
1,2,3-Trichlorobenzene	13 U	13	2.5	06/25/24 18:12	
1,2,4-Trichlorobenzene	13 U	13	2.5	06/25/24 18:12	
1,2-Dibromo-3-chloropropane (DBCP)	13 U	13	2.5	06/25/24 18:12	
1,2-Dibromoethane	13 U	13	2.5	06/25/24 18:12	
1,2-Dichlorobenzene	13 U	13	2.5	06/25/24 18:12	
1,2-Dichloroethane	13 U	13	2.5	06/25/24 18:12	
1,2-Dichloropropane	13 U	13	2.5	06/25/24 18:12	
1,3-Dichlorobenzene	13 U	13	2.5	06/25/24 18:12	
1,4-Dichlorobenzene	13 U	13	2.5	06/25/24 18:12	
1,4-Dioxane	250 U	250	2.5	06/25/24 18:12	
2-Butanone (MEK)	25 U	25	2.5	06/25/24 18:12	
2-Hexanone	25 U	25	2.5	06/25/24 18:12	
4-Methyl-2-pentanone	25 U	25	2.5	06/25/24 18:12	
Acetone	25 U	25	2.5	06/25/24 18:12	
Benzene	13 U	13	2.5	06/25/24 18:12	
Bromochloromethane	13 U	13	2.5	06/25/24 18:12	
Bromodichloromethane	13 U	13	2.5	06/25/24 18:12	
Bromoform	13 U	13	2.5	06/25/24 18:12	
Bromomethane	13 U	13	2.5	06/25/24 18:12	
Carbon Disulfide	25 U	25	2.5	06/25/24 18:12	
Carbon Tetrachloride	13 U	13	2.5	06/25/24 18:12	
Chlorobenzene	13 U	13	2.5	06/25/24 18:12	
Chloroethane	13 U	13	2.5	06/25/24 18:12	
Chloroform	13 U	13	2.5	06/25/24 18:12	
Chloromethane	13 U	13	2.5	06/25/24 18:12	
Cyclohexane	25 U	25	2.5	06/25/24 18:12	
Dibromochloromethane	13 U	13	2.5	06/25/24 18:12	
Dichlorodifluoromethane (CFC 12)	13 U	13	2.5	06/25/24 18:12	
Dichloromethane	13 U	13	2.5	06/25/24 18:12	
Ethylbenzene	13 U	13	2.5	06/25/24 18:12	
Isopropylbenzene (Cumene)	13 U	13	2.5	06/25/24 18:12	
Methyl Acetate	25 U	25	2.5	06/25/24 18:12	
Methyl tert-Butyl Ether	13 U	13	2.5	06/25/24 18:12	
Methylcyclohexane	25 U	25	2.5	06/25/24 18:12	
Styrene	13 U	13	2.5	06/25/24 18:12	
Tetrachloroethene (PCE)	13 U	13	2.5	06/25/24 18:12	
Toluene	13 U	13	2.5	06/25/24 18:12	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water
Sample Name: DR-1
Lab Code: R2405445-022

Service Request: R2405445
Date Collected: 06/17/24 14:09
Date Received: 06/18/24 15:36
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	380	13	2.5	06/25/24 18:12	
Trichlorofluoromethane (CFC 11)	13 U	13	2.5	06/25/24 18:12	
Vinyl Chloride	13 U	13	2.5	06/25/24 18:12	
cis-1,2-Dichloroethene	49	13	2.5	06/25/24 18:12	
cis-1,3-Dichloropropene	13 U	13	2.5	06/25/24 18:12	
m,p-Xylenes	13 U	13	2.5	06/25/24 18:12	
o-Xylene	13 U	13	2.5	06/25/24 18:12	
trans-1,2-Dichloroethene	13 U	13	2.5	06/25/24 18:12	
trans-1,3-Dichloropropene	13 U	13	2.5	06/25/24 18:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	85 - 122	06/25/24 18:12	
Dibromofluoromethane	102	80 - 116	06/25/24 18:12	
Toluene-d8	119	87 - 121	06/25/24 18:12	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/17/24 13:13
Date Received: 06/18/24 15:36

Sample Name: DR-2
Lab Code: R2405445-023

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/25/24 14:52	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/25/24 14:52	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/25/24 14:52	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/25/24 14:52	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/25/24 14:52	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/25/24 14:52	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/25/24 14:52	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/25/24 14:52	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/25/24 14:52	
1,2-Dibromoethane	5.0 U	5.0	1	06/25/24 14:52	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/25/24 14:52	
1,2-Dichloroethane	5.0 U	5.0	1	06/25/24 14:52	
1,2-Dichloropropane	5.0 U	5.0	1	06/25/24 14:52	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/25/24 14:52	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/25/24 14:52	
1,4-Dioxane	100 U	100	1	06/25/24 14:52	
2-Butanone (MEK)	10 U	10	1	06/25/24 14:52	
2-Hexanone	10 U	10	1	06/25/24 14:52	
4-Methyl-2-pentanone	10 U	10	1	06/25/24 14:52	
Acetone	10 U	10	1	06/25/24 14:52	
Benzene	5.0 U	5.0	1	06/25/24 14:52	
Bromochloromethane	5.0 U	5.0	1	06/25/24 14:52	
Bromodichloromethane	5.0 U	5.0	1	06/25/24 14:52	
Bromoform	5.0 U	5.0	1	06/25/24 14:52	
Bromomethane	5.0 U	5.0	1	06/25/24 14:52	
Carbon Disulfide	10 U	10	1	06/25/24 14:52	
Carbon Tetrachloride	5.0 U	5.0	1	06/25/24 14:52	
Chlorobenzene	5.0 U	5.0	1	06/25/24 14:52	
Chloroethane	5.0 U	5.0	1	06/25/24 14:52	
Chloroform	5.0 U	5.0	1	06/25/24 14:52	
Chloromethane	5.0 U	5.0	1	06/25/24 14:52	
Cyclohexane	10 U	10	1	06/25/24 14:52	
Dibromochloromethane	5.0 U	5.0	1	06/25/24 14:52	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/25/24 14:52	
Dichloromethane	5.0 U	5.0	1	06/25/24 14:52	
Ethylbenzene	5.0 U	5.0	1	06/25/24 14:52	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/25/24 14:52	
Methyl Acetate	10 U	10	1	06/25/24 14:52	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/25/24 14:52	
Methylcyclohexane	10 U	10	1	06/25/24 14:52	
Styrene	5.0 U	5.0	1	06/25/24 14:52	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/25/24 14:52	
Toluene	5.0 U	5.0	1	06/25/24 14:52	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water
Sample Name: DR-2
Lab Code: R2405445-023

Service Request: R2405445
Date Collected: 06/17/24 13:13
Date Received: 06/18/24 15:36
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	27	5.0	1	06/25/24 14:52	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/25/24 14:52	
Vinyl Chloride	5.8	5.0	1	06/25/24 14:52	
cis-1,2-Dichloroethene	140	5.0	1	06/25/24 14:52	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/25/24 14:52	
m,p-Xylenes	5.0 U	5.0	1	06/25/24 14:52	
o-Xylene	5.0 U	5.0	1	06/25/24 14:52	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/25/24 14:52	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/25/24 14:52	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	06/25/24 14:52	
Dibromofluoromethane	109	80 - 116	06/25/24 14:52	
Toluene-d8	114	87 - 121	06/25/24 14:52	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/17/24 12:38
Date Received: 06/18/24 15:36

Sample Name: DR-3
Lab Code: R2405445-024

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/25/24 15:14	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/25/24 15:14	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/25/24 15:14	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/25/24 15:14	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/25/24 15:14	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/25/24 15:14	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/25/24 15:14	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/25/24 15:14	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/25/24 15:14	
1,2-Dibromoethane	5.0 U	5.0	1	06/25/24 15:14	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/25/24 15:14	
1,2-Dichloroethane	5.0 U	5.0	1	06/25/24 15:14	
1,2-Dichloropropane	5.0 U	5.0	1	06/25/24 15:14	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/25/24 15:14	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/25/24 15:14	
1,4-Dioxane	100 U	100	1	06/25/24 15:14	
2-Butanone (MEK)	10 U	10	1	06/25/24 15:14	
2-Hexanone	10 U	10	1	06/25/24 15:14	
4-Methyl-2-pentanone	10 U	10	1	06/25/24 15:14	
Acetone	10 U	10	1	06/25/24 15:14	
Benzene	5.0 U	5.0	1	06/25/24 15:14	
Bromochloromethane	5.0 U	5.0	1	06/25/24 15:14	
Bromodichloromethane	5.0 U	5.0	1	06/25/24 15:14	
Bromoform	5.0 U	5.0	1	06/25/24 15:14	
Bromomethane	5.0 U	5.0	1	06/25/24 15:14	
Carbon Disulfide	10 U	10	1	06/25/24 15:14	
Carbon Tetrachloride	5.0 U	5.0	1	06/25/24 15:14	
Chlorobenzene	5.0 U	5.0	1	06/25/24 15:14	
Chloroethane	5.0 U	5.0	1	06/25/24 15:14	
Chloroform	5.0 U	5.0	1	06/25/24 15:14	
Chloromethane	5.0 U	5.0	1	06/25/24 15:14	
Cyclohexane	10 U	10	1	06/25/24 15:14	
Dibromochloromethane	5.0 U	5.0	1	06/25/24 15:14	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/25/24 15:14	
Dichloromethane	5.0 U	5.0	1	06/25/24 15:14	
Ethylbenzene	5.0 U	5.0	1	06/25/24 15:14	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/25/24 15:14	
Methyl Acetate	10 U	10	1	06/25/24 15:14	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/25/24 15:14	
Methylcyclohexane	10 U	10	1	06/25/24 15:14	
Styrene	5.0 U	5.0	1	06/25/24 15:14	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/25/24 15:14	
Toluene	5.0 U	5.0	1	06/25/24 15:14	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: DR-3
Lab Code: R2405445-024

Service Request: R2405445
Date Collected: 06/17/24 12:38
Date Received: 06/18/24 15:36

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	25	5.0	1	06/25/24 15:14	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/25/24 15:14	
Vinyl Chloride	5.0 U	5.0	1	06/25/24 15:14	
cis-1,2-Dichloroethene	54	5.0	1	06/25/24 15:14	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/25/24 15:14	
m,p-Xylenes	5.0 U	5.0	1	06/25/24 15:14	
o-Xylene	5.0 U	5.0	1	06/25/24 15:14	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/25/24 15:14	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/25/24 15:14	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	06/25/24 15:14	
Dibromofluoromethane	104	80 - 116	06/25/24 15:14	
Toluene-d8	97	87 - 121	06/25/24 15:14	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/17/24 12:08
Date Received: 06/18/24 15:36

Sample Name: DR-4
Lab Code: R2405445-025

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/25/24 15:36	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/25/24 15:36	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/25/24 15:36	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/25/24 15:36	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/25/24 15:36	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/25/24 15:36	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/25/24 15:36	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/25/24 15:36	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/25/24 15:36	
1,2-Dibromoethane	5.0 U	5.0	1	06/25/24 15:36	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/25/24 15:36	
1,2-Dichloroethane	5.0 U	5.0	1	06/25/24 15:36	
1,2-Dichloropropane	5.0 U	5.0	1	06/25/24 15:36	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/25/24 15:36	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/25/24 15:36	
1,4-Dioxane	100 U	100	1	06/25/24 15:36	
2-Butanone (MEK)	10 U	10	1	06/25/24 15:36	
2-Hexanone	10 U	10	1	06/25/24 15:36	
4-Methyl-2-pentanone	10 U	10	1	06/25/24 15:36	
Acetone	10 U	10	1	06/25/24 15:36	
Benzene	5.0 U	5.0	1	06/25/24 15:36	
Bromochloromethane	5.0 U	5.0	1	06/25/24 15:36	
Bromodichloromethane	5.0 U	5.0	1	06/25/24 15:36	
Bromoform	5.0 U	5.0	1	06/25/24 15:36	
Bromomethane	5.0 U	5.0	1	06/25/24 15:36	
Carbon Disulfide	10 U	10	1	06/25/24 15:36	
Carbon Tetrachloride	5.0 U	5.0	1	06/25/24 15:36	
Chlorobenzene	5.0 U	5.0	1	06/25/24 15:36	
Chloroethane	5.0 U	5.0	1	06/25/24 15:36	
Chloroform	5.0 U	5.0	1	06/25/24 15:36	
Chloromethane	5.0 U	5.0	1	06/25/24 15:36	
Cyclohexane	10 U	10	1	06/25/24 15:36	
Dibromochloromethane	5.0 U	5.0	1	06/25/24 15:36	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/25/24 15:36	
Dichloromethane	5.0 U	5.0	1	06/25/24 15:36	
Ethylbenzene	5.0 U	5.0	1	06/25/24 15:36	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/25/24 15:36	
Methyl Acetate	10 U	10	1	06/25/24 15:36	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/25/24 15:36	
Methylcyclohexane	10 U	10	1	06/25/24 15:36	
Styrene	5.0 U	5.0	1	06/25/24 15:36	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/25/24 15:36	
Toluene	5.0 U	5.0	1	06/25/24 15:36	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water
Sample Name: DR-4
Lab Code: R2405445-025

Service Request: R2405445
Date Collected: 06/17/24 12:08
Date Received: 06/18/24 15:36
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	16	5.0	1	06/25/24 15:36	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/25/24 15:36	
Vinyl Chloride	5.0 U	5.0	1	06/25/24 15:36	
cis-1,2-Dichloroethene	5.2	5.0	1	06/25/24 15:36	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/25/24 15:36	
m,p-Xylenes	5.0 U	5.0	1	06/25/24 15:36	
o-Xylene	5.0 U	5.0	1	06/25/24 15:36	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/25/24 15:36	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/25/24 15:36	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	85 - 122	06/25/24 15:36	
Dibromofluoromethane	114	80 - 116	06/25/24 15:36	
Toluene-d8	105	87 - 121	06/25/24 15:36	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/17/24 15:00
Date Received: 06/18/24 15:36

Sample Name: G-1
Lab Code: R2405445-026

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/25/24 18:34	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/25/24 18:34	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/25/24 18:34	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/25/24 18:34	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/25/24 18:34	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/25/24 18:34	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/25/24 18:34	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/25/24 18:34	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/25/24 18:34	
1,2-Dibromoethane	5.0 U	5.0	1	06/25/24 18:34	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/25/24 18:34	
1,2-Dichloroethane	5.0 U	5.0	1	06/25/24 18:34	
1,2-Dichloropropane	5.0 U	5.0	1	06/25/24 18:34	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/25/24 18:34	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/25/24 18:34	
1,4-Dioxane	100 U	100	1	06/25/24 18:34	
2-Butanone (MEK)	10 U	10	1	06/25/24 18:34	
2-Hexanone	10 U	10	1	06/25/24 18:34	
4-Methyl-2-pentanone	10 U	10	1	06/25/24 18:34	
Acetone	10 U	10	1	06/25/24 18:34	
Benzene	5.0 U	5.0	1	06/25/24 18:34	
Bromochloromethane	5.0 U	5.0	1	06/25/24 18:34	
Bromodichloromethane	5.0 U	5.0	1	06/25/24 18:34	
Bromoform	5.0 U	5.0	1	06/25/24 18:34	
Bromomethane	5.0 U	5.0	1	06/25/24 18:34	
Carbon Disulfide	10 U	10	1	06/25/24 18:34	
Carbon Tetrachloride	5.0 U	5.0	1	06/25/24 18:34	
Chlorobenzene	5.0 U	5.0	1	06/25/24 18:34	
Chloroethane	5.0 U	5.0	1	06/25/24 18:34	
Chloroform	5.0 U	5.0	1	06/25/24 18:34	
Chloromethane	5.0 U	5.0	1	06/25/24 18:34	
Cyclohexane	10 U	10	1	06/25/24 18:34	
Dibromochloromethane	5.0 U	5.0	1	06/25/24 18:34	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/25/24 18:34	
Dichloromethane	5.0 U	5.0	1	06/25/24 18:34	
Ethylbenzene	5.0 U	5.0	1	06/25/24 18:34	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/25/24 18:34	
Methyl Acetate	10 U	10	1	06/25/24 18:34	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/25/24 18:34	
Methylcyclohexane	10 U	10	1	06/25/24 18:34	
Styrene	5.0 U	5.0	1	06/25/24 18:34	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/25/24 18:34	
Toluene	5.0 U	5.0	1	06/25/24 18:34	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water
Sample Name: G-1
Lab Code: R2405445-026

Service Request: R2405445
Date Collected: 06/17/24 15:00
Date Received: 06/18/24 15:36
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	6.5	5.0	1	06/25/24 18:34	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/25/24 18:34	
Vinyl Chloride	5.0 U	5.0	1	06/25/24 18:34	
cis-1,2-Dichloroethene	16	5.0	1	06/25/24 18:34	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/25/24 18:34	
m,p-Xylenes	5.0 U	5.0	1	06/25/24 18:34	
o-Xylene	5.0 U	5.0	1	06/25/24 18:34	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/25/24 18:34	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/25/24 18:34	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	06/25/24 18:34	
Dibromofluoromethane	109	80 - 116	06/25/24 18:34	
Toluene-d8	100	87 - 121	06/25/24 18:34	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/17/24 15:25
Date Received: 06/18/24 15:36

Sample Name: G-2
Lab Code: R2405445-027

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/25/24 16:21	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/25/24 16:21	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/25/24 16:21	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/25/24 16:21	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/25/24 16:21	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/25/24 16:21	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/25/24 16:21	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/25/24 16:21	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/25/24 16:21	
1,2-Dibromoethane	5.0 U	5.0	1	06/25/24 16:21	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/25/24 16:21	
1,2-Dichloroethane	5.0 U	5.0	1	06/25/24 16:21	
1,2-Dichloropropane	5.0 U	5.0	1	06/25/24 16:21	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/25/24 16:21	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/25/24 16:21	
1,4-Dioxane	100 U	100	1	06/25/24 16:21	
2-Butanone (MEK)	10 U	10	1	06/25/24 16:21	
2-Hexanone	10 U	10	1	06/25/24 16:21	
4-Methyl-2-pentanone	10 U	10	1	06/25/24 16:21	
Acetone	10 U	10	1	06/25/24 16:21	
Benzene	5.0 U	5.0	1	06/25/24 16:21	
Bromochloromethane	5.0 U	5.0	1	06/25/24 16:21	
Bromodichloromethane	5.0 U	5.0	1	06/25/24 16:21	
Bromoform	5.0 U	5.0	1	06/25/24 16:21	
Bromomethane	5.0 U	5.0	1	06/25/24 16:21	
Carbon Disulfide	10 U	10	1	06/25/24 16:21	
Carbon Tetrachloride	5.0 U	5.0	1	06/25/24 16:21	
Chlorobenzene	5.0 U	5.0	1	06/25/24 16:21	
Chloroethane	5.0 U	5.0	1	06/25/24 16:21	
Chloroform	5.0 U	5.0	1	06/25/24 16:21	
Chloromethane	5.0 U	5.0	1	06/25/24 16:21	
Cyclohexane	10 U	10	1	06/25/24 16:21	
Dibromochloromethane	5.0 U	5.0	1	06/25/24 16:21	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/25/24 16:21	
Dichloromethane	5.0 U	5.0	1	06/25/24 16:21	
Ethylbenzene	5.0 U	5.0	1	06/25/24 16:21	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/25/24 16:21	
Methyl Acetate	10 U	10	1	06/25/24 16:21	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/25/24 16:21	
Methylcyclohexane	10 U	10	1	06/25/24 16:21	
Styrene	5.0 U	5.0	1	06/25/24 16:21	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/25/24 16:21	
Toluene	5.0 U	5.0	1	06/25/24 16:21	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water
Sample Name: G-2
Lab Code: R2405445-027

Service Request: R2405445
Date Collected: 06/17/24 15:25
Date Received: 06/18/24 15:36
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	06/25/24 16:21	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/25/24 16:21	
Vinyl Chloride	5.0 U	5.0	1	06/25/24 16:21	
cis-1,2-Dichloroethene	56	5.0	1	06/25/24 16:21	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/25/24 16:21	
m,p-Xylenes	5.0 U	5.0	1	06/25/24 16:21	
o-Xylene	5.0 U	5.0	1	06/25/24 16:21	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/25/24 16:21	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/25/24 16:21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	85 - 122	06/25/24 16:21	
Dibromofluoromethane	95	80 - 116	06/25/24 16:21	
Toluene-d8	111	87 - 121	06/25/24 16:21	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/18/24 09:08
Date Received: 06/18/24 15:36

Sample Name: G-3
Lab Code: R2405445-028

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/25/24 16:43	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/25/24 16:43	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/25/24 16:43	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/25/24 16:43	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/25/24 16:43	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/25/24 16:43	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/25/24 16:43	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/25/24 16:43	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/25/24 16:43	
1,2-Dibromoethane	5.0 U	5.0	1	06/25/24 16:43	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/25/24 16:43	
1,2-Dichloroethane	5.0 U	5.0	1	06/25/24 16:43	
1,2-Dichloropropane	5.0 U	5.0	1	06/25/24 16:43	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/25/24 16:43	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/25/24 16:43	
1,4-Dioxane	100 U	100	1	06/25/24 16:43	
2-Butanone (MEK)	10 U	10	1	06/25/24 16:43	
2-Hexanone	10 U	10	1	06/25/24 16:43	
4-Methyl-2-pentanone	10 U	10	1	06/25/24 16:43	
Acetone	10 U	10	1	06/25/24 16:43	
Benzene	5.0 U	5.0	1	06/25/24 16:43	
Bromochloromethane	5.0 U	5.0	1	06/25/24 16:43	
Bromodichloromethane	5.0 U	5.0	1	06/25/24 16:43	
Bromoform	5.0 U	5.0	1	06/25/24 16:43	
Bromomethane	5.0 U	5.0	1	06/25/24 16:43	
Carbon Disulfide	10 U	10	1	06/25/24 16:43	
Carbon Tetrachloride	5.0 U	5.0	1	06/25/24 16:43	
Chlorobenzene	5.0 U	5.0	1	06/25/24 16:43	
Chloroethane	5.0 U	5.0	1	06/25/24 16:43	
Chloroform	5.0 U	5.0	1	06/25/24 16:43	
Chloromethane	5.0 U	5.0	1	06/25/24 16:43	
Cyclohexane	10 U	10	1	06/25/24 16:43	
Dibromochloromethane	5.0 U	5.0	1	06/25/24 16:43	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/25/24 16:43	
Dichloromethane	5.0 U	5.0	1	06/25/24 16:43	
Ethylbenzene	5.0 U	5.0	1	06/25/24 16:43	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/25/24 16:43	
Methyl Acetate	10 U	10	1	06/25/24 16:43	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/25/24 16:43	
Methylcyclohexane	10 U	10	1	06/25/24 16:43	
Styrene	5.0 U	5.0	1	06/25/24 16:43	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/25/24 16:43	
Toluene	5.0 U	5.0	1	06/25/24 16:43	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: G-3
Lab Code: R2405445-028

Service Request: R2405445
Date Collected: 06/18/24 09:08
Date Received: 06/18/24 15:36

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	12	5.0	1	06/25/24 16:43	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/25/24 16:43	
Vinyl Chloride	5.0 U	5.0	1	06/25/24 16:43	
cis-1,2-Dichloroethene	75	5.0	1	06/25/24 16:43	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/25/24 16:43	
m,p-Xylenes	5.0 U	5.0	1	06/25/24 16:43	
o-Xylene	5.0 U	5.0	1	06/25/24 16:43	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/25/24 16:43	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/25/24 16:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	113	85 - 122	06/25/24 16:43	
Dibromofluoromethane	110	80 - 116	06/25/24 16:43	
Toluene-d8	115	87 - 121	06/25/24 16:43	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/18/24
Date Received: 06/18/24 15:36

Sample Name: MW-X
Lab Code: R2405445-029

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	13 U	13	2.5	06/25/24 17:05	
1,1,2,2-Tetrachloroethane	13 U	13	2.5	06/25/24 17:05	
1,1,2-Trichloroethane	13 U	13	2.5	06/25/24 17:05	
1,1,2-Trichloro-1,2,2-trifluoroethane	13 U	13	2.5	06/25/24 17:05	
1,1-Dichloroethane (1,1-DCA)	13 U	13	2.5	06/25/24 17:05	
1,1-Dichloroethene (1,1-DCE)	13 U	13	2.5	06/25/24 17:05	
1,2,3-Trichlorobenzene	13 U	13	2.5	06/25/24 17:05	
1,2,4-Trichlorobenzene	13 U	13	2.5	06/25/24 17:05	
1,2-Dibromo-3-chloropropane (DBCP)	13 U	13	2.5	06/25/24 17:05	
1,2-Dibromoethane	13 U	13	2.5	06/25/24 17:05	
1,2-Dichlorobenzene	13 U	13	2.5	06/25/24 17:05	
1,2-Dichloroethane	13 U	13	2.5	06/25/24 17:05	
1,2-Dichloropropane	13 U	13	2.5	06/25/24 17:05	
1,3-Dichlorobenzene	13 U	13	2.5	06/25/24 17:05	
1,4-Dichlorobenzene	13 U	13	2.5	06/25/24 17:05	
1,4-Dioxane	250 U	250	2.5	06/25/24 17:05	
2-Butanone (MEK)	25 U	25	2.5	06/25/24 17:05	
2-Hexanone	25 U	25	2.5	06/25/24 17:05	
4-Methyl-2-pentanone	25 U	25	2.5	06/25/24 17:05	
Acetone	25 U	25	2.5	06/25/24 17:05	
Benzene	13 U	13	2.5	06/25/24 17:05	
Bromochloromethane	13 U	13	2.5	06/25/24 17:05	
Bromodichloromethane	13 U	13	2.5	06/25/24 17:05	
Bromoform	13 U	13	2.5	06/25/24 17:05	
Bromomethane	13 U	13	2.5	06/25/24 17:05	
Carbon Disulfide	25 U	25	2.5	06/25/24 17:05	
Carbon Tetrachloride	13 U	13	2.5	06/25/24 17:05	
Chlorobenzene	13 U	13	2.5	06/25/24 17:05	
Chloroethane	13 U	13	2.5	06/25/24 17:05	
Chloroform	13 U	13	2.5	06/25/24 17:05	
Chloromethane	13 U	13	2.5	06/25/24 17:05	
Cyclohexane	25 U	25	2.5	06/25/24 17:05	
Dibromochloromethane	13 U	13	2.5	06/25/24 17:05	
Dichlorodifluoromethane (CFC 12)	13 U	13	2.5	06/25/24 17:05	
Dichloromethane	13 U	13	2.5	06/25/24 17:05	
Ethylbenzene	13 U	13	2.5	06/25/24 17:05	
Isopropylbenzene (Cumene)	13 U	13	2.5	06/25/24 17:05	
Methyl Acetate	25 U	25	2.5	06/25/24 17:05	
Methyl tert-Butyl Ether	13 U	13	2.5	06/25/24 17:05	
Methylcyclohexane	25 U	25	2.5	06/25/24 17:05	
Styrene	13 U	13	2.5	06/25/24 17:05	
Tetrachloroethene (PCE)	13 U	13	2.5	06/25/24 17:05	
Toluene	13 U	13	2.5	06/25/24 17:05	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water
Sample Name: MW-X
Lab Code: R2405445-029

Service Request: R2405445
Date Collected: 06/18/24
Date Received: 06/18/24 15:36
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	420	13	2.5	06/25/24 17:05	
Trichlorofluoromethane (CFC 11)	13 U	13	2.5	06/25/24 17:05	
Vinyl Chloride	13 U	13	2.5	06/25/24 17:05	
cis-1,2-Dichloroethene	150	13	2.5	06/25/24 17:05	
cis-1,3-Dichloropropene	13 U	13	2.5	06/25/24 17:05	
m,p-Xylenes	13 U	13	2.5	06/25/24 17:05	
o-Xylene	13 U	13	2.5	06/25/24 17:05	
trans-1,2-Dichloroethene	13 U	13	2.5	06/25/24 17:05	
trans-1,3-Dichloropropene	13 U	13	2.5	06/25/24 17:05	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	111	85 - 122	06/25/24 17:05	
Dibromofluoromethane	107	80 - 116	06/25/24 17:05	
Toluene-d8	110	87 - 121	06/25/24 17:05	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/18/24 12:50
Date Received: 06/18/24 15:36

Sample Name: Field Blank
Lab Code: R2405445-030

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/25/24 12:38	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/25/24 12:38	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/25/24 12:38	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/25/24 12:38	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/25/24 12:38	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/25/24 12:38	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/25/24 12:38	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/25/24 12:38	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/25/24 12:38	
1,2-Dibromoethane	5.0 U	5.0	1	06/25/24 12:38	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/25/24 12:38	
1,2-Dichloroethane	5.0 U	5.0	1	06/25/24 12:38	
1,2-Dichloropropane	5.0 U	5.0	1	06/25/24 12:38	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/25/24 12:38	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/25/24 12:38	
1,4-Dioxane	100 U	100	1	06/25/24 12:38	
2-Butanone (MEK)	10 U	10	1	06/25/24 12:38	
2-Hexanone	10 U	10	1	06/25/24 12:38	
4-Methyl-2-pentanone	10 U	10	1	06/25/24 12:38	
Acetone	10 U	10	1	06/25/24 12:38	
Benzene	5.0 U	5.0	1	06/25/24 12:38	
Bromochloromethane	5.0 U	5.0	1	06/25/24 12:38	
Bromodichloromethane	5.0 U	5.0	1	06/25/24 12:38	
Bromoform	5.0 U	5.0	1	06/25/24 12:38	
Bromomethane	5.0 U	5.0	1	06/25/24 12:38	
Carbon Disulfide	10 U	10	1	06/25/24 12:38	
Carbon Tetrachloride	5.0 U	5.0	1	06/25/24 12:38	
Chlorobenzene	5.0 U	5.0	1	06/25/24 12:38	
Chloroethane	5.0 U	5.0	1	06/25/24 12:38	
Chloroform	5.0 U	5.0	1	06/25/24 12:38	
Chloromethane	5.0 U	5.0	1	06/25/24 12:38	
Cyclohexane	10 U	10	1	06/25/24 12:38	
Dibromochloromethane	5.0 U	5.0	1	06/25/24 12:38	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/25/24 12:38	
Dichloromethane	5.0 U	5.0	1	06/25/24 12:38	
Ethylbenzene	5.0 U	5.0	1	06/25/24 12:38	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/25/24 12:38	
Methyl Acetate	10 U	10	1	06/25/24 12:38	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/25/24 12:38	
Methylcyclohexane	10 U	10	1	06/25/24 12:38	
Styrene	5.0 U	5.0	1	06/25/24 12:38	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/25/24 12:38	
Toluene	5.0 U	5.0	1	06/25/24 12:38	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: Field Blank
Lab Code: R2405445-030

Service Request: R2405445
Date Collected: 06/18/24 12:50
Date Received: 06/18/24 15:36

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	06/25/24 12:38	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/25/24 12:38	
Vinyl Chloride	5.0 U	5.0	1	06/25/24 12:38	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/25/24 12:38	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/25/24 12:38	
m,p-Xylenes	5.0 U	5.0	1	06/25/24 12:38	
o-Xylene	5.0 U	5.0	1	06/25/24 12:38	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/25/24 12:38	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/25/24 12:38	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	06/25/24 12:38	
Dibromofluoromethane	102	80 - 116	06/25/24 12:38	
Toluene-d8	94	87 - 121	06/25/24 12:38	

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dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/18/24
Date Received: 06/18/24 15:36

Sample Name: Trip Blank
Lab Code: R2405445-031

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/25/24 12:16	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/25/24 12:16	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/25/24 12:16	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/25/24 12:16	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/25/24 12:16	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/25/24 12:16	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/25/24 12:16	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/25/24 12:16	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/25/24 12:16	
1,2-Dibromoethane	5.0 U	5.0	1	06/25/24 12:16	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/25/24 12:16	
1,2-Dichloroethane	5.0 U	5.0	1	06/25/24 12:16	
1,2-Dichloropropane	5.0 U	5.0	1	06/25/24 12:16	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/25/24 12:16	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/25/24 12:16	
1,4-Dioxane	100 U	100	1	06/25/24 12:16	
2-Butanone (MEK)	10 U	10	1	06/25/24 12:16	
2-Hexanone	10 U	10	1	06/25/24 12:16	
4-Methyl-2-pentanone	10 U	10	1	06/25/24 12:16	
Acetone	10 U	10	1	06/25/24 12:16	
Benzene	5.0 U	5.0	1	06/25/24 12:16	
Bromochloromethane	5.0 U	5.0	1	06/25/24 12:16	
Bromodichloromethane	5.0 U	5.0	1	06/25/24 12:16	
Bromoform	5.0 U	5.0	1	06/25/24 12:16	
Bromomethane	5.0 U	5.0	1	06/25/24 12:16	
Carbon Disulfide	10 U	10	1	06/25/24 12:16	
Carbon Tetrachloride	5.0 U	5.0	1	06/25/24 12:16	
Chlorobenzene	5.0 U	5.0	1	06/25/24 12:16	
Chloroethane	5.0 U	5.0	1	06/25/24 12:16	
Chloroform	5.0 U	5.0	1	06/25/24 12:16	
Chloromethane	5.0 U	5.0	1	06/25/24 12:16	
Cyclohexane	10 U	10	1	06/25/24 12:16	
Dibromochloromethane	5.0 U	5.0	1	06/25/24 12:16	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/25/24 12:16	
Dichloromethane	5.0 U	5.0	1	06/25/24 12:16	
Ethylbenzene	5.0 U	5.0	1	06/25/24 12:16	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/25/24 12:16	
Methyl Acetate	10 U	10	1	06/25/24 12:16	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/25/24 12:16	
Methylcyclohexane	10 U	10	1	06/25/24 12:16	
Styrene	5.0 U	5.0	1	06/25/24 12:16	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/25/24 12:16	
Toluene	5.0 U	5.0	1	06/25/24 12:16	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: Trip Blank
Lab Code: R2405445-031

Service Request: R2405445
Date Collected: 06/18/24
Date Received: 06/18/24 15:36

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	06/25/24 12:16	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/25/24 12:16	
Vinyl Chloride	5.0 U	5.0	1	06/25/24 12:16	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/25/24 12:16	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/25/24 12:16	
m,p-Xylenes	5.0 U	5.0	1	06/25/24 12:16	
o-Xylene	5.0 U	5.0	1	06/25/24 12:16	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/25/24 12:16	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/25/24 12:16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	06/25/24 12:16	
Dibromofluoromethane	88	80 - 116	06/25/24 12:16	
Toluene-d8	102	87 - 121	06/25/24 12:16	



QC Summary Forms

ALS Environmental—Rochester Laboratory

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Volatile Organic Compounds by GC/MS

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ALS Group USA, Corp.
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QA/QC Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85 - 122	80 - 116	87 - 121
MW-1	R2405445-001	91	87	92
MW-1 DL	R2405445-001	89	92	108
MW-2	R2405445-002	89	87	93
MW-3	R2405445-003	94	91	95
MW-4	R2405445-004	94	94	97
MW-5	R2405445-005	97	96	101
MW-6	R2405445-006	95	94	98
MW-7	R2405445-007	95	93	99
MW-8	R2405445-008	95	90	96
MW-9	R2405445-009	92	90	94
MW-10	R2405445-010	91	89	93
MW-11	R2405445-011	97	97	101
MW-12	R2405445-012	94	94	100
MW-13	R2405445-013	98	93	100
MW-14	R2405445-014	97	97	101
MW-15	R2405445-015	101	96	103
MW-16	R2405445-016	93	90	96
MW-17	R2405445-017	95	92	99
MW-17 DL	R2405445-017	88	101	103
MW-18	R2405445-018	97	94	100
MW-19R	R2405445-019	88	101	107
MW-20	R2405445-020	86	103	93
MW-21	R2405445-021	97	103	97
DR-1	R2405445-022	108	102	119
DR-2	R2405445-023	104	109	114
DR-3	R2405445-024	99	104	97
DR-4	R2405445-025	108	114	105
G-1	R2405445-026	90	109	100
G-2	R2405445-027	87	95	111
G-3	R2405445-028	113	110	115
MW-X	R2405445-029	111	107	110
Field Blank	R2405445-030	96	102	94
Trip Blank	R2405445-031	94	88	102
Lab Control Sample	RQ2407366-03	99	95	100
Method Blank	RQ2407366-04	90	88	93
Lab Control Sample	RQ2407494-03	113	104	120
Method Blank	RQ2407494-04	93	90	97

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QA/QC Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85 - 122	80 - 116	87 - 121
MW-20 MS	RQ2407494-05	119	110	123 *
MW-20 DMS	RQ2407494-06	99	111	102

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QA/QC Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/18/24
Date Received: 06/18/24
Date Analyzed: 06/25/24
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: MW-20
Lab Code: R2405445-020
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2407494-05			Duplicate Matrix Spike RQ2407494-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,1,1-Trichloroethane (TCA)	5.0 U	50.7	50.0	101	54.2	50.0	108	74-127	7	30
1,1,2,2-Tetrachloroethane	5.0 U	46.9	50.0	94	48.6	50.0	97	72-122	4	30
1,1,2-Trichloroethane	5.0 U	52.6	50.0	105	47.8	50.0	96	82-121	10	30
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	52.1	50.0	104	50.8	50.0	102	50-147	3	30
1,1-Dichloroethane (1,1-DCA)	5.0 U	54.4	50.0	109	54.6	50.0	109	74-132	<1	30
1,1-Dichloroethene (1,1-DCE)	5.0 U	57.4	50.0	115	55.2	50.0	110	71-118	4	30
1,2,3-Trichlorobenzene	5.0 U	44.7	50.0	89	51.0	50.0	102	59-129	13	30
1,2,4-Trichlorobenzene	5.0 U	45.5	50.0	91	52.5	50.0	105	69-122	14	30
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	42.0	50.0	84	48.8	50.0	98	37-150	15	30
1,2-Dibromoethane	5.0 U	46.8	50.0	94	51.3	50.0	103	67-127	9	30
1,2-Dichlorobenzene	5.0 U	45.3	50.0	91	52.0	50.0	104	77-120	14	30
1,2-Dichloroethane	5.0 U	48.8	50.0	98	51.9	50.0	104	68-130	6	30
1,2-Dichloropropane	5.0 U	45.5	50.0	91	48.7	50.0	97	79-124	7	30
1,3-Dichlorobenzene	5.0 U	48.1	50.0	96	54.4	50.0	109	83-121	12	30
1,4-Dichlorobenzene	5.0 U	46.4	50.0	93	51.4	50.0	103	82-120	10	30
1,4-Dioxane	100 U	884	1000	88	867	1000	87	44-154	2	30
2-Butanone (MEK)	10 U	48.2	50.0	96	45.3	50.0	91	61-137	6	30
2-Hexanone	10 U	48.7	50.0	97	52.0	50.0	104	56-132	7	30
4-Methyl-2-pentanone	10 U	55.0	50.0	110	48.5	50.0	97	60-141	13	30
Acetone	10 U	44.2	50.0	88	42.0	50.0	84	35-183	5	30
Benzene	5.0 U	52.3	50.0	105	57.8	50.0	116	76-129	10	30
Bromochloromethane	5.0 U	48.5	50.0	97	49.0	50.0	98	80-122	<1	30
Bromodichloromethane	5.0 U	50.7	50.0	101	51.6	50.0	103	78-133	2	30
Bromoform	5.0 U	48.0	50.0	96	53.6	50.0	107	58-133	11	30
Bromomethane	5.0 U	32.6	50.0	65	32.4	50.0	65	10-184	<1	30
Carbon Disulfide	10 U	57.3	50.0	115	55.6	50.0	111	59-140	3	30
Carbon Tetrachloride	5.0 U	49.8	50.0	100	57.3	50.0	115	65-135	14	30
Chlorobenzene	5.0 U	47.2	50.0	94	52.0	50.0	104	76-125	10	30
Chloroethane	5.0 U	44.6	50.0	89	42.5	50.0	85	48-146	5	30
Chloroform	5.0 U	50.7	50.0	101	51.2	50.0	102	75-130	1	30
Chloromethane	5.0 U	72.5	50.0	145	70.9	50.0	142	55-160	2	30
Cyclohexane	10 U	54.7	50.0	109	56.2	50.0	112	52-145	3	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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QA/QC Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Collected: 06/18/24
Date Received: 06/18/24
Date Analyzed: 06/25/24
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: MW-20
Lab Code: R2405445-020
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2407494-05			Duplicate Matrix Spike RQ2407494-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Dibromochloromethane	5.0 U	47.6	50.0	95	54.1	50.0	108	72-128	13	30
Dichlorodifluoromethane (CFC 12)	5.0 U	52.4	50.0	105	51.4	50.0	103	49-154	2	30
Dichloromethane	5.0 U	52.5	50.0	105	51.5	50.0	103	73-122	2	30
Ethylbenzene	5.0 U	50.8	50.0	102	55.8	50.0	112	72-134	9	30
Isopropylbenzene (Cumene)	5.0 U	50.2	50.0	100	55.7	50.0	111	77-128	10	30
Methyl Acetate	10 U	38.1	50.0	76	35.3	50.0	71	26-121	8	30
Methyl tert-Butyl Ether	5.0 U	49.0	50.0	98	48.4	50.0	97	75-119	1	30
Methylcyclohexane	10 U	54.1	50.0	108	56.0	50.0	112	45-146	3	30
Styrene	5.0 U	49.8	50.0	100	55.7	50.0	111	74-136	11	30
Tetrachloroethene (PCE)	5.0 U	50.2	50.0	100	56.1	50.0	112	72-125	11	30
Toluene	5.0 U	56.3	50.0	113	51.9	50.0	104	79-119	8	30
Trichloroethene (TCE)	5.0 U	49.0	50.0	98	54.5	50.0	109	74-122	11	30
Trichlorofluoromethane (CFC 11)	5.0 U	53.0	50.0	106	50.9	50.0	102	71-136	4	30
Vinyl Chloride	5.0 U	53.5	50.0	107	52.6	50.0	105	74-159	2	30
cis-1,2-Dichloroethene	5.0 U	51.9	50.0	104	49.7	50.0	99	77-127	4	30
cis-1,3-Dichloropropene	5.0 U	53.6	50.0	107	50.6	50.0	101	52-134	6	30
m,p-Xylenes	5.0 U	103	100	103	113	100	113	80-126	9	30
o-Xylene	5.0 U	50.0	50.0	100	55.8	50.0	112	79-123	11	30
trans-1,2-Dichloroethene	5.0 U	54.7	50.0	109	53.2	50.0	106	73-118	3	30
trans-1,3-Dichloropropene	5.0 U	50.9	50.0	102	50.2	50.0	100	71-133	1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2407366-04

Service Request: R2405445
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/24/24 11:38	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/24/24 11:38	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/24/24 11:38	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/24/24 11:38	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/24/24 11:38	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/24/24 11:38	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/24/24 11:38	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/24/24 11:38	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/24/24 11:38	
1,2-Dibromoethane	5.0 U	5.0	1	06/24/24 11:38	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/24/24 11:38	
1,2-Dichloroethane	5.0 U	5.0	1	06/24/24 11:38	
1,2-Dichloropropane	5.0 U	5.0	1	06/24/24 11:38	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/24/24 11:38	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/24/24 11:38	
1,4-Dioxane	100 U	100	1	06/24/24 11:38	
2-Butanone (MEK)	10 U	10	1	06/24/24 11:38	
2-Hexanone	10 U	10	1	06/24/24 11:38	
4-Methyl-2-pentanone	10 U	10	1	06/24/24 11:38	
Acetone	10 U	10	1	06/24/24 11:38	
Benzene	5.0 U	5.0	1	06/24/24 11:38	
Bromochloromethane	5.0 U	5.0	1	06/24/24 11:38	
Bromodichloromethane	5.0 U	5.0	1	06/24/24 11:38	
Bromoform	5.0 U	5.0	1	06/24/24 11:38	
Bromomethane	5.0 U	5.0	1	06/24/24 11:38	
Carbon Disulfide	10 U	10	1	06/24/24 11:38	
Carbon Tetrachloride	5.0 U	5.0	1	06/24/24 11:38	
Chlorobenzene	5.0 U	5.0	1	06/24/24 11:38	
Chloroethane	5.0 U	5.0	1	06/24/24 11:38	
Chloroform	5.0 U	5.0	1	06/24/24 11:38	
Chloromethane	5.0 U	5.0	1	06/24/24 11:38	
Cyclohexane	10 U	10	1	06/24/24 11:38	
Dibromochloromethane	5.0 U	5.0	1	06/24/24 11:38	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/24/24 11:38	
Dichloromethane	5.0 U	5.0	1	06/24/24 11:38	
Ethylbenzene	5.0 U	5.0	1	06/24/24 11:38	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/24/24 11:38	
Methyl Acetate	10 U	10	1	06/24/24 11:38	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/24/24 11:38	
Methylcyclohexane	10 U	10	1	06/24/24 11:38	
Styrene	5.0 U	5.0	1	06/24/24 11:38	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/24/24 11:38	
Toluene	5.0 U	5.0	1	06/24/24 11:38	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: RQ2407366-04

Service Request: R2405445
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	06/24/24 11:38	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/24/24 11:38	
Vinyl Chloride	5.0 U	5.0	1	06/24/24 11:38	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 11:38	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 11:38	
m,p-Xylenes	5.0 U	5.0	1	06/24/24 11:38	
o-Xylene	5.0 U	5.0	1	06/24/24 11:38	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/24/24 11:38	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/24/24 11:38	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	06/24/24 11:38	
Dibromofluoromethane	88	80 - 116	06/24/24 11:38	
Toluene-d8	93	87 - 121	06/24/24 11:38	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: RQ2407494-04

Service Request: R2405445
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1	06/25/24 11:54	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	06/25/24 11:54	
1,1,2-Trichloroethane	5.0 U	5.0	1	06/25/24 11:54	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1	06/25/24 11:54	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1	06/25/24 11:54	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1	06/25/24 11:54	
1,2,3-Trichlorobenzene	5.0 U	5.0	1	06/25/24 11:54	
1,2,4-Trichlorobenzene	5.0 U	5.0	1	06/25/24 11:54	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1	06/25/24 11:54	
1,2-Dibromoethane	5.0 U	5.0	1	06/25/24 11:54	
1,2-Dichlorobenzene	5.0 U	5.0	1	06/25/24 11:54	
1,2-Dichloroethane	5.0 U	5.0	1	06/25/24 11:54	
1,2-Dichloropropane	5.0 U	5.0	1	06/25/24 11:54	
1,3-Dichlorobenzene	5.0 U	5.0	1	06/25/24 11:54	
1,4-Dichlorobenzene	5.0 U	5.0	1	06/25/24 11:54	
1,4-Dioxane	100 U	100	1	06/25/24 11:54	
2-Butanone (MEK)	10 U	10	1	06/25/24 11:54	
2-Hexanone	10 U	10	1	06/25/24 11:54	
4-Methyl-2-pentanone	10 U	10	1	06/25/24 11:54	
Acetone	10 U	10	1	06/25/24 11:54	
Benzene	5.0 U	5.0	1	06/25/24 11:54	
Bromochloromethane	5.0 U	5.0	1	06/25/24 11:54	
Bromodichloromethane	5.0 U	5.0	1	06/25/24 11:54	
Bromoform	5.0 U	5.0	1	06/25/24 11:54	
Bromomethane	5.0 U	5.0	1	06/25/24 11:54	
Carbon Disulfide	10 U	10	1	06/25/24 11:54	
Carbon Tetrachloride	5.0 U	5.0	1	06/25/24 11:54	
Chlorobenzene	5.0 U	5.0	1	06/25/24 11:54	
Chloroethane	5.0 U	5.0	1	06/25/24 11:54	
Chloroform	5.0 U	5.0	1	06/25/24 11:54	
Chloromethane	5.0 U	5.0	1	06/25/24 11:54	
Cyclohexane	10 U	10	1	06/25/24 11:54	
Dibromochloromethane	5.0 U	5.0	1	06/25/24 11:54	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1	06/25/24 11:54	
Dichloromethane	5.0 U	5.0	1	06/25/24 11:54	
Ethylbenzene	5.0 U	5.0	1	06/25/24 11:54	
Isopropylbenzene (Cumene)	5.0 U	5.0	1	06/25/24 11:54	
Methyl Acetate	10 U	10	1	06/25/24 11:54	
Methyl tert-Butyl Ether	5.0 U	5.0	1	06/25/24 11:54	
Methylcyclohexane	10 U	10	1	06/25/24 11:54	
Styrene	5.0 U	5.0	1	06/25/24 11:54	
Tetrachloroethene (PCE)	5.0 U	5.0	1	06/25/24 11:54	
Toluene	5.0 U	5.0	1	06/25/24 11:54	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: RQ2407494-04

Service Request: R2405445
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.0 U	5.0	1	06/25/24 11:54	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1	06/25/24 11:54	
Vinyl Chloride	5.0 U	5.0	1	06/25/24 11:54	
cis-1,2-Dichloroethene	5.0 U	5.0	1	06/25/24 11:54	
cis-1,3-Dichloropropene	5.0 U	5.0	1	06/25/24 11:54	
m,p-Xylenes	5.0 U	5.0	1	06/25/24 11:54	
o-Xylene	5.0 U	5.0	1	06/25/24 11:54	
trans-1,2-Dichloroethene	5.0 U	5.0	1	06/25/24 11:54	
trans-1,3-Dichloropropene	5.0 U	5.0	1	06/25/24 11:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	06/25/24 11:54	
Dibromofluoromethane	90	80 - 116	06/25/24 11:54	
Toluene-d8	97	87 - 121	06/25/24 11:54	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Analyzed: 06/24/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2407366-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	21.6	20.0	108	75-125
1,1,2,2-Tetrachloroethane	8260C	18.8	20.0	94	78-126
1,1,2-Trichloroethane	8260C	20.8	20.0	104	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	22.4	20.0	112	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	23.6	20.0	118	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	22.7	20.0	114	69-142
1,2,3-Trichlorobenzene	8260C	19.6	20.0	98	67-136
1,2,4-Trichlorobenzene	8260C	19.7	20.0	99	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	16.6	20.0	83	55-136
1,2-Dibromoethane	8260C	20.4	20.0	102	82-127
1,2-Dichlorobenzene	8260C	20.0	20.0	100	80-119
1,2-Dichloroethane	8260C	20.9	20.0	105	71-127
1,2-Dichloropropane	8260C	20.8	20.0	104	80-119
1,3-Dichlorobenzene	8260C	20.8	20.0	104	83-121
1,4-Dichlorobenzene	8260C	19.9	20.0	99	79-119
1,4-Dioxane	8260C	339	400	85	44-154
2-Butanone (MEK)	8260C	22.6	20.0	113	61-137
2-Hexanone	8260C	20.7	20.0	104	63-124
4-Methyl-2-pentanone	8260C	20.9	20.0	105	66-124
Acetone	8260C	18.2	20.0	91	40-161
Benzene	8260C	22.2	20.0	111	79-119
Bromochloromethane	8260C	21.1	20.0	106	81-126
Bromodichloromethane	8260C	20.5	20.0	103	81-123
Bromoform	8260C	19.1	20.0	96	65-146
Bromomethane	8260C	26.9	20.0	135	42-166
Carbon Disulfide	8260C	21.6	20.0	108	66-128
Carbon Tetrachloride	8260C	19.2	20.0	96	70-127
Chlorobenzene	8260C	20.5	20.0	103	80-121
Chloroethane	8260C	16.7	20.0	84	62-131
Chloroform	8260C	22.2	20.0	111	79-120
Chloromethane	8260C	26.1	20.0	130	72-179
Cyclohexane	8260C	22.8	20.0	114	69-120
Dibromochloromethane	8260C	19.4	20.0	97	72-128

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Analyzed: 06/24/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2407366-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	24.4	20.0	122	59-155
Dichloromethane	8260C	23.7	20.0	119	73-122
Ethylbenzene	8260C	20.9	20.0	105	76-120
Isopropylbenzene (Cumene)	8260C	20.9	20.0	105	77-128
Methyl Acetate	8260C	15.6	20.0	78	61-133
Methyl tert-Butyl Ether	8260C	21.1	20.0	106	75-118
Methylcyclohexane	8260C	21.3	20.0	107	51-129
Styrene	8260C	21.4	20.0	107	80-124
Tetrachloroethene (PCE)	8260C	20.1	20.0	100	72-125
Toluene	8260C	21.8	20.0	109	79-119
Trichloroethene (TCE)	8260C	22.1	20.0	111	74-122
Trichlorofluoromethane (CFC 11)	8260C	21.6	20.0	108	71-136
Vinyl Chloride	8260C	21.6	20.0	108	74-159
cis-1,2-Dichloroethene	8260C	22.6	20.0	113	80-121
cis-1,3-Dichloropropene	8260C	21.9	20.0	109	77-122
m,p-Xylenes	8260C	43.1	40.0	108	80-126
o-Xylene	8260C	21.8	20.0	109	79-123
trans-1,2-Dichloroethene	8260C	21.5	20.0	108	73-118
trans-1,3-Dichloropropene	8260C	23.0	20.0	115	71-133

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Analyzed: 06/25/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2407494-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	20.5	20.0	102	75-125
1,1,2,2-Tetrachloroethane	8260C	23.8	20.0	119	78-126
1,1,2-Trichloroethane	8260C	24.2	20.0	121	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	23.2	20.0	116	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	23.0	20.0	115	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	24.4	20.0	122	69-142
1,2,3-Trichlorobenzene	8260C	23.1	20.0	116	67-136
1,2,4-Trichlorobenzene	8260C	22.9	20.0	114	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	19.6	20.0	98	55-136
1,2-Dibromoethane	8260C	20.8	20.0	104	82-127
1,2-Dichlorobenzene	8260C	20.5	20.0	103	80-119
1,2-Dichloroethane	8260C	21.8	20.0	109	71-127
1,2-Dichloropropane	8260C	22.4	20.0	112	80-119
1,3-Dichlorobenzene	8260C	22.1	20.0	111	83-121
1,4-Dichlorobenzene	8260C	21.6	20.0	108	79-119
1,4-Dioxane	8260C	453	400	113	44-154
2-Butanone (MEK)	8260C	21.5	20.0	108	61-137
2-Hexanone	8260C	19.6	20.0	98	63-124
4-Methyl-2-pentanone	8260C	22.5	20.0	112	66-124
Acetone	8260C	20.2	20.0	101	40-161
Benzene	8260C	22.5	20.0	113	79-119
Bromochloromethane	8260C	22.8	20.0	114	81-126
Bromodichloromethane	8260C	23.9	20.0	120	81-123
Bromoform	8260C	21.5	20.0	107	65-146
Bromomethane	8260C	14.8	20.0	74	42-166
Carbon Disulfide	8260C	23.9	20.0	119	66-128
Carbon Tetrachloride	8260C	19.8	20.0	99	70-127
Chlorobenzene	8260C	20.6	20.0	103	80-121
Chloroethane	8260C	19.8	20.0	99	62-131
Chloroform	8260C	22.1	20.0	111	79-120
Chloromethane	8260C	33.1	20.0	166	72-179
Cyclohexane	8260C	19.6	20.0	98	69-120
Dibromochloromethane	8260C	21.3	20.0	106	72-128

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda Q2 2024/24004500A
Sample Matrix: Water

Service Request: R2405445
Date Analyzed: 06/25/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2407494-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	22.6	20.0	113	59-155
Dichloromethane	8260C	24.7	20.0	123 *	73-122
Ethylbenzene	8260C	21.9	20.0	109	76-120
Isopropylbenzene (Cumene)	8260C	20.8	20.0	104	77-128
Methyl Acetate	8260C	16.9	20.0	84	61-133
Methyl tert-Butyl Ether	8260C	22.7	20.0	113	75-118
Methylcyclohexane	8260C	22.7	20.0	113	51-129
Styrene	8260C	21.8	20.0	109	80-124
Tetrachloroethene (PCE)	8260C	22.0	20.0	110	72-125
Toluene	8260C	25.1	20.0	125 *	79-119
Trichloroethene (TCE)	8260C	22.2	20.0	111	74-122
Trichlorofluoromethane (CFC 11)	8260C	21.8	20.0	109	71-136
Vinyl Chloride	8260C	23.1	20.0	116	74-159
cis-1,2-Dichloroethene	8260C	21.7	20.0	109	80-121
cis-1,3-Dichloropropene	8260C	23.7	20.0	118	77-122
m,p-Xylenes	8260C	44.0	40.0	110	80-126
o-Xylene	8260C	21.4	20.0	107	79-123
trans-1,2-Dichloroethene	8260C	23.5	20.0	117	73-118
trans-1,3-Dichloropropene	8260C	22.6	20.0	113	71-133



SEPTEMBER 2024
LABORATORY RESULTS



October 02, 2024

Service Request No:R2409305

Justin O'Brien
Colliers Engineering & Design
71 State St Suite 104
Binghamton, NY 13901

Laboratory Results for: Gowanda

Dear Justin,

Enclosed are the results of the sample(s) submitted to our laboratory September 20, 2024
For your reference, these analyses have been assigned our service request number **R2409305**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7476. You may also contact me via email at Chris.Leavy@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

A handwritten signature in black ink, appearing to read 'Chris Leavy'.

Christopher Leavy
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda
Sample Matrix: Water

Service Request: R2409305

Date Received: 09/20/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Thirty one water samples were received for analysis at ALS Environmental on 09/20/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Volatiles by GC/MS:

Method 8260D, 09/26/2024: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260D, 09/25/2024: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Approved by  _____

Date 10/02/2024

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: Trip Blank	Lab ID: R2409305-030

Analyte	Results	Flag	MDL	MRL	Units	Method
1,4-Dichlorobenzene	1.6			1.0	ug/L	8260D

CLIENT ID: Trip Blank	Lab ID: R2409305-031

Analyte	Results	Flag	MDL	MRL	Units	Method
1,4-Dichlorobenzene	1.7			1.0	ug/L	8260D

CLIENT ID: MW-1	Lab ID: R2409305-001

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	100			1.0	ug/L	8260D
trans-1,2-Dichloroethene	1.7			1.0	ug/L	8260D
Trichloroethene (TCE)	140			1.0	ug/L	8260D
Vinyl Chloride	4.1			1.0	ug/L	8260D

CLIENT ID: MW-6	Lab ID: R2409305-006

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	31			1.0	ug/L	8260D
Vinyl Chloride	49			1.0	ug/L	8260D

CLIENT ID: MW-7	Lab ID: R2409305-007

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	47			1.0	ug/L	8260D

CLIENT ID: MW-11	Lab ID: R2409305-011

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	100			1.0	ug/L	8260D
cis-1,2-Dichloroethene	90	D		2.5	ug/L	8260D
trans-1,2-Dichloroethene	7.1			1.0	ug/L	8260D
trans-1,2-Dichloroethene	5.7	D		2.5	ug/L	8260D
Trichloroethene (TCE)	230	E		1.0	ug/L	8260D
Trichloroethene (TCE)	190	D		2.5	ug/L	8260D

CLIENT ID: MW-12	Lab ID: R2409305-012

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	31			1.0	ug/L	8260D
Trichloroethene (TCE)	13			1.0	ug/L	8260D

CLIENT ID: MW-14	Lab ID: R2409305-014

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	17			1.0	ug/L	8260D
Trichloroethene (TCE)	11			1.0	ug/L	8260D
Vinyl Chloride	1.1			1.0	ug/L	8260D



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MW-17	Lab ID: R2409305-016

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	210	E		1.0	ug/L	8260D
cis-1,2-Dichloroethene	190	D		2.5	ug/L	8260D
trans-1,2-Dichloroethene	1.1			1.0	ug/L	8260D
Trichloroethene (TCE)	8.1			1.0	ug/L	8260D
Trichloroethene (TCE)	7.6	D		2.5	ug/L	8260D

CLIENT ID: MW-18	Lab ID: R2409305-017

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	15			1.0	ug/L	8260D
Vinyl Chloride	1.0			1.0	ug/L	8260D

CLIENT ID: MW-21	Lab ID: R2409305-020

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	26			1.0	ug/L	8260D
Trichloroethene (TCE)	1.9			1.0	ug/L	8260D

CLIENT ID: DR-1	Lab ID: R2409305-021

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	23			2.5	ug/L	8260D
trans-1,2-Dichloroethene	4.5			2.5	ug/L	8260D
Trichloroethene (TCE)	250			2.5	ug/L	8260D

CLIENT ID: DR-2	Lab ID: R2409305-022

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	120			1.0	ug/L	8260D
trans-1,2-Dichloroethene	1.2			1.0	ug/L	8260D
Trichloroethene (TCE)	22			1.0	ug/L	8260D

CLIENT ID: DR-3	Lab ID: R2409305-023

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	59			1.0	ug/L	8260D
trans-1,2-Dichloroethene	1.0			1.0	ug/L	8260D
Trichloroethene (TCE)	26			1.0	ug/L	8260D
Vinyl Chloride	1.1			1.0	ug/L	8260D

CLIENT ID: DR-4	Lab ID: R2409305-024

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	9.2			1.0	ug/L	8260D
Trichloroethene (TCE)	18			1.0	ug/L	8260D

CLIENT ID: G-1	Lab ID: R2409305-025

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	43			1.0	ug/L	8260D
Trichloroethene (TCE)	3.4			1.0	ug/L	8260D



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: G-1	Lab ID: R2409305-025

Analyte	Results	Flag	MDL	MRL	Units	Method
Vinyl Chloride	1.0			1.0	ug/L	8260D

CLIENT ID: G-2	Lab ID: R2409305-026

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	58			1.0	ug/L	8260D

CLIENT ID: G-3	Lab ID: R2409305-027

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	160			1.0	ug/L	8260D
trans-1,2-Dichloroethene	1.1			1.0	ug/L	8260D
Trichloroethene (TCE)	16			1.0	ug/L	8260D

CLIENT ID: MW-X	Lab ID: R2409305-028

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	84			1.0	ug/L	8260D
trans-1,2-Dichloroethene	1.3			1.0	ug/L	8260D
Trichloroethene (TCE)	100			1.0	ug/L	8260D
Vinyl Chloride	3.6			1.0	ug/L	8260D

CLIENT ID: MW-5	Lab ID: R2409305-005

Analyte	Results	Flag	MDL	MRL	Units	Method
Trichloroethene (TCE)	1.7			1.0	ug/L	8260D

CLIENT ID: MW-15	Lab ID: R2409305-015

Analyte	Results	Flag	MDL	MRL	Units	Method
Trichloroethene (TCE)	3.1			1.0	ug/L	8260D



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96

Service Request:R2409305

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2409305-001	MW-1	9/19/2024	1755
R2409305-002	MW-2	9/19/2024	0845
R2409305-003	MW-3	9/19/2024	0820
R2409305-004	MW-4	9/19/2024	1034
R2409305-005	MW-5	9/19/2024	1116
R2409305-006	MW-6	9/19/2024	1137
R2409305-007	MW-7	9/19/2024	1617
R2409305-008	MW-8	9/19/2024	1641
R2409305-009	MW-9	9/19/2024	1730
R2409305-010	MW-10	9/19/2024	1707
R2409305-011	MW-11	9/19/2024	1605
R2409305-012	MW-12	9/19/2024	1510
R2409305-013	MW-13	9/19/2024	1525
R2409305-014	MW-14	9/19/2024	1346
R2409305-015	MW-15	9/19/2024	1300
R2409305-016	MW-17	9/20/2024	0959
R2409305-017	MW-18	9/20/2024	0755
R2409305-018	MW-19R	9/20/2024	0705
R2409305-019	MW-20	9/20/2024	1059
R2409305-020	MW-21	9/20/2024	0640
R2409305-021	DR-1	9/19/2024	1550
R2409305-022	DR-2	9/19/2024	1451
R2409305-023	DR-3	9/19/2024	1427
R2409305-024	DR-4	9/19/2024	1330
R2409305-025	G-1	9/19/2024	1240
R2409305-026	G-2	9/19/2024	1210
R2409305-027	G-3	9/20/2024	0929
R2409305-028	MW-X	9/19/2024	
R2409305-029	FB	9/20/2024	1147
R2409305-030	Trip Blank	9/20/2024	
R2409305-031	Trip Blank	9/20/2024	

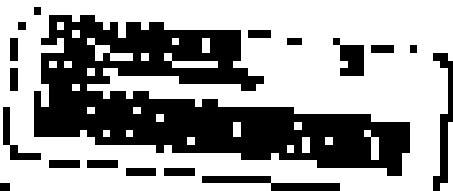
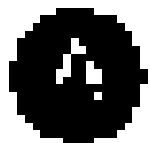
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1. Project Name: [Project Name] 2. Project Number: [Project Number] 3. Project Manager: [Project Manager] 4. Project Sponsor: [Project Sponsor] 5. Project Start Date: [Project Start Date] 6. Project End Date: [Project End Date]		7. Project Description: [Project Description] 8. Project Objectives: [Project Objectives] 9. Project Scope: [Project Scope] 10. Project Budget: [Project Budget] 11. Project Risk: [Project Risk] 12. Project Status: [Project Status]		13. Project Location: [Project Location] 14. Project Team: [Project Team] 15. Project Stakeholders: [Project Stakeholders] 16. Project Deliverables: [Project Deliverables] 17. Project Milestones: [Project Milestones] 18. Project Risks: [Project Risks] 19. Project Issues: [Project Issues] 20. Project Change Log: [Project Change Log]	
21. Project Summary: [Project Summary] 22. Project Conclusion: [Project Conclusion] 23. Project Recommendations: [Project Recommendations] 24. Project Appendix: [Project Appendix] 25. Project Glossary: [Project Glossary] 26. Project Index: [Project Index]		27. Project References: [Project References] 28. Project Bibliography: [Project Bibliography] 29. Project Footnote: [Project Footnote] 30. Project Page Number: [Project Page Number]		31. Project Date: [Project Date] 32. Project Time: [Project Time] 33. Project Location: [Project Location] 34. Project Team: [Project Team] 35. Project Stakeholders: [Project Stakeholders] 36. Project Deliverables: [Project Deliverables] 37. Project Milestones: [Project Milestones] 38. Project Risks: [Project Risks] 39. Project Issues: [Project Issues] 40. Project Change Log: [Project Change Log]	



THIS INFORMATION REPORT, FOR THE YEAR 1984, IS REQUIRED BY THE FEDERAL BUREAU OF INVESTIGATION (FBI) AND THE DEPARTMENT OF JUSTICE (DOJ) TO BE SUBMITTED TO THE FBI BY ALL AGENCIES.

EXHIBIT 1A		EXHIBIT 1B		EXHIBIT 1C		EXHIBIT 1D		EXHIBIT 1E		EXHIBIT 1F		EXHIBIT 1G		EXHIBIT 1H		EXHIBIT 1I		EXHIBIT 1J		EXHIBIT 1K		EXHIBIT 1L		EXHIBIT 1M		EXHIBIT 1N		EXHIBIT 1O		EXHIBIT 1P		EXHIBIT 1Q		EXHIBIT 1R		EXHIBIT 1S		EXHIBIT 1T		EXHIBIT 1U		EXHIBIT 1V		EXHIBIT 1W		EXHIBIT 1X		EXHIBIT 1Y		EXHIBIT 1Z																																																	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200



County Board and Commissioners Clerk Form

County Board and Commissioners Clerk Form

Date received 9/20/2020 by H.C.

Form 100-100

CT 100-100 AND THE POWER RATING

- 1) The County has a more complete
- 2) Development plan's complete development
- 3) All of the County's resources are available
- 4) The County has a more complete

- 5) The County has a more complete
- 6) The County has a more complete
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4) The County has a more complete

5) The County has a more complete

6) The County has a more complete

7) The County has a more complete



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Texas ID#T104704581
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to <https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx>.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96

Service Request: R2409305

Sample Name: MW-1
Lab Code: R2409305-001
Sample Matrix: Water

Date Collected: 09/19/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-2
Lab Code: R2409305-002
Sample Matrix: Water

Date Collected: 09/19/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-3
Lab Code: R2409305-003
Sample Matrix: Water

Date Collected: 09/19/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-4
Lab Code: R2409305-004
Sample Matrix: Water

Date Collected: 09/19/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-5
Lab Code: R2409305-005
Sample Matrix: Water

Date Collected: 09/19/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96

Service Request: R2409305

Sample Name: MW-6
Lab Code: R2409305-006
Sample Matrix: Water

Date Collected: 09/19/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-7
Lab Code: R2409305-007
Sample Matrix: Water

Date Collected: 09/19/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-8
Lab Code: R2409305-008
Sample Matrix: Water

Date Collected: 09/19/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-9
Lab Code: R2409305-009
Sample Matrix: Water

Date Collected: 09/19/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-10
Lab Code: R2409305-010
Sample Matrix: Water

Date Collected: 09/19/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96

Service Request: R2409305

Sample Name: MW-11
Lab Code: R2409305-011
Sample Matrix: Water

Date Collected: 09/19/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-11
Lab Code: R2409305-011.R01
Sample Matrix: Water

Date Collected: 09/19/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-12
Lab Code: R2409305-012
Sample Matrix: Water

Date Collected: 09/19/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-13
Lab Code: R2409305-013
Sample Matrix: Water

Date Collected: 09/19/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-14
Lab Code: R2409305-014
Sample Matrix: Water

Date Collected: 09/19/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96

Service Request: R2409305

Sample Name: MW-15
Lab Code: R2409305-015
Sample Matrix: Water

Date Collected: 09/19/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-17
Lab Code: R2409305-016
Sample Matrix: Water

Date Collected: 09/20/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-17
Lab Code: R2409305-016.R01
Sample Matrix: Water

Date Collected: 09/20/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-18
Lab Code: R2409305-017
Sample Matrix: Water

Date Collected: 09/20/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-19R
Lab Code: R2409305-018
Sample Matrix: Water

Date Collected: 09/20/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96

Service Request: R2409305

Sample Name: MW-20
Lab Code: R2409305-019
Sample Matrix: Water

Date Collected: 09/20/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-21
Lab Code: R2409305-020
Sample Matrix: Water

Date Collected: 09/20/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: DR-1
Lab Code: R2409305-021
Sample Matrix: Water

Date Collected: 09/19/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: DR-2
Lab Code: R2409305-022
Sample Matrix: Water

Date Collected: 09/19/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: DR-3
Lab Code: R2409305-023
Sample Matrix: Water

Date Collected: 09/19/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96

Service Request: R2409305

Sample Name: DR-4
Lab Code: R2409305-024
Sample Matrix: Water

Date Collected: 09/19/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: G-1
Lab Code: R2409305-025
Sample Matrix: Water

Date Collected: 09/19/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: G-2
Lab Code: R2409305-026
Sample Matrix: Water

Date Collected: 09/19/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: G-3
Lab Code: R2409305-027
Sample Matrix: Water

Date Collected: 09/20/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: MW-X
Lab Code: R2409305-028
Sample Matrix: Water

Date Collected: 09/19/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96

Service Request: R2409305

Sample Name: FB
Lab Code: R2409305-029
Sample Matrix: Water

Date Collected: 09/20/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: Trip Blank
Lab Code: R2409305-030
Sample Matrix: Water

Date Collected: 09/20/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: Trip Blank
Lab Code: R2409305-031
Sample Matrix: Water

Date Collected: 09/20/24
Date Received: 09/20/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
KRUEST



PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

INORGANIC

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C or 6010D	3005A/3010A
6020A or 6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C or 6010D	3050B
6020A or 6020B	3050B
6010C or 6010D TCLP (1311) extract	3005A/3010A
6010C or 6010D SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":

For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.



Sample Results

ALS Environmental—Rochester Laboratory

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/19/24 17:55
Date Received: 09/20/24 14:37

Sample Name: MW-1
Lab Code: R2409305-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/26/24 13:53	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/26/24 13:53	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/26/24 13:53	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/26/24 13:53	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/26/24 13:53	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/26/24 13:53	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/26/24 13:53	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/26/24 13:53	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/26/24 13:53	
1,2-Dibromoethane	1.0 U	1.0	1	09/26/24 13:53	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/26/24 13:53	
1,2-Dichloroethane	1.0 U	1.0	1	09/26/24 13:53	
1,2-Dichloropropane	1.0 U	1.0	1	09/26/24 13:53	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/26/24 13:53	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/26/24 13:53	
1,4-Dioxane	40 U	40	1	09/26/24 13:53	
2-Butanone (MEK)	5.0 U	5.0	1	09/26/24 13:53	
2-Hexanone	5.0 U	5.0	1	09/26/24 13:53	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/26/24 13:53	
Acetone	5.0 U	5.0	1	09/26/24 13:53	
Benzene	1.0 U	1.0	1	09/26/24 13:53	
Bromochloromethane	1.0 U	1.0	1	09/26/24 13:53	
Bromodichloromethane	1.0 U	1.0	1	09/26/24 13:53	
Bromoform	1.0 U	1.0	1	09/26/24 13:53	
Bromomethane	1.0 U	1.0	1	09/26/24 13:53	
Carbon Disulfide	1.0 U	1.0	1	09/26/24 13:53	
Carbon Tetrachloride	1.0 U	1.0	1	09/26/24 13:53	
Chlorobenzene	1.0 U	1.0	1	09/26/24 13:53	
Chloroethane	1.0 U	1.0	1	09/26/24 13:53	
Chloroform	1.0 U	1.0	1	09/26/24 13:53	
Chloromethane	1.0 U	1.0	1	09/26/24 13:53	
Cyclohexane	1.0 U	1.0	1	09/26/24 13:53	
Dibromochloromethane	1.0 U	1.0	1	09/26/24 13:53	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/26/24 13:53	
Dichloromethane	1.0 U	1.0	1	09/26/24 13:53	
Ethylbenzene	1.0 U	1.0	1	09/26/24 13:53	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/26/24 13:53	
Methyl Acetate	2.0 U	2.0	1	09/26/24 13:53	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/26/24 13:53	
Methylcyclohexane	1.0 U	1.0	1	09/26/24 13:53	
Styrene	1.0 U	1.0	1	09/26/24 13:53	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/26/24 13:53	
Toluene	1.0 U	1.0	1	09/26/24 13:53	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-1
Lab Code: R2409305-001

Service Request: R2409305
Date Collected: 09/19/24 17:55
Date Received: 09/20/24 14:37

Units: ug/L

Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	140	1.0	1	09/26/24 13:53	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/26/24 13:53	
Vinyl Chloride	4.1	1.0	1	09/26/24 13:53	
cis-1,2-Dichloroethene	100	1.0	1	09/26/24 13:53	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 13:53	
m,p-Xylenes	2.0 U	2.0	1	09/26/24 13:53	
o-Xylene	1.0 U	1.0	1	09/26/24 13:53	
trans-1,2-Dichloroethene	1.7	1.0	1	09/26/24 13:53	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 13:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/26/24 13:53	
Dibromofluoromethane	98	80 - 116	09/26/24 13:53	
Toluene-d8	98	87 - 121	09/26/24 13:53	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/19/24 08:45
Date Received: 09/20/24 14:37

Sample Name: MW-2
Lab Code: R2409305-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/25/24 17:31	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/25/24 17:31	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/25/24 17:31	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/25/24 17:31	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/25/24 17:31	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/25/24 17:31	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/25/24 17:31	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/25/24 17:31	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/25/24 17:31	
1,2-Dibromoethane	1.0 U	1.0	1	09/25/24 17:31	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/25/24 17:31	
1,2-Dichloroethane	1.0 U	1.0	1	09/25/24 17:31	
1,2-Dichloropropane	1.0 U	1.0	1	09/25/24 17:31	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/25/24 17:31	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/25/24 17:31	
1,4-Dioxane	40 U	40	1	09/25/24 17:31	
2-Butanone (MEK)	5.0 U	5.0	1	09/25/24 17:31	
2-Hexanone	5.0 U	5.0	1	09/25/24 17:31	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/25/24 17:31	
Acetone	5.0 U	5.0	1	09/25/24 17:31	
Benzene	1.0 U	1.0	1	09/25/24 17:31	
Bromochloromethane	1.0 U	1.0	1	09/25/24 17:31	
Bromodichloromethane	1.0 U	1.0	1	09/25/24 17:31	
Bromoform	1.0 U	1.0	1	09/25/24 17:31	
Bromomethane	1.0 U	1.0	1	09/25/24 17:31	
Carbon Disulfide	1.0 U	1.0	1	09/25/24 17:31	
Carbon Tetrachloride	1.0 U	1.0	1	09/25/24 17:31	
Chlorobenzene	1.0 U	1.0	1	09/25/24 17:31	
Chloroethane	1.0 U	1.0	1	09/25/24 17:31	
Chloroform	1.0 U	1.0	1	09/25/24 17:31	
Chloromethane	1.0 U	1.0	1	09/25/24 17:31	
Cyclohexane	1.0 U	1.0	1	09/25/24 17:31	
Dibromochloromethane	1.0 U	1.0	1	09/25/24 17:31	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/25/24 17:31	
Dichloromethane	1.0 U	1.0	1	09/25/24 17:31	
Ethylbenzene	1.0 U	1.0	1	09/25/24 17:31	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/25/24 17:31	
Methyl Acetate	2.0 U	2.0	1	09/25/24 17:31	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/25/24 17:31	
Methylcyclohexane	1.0 U	1.0	1	09/25/24 17:31	
Styrene	1.0 U	1.0	1	09/25/24 17:31	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/25/24 17:31	
Toluene	1.0 U	1.0	1	09/25/24 17:31	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water
Sample Name: MW-2
Lab Code: R2409305-002

Service Request: R2409305
Date Collected: 09/19/24 08:45
Date Received: 09/20/24 14:37
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	09/25/24 17:31	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/25/24 17:31	
Vinyl Chloride	1.0 U	1.0	1	09/25/24 17:31	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/25/24 17:31	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 17:31	
m,p-Xylenes	2.0 U	2.0	1	09/25/24 17:31	
o-Xylene	1.0 U	1.0	1	09/25/24 17:31	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/25/24 17:31	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 17:31	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	09/25/24 17:31	
Dibromofluoromethane	101	80 - 116	09/25/24 17:31	
Toluene-d8	102	87 - 121	09/25/24 17:31	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/19/24 08:20
Date Received: 09/20/24 14:37

Sample Name: MW-3
Lab Code: R2409305-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/25/24 17:54	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/25/24 17:54	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/25/24 17:54	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/25/24 17:54	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/25/24 17:54	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/25/24 17:54	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/25/24 17:54	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/25/24 17:54	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/25/24 17:54	
1,2-Dibromoethane	1.0 U	1.0	1	09/25/24 17:54	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/25/24 17:54	
1,2-Dichloroethane	1.0 U	1.0	1	09/25/24 17:54	
1,2-Dichloropropane	1.0 U	1.0	1	09/25/24 17:54	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/25/24 17:54	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/25/24 17:54	
1,4-Dioxane	40 U	40	1	09/25/24 17:54	
2-Butanone (MEK)	5.0 U	5.0	1	09/25/24 17:54	
2-Hexanone	5.0 U	5.0	1	09/25/24 17:54	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/25/24 17:54	
Acetone	5.0 U	5.0	1	09/25/24 17:54	
Benzene	1.0 U	1.0	1	09/25/24 17:54	
Bromochloromethane	1.0 U	1.0	1	09/25/24 17:54	
Bromodichloromethane	1.0 U	1.0	1	09/25/24 17:54	
Bromoform	1.0 U	1.0	1	09/25/24 17:54	
Bromomethane	1.0 U	1.0	1	09/25/24 17:54	
Carbon Disulfide	1.0 U	1.0	1	09/25/24 17:54	
Carbon Tetrachloride	1.0 U	1.0	1	09/25/24 17:54	
Chlorobenzene	1.0 U	1.0	1	09/25/24 17:54	
Chloroethane	1.0 U	1.0	1	09/25/24 17:54	
Chloroform	1.0 U	1.0	1	09/25/24 17:54	
Chloromethane	1.0 U	1.0	1	09/25/24 17:54	
Cyclohexane	1.0 U	1.0	1	09/25/24 17:54	
Dibromochloromethane	1.0 U	1.0	1	09/25/24 17:54	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/25/24 17:54	
Dichloromethane	1.0 U	1.0	1	09/25/24 17:54	
Ethylbenzene	1.0 U	1.0	1	09/25/24 17:54	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/25/24 17:54	
Methyl Acetate	2.0 U	2.0	1	09/25/24 17:54	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/25/24 17:54	
Methylcyclohexane	1.0 U	1.0	1	09/25/24 17:54	
Styrene	1.0 U	1.0	1	09/25/24 17:54	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/25/24 17:54	
Toluene	1.0 U	1.0	1	09/25/24 17:54	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-3
Lab Code: R2409305-003

Service Request: R2409305
Date Collected: 09/19/24 08:20
Date Received: 09/20/24 14:37

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	09/25/24 17:54	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/25/24 17:54	
Vinyl Chloride	1.0 U	1.0	1	09/25/24 17:54	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/25/24 17:54	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 17:54	
m,p-Xylenes	2.0 U	2.0	1	09/25/24 17:54	
o-Xylene	1.0 U	1.0	1	09/25/24 17:54	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/25/24 17:54	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 17:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	09/25/24 17:54	
Dibromofluoromethane	96	80 - 116	09/25/24 17:54	
Toluene-d8	101	87 - 121	09/25/24 17:54	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/19/24 10:34
Date Received: 09/20/24 14:37

Sample Name: MW-4
Lab Code: R2409305-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/25/24 18:17	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/25/24 18:17	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/25/24 18:17	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/25/24 18:17	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/25/24 18:17	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/25/24 18:17	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/25/24 18:17	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/25/24 18:17	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/25/24 18:17	
1,2-Dibromoethane	1.0 U	1.0	1	09/25/24 18:17	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/25/24 18:17	
1,2-Dichloroethane	1.0 U	1.0	1	09/25/24 18:17	
1,2-Dichloropropane	1.0 U	1.0	1	09/25/24 18:17	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/25/24 18:17	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/25/24 18:17	
1,4-Dioxane	40 U	40	1	09/25/24 18:17	
2-Butanone (MEK)	5.0 U	5.0	1	09/25/24 18:17	
2-Hexanone	5.0 U	5.0	1	09/25/24 18:17	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/25/24 18:17	
Acetone	5.0 U	5.0	1	09/25/24 18:17	
Benzene	1.0 U	1.0	1	09/25/24 18:17	
Bromochloromethane	1.0 U	1.0	1	09/25/24 18:17	
Bromodichloromethane	1.0 U	1.0	1	09/25/24 18:17	
Bromoform	1.0 U	1.0	1	09/25/24 18:17	
Bromomethane	1.0 U	1.0	1	09/25/24 18:17	
Carbon Disulfide	1.0 U	1.0	1	09/25/24 18:17	
Carbon Tetrachloride	1.0 U	1.0	1	09/25/24 18:17	
Chlorobenzene	1.0 U	1.0	1	09/25/24 18:17	
Chloroethane	1.0 U	1.0	1	09/25/24 18:17	
Chloroform	1.0 U	1.0	1	09/25/24 18:17	
Chloromethane	1.0 U	1.0	1	09/25/24 18:17	
Cyclohexane	1.0 U	1.0	1	09/25/24 18:17	
Dibromochloromethane	1.0 U	1.0	1	09/25/24 18:17	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/25/24 18:17	
Dichloromethane	1.0 U	1.0	1	09/25/24 18:17	
Ethylbenzene	1.0 U	1.0	1	09/25/24 18:17	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/25/24 18:17	
Methyl Acetate	2.0 U	2.0	1	09/25/24 18:17	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/25/24 18:17	
Methylcyclohexane	1.0 U	1.0	1	09/25/24 18:17	
Styrene	1.0 U	1.0	1	09/25/24 18:17	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/25/24 18:17	
Toluene	1.0 U	1.0	1	09/25/24 18:17	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water
Sample Name: MW-4
Lab Code: R2409305-004

Service Request: R2409305
Date Collected: 09/19/24 10:34
Date Received: 09/20/24 14:37
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	09/25/24 18:17	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/25/24 18:17	
Vinyl Chloride	1.0 U	1.0	1	09/25/24 18:17	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/25/24 18:17	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 18:17	
m,p-Xylenes	2.0 U	2.0	1	09/25/24 18:17	
o-Xylene	1.0 U	1.0	1	09/25/24 18:17	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/25/24 18:17	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 18:17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	09/25/24 18:17	
Dibromofluoromethane	98	80 - 116	09/25/24 18:17	
Toluene-d8	99	87 - 121	09/25/24 18:17	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/19/24 11:16
Date Received: 09/20/24 14:37

Sample Name: MW-5
Lab Code: R2409305-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/25/24 18:40	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/25/24 18:40	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/25/24 18:40	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/25/24 18:40	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/25/24 18:40	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/25/24 18:40	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/25/24 18:40	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/25/24 18:40	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/25/24 18:40	
1,2-Dibromoethane	1.0 U	1.0	1	09/25/24 18:40	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/25/24 18:40	
1,2-Dichloroethane	1.0 U	1.0	1	09/25/24 18:40	
1,2-Dichloropropane	1.0 U	1.0	1	09/25/24 18:40	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/25/24 18:40	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/25/24 18:40	
1,4-Dioxane	40 U	40	1	09/25/24 18:40	
2-Butanone (MEK)	5.0 U	5.0	1	09/25/24 18:40	
2-Hexanone	5.0 U	5.0	1	09/25/24 18:40	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/25/24 18:40	
Acetone	5.0 U	5.0	1	09/25/24 18:40	
Benzene	1.0 U	1.0	1	09/25/24 18:40	
Bromochloromethane	1.0 U	1.0	1	09/25/24 18:40	
Bromodichloromethane	1.0 U	1.0	1	09/25/24 18:40	
Bromoform	1.0 U	1.0	1	09/25/24 18:40	
Bromomethane	1.0 U	1.0	1	09/25/24 18:40	
Carbon Disulfide	1.0 U	1.0	1	09/25/24 18:40	
Carbon Tetrachloride	1.0 U	1.0	1	09/25/24 18:40	
Chlorobenzene	1.0 U	1.0	1	09/25/24 18:40	
Chloroethane	1.0 U	1.0	1	09/25/24 18:40	
Chloroform	1.0 U	1.0	1	09/25/24 18:40	
Chloromethane	1.0 U	1.0	1	09/25/24 18:40	
Cyclohexane	1.0 U	1.0	1	09/25/24 18:40	
Dibromochloromethane	1.0 U	1.0	1	09/25/24 18:40	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/25/24 18:40	
Dichloromethane	1.0 U	1.0	1	09/25/24 18:40	
Ethylbenzene	1.0 U	1.0	1	09/25/24 18:40	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/25/24 18:40	
Methyl Acetate	2.0 U	2.0	1	09/25/24 18:40	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/25/24 18:40	
Methylcyclohexane	1.0 U	1.0	1	09/25/24 18:40	
Styrene	1.0 U	1.0	1	09/25/24 18:40	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/25/24 18:40	
Toluene	1.0 U	1.0	1	09/25/24 18:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-5
Lab Code: R2409305-005

Service Request: R2409305
Date Collected: 09/19/24 11:16
Date Received: 09/20/24 14:37

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.7	1.0	1	09/25/24 18:40	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/25/24 18:40	
Vinyl Chloride	1.0 U	1.0	1	09/25/24 18:40	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/25/24 18:40	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 18:40	
m,p-Xylenes	2.0 U	2.0	1	09/25/24 18:40	
o-Xylene	1.0 U	1.0	1	09/25/24 18:40	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/25/24 18:40	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 18:40	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	09/25/24 18:40	
Dibromofluoromethane	97	80 - 116	09/25/24 18:40	
Toluene-d8	98	87 - 121	09/25/24 18:40	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/19/24 11:37
Date Received: 09/20/24 14:37

Sample Name: MW-6
Lab Code: R2409305-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/25/24 19:03	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/25/24 19:03	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/25/24 19:03	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/25/24 19:03	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/25/24 19:03	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/25/24 19:03	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/25/24 19:03	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/25/24 19:03	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/25/24 19:03	
1,2-Dibromoethane	1.0 U	1.0	1	09/25/24 19:03	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/25/24 19:03	
1,2-Dichloroethane	1.0 U	1.0	1	09/25/24 19:03	
1,2-Dichloropropane	1.0 U	1.0	1	09/25/24 19:03	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/25/24 19:03	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/25/24 19:03	
1,4-Dioxane	40 U	40	1	09/25/24 19:03	
2-Butanone (MEK)	5.0 U	5.0	1	09/25/24 19:03	
2-Hexanone	5.0 U	5.0	1	09/25/24 19:03	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/25/24 19:03	
Acetone	5.0 U	5.0	1	09/25/24 19:03	
Benzene	1.0 U	1.0	1	09/25/24 19:03	
Bromochloromethane	1.0 U	1.0	1	09/25/24 19:03	
Bromodichloromethane	1.0 U	1.0	1	09/25/24 19:03	
Bromoform	1.0 U	1.0	1	09/25/24 19:03	
Bromomethane	1.0 U	1.0	1	09/25/24 19:03	
Carbon Disulfide	1.0 U	1.0	1	09/25/24 19:03	
Carbon Tetrachloride	1.0 U	1.0	1	09/25/24 19:03	
Chlorobenzene	1.0 U	1.0	1	09/25/24 19:03	
Chloroethane	1.0 U	1.0	1	09/25/24 19:03	
Chloroform	1.0 U	1.0	1	09/25/24 19:03	
Chloromethane	1.0 U	1.0	1	09/25/24 19:03	
Cyclohexane	1.0 U	1.0	1	09/25/24 19:03	
Dibromochloromethane	1.0 U	1.0	1	09/25/24 19:03	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/25/24 19:03	
Dichloromethane	1.0 U	1.0	1	09/25/24 19:03	
Ethylbenzene	1.0 U	1.0	1	09/25/24 19:03	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/25/24 19:03	
Methyl Acetate	2.0 U	2.0	1	09/25/24 19:03	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/25/24 19:03	
Methylcyclohexane	1.0 U	1.0	1	09/25/24 19:03	
Styrene	1.0 U	1.0	1	09/25/24 19:03	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/25/24 19:03	
Toluene	1.0 U	1.0	1	09/25/24 19:03	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-6
Lab Code: R2409305-006

Service Request: R2409305
Date Collected: 09/19/24 11:37
Date Received: 09/20/24 14:37

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	09/25/24 19:03	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/25/24 19:03	
Vinyl Chloride	49	1.0	1	09/25/24 19:03	
cis-1,2-Dichloroethene	31	1.0	1	09/25/24 19:03	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 19:03	
m,p-Xylenes	2.0 U	2.0	1	09/25/24 19:03	
o-Xylene	1.0 U	1.0	1	09/25/24 19:03	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/25/24 19:03	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 19:03	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	09/25/24 19:03	
Dibromofluoromethane	96	80 - 116	09/25/24 19:03	
Toluene-d8	98	87 - 121	09/25/24 19:03	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/19/24 16:17
Date Received: 09/20/24 14:37

Sample Name: MW-7
Lab Code: R2409305-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/25/24 19:26	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/25/24 19:26	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/25/24 19:26	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/25/24 19:26	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/25/24 19:26	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/25/24 19:26	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/25/24 19:26	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/25/24 19:26	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/25/24 19:26	
1,2-Dibromoethane	1.0 U	1.0	1	09/25/24 19:26	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/25/24 19:26	
1,2-Dichloroethane	1.0 U	1.0	1	09/25/24 19:26	
1,2-Dichloropropane	1.0 U	1.0	1	09/25/24 19:26	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/25/24 19:26	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/25/24 19:26	
1,4-Dioxane	40 U	40	1	09/25/24 19:26	
2-Butanone (MEK)	5.0 U	5.0	1	09/25/24 19:26	
2-Hexanone	5.0 U	5.0	1	09/25/24 19:26	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/25/24 19:26	
Acetone	5.0 U	5.0	1	09/25/24 19:26	
Benzene	1.0 U	1.0	1	09/25/24 19:26	
Bromochloromethane	1.0 U	1.0	1	09/25/24 19:26	
Bromodichloromethane	1.0 U	1.0	1	09/25/24 19:26	
Bromoform	1.0 U	1.0	1	09/25/24 19:26	
Bromomethane	1.0 U	1.0	1	09/25/24 19:26	
Carbon Disulfide	1.0 U	1.0	1	09/25/24 19:26	
Carbon Tetrachloride	1.0 U	1.0	1	09/25/24 19:26	
Chlorobenzene	1.0 U	1.0	1	09/25/24 19:26	
Chloroethane	1.0 U	1.0	1	09/25/24 19:26	
Chloroform	1.0 U	1.0	1	09/25/24 19:26	
Chloromethane	1.0 U	1.0	1	09/25/24 19:26	
Cyclohexane	1.0 U	1.0	1	09/25/24 19:26	
Dibromochloromethane	1.0 U	1.0	1	09/25/24 19:26	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/25/24 19:26	
Dichloromethane	1.0 U	1.0	1	09/25/24 19:26	
Ethylbenzene	1.0 U	1.0	1	09/25/24 19:26	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/25/24 19:26	
Methyl Acetate	2.0 U	2.0	1	09/25/24 19:26	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/25/24 19:26	
Methylcyclohexane	1.0 U	1.0	1	09/25/24 19:26	
Styrene	1.0 U	1.0	1	09/25/24 19:26	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/25/24 19:26	
Toluene	1.0 U	1.0	1	09/25/24 19:26	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-7
Lab Code: R2409305-007

Service Request: R2409305
Date Collected: 09/19/24 16:17
Date Received: 09/20/24 14:37

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	09/25/24 19:26	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/25/24 19:26	
Vinyl Chloride	1.0 U	1.0	1	09/25/24 19:26	
cis-1,2-Dichloroethene	47	1.0	1	09/25/24 19:26	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 19:26	
m,p-Xylenes	2.0 U	2.0	1	09/25/24 19:26	
o-Xylene	1.0 U	1.0	1	09/25/24 19:26	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/25/24 19:26	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 19:26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	09/25/24 19:26	
Dibromofluoromethane	100	80 - 116	09/25/24 19:26	
Toluene-d8	100	87 - 121	09/25/24 19:26	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/19/24 16:41
Date Received: 09/20/24 14:37

Sample Name: MW-8
Lab Code: R2409305-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/25/24 19:49	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/25/24 19:49	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/25/24 19:49	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/25/24 19:49	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/25/24 19:49	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/25/24 19:49	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/25/24 19:49	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/25/24 19:49	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/25/24 19:49	
1,2-Dibromoethane	1.0 U	1.0	1	09/25/24 19:49	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/25/24 19:49	
1,2-Dichloroethane	1.0 U	1.0	1	09/25/24 19:49	
1,2-Dichloropropane	1.0 U	1.0	1	09/25/24 19:49	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/25/24 19:49	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/25/24 19:49	
1,4-Dioxane	40 U	40	1	09/25/24 19:49	
2-Butanone (MEK)	5.0 U	5.0	1	09/25/24 19:49	
2-Hexanone	5.0 U	5.0	1	09/25/24 19:49	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/25/24 19:49	
Acetone	5.0 U	5.0	1	09/25/24 19:49	
Benzene	1.0 U	1.0	1	09/25/24 19:49	
Bromochloromethane	1.0 U	1.0	1	09/25/24 19:49	
Bromodichloromethane	1.0 U	1.0	1	09/25/24 19:49	
Bromoform	1.0 U	1.0	1	09/25/24 19:49	
Bromomethane	1.0 U	1.0	1	09/25/24 19:49	
Carbon Disulfide	1.0 U	1.0	1	09/25/24 19:49	
Carbon Tetrachloride	1.0 U	1.0	1	09/25/24 19:49	
Chlorobenzene	1.0 U	1.0	1	09/25/24 19:49	
Chloroethane	1.0 U	1.0	1	09/25/24 19:49	
Chloroform	1.0 U	1.0	1	09/25/24 19:49	
Chloromethane	1.0 U	1.0	1	09/25/24 19:49	
Cyclohexane	1.0 U	1.0	1	09/25/24 19:49	
Dibromochloromethane	1.0 U	1.0	1	09/25/24 19:49	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/25/24 19:49	
Dichloromethane	1.0 U	1.0	1	09/25/24 19:49	
Ethylbenzene	1.0 U	1.0	1	09/25/24 19:49	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/25/24 19:49	
Methyl Acetate	2.0 U	2.0	1	09/25/24 19:49	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/25/24 19:49	
Methylcyclohexane	1.0 U	1.0	1	09/25/24 19:49	
Styrene	1.0 U	1.0	1	09/25/24 19:49	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/25/24 19:49	
Toluene	1.0 U	1.0	1	09/25/24 19:49	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water
Sample Name: MW-8
Lab Code: R2409305-008

Service Request: R2409305
Date Collected: 09/19/24 16:41
Date Received: 09/20/24 14:37
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	09/25/24 19:49	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/25/24 19:49	
Vinyl Chloride	1.0 U	1.0	1	09/25/24 19:49	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/25/24 19:49	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 19:49	
m,p-Xylenes	2.0 U	2.0	1	09/25/24 19:49	
o-Xylene	1.0 U	1.0	1	09/25/24 19:49	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/25/24 19:49	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 19:49	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	09/25/24 19:49	
Dibromofluoromethane	99	80 - 116	09/25/24 19:49	
Toluene-d8	101	87 - 121	09/25/24 19:49	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/19/24 17:30
Date Received: 09/20/24 14:37

Sample Name: MW-9
Lab Code: R2409305-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/25/24 20:12	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/25/24 20:12	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/25/24 20:12	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/25/24 20:12	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/25/24 20:12	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/25/24 20:12	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/25/24 20:12	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/25/24 20:12	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/25/24 20:12	
1,2-Dibromoethane	1.0 U	1.0	1	09/25/24 20:12	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/25/24 20:12	
1,2-Dichloroethane	1.0 U	1.0	1	09/25/24 20:12	
1,2-Dichloropropane	1.0 U	1.0	1	09/25/24 20:12	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/25/24 20:12	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/25/24 20:12	
1,4-Dioxane	40 U	40	1	09/25/24 20:12	
2-Butanone (MEK)	5.0 U	5.0	1	09/25/24 20:12	
2-Hexanone	5.0 U	5.0	1	09/25/24 20:12	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/25/24 20:12	
Acetone	5.0 U	5.0	1	09/25/24 20:12	
Benzene	1.0 U	1.0	1	09/25/24 20:12	
Bromochloromethane	1.0 U	1.0	1	09/25/24 20:12	
Bromodichloromethane	1.0 U	1.0	1	09/25/24 20:12	
Bromoform	1.0 U	1.0	1	09/25/24 20:12	
Bromomethane	1.0 U	1.0	1	09/25/24 20:12	
Carbon Disulfide	1.0 U	1.0	1	09/25/24 20:12	
Carbon Tetrachloride	1.0 U	1.0	1	09/25/24 20:12	
Chlorobenzene	1.0 U	1.0	1	09/25/24 20:12	
Chloroethane	1.0 U	1.0	1	09/25/24 20:12	
Chloroform	1.0 U	1.0	1	09/25/24 20:12	
Chloromethane	1.0 U	1.0	1	09/25/24 20:12	
Cyclohexane	1.0 U	1.0	1	09/25/24 20:12	
Dibromochloromethane	1.0 U	1.0	1	09/25/24 20:12	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/25/24 20:12	
Dichloromethane	1.0 U	1.0	1	09/25/24 20:12	
Ethylbenzene	1.0 U	1.0	1	09/25/24 20:12	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/25/24 20:12	
Methyl Acetate	2.0 U	2.0	1	09/25/24 20:12	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/25/24 20:12	
Methylcyclohexane	1.0 U	1.0	1	09/25/24 20:12	
Styrene	1.0 U	1.0	1	09/25/24 20:12	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/25/24 20:12	
Toluene	1.0 U	1.0	1	09/25/24 20:12	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-9
Lab Code: R2409305-009

Service Request: R2409305
Date Collected: 09/19/24 17:30
Date Received: 09/20/24 14:37

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	09/25/24 20:12	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/25/24 20:12	
Vinyl Chloride	1.0 U	1.0	1	09/25/24 20:12	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/25/24 20:12	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 20:12	
m,p-Xylenes	2.0 U	2.0	1	09/25/24 20:12	
o-Xylene	1.0 U	1.0	1	09/25/24 20:12	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/25/24 20:12	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 20:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	09/25/24 20:12	
Dibromofluoromethane	97	80 - 116	09/25/24 20:12	
Toluene-d8	97	87 - 121	09/25/24 20:12	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/19/24 17:07
Date Received: 09/20/24 14:37

Sample Name: MW-10
Lab Code: R2409305-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/25/24 20:35	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/25/24 20:35	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/25/24 20:35	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/25/24 20:35	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/25/24 20:35	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/25/24 20:35	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/25/24 20:35	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/25/24 20:35	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/25/24 20:35	
1,2-Dibromoethane	1.0 U	1.0	1	09/25/24 20:35	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/25/24 20:35	
1,2-Dichloroethane	1.0 U	1.0	1	09/25/24 20:35	
1,2-Dichloropropane	1.0 U	1.0	1	09/25/24 20:35	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/25/24 20:35	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/25/24 20:35	
1,4-Dioxane	40 U	40	1	09/25/24 20:35	
2-Butanone (MEK)	5.0 U	5.0	1	09/25/24 20:35	
2-Hexanone	5.0 U	5.0	1	09/25/24 20:35	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/25/24 20:35	
Acetone	5.0 U	5.0	1	09/25/24 20:35	
Benzene	1.0 U	1.0	1	09/25/24 20:35	
Bromochloromethane	1.0 U	1.0	1	09/25/24 20:35	
Bromodichloromethane	1.0 U	1.0	1	09/25/24 20:35	
Bromoform	1.0 U	1.0	1	09/25/24 20:35	
Bromomethane	1.0 U	1.0	1	09/25/24 20:35	
Carbon Disulfide	1.0 U	1.0	1	09/25/24 20:35	
Carbon Tetrachloride	1.0 U	1.0	1	09/25/24 20:35	
Chlorobenzene	1.0 U	1.0	1	09/25/24 20:35	
Chloroethane	1.0 U	1.0	1	09/25/24 20:35	
Chloroform	1.0 U	1.0	1	09/25/24 20:35	
Chloromethane	1.0 U	1.0	1	09/25/24 20:35	
Cyclohexane	1.0 U	1.0	1	09/25/24 20:35	
Dibromochloromethane	1.0 U	1.0	1	09/25/24 20:35	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/25/24 20:35	
Dichloromethane	1.0 U	1.0	1	09/25/24 20:35	
Ethylbenzene	1.0 U	1.0	1	09/25/24 20:35	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/25/24 20:35	
Methyl Acetate	2.0 U	2.0	1	09/25/24 20:35	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/25/24 20:35	
Methylcyclohexane	1.0 U	1.0	1	09/25/24 20:35	
Styrene	1.0 U	1.0	1	09/25/24 20:35	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/25/24 20:35	
Toluene	1.0 U	1.0	1	09/25/24 20:35	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-10
Lab Code: R2409305-010

Service Request: R2409305
Date Collected: 09/19/24 17:07
Date Received: 09/20/24 14:37

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	09/25/24 20:35	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/25/24 20:35	
Vinyl Chloride	1.0 U	1.0	1	09/25/24 20:35	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/25/24 20:35	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 20:35	
m,p-Xylenes	2.0 U	2.0	1	09/25/24 20:35	
o-Xylene	1.0 U	1.0	1	09/25/24 20:35	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/25/24 20:35	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 20:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	09/25/24 20:35	
Dibromofluoromethane	98	80 - 116	09/25/24 20:35	
Toluene-d8	101	87 - 121	09/25/24 20:35	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/19/24 16:05
Date Received: 09/20/24 14:37

Sample Name: MW-11
Lab Code: R2409305-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/25/24 20:58	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/25/24 20:58	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/25/24 20:58	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/25/24 20:58	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/25/24 20:58	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/25/24 20:58	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/25/24 20:58	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/25/24 20:58	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/25/24 20:58	
1,2-Dibromoethane	1.0 U	1.0	1	09/25/24 20:58	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/25/24 20:58	
1,2-Dichloroethane	1.0 U	1.0	1	09/25/24 20:58	
1,2-Dichloropropane	1.0 U	1.0	1	09/25/24 20:58	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/25/24 20:58	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/25/24 20:58	
1,4-Dioxane	40 U	40	1	09/25/24 20:58	
2-Butanone (MEK)	5.0 U	5.0	1	09/25/24 20:58	
2-Hexanone	5.0 U	5.0	1	09/25/24 20:58	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/25/24 20:58	
Acetone	5.0 U	5.0	1	09/25/24 20:58	
Benzene	1.0 U	1.0	1	09/25/24 20:58	
Bromochloromethane	1.0 U	1.0	1	09/25/24 20:58	
Bromodichloromethane	1.0 U	1.0	1	09/25/24 20:58	
Bromoform	1.0 U	1.0	1	09/25/24 20:58	
Bromomethane	1.0 U	1.0	1	09/25/24 20:58	
Carbon Disulfide	1.0 U	1.0	1	09/25/24 20:58	
Carbon Tetrachloride	1.0 U	1.0	1	09/25/24 20:58	
Chlorobenzene	1.0 U	1.0	1	09/25/24 20:58	
Chloroethane	1.0 U	1.0	1	09/25/24 20:58	
Chloroform	1.0 U	1.0	1	09/25/24 20:58	
Chloromethane	1.0 U	1.0	1	09/25/24 20:58	
Cyclohexane	1.0 U	1.0	1	09/25/24 20:58	
Dibromochloromethane	1.0 U	1.0	1	09/25/24 20:58	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/25/24 20:58	
Dichloromethane	1.0 U	1.0	1	09/25/24 20:58	
Ethylbenzene	1.0 U	1.0	1	09/25/24 20:58	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/25/24 20:58	
Methyl Acetate	2.0 U	2.0	1	09/25/24 20:58	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/25/24 20:58	
Methylcyclohexane	1.0 U	1.0	1	09/25/24 20:58	
Styrene	1.0 U	1.0	1	09/25/24 20:58	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/25/24 20:58	
Toluene	1.0 U	1.0	1	09/25/24 20:58	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-11
Lab Code: R2409305-011

Service Request: R2409305
Date Collected: 09/19/24 16:05
Date Received: 09/20/24 14:37

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	230 E	1.0	1	09/25/24 20:58	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/25/24 20:58	
Vinyl Chloride	1.0 U	1.0	1	09/25/24 20:58	
cis-1,2-Dichloroethene	100	1.0	1	09/25/24 20:58	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 20:58	
m,p-Xylenes	2.0 U	2.0	1	09/25/24 20:58	
o-Xylene	1.0 U	1.0	1	09/25/24 20:58	
trans-1,2-Dichloroethene	7.1	1.0	1	09/25/24 20:58	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 20:58	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	09/25/24 20:58	
Dibromofluoromethane	96	80 - 116	09/25/24 20:58	
Toluene-d8	98	87 - 121	09/25/24 20:58	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/19/24 16:05
Date Received: 09/20/24 14:37

Sample Name: MW-11
Lab Code: R2409305-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	2.5 U	2.5	2.5	09/26/24 14:16	
1,1,2,2-Tetrachloroethane	2.5 U	2.5	2.5	09/26/24 14:16	
1,1,2-Trichloroethane	2.5 U	2.5	2.5	09/26/24 14:16	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.5 U	2.5	2.5	09/26/24 14:16	
1,1-Dichloroethane (1,1-DCA)	2.5 U	2.5	2.5	09/26/24 14:16	
1,1-Dichloroethene (1,1-DCE)	2.5 U	2.5	2.5	09/26/24 14:16	
1,2,3-Trichlorobenzene	2.5 U	2.5	2.5	09/26/24 14:16	
1,2,4-Trichlorobenzene	2.5 U	2.5	2.5	09/26/24 14:16	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	2.5	09/26/24 14:16	
1,2-Dibromoethane	2.5 U	2.5	2.5	09/26/24 14:16	
1,2-Dichlorobenzene	2.5 U	2.5	2.5	09/26/24 14:16	
1,2-Dichloroethane	2.5 U	2.5	2.5	09/26/24 14:16	
1,2-Dichloropropane	2.5 U	2.5	2.5	09/26/24 14:16	
1,3-Dichlorobenzene	2.5 U	2.5	2.5	09/26/24 14:16	
1,4-Dichlorobenzene	2.5 U	2.5	2.5	09/26/24 14:16	
1,4-Dioxane	100 U	100	2.5	09/26/24 14:16	
2-Butanone (MEK)	13 U	13	2.5	09/26/24 14:16	
2-Hexanone	13 U	13	2.5	09/26/24 14:16	
4-Methyl-2-pentanone	13 U	13	2.5	09/26/24 14:16	
Acetone	13 U	13	2.5	09/26/24 14:16	
Benzene	2.5 U	2.5	2.5	09/26/24 14:16	
Bromochloromethane	2.5 U	2.5	2.5	09/26/24 14:16	
Bromodichloromethane	2.5 U	2.5	2.5	09/26/24 14:16	
Bromoform	2.5 U	2.5	2.5	09/26/24 14:16	
Bromomethane	2.5 U	2.5	2.5	09/26/24 14:16	
Carbon Disulfide	2.5 U	2.5	2.5	09/26/24 14:16	
Carbon Tetrachloride	2.5 U	2.5	2.5	09/26/24 14:16	
Chlorobenzene	2.5 U	2.5	2.5	09/26/24 14:16	
Chloroethane	2.5 U	2.5	2.5	09/26/24 14:16	
Chloroform	2.5 U	2.5	2.5	09/26/24 14:16	
Chloromethane	2.5 U	2.5	2.5	09/26/24 14:16	
Cyclohexane	2.5 U	2.5	2.5	09/26/24 14:16	
Dibromochloromethane	2.5 U	2.5	2.5	09/26/24 14:16	
Dichlorodifluoromethane (CFC 12)	2.5 U	2.5	2.5	09/26/24 14:16	
Dichloromethane	2.5 U	2.5	2.5	09/26/24 14:16	
Ethylbenzene	2.5 U	2.5	2.5	09/26/24 14:16	
Isopropylbenzene (Cumene)	2.5 U	2.5	2.5	09/26/24 14:16	
Methyl Acetate	5.0 U	5.0	2.5	09/26/24 14:16	
Methyl tert-Butyl Ether	2.5 U	2.5	2.5	09/26/24 14:16	
Methylcyclohexane	2.5 U	2.5	2.5	09/26/24 14:16	
Styrene	2.5 U	2.5	2.5	09/26/24 14:16	
Tetrachloroethene (PCE)	2.5 U	2.5	2.5	09/26/24 14:16	
Toluene	2.5 U	2.5	2.5	09/26/24 14:16	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-11
Lab Code: R2409305-011

Service Request: R2409305
Date Collected: 09/19/24 16:05
Date Received: 09/20/24 14:37

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	190 D	2.5	2.5	09/26/24 14:16	
Trichlorofluoromethane (CFC 11)	2.5 U	2.5	2.5	09/26/24 14:16	
Vinyl Chloride	2.5 U	2.5	2.5	09/26/24 14:16	
cis-1,2-Dichloroethene	90 D	2.5	2.5	09/26/24 14:16	
cis-1,3-Dichloropropene	2.5 U	2.5	2.5	09/26/24 14:16	
m,p-Xylenes	5.0 U	5.0	2.5	09/26/24 14:16	
o-Xylene	2.5 U	2.5	2.5	09/26/24 14:16	
trans-1,2-Dichloroethene	5.7 D	2.5	2.5	09/26/24 14:16	
trans-1,3-Dichloropropene	2.5 U	2.5	2.5	09/26/24 14:16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/26/24 14:16	
Dibromofluoromethane	99	80 - 116	09/26/24 14:16	
Toluene-d8	102	87 - 121	09/26/24 14:16	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/19/24 15:10
Date Received: 09/20/24 14:37

Sample Name: MW-12
Lab Code: R2409305-012

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/25/24 21:21	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/25/24 21:21	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/25/24 21:21	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/25/24 21:21	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/25/24 21:21	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/25/24 21:21	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/25/24 21:21	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/25/24 21:21	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/25/24 21:21	
1,2-Dibromoethane	1.0 U	1.0	1	09/25/24 21:21	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/25/24 21:21	
1,2-Dichloroethane	1.0 U	1.0	1	09/25/24 21:21	
1,2-Dichloropropane	1.0 U	1.0	1	09/25/24 21:21	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/25/24 21:21	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/25/24 21:21	
1,4-Dioxane	40 U	40	1	09/25/24 21:21	
2-Butanone (MEK)	5.0 U	5.0	1	09/25/24 21:21	
2-Hexanone	5.0 U	5.0	1	09/25/24 21:21	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/25/24 21:21	
Acetone	5.0 U	5.0	1	09/25/24 21:21	
Benzene	1.0 U	1.0	1	09/25/24 21:21	
Bromochloromethane	1.0 U	1.0	1	09/25/24 21:21	
Bromodichloromethane	1.0 U	1.0	1	09/25/24 21:21	
Bromoform	1.0 U	1.0	1	09/25/24 21:21	
Bromomethane	1.0 U	1.0	1	09/25/24 21:21	
Carbon Disulfide	1.0 U	1.0	1	09/25/24 21:21	
Carbon Tetrachloride	1.0 U	1.0	1	09/25/24 21:21	
Chlorobenzene	1.0 U	1.0	1	09/25/24 21:21	
Chloroethane	1.0 U	1.0	1	09/25/24 21:21	
Chloroform	1.0 U	1.0	1	09/25/24 21:21	
Chloromethane	1.0 U	1.0	1	09/25/24 21:21	
Cyclohexane	1.0 U	1.0	1	09/25/24 21:21	
Dibromochloromethane	1.0 U	1.0	1	09/25/24 21:21	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/25/24 21:21	
Dichloromethane	1.0 U	1.0	1	09/25/24 21:21	
Ethylbenzene	1.0 U	1.0	1	09/25/24 21:21	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/25/24 21:21	
Methyl Acetate	2.0 U	2.0	1	09/25/24 21:21	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/25/24 21:21	
Methylcyclohexane	1.0 U	1.0	1	09/25/24 21:21	
Styrene	1.0 U	1.0	1	09/25/24 21:21	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/25/24 21:21	
Toluene	1.0 U	1.0	1	09/25/24 21:21	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-12
Lab Code: R2409305-012

Service Request: R2409305
Date Collected: 09/19/24 15:10
Date Received: 09/20/24 14:37

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	13	1.0	1	09/25/24 21:21	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/25/24 21:21	
Vinyl Chloride	1.0 U	1.0	1	09/25/24 21:21	
cis-1,2-Dichloroethene	31	1.0	1	09/25/24 21:21	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 21:21	
m,p-Xylenes	2.0 U	2.0	1	09/25/24 21:21	
o-Xylene	1.0 U	1.0	1	09/25/24 21:21	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/25/24 21:21	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 21:21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	09/25/24 21:21	
Dibromofluoromethane	97	80 - 116	09/25/24 21:21	
Toluene-d8	98	87 - 121	09/25/24 21:21	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/19/24 15:25
Date Received: 09/20/24 14:37

Sample Name: MW-13
Lab Code: R2409305-013

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/25/24 21:44	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/25/24 21:44	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/25/24 21:44	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/25/24 21:44	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/25/24 21:44	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/25/24 21:44	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/25/24 21:44	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/25/24 21:44	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/25/24 21:44	
1,2-Dibromoethane	1.0 U	1.0	1	09/25/24 21:44	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/25/24 21:44	
1,2-Dichloroethane	1.0 U	1.0	1	09/25/24 21:44	
1,2-Dichloropropane	1.0 U	1.0	1	09/25/24 21:44	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/25/24 21:44	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/25/24 21:44	
1,4-Dioxane	40 U	40	1	09/25/24 21:44	
2-Butanone (MEK)	5.0 U	5.0	1	09/25/24 21:44	
2-Hexanone	5.0 U	5.0	1	09/25/24 21:44	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/25/24 21:44	
Acetone	5.0 U	5.0	1	09/25/24 21:44	
Benzene	1.0 U	1.0	1	09/25/24 21:44	
Bromochloromethane	1.0 U	1.0	1	09/25/24 21:44	
Bromodichloromethane	1.0 U	1.0	1	09/25/24 21:44	
Bromoform	1.0 U	1.0	1	09/25/24 21:44	
Bromomethane	1.0 U	1.0	1	09/25/24 21:44	
Carbon Disulfide	1.0 U	1.0	1	09/25/24 21:44	
Carbon Tetrachloride	1.0 U	1.0	1	09/25/24 21:44	
Chlorobenzene	1.0 U	1.0	1	09/25/24 21:44	
Chloroethane	1.0 U	1.0	1	09/25/24 21:44	
Chloroform	1.0 U	1.0	1	09/25/24 21:44	
Chloromethane	1.0 U	1.0	1	09/25/24 21:44	
Cyclohexane	1.0 U	1.0	1	09/25/24 21:44	
Dibromochloromethane	1.0 U	1.0	1	09/25/24 21:44	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/25/24 21:44	
Dichloromethane	1.0 U	1.0	1	09/25/24 21:44	
Ethylbenzene	1.0 U	1.0	1	09/25/24 21:44	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/25/24 21:44	
Methyl Acetate	2.0 U	2.0	1	09/25/24 21:44	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/25/24 21:44	
Methylcyclohexane	1.0 U	1.0	1	09/25/24 21:44	
Styrene	1.0 U	1.0	1	09/25/24 21:44	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/25/24 21:44	
Toluene	1.0 U	1.0	1	09/25/24 21:44	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-13
Lab Code: R2409305-013

Service Request: R2409305
Date Collected: 09/19/24 15:25
Date Received: 09/20/24 14:37

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	09/25/24 21:44	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/25/24 21:44	
Vinyl Chloride	1.0 U	1.0	1	09/25/24 21:44	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/25/24 21:44	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 21:44	
m,p-Xylenes	2.0 U	2.0	1	09/25/24 21:44	
o-Xylene	1.0 U	1.0	1	09/25/24 21:44	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/25/24 21:44	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 21:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	09/25/24 21:44	
Dibromofluoromethane	97	80 - 116	09/25/24 21:44	
Toluene-d8	100	87 - 121	09/25/24 21:44	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/19/24 13:46
Date Received: 09/20/24 14:37

Sample Name: MW-14
Lab Code: R2409305-014

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/25/24 22:07	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/25/24 22:07	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/25/24 22:07	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/25/24 22:07	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/25/24 22:07	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/25/24 22:07	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/25/24 22:07	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/25/24 22:07	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/25/24 22:07	
1,2-Dibromoethane	1.0 U	1.0	1	09/25/24 22:07	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/25/24 22:07	
1,2-Dichloroethane	1.0 U	1.0	1	09/25/24 22:07	
1,2-Dichloropropane	1.0 U	1.0	1	09/25/24 22:07	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/25/24 22:07	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/25/24 22:07	
1,4-Dioxane	40 U	40	1	09/25/24 22:07	
2-Butanone (MEK)	5.0 U	5.0	1	09/25/24 22:07	
2-Hexanone	5.0 U	5.0	1	09/25/24 22:07	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/25/24 22:07	
Acetone	5.0 U	5.0	1	09/25/24 22:07	
Benzene	1.0 U	1.0	1	09/25/24 22:07	
Bromochloromethane	1.0 U	1.0	1	09/25/24 22:07	
Bromodichloromethane	1.0 U	1.0	1	09/25/24 22:07	
Bromoform	1.0 U	1.0	1	09/25/24 22:07	
Bromomethane	1.0 U	1.0	1	09/25/24 22:07	
Carbon Disulfide	1.0 U	1.0	1	09/25/24 22:07	
Carbon Tetrachloride	1.0 U	1.0	1	09/25/24 22:07	
Chlorobenzene	1.0 U	1.0	1	09/25/24 22:07	
Chloroethane	1.0 U	1.0	1	09/25/24 22:07	
Chloroform	1.0 U	1.0	1	09/25/24 22:07	
Chloromethane	1.0 U	1.0	1	09/25/24 22:07	
Cyclohexane	1.0 U	1.0	1	09/25/24 22:07	
Dibromochloromethane	1.0 U	1.0	1	09/25/24 22:07	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/25/24 22:07	
Dichloromethane	1.0 U	1.0	1	09/25/24 22:07	
Ethylbenzene	1.0 U	1.0	1	09/25/24 22:07	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/25/24 22:07	
Methyl Acetate	2.0 U	2.0	1	09/25/24 22:07	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/25/24 22:07	
Methylcyclohexane	1.0 U	1.0	1	09/25/24 22:07	
Styrene	1.0 U	1.0	1	09/25/24 22:07	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/25/24 22:07	
Toluene	1.0 U	1.0	1	09/25/24 22:07	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water
Sample Name: MW-14
Lab Code: R2409305-014

Service Request: R2409305
Date Collected: 09/19/24 13:46
Date Received: 09/20/24 14:37
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	11	1.0	1	09/25/24 22:07	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/25/24 22:07	
Vinyl Chloride	1.1	1.0	1	09/25/24 22:07	
cis-1,2-Dichloroethene	17	1.0	1	09/25/24 22:07	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 22:07	
m,p-Xylenes	2.0 U	2.0	1	09/25/24 22:07	
o-Xylene	1.0 U	1.0	1	09/25/24 22:07	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/25/24 22:07	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 22:07	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	09/25/24 22:07	
Dibromofluoromethane	100	80 - 116	09/25/24 22:07	
Toluene-d8	101	87 - 121	09/25/24 22:07	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/19/24 13:00
Date Received: 09/20/24 14:37

Sample Name: MW-15
Lab Code: R2409305-015

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/25/24 22:30	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/25/24 22:30	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/25/24 22:30	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/25/24 22:30	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/25/24 22:30	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/25/24 22:30	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/25/24 22:30	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/25/24 22:30	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/25/24 22:30	
1,2-Dibromoethane	1.0 U	1.0	1	09/25/24 22:30	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/25/24 22:30	
1,2-Dichloroethane	1.0 U	1.0	1	09/25/24 22:30	
1,2-Dichloropropane	1.0 U	1.0	1	09/25/24 22:30	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/25/24 22:30	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/25/24 22:30	
1,4-Dioxane	40 U	40	1	09/25/24 22:30	
2-Butanone (MEK)	5.0 U	5.0	1	09/25/24 22:30	
2-Hexanone	5.0 U	5.0	1	09/25/24 22:30	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/25/24 22:30	
Acetone	5.0 U	5.0	1	09/25/24 22:30	
Benzene	1.0 U	1.0	1	09/25/24 22:30	
Bromochloromethane	1.0 U	1.0	1	09/25/24 22:30	
Bromodichloromethane	1.0 U	1.0	1	09/25/24 22:30	
Bromoform	1.0 U	1.0	1	09/25/24 22:30	
Bromomethane	1.0 U	1.0	1	09/25/24 22:30	
Carbon Disulfide	1.0 U	1.0	1	09/25/24 22:30	
Carbon Tetrachloride	1.0 U	1.0	1	09/25/24 22:30	
Chlorobenzene	1.0 U	1.0	1	09/25/24 22:30	
Chloroethane	1.0 U	1.0	1	09/25/24 22:30	
Chloroform	1.0 U	1.0	1	09/25/24 22:30	
Chloromethane	1.0 U	1.0	1	09/25/24 22:30	
Cyclohexane	1.0 U	1.0	1	09/25/24 22:30	
Dibromochloromethane	1.0 U	1.0	1	09/25/24 22:30	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/25/24 22:30	
Dichloromethane	1.0 U	1.0	1	09/25/24 22:30	
Ethylbenzene	1.0 U	1.0	1	09/25/24 22:30	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/25/24 22:30	
Methyl Acetate	2.0 U	2.0	1	09/25/24 22:30	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/25/24 22:30	
Methylcyclohexane	1.0 U	1.0	1	09/25/24 22:30	
Styrene	1.0 U	1.0	1	09/25/24 22:30	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/25/24 22:30	
Toluene	1.0 U	1.0	1	09/25/24 22:30	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-15
Lab Code: R2409305-015

Service Request: R2409305
Date Collected: 09/19/24 13:00
Date Received: 09/20/24 14:37

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	3.1	1.0	1	09/25/24 22:30	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/25/24 22:30	
Vinyl Chloride	1.0 U	1.0	1	09/25/24 22:30	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/25/24 22:30	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 22:30	
m,p-Xylenes	2.0 U	2.0	1	09/25/24 22:30	
o-Xylene	1.0 U	1.0	1	09/25/24 22:30	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/25/24 22:30	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 22:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	09/25/24 22:30	
Dibromofluoromethane	96	80 - 116	09/25/24 22:30	
Toluene-d8	99	87 - 121	09/25/24 22:30	

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dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/20/24 09:59
Date Received: 09/20/24 14:37

Sample Name: MW-17
Lab Code: R2409305-016

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/25/24 22:53	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/25/24 22:53	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/25/24 22:53	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/25/24 22:53	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/25/24 22:53	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/25/24 22:53	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/25/24 22:53	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/25/24 22:53	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/25/24 22:53	
1,2-Dibromoethane	1.0 U	1.0	1	09/25/24 22:53	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/25/24 22:53	
1,2-Dichloroethane	1.0 U	1.0	1	09/25/24 22:53	
1,2-Dichloropropane	1.0 U	1.0	1	09/25/24 22:53	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/25/24 22:53	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/25/24 22:53	
1,4-Dioxane	40 U	40	1	09/25/24 22:53	
2-Butanone (MEK)	5.0 U	5.0	1	09/25/24 22:53	
2-Hexanone	5.0 U	5.0	1	09/25/24 22:53	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/25/24 22:53	
Acetone	5.0 U	5.0	1	09/25/24 22:53	
Benzene	1.0 U	1.0	1	09/25/24 22:53	
Bromochloromethane	1.0 U	1.0	1	09/25/24 22:53	
Bromodichloromethane	1.0 U	1.0	1	09/25/24 22:53	
Bromoform	1.0 U	1.0	1	09/25/24 22:53	
Bromomethane	1.0 U	1.0	1	09/25/24 22:53	
Carbon Disulfide	1.0 U	1.0	1	09/25/24 22:53	
Carbon Tetrachloride	1.0 U	1.0	1	09/25/24 22:53	
Chlorobenzene	1.0 U	1.0	1	09/25/24 22:53	
Chloroethane	1.0 U	1.0	1	09/25/24 22:53	
Chloroform	1.0 U	1.0	1	09/25/24 22:53	
Chloromethane	1.0 U	1.0	1	09/25/24 22:53	
Cyclohexane	1.0 U	1.0	1	09/25/24 22:53	
Dibromochloromethane	1.0 U	1.0	1	09/25/24 22:53	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/25/24 22:53	
Dichloromethane	1.0 U	1.0	1	09/25/24 22:53	
Ethylbenzene	1.0 U	1.0	1	09/25/24 22:53	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/25/24 22:53	
Methyl Acetate	2.0 U	2.0	1	09/25/24 22:53	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/25/24 22:53	
Methylcyclohexane	1.0 U	1.0	1	09/25/24 22:53	
Styrene	1.0 U	1.0	1	09/25/24 22:53	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/25/24 22:53	
Toluene	1.0 U	1.0	1	09/25/24 22:53	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-17
Lab Code: R2409305-016

Service Request: R2409305
Date Collected: 09/20/24 09:59
Date Received: 09/20/24 14:37

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	8.1	1.0	1	09/25/24 22:53	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/25/24 22:53	
Vinyl Chloride	1.0 U	1.0	1	09/25/24 22:53	
cis-1,2-Dichloroethene	210 E	1.0	1	09/25/24 22:53	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 22:53	
m,p-Xylenes	2.0 U	2.0	1	09/25/24 22:53	
o-Xylene	1.0 U	1.0	1	09/25/24 22:53	
trans-1,2-Dichloroethene	1.1	1.0	1	09/25/24 22:53	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 22:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	09/25/24 22:53	
Dibromofluoromethane	97	80 - 116	09/25/24 22:53	
Toluene-d8	98	87 - 121	09/25/24 22:53	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/20/24 09:59
Date Received: 09/20/24 14:37

Sample Name: MW-17
Lab Code: R2409305-016

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	2.5 U	2.5	2.5	09/26/24 14:40	
1,1,2,2-Tetrachloroethane	2.5 U	2.5	2.5	09/26/24 14:40	
1,1,2-Trichloroethane	2.5 U	2.5	2.5	09/26/24 14:40	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.5 U	2.5	2.5	09/26/24 14:40	
1,1-Dichloroethane (1,1-DCA)	2.5 U	2.5	2.5	09/26/24 14:40	
1,1-Dichloroethene (1,1-DCE)	2.5 U	2.5	2.5	09/26/24 14:40	
1,2,3-Trichlorobenzene	2.5 U	2.5	2.5	09/26/24 14:40	
1,2,4-Trichlorobenzene	2.5 U	2.5	2.5	09/26/24 14:40	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	2.5	09/26/24 14:40	
1,2-Dibromoethane	2.5 U	2.5	2.5	09/26/24 14:40	
1,2-Dichlorobenzene	2.5 U	2.5	2.5	09/26/24 14:40	
1,2-Dichloroethane	2.5 U	2.5	2.5	09/26/24 14:40	
1,2-Dichloropropane	2.5 U	2.5	2.5	09/26/24 14:40	
1,3-Dichlorobenzene	2.5 U	2.5	2.5	09/26/24 14:40	
1,4-Dichlorobenzene	2.5 U	2.5	2.5	09/26/24 14:40	
1,4-Dioxane	100 U	100	2.5	09/26/24 14:40	
2-Butanone (MEK)	13 U	13	2.5	09/26/24 14:40	
2-Hexanone	13 U	13	2.5	09/26/24 14:40	
4-Methyl-2-pentanone	13 U	13	2.5	09/26/24 14:40	
Acetone	13 U	13	2.5	09/26/24 14:40	
Benzene	2.5 U	2.5	2.5	09/26/24 14:40	
Bromochloromethane	2.5 U	2.5	2.5	09/26/24 14:40	
Bromodichloromethane	2.5 U	2.5	2.5	09/26/24 14:40	
Bromoform	2.5 U	2.5	2.5	09/26/24 14:40	
Bromomethane	2.5 U	2.5	2.5	09/26/24 14:40	
Carbon Disulfide	2.5 U	2.5	2.5	09/26/24 14:40	
Carbon Tetrachloride	2.5 U	2.5	2.5	09/26/24 14:40	
Chlorobenzene	2.5 U	2.5	2.5	09/26/24 14:40	
Chloroethane	2.5 U	2.5	2.5	09/26/24 14:40	
Chloroform	2.5 U	2.5	2.5	09/26/24 14:40	
Chloromethane	2.5 U	2.5	2.5	09/26/24 14:40	
Cyclohexane	2.5 U	2.5	2.5	09/26/24 14:40	
Dibromochloromethane	2.5 U	2.5	2.5	09/26/24 14:40	
Dichlorodifluoromethane (CFC 12)	2.5 U	2.5	2.5	09/26/24 14:40	
Dichloromethane	2.5 U	2.5	2.5	09/26/24 14:40	
Ethylbenzene	2.5 U	2.5	2.5	09/26/24 14:40	
Isopropylbenzene (Cumene)	2.5 U	2.5	2.5	09/26/24 14:40	
Methyl Acetate	5.0 U	5.0	2.5	09/26/24 14:40	
Methyl tert-Butyl Ether	2.5 U	2.5	2.5	09/26/24 14:40	
Methylcyclohexane	2.5 U	2.5	2.5	09/26/24 14:40	
Styrene	2.5 U	2.5	2.5	09/26/24 14:40	
Tetrachloroethene (PCE)	2.5 U	2.5	2.5	09/26/24 14:40	
Toluene	2.5 U	2.5	2.5	09/26/24 14:40	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-17
Lab Code: R2409305-016

Service Request: R2409305
Date Collected: 09/20/24 09:59
Date Received: 09/20/24 14:37

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	7.6 D	2.5	2.5	09/26/24 14:40	
Trichlorofluoromethane (CFC 11)	2.5 U	2.5	2.5	09/26/24 14:40	
Vinyl Chloride	2.5 U	2.5	2.5	09/26/24 14:40	
cis-1,2-Dichloroethene	190 D	2.5	2.5	09/26/24 14:40	
cis-1,3-Dichloropropene	2.5 U	2.5	2.5	09/26/24 14:40	
m,p-Xylenes	5.0 U	5.0	2.5	09/26/24 14:40	
o-Xylene	2.5 U	2.5	2.5	09/26/24 14:40	
trans-1,2-Dichloroethene	2.5 U	2.5	2.5	09/26/24 14:40	
trans-1,3-Dichloropropene	2.5 U	2.5	2.5	09/26/24 14:40	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	09/26/24 14:40	
Dibromofluoromethane	102	80 - 116	09/26/24 14:40	
Toluene-d8	101	87 - 121	09/26/24 14:40	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/20/24 07:55
Date Received: 09/20/24 14:37

Sample Name: MW-18
Lab Code: R2409305-017

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/27/24 16:09	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/27/24 16:09	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/27/24 16:09	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/27/24 16:09	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/27/24 16:09	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/27/24 16:09	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/27/24 16:09	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/27/24 16:09	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/27/24 16:09	
1,2-Dibromoethane	1.0 U	1.0	1	09/27/24 16:09	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/27/24 16:09	
1,2-Dichloroethane	1.0 U	1.0	1	09/27/24 16:09	
1,2-Dichloropropane	1.0 U	1.0	1	09/27/24 16:09	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/27/24 16:09	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/27/24 16:09	
1,4-Dioxane	40 U	40	1	09/27/24 16:09	
2-Butanone (MEK)	5.0 U	5.0	1	09/27/24 16:09	
2-Hexanone	5.0 U	5.0	1	09/27/24 16:09	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/27/24 16:09	
Acetone	5.0 U	5.0	1	09/27/24 16:09	
Benzene	1.0 U	1.0	1	09/27/24 16:09	
Bromochloromethane	1.0 U	1.0	1	09/27/24 16:09	
Bromodichloromethane	1.0 U	1.0	1	09/27/24 16:09	
Bromoform	1.0 U	1.0	1	09/27/24 16:09	
Bromomethane	1.0 U	1.0	1	09/27/24 16:09	
Carbon Disulfide	1.0 U	1.0	1	09/27/24 16:09	
Carbon Tetrachloride	1.0 U	1.0	1	09/27/24 16:09	
Chlorobenzene	1.0 U	1.0	1	09/27/24 16:09	
Chloroethane	1.0 U	1.0	1	09/27/24 16:09	
Chloroform	1.0 U	1.0	1	09/27/24 16:09	
Chloromethane	1.0 U	1.0	1	09/27/24 16:09	
Cyclohexane	1.0 U	1.0	1	09/27/24 16:09	
Dibromochloromethane	1.0 U	1.0	1	09/27/24 16:09	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/27/24 16:09	
Dichloromethane	1.0 U	1.0	1	09/27/24 16:09	
Ethylbenzene	1.0 U	1.0	1	09/27/24 16:09	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/27/24 16:09	
Methyl Acetate	2.0 U	2.0	1	09/27/24 16:09	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/27/24 16:09	
Methylcyclohexane	1.0 U	1.0	1	09/27/24 16:09	
Styrene	1.0 U	1.0	1	09/27/24 16:09	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/27/24 16:09	
Toluene	1.0 U	1.0	1	09/27/24 16:09	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-18
Lab Code: R2409305-017

Service Request: R2409305
Date Collected: 09/20/24 07:55
Date Received: 09/20/24 14:37

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	09/27/24 16:09	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/27/24 16:09	
Vinyl Chloride	1.0	1.0	1	09/27/24 16:09	
cis-1,2-Dichloroethene	15	1.0	1	09/27/24 16:09	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/27/24 16:09	
m,p-Xylenes	2.0 U	2.0	1	09/27/24 16:09	
o-Xylene	1.0 U	1.0	1	09/27/24 16:09	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/27/24 16:09	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/27/24 16:09	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	09/27/24 16:09	
Dibromofluoromethane	100	80 - 116	09/27/24 16:09	
Toluene-d8	100	87 - 121	09/27/24 16:09	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/20/24 07:05
Date Received: 09/20/24 14:37

Sample Name: MW-19R
Lab Code: R2409305-018

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/26/24 15:49	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/26/24 15:49	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/26/24 15:49	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/26/24 15:49	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/26/24 15:49	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/26/24 15:49	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/26/24 15:49	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/26/24 15:49	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/26/24 15:49	
1,2-Dibromoethane	1.0 U	1.0	1	09/26/24 15:49	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/26/24 15:49	
1,2-Dichloroethane	1.0 U	1.0	1	09/26/24 15:49	
1,2-Dichloropropane	1.0 U	1.0	1	09/26/24 15:49	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/26/24 15:49	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/26/24 15:49	
1,4-Dioxane	40 U	40	1	09/26/24 15:49	
2-Butanone (MEK)	5.0 U	5.0	1	09/26/24 15:49	
2-Hexanone	5.0 U	5.0	1	09/26/24 15:49	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/26/24 15:49	
Acetone	5.0 U	5.0	1	09/26/24 15:49	
Benzene	1.0 U	1.0	1	09/26/24 15:49	
Bromochloromethane	1.0 U	1.0	1	09/26/24 15:49	
Bromodichloromethane	1.0 U	1.0	1	09/26/24 15:49	
Bromoform	1.0 U	1.0	1	09/26/24 15:49	
Bromomethane	1.0 U	1.0	1	09/26/24 15:49	
Carbon Disulfide	1.0 U	1.0	1	09/26/24 15:49	
Carbon Tetrachloride	1.0 U	1.0	1	09/26/24 15:49	
Chlorobenzene	1.0 U	1.0	1	09/26/24 15:49	
Chloroethane	1.0 U	1.0	1	09/26/24 15:49	
Chloroform	1.0 U	1.0	1	09/26/24 15:49	
Chloromethane	1.0 U	1.0	1	09/26/24 15:49	
Cyclohexane	1.0 U	1.0	1	09/26/24 15:49	
Dibromochloromethane	1.0 U	1.0	1	09/26/24 15:49	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/26/24 15:49	
Dichloromethane	1.0 U	1.0	1	09/26/24 15:49	
Ethylbenzene	1.0 U	1.0	1	09/26/24 15:49	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/26/24 15:49	
Methyl Acetate	2.0 U	2.0	1	09/26/24 15:49	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/26/24 15:49	
Methylcyclohexane	1.0 U	1.0	1	09/26/24 15:49	
Styrene	1.0 U	1.0	1	09/26/24 15:49	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/26/24 15:49	
Toluene	1.0 U	1.0	1	09/26/24 15:49	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-19R
Lab Code: R2409305-018

Service Request: R2409305
Date Collected: 09/20/24 07:05
Date Received: 09/20/24 14:37

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	09/26/24 15:49	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/26/24 15:49	
Vinyl Chloride	1.0 U	1.0	1	09/26/24 15:49	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/26/24 15:49	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 15:49	
m,p-Xylenes	2.0 U	2.0	1	09/26/24 15:49	
o-Xylene	1.0 U	1.0	1	09/26/24 15:49	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/26/24 15:49	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 15:49	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	09/26/24 15:49	
Dibromofluoromethane	96	80 - 116	09/26/24 15:49	
Toluene-d8	100	87 - 121	09/26/24 15:49	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/20/24 10:59
Date Received: 09/20/24 14:37

Sample Name: MW-20
Lab Code: R2409305-019

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/26/24 16:12	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/26/24 16:12	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/26/24 16:12	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/26/24 16:12	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/26/24 16:12	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/26/24 16:12	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/26/24 16:12	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/26/24 16:12	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/26/24 16:12	
1,2-Dibromoethane	1.0 U	1.0	1	09/26/24 16:12	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/26/24 16:12	
1,2-Dichloroethane	1.0 U	1.0	1	09/26/24 16:12	
1,2-Dichloropropane	1.0 U	1.0	1	09/26/24 16:12	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/26/24 16:12	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/26/24 16:12	
1,4-Dioxane	40 U	40	1	09/26/24 16:12	
2-Butanone (MEK)	5.0 U	5.0	1	09/26/24 16:12	
2-Hexanone	5.0 U	5.0	1	09/26/24 16:12	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/26/24 16:12	
Acetone	5.0 U	5.0	1	09/26/24 16:12	
Benzene	1.0 U	1.0	1	09/26/24 16:12	
Bromochloromethane	1.0 U	1.0	1	09/26/24 16:12	
Bromodichloromethane	1.0 U	1.0	1	09/26/24 16:12	
Bromoform	1.0 U	1.0	1	09/26/24 16:12	
Bromomethane	1.0 U	1.0	1	09/26/24 16:12	
Carbon Disulfide	1.0 U	1.0	1	09/26/24 16:12	
Carbon Tetrachloride	1.0 U	1.0	1	09/26/24 16:12	
Chlorobenzene	1.0 U	1.0	1	09/26/24 16:12	
Chloroethane	1.0 U	1.0	1	09/26/24 16:12	
Chloroform	1.0 U	1.0	1	09/26/24 16:12	
Chloromethane	1.0 U	1.0	1	09/26/24 16:12	
Cyclohexane	1.0 U	1.0	1	09/26/24 16:12	
Dibromochloromethane	1.0 U	1.0	1	09/26/24 16:12	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/26/24 16:12	
Dichloromethane	1.0 U	1.0	1	09/26/24 16:12	
Ethylbenzene	1.0 U	1.0	1	09/26/24 16:12	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/26/24 16:12	
Methyl Acetate	2.0 U	2.0	1	09/26/24 16:12	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/26/24 16:12	
Methylcyclohexane	1.0 U	1.0	1	09/26/24 16:12	
Styrene	1.0 U	1.0	1	09/26/24 16:12	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/26/24 16:12	
Toluene	1.0 U	1.0	1	09/26/24 16:12	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-20
Lab Code: R2409305-019

Service Request: R2409305
Date Collected: 09/20/24 10:59
Date Received: 09/20/24 14:37

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	09/26/24 16:12	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/26/24 16:12	
Vinyl Chloride	1.0 U	1.0	1	09/26/24 16:12	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/26/24 16:12	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 16:12	
m,p-Xylenes	2.0 U	2.0	1	09/26/24 16:12	
o-Xylene	1.0 U	1.0	1	09/26/24 16:12	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/26/24 16:12	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 16:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	09/26/24 16:12	
Dibromofluoromethane	99	80 - 116	09/26/24 16:12	
Toluene-d8	100	87 - 121	09/26/24 16:12	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/20/24 06:40
Date Received: 09/20/24 14:37

Sample Name: MW-21
Lab Code: R2409305-020

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/26/24 16:35	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/26/24 16:35	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/26/24 16:35	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/26/24 16:35	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/26/24 16:35	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/26/24 16:35	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/26/24 16:35	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/26/24 16:35	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/26/24 16:35	
1,2-Dibromoethane	1.0 U	1.0	1	09/26/24 16:35	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/26/24 16:35	
1,2-Dichloroethane	1.0 U	1.0	1	09/26/24 16:35	
1,2-Dichloropropane	1.0 U	1.0	1	09/26/24 16:35	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/26/24 16:35	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/26/24 16:35	
1,4-Dioxane	40 U	40	1	09/26/24 16:35	
2-Butanone (MEK)	5.0 U	5.0	1	09/26/24 16:35	
2-Hexanone	5.0 U	5.0	1	09/26/24 16:35	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/26/24 16:35	
Acetone	5.0 U	5.0	1	09/26/24 16:35	
Benzene	1.0 U	1.0	1	09/26/24 16:35	
Bromochloromethane	1.0 U	1.0	1	09/26/24 16:35	
Bromodichloromethane	1.0 U	1.0	1	09/26/24 16:35	
Bromoform	1.0 U	1.0	1	09/26/24 16:35	
Bromomethane	1.0 U	1.0	1	09/26/24 16:35	
Carbon Disulfide	1.0 U	1.0	1	09/26/24 16:35	
Carbon Tetrachloride	1.0 U	1.0	1	09/26/24 16:35	
Chlorobenzene	1.0 U	1.0	1	09/26/24 16:35	
Chloroethane	1.0 U	1.0	1	09/26/24 16:35	
Chloroform	1.0 U	1.0	1	09/26/24 16:35	
Chloromethane	1.0 U	1.0	1	09/26/24 16:35	
Cyclohexane	1.0 U	1.0	1	09/26/24 16:35	
Dibromochloromethane	1.0 U	1.0	1	09/26/24 16:35	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/26/24 16:35	
Dichloromethane	1.0 U	1.0	1	09/26/24 16:35	
Ethylbenzene	1.0 U	1.0	1	09/26/24 16:35	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/26/24 16:35	
Methyl Acetate	2.0 U	2.0	1	09/26/24 16:35	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/26/24 16:35	
Methylcyclohexane	1.0 U	1.0	1	09/26/24 16:35	
Styrene	1.0 U	1.0	1	09/26/24 16:35	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/26/24 16:35	
Toluene	1.0 U	1.0	1	09/26/24 16:35	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-21
Lab Code: R2409305-020

Service Request: R2409305
Date Collected: 09/20/24 06:40
Date Received: 09/20/24 14:37

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.9	1.0	1	09/26/24 16:35	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/26/24 16:35	
Vinyl Chloride	1.0 U	1.0	1	09/26/24 16:35	
cis-1,2-Dichloroethene	26	1.0	1	09/26/24 16:35	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 16:35	
m,p-Xylenes	2.0 U	2.0	1	09/26/24 16:35	
o-Xylene	1.0 U	1.0	1	09/26/24 16:35	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/26/24 16:35	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 16:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	09/26/24 16:35	
Dibromofluoromethane	98	80 - 116	09/26/24 16:35	
Toluene-d8	100	87 - 121	09/26/24 16:35	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/19/24 15:50
Date Received: 09/20/24 14:37

Sample Name: DR-1
Lab Code: R2409305-021

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	2.5 U	2.5	2.5	09/26/24 15:03	
1,1,2,2-Tetrachloroethane	2.5 U	2.5	2.5	09/26/24 15:03	
1,1,2-Trichloroethane	2.5 U	2.5	2.5	09/26/24 15:03	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.5 U	2.5	2.5	09/26/24 15:03	
1,1-Dichloroethane (1,1-DCA)	2.5 U	2.5	2.5	09/26/24 15:03	
1,1-Dichloroethene (1,1-DCE)	2.5 U	2.5	2.5	09/26/24 15:03	
1,2,3-Trichlorobenzene	2.5 U	2.5	2.5	09/26/24 15:03	
1,2,4-Trichlorobenzene	2.5 U	2.5	2.5	09/26/24 15:03	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	2.5	09/26/24 15:03	
1,2-Dibromoethane	2.5 U	2.5	2.5	09/26/24 15:03	
1,2-Dichlorobenzene	2.5 U	2.5	2.5	09/26/24 15:03	
1,2-Dichloroethane	2.5 U	2.5	2.5	09/26/24 15:03	
1,2-Dichloropropane	2.5 U	2.5	2.5	09/26/24 15:03	
1,3-Dichlorobenzene	2.5 U	2.5	2.5	09/26/24 15:03	
1,4-Dichlorobenzene	2.5 U	2.5	2.5	09/26/24 15:03	
1,4-Dioxane	100 U	100	2.5	09/26/24 15:03	
2-Butanone (MEK)	13 U	13	2.5	09/26/24 15:03	
2-Hexanone	13 U	13	2.5	09/26/24 15:03	
4-Methyl-2-pentanone	13 U	13	2.5	09/26/24 15:03	
Acetone	13 U	13	2.5	09/26/24 15:03	
Benzene	2.5 U	2.5	2.5	09/26/24 15:03	
Bromochloromethane	2.5 U	2.5	2.5	09/26/24 15:03	
Bromodichloromethane	2.5 U	2.5	2.5	09/26/24 15:03	
Bromoform	2.5 U	2.5	2.5	09/26/24 15:03	
Bromomethane	2.5 U	2.5	2.5	09/26/24 15:03	
Carbon Disulfide	2.5 U	2.5	2.5	09/26/24 15:03	
Carbon Tetrachloride	2.5 U	2.5	2.5	09/26/24 15:03	
Chlorobenzene	2.5 U	2.5	2.5	09/26/24 15:03	
Chloroethane	2.5 U	2.5	2.5	09/26/24 15:03	
Chloroform	2.5 U	2.5	2.5	09/26/24 15:03	
Chloromethane	2.5 U	2.5	2.5	09/26/24 15:03	
Cyclohexane	2.5 U	2.5	2.5	09/26/24 15:03	
Dibromochloromethane	2.5 U	2.5	2.5	09/26/24 15:03	
Dichlorodifluoromethane (CFC 12)	2.5 U	2.5	2.5	09/26/24 15:03	
Dichloromethane	2.5 U	2.5	2.5	09/26/24 15:03	
Ethylbenzene	2.5 U	2.5	2.5	09/26/24 15:03	
Isopropylbenzene (Cumene)	2.5 U	2.5	2.5	09/26/24 15:03	
Methyl Acetate	5.0 U	5.0	2.5	09/26/24 15:03	
Methyl tert-Butyl Ether	2.5 U	2.5	2.5	09/26/24 15:03	
Methylcyclohexane	2.5 U	2.5	2.5	09/26/24 15:03	
Styrene	2.5 U	2.5	2.5	09/26/24 15:03	
Tetrachloroethene (PCE)	2.5 U	2.5	2.5	09/26/24 15:03	
Toluene	2.5 U	2.5	2.5	09/26/24 15:03	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: DR-1
Lab Code: R2409305-021

Service Request: R2409305
Date Collected: 09/19/24 15:50
Date Received: 09/20/24 14:37

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	250	2.5	2.5	09/26/24 15:03	
Trichlorofluoromethane (CFC 11)	2.5 U	2.5	2.5	09/26/24 15:03	
Vinyl Chloride	2.5 U	2.5	2.5	09/26/24 15:03	
cis-1,2-Dichloroethene	23	2.5	2.5	09/26/24 15:03	
cis-1,3-Dichloropropene	2.5 U	2.5	2.5	09/26/24 15:03	
m,p-Xylenes	5.0 U	5.0	2.5	09/26/24 15:03	
o-Xylene	2.5 U	2.5	2.5	09/26/24 15:03	
trans-1,2-Dichloroethene	4.5	2.5	2.5	09/26/24 15:03	
trans-1,3-Dichloropropene	2.5 U	2.5	2.5	09/26/24 15:03	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	09/26/24 15:03	
Dibromofluoromethane	96	80 - 116	09/26/24 15:03	
Toluene-d8	100	87 - 121	09/26/24 15:03	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/19/24 14:51
Date Received: 09/20/24 14:37

Sample Name: DR-2
Lab Code: R2409305-022

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/26/24 16:58	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/26/24 16:58	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/26/24 16:58	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/26/24 16:58	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/26/24 16:58	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/26/24 16:58	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/26/24 16:58	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/26/24 16:58	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/26/24 16:58	
1,2-Dibromoethane	1.0 U	1.0	1	09/26/24 16:58	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/26/24 16:58	
1,2-Dichloroethane	1.0 U	1.0	1	09/26/24 16:58	
1,2-Dichloropropane	1.0 U	1.0	1	09/26/24 16:58	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/26/24 16:58	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/26/24 16:58	
1,4-Dioxane	40 U	40	1	09/26/24 16:58	
2-Butanone (MEK)	5.0 U	5.0	1	09/26/24 16:58	
2-Hexanone	5.0 U	5.0	1	09/26/24 16:58	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/26/24 16:58	
Acetone	5.0 U	5.0	1	09/26/24 16:58	
Benzene	1.0 U	1.0	1	09/26/24 16:58	
Bromochloromethane	1.0 U	1.0	1	09/26/24 16:58	
Bromodichloromethane	1.0 U	1.0	1	09/26/24 16:58	
Bromoform	1.0 U	1.0	1	09/26/24 16:58	
Bromomethane	1.0 U	1.0	1	09/26/24 16:58	
Carbon Disulfide	1.0 U	1.0	1	09/26/24 16:58	
Carbon Tetrachloride	1.0 U	1.0	1	09/26/24 16:58	
Chlorobenzene	1.0 U	1.0	1	09/26/24 16:58	
Chloroethane	1.0 U	1.0	1	09/26/24 16:58	
Chloroform	1.0 U	1.0	1	09/26/24 16:58	
Chloromethane	1.0 U	1.0	1	09/26/24 16:58	
Cyclohexane	1.0 U	1.0	1	09/26/24 16:58	
Dibromochloromethane	1.0 U	1.0	1	09/26/24 16:58	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/26/24 16:58	
Dichloromethane	1.0 U	1.0	1	09/26/24 16:58	
Ethylbenzene	1.0 U	1.0	1	09/26/24 16:58	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/26/24 16:58	
Methyl Acetate	2.0 U	2.0	1	09/26/24 16:58	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/26/24 16:58	
Methylcyclohexane	1.0 U	1.0	1	09/26/24 16:58	
Styrene	1.0 U	1.0	1	09/26/24 16:58	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/26/24 16:58	
Toluene	1.0 U	1.0	1	09/26/24 16:58	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water
Sample Name: DR-2
Lab Code: R2409305-022

Service Request: R2409305
Date Collected: 09/19/24 14:51
Date Received: 09/20/24 14:37
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	22	1.0	1	09/26/24 16:58	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/26/24 16:58	
Vinyl Chloride	1.0 U	1.0	1	09/26/24 16:58	
cis-1,2-Dichloroethene	120	1.0	1	09/26/24 16:58	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 16:58	
m,p-Xylenes	2.0 U	2.0	1	09/26/24 16:58	
o-Xylene	1.0 U	1.0	1	09/26/24 16:58	
trans-1,2-Dichloroethene	1.2	1.0	1	09/26/24 16:58	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 16:58	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/26/24 16:58	
Dibromofluoromethane	98	80 - 116	09/26/24 16:58	
Toluene-d8	102	87 - 121	09/26/24 16:58	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/19/24 14:27
Date Received: 09/20/24 14:37

Sample Name: DR-3
Lab Code: R2409305-023

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/26/24 17:21	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/26/24 17:21	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/26/24 17:21	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/26/24 17:21	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/26/24 17:21	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/26/24 17:21	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/26/24 17:21	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/26/24 17:21	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/26/24 17:21	
1,2-Dibromoethane	1.0 U	1.0	1	09/26/24 17:21	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/26/24 17:21	
1,2-Dichloroethane	1.0 U	1.0	1	09/26/24 17:21	
1,2-Dichloropropane	1.0 U	1.0	1	09/26/24 17:21	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/26/24 17:21	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/26/24 17:21	
1,4-Dioxane	40 U	40	1	09/26/24 17:21	
2-Butanone (MEK)	5.0 U	5.0	1	09/26/24 17:21	
2-Hexanone	5.0 U	5.0	1	09/26/24 17:21	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/26/24 17:21	
Acetone	5.0 U	5.0	1	09/26/24 17:21	
Benzene	1.0 U	1.0	1	09/26/24 17:21	
Bromochloromethane	1.0 U	1.0	1	09/26/24 17:21	
Bromodichloromethane	1.0 U	1.0	1	09/26/24 17:21	
Bromoform	1.0 U	1.0	1	09/26/24 17:21	
Bromomethane	1.0 U	1.0	1	09/26/24 17:21	
Carbon Disulfide	1.0 U	1.0	1	09/26/24 17:21	
Carbon Tetrachloride	1.0 U	1.0	1	09/26/24 17:21	
Chlorobenzene	1.0 U	1.0	1	09/26/24 17:21	
Chloroethane	1.0 U	1.0	1	09/26/24 17:21	
Chloroform	1.0 U	1.0	1	09/26/24 17:21	
Chloromethane	1.0 U	1.0	1	09/26/24 17:21	
Cyclohexane	1.0 U	1.0	1	09/26/24 17:21	
Dibromochloromethane	1.0 U	1.0	1	09/26/24 17:21	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/26/24 17:21	
Dichloromethane	1.0 U	1.0	1	09/26/24 17:21	
Ethylbenzene	1.0 U	1.0	1	09/26/24 17:21	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/26/24 17:21	
Methyl Acetate	2.0 U	2.0	1	09/26/24 17:21	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/26/24 17:21	
Methylcyclohexane	1.0 U	1.0	1	09/26/24 17:21	
Styrene	1.0 U	1.0	1	09/26/24 17:21	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/26/24 17:21	
Toluene	1.0 U	1.0	1	09/26/24 17:21	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water
Sample Name: DR-3
Lab Code: R2409305-023

Service Request: R2409305
Date Collected: 09/19/24 14:27
Date Received: 09/20/24 14:37
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	26	1.0	1	09/26/24 17:21	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/26/24 17:21	
Vinyl Chloride	1.1	1.0	1	09/26/24 17:21	
cis-1,2-Dichloroethene	59	1.0	1	09/26/24 17:21	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 17:21	
m,p-Xylenes	2.0 U	2.0	1	09/26/24 17:21	
o-Xylene	1.0 U	1.0	1	09/26/24 17:21	
trans-1,2-Dichloroethene	1.0	1.0	1	09/26/24 17:21	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 17:21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	09/26/24 17:21	
Dibromofluoromethane	99	80 - 116	09/26/24 17:21	
Toluene-d8	100	87 - 121	09/26/24 17:21	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/19/24 13:30
Date Received: 09/20/24 14:37

Sample Name: DR-4
Lab Code: R2409305-024

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/26/24 17:44	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/26/24 17:44	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/26/24 17:44	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/26/24 17:44	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/26/24 17:44	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/26/24 17:44	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/26/24 17:44	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/26/24 17:44	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/26/24 17:44	
1,2-Dibromoethane	1.0 U	1.0	1	09/26/24 17:44	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/26/24 17:44	
1,2-Dichloroethane	1.0 U	1.0	1	09/26/24 17:44	
1,2-Dichloropropane	1.0 U	1.0	1	09/26/24 17:44	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/26/24 17:44	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/26/24 17:44	
1,4-Dioxane	40 U	40	1	09/26/24 17:44	
2-Butanone (MEK)	5.0 U	5.0	1	09/26/24 17:44	
2-Hexanone	5.0 U	5.0	1	09/26/24 17:44	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/26/24 17:44	
Acetone	5.0 U	5.0	1	09/26/24 17:44	
Benzene	1.0 U	1.0	1	09/26/24 17:44	
Bromochloromethane	1.0 U	1.0	1	09/26/24 17:44	
Bromodichloromethane	1.0 U	1.0	1	09/26/24 17:44	
Bromoform	1.0 U	1.0	1	09/26/24 17:44	
Bromomethane	1.0 U	1.0	1	09/26/24 17:44	
Carbon Disulfide	1.0 U	1.0	1	09/26/24 17:44	
Carbon Tetrachloride	1.0 U	1.0	1	09/26/24 17:44	
Chlorobenzene	1.0 U	1.0	1	09/26/24 17:44	
Chloroethane	1.0 U	1.0	1	09/26/24 17:44	
Chloroform	1.0 U	1.0	1	09/26/24 17:44	
Chloromethane	1.0 U	1.0	1	09/26/24 17:44	
Cyclohexane	1.0 U	1.0	1	09/26/24 17:44	
Dibromochloromethane	1.0 U	1.0	1	09/26/24 17:44	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/26/24 17:44	
Dichloromethane	1.0 U	1.0	1	09/26/24 17:44	
Ethylbenzene	1.0 U	1.0	1	09/26/24 17:44	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/26/24 17:44	
Methyl Acetate	2.0 U	2.0	1	09/26/24 17:44	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/26/24 17:44	
Methylcyclohexane	1.0 U	1.0	1	09/26/24 17:44	
Styrene	1.0 U	1.0	1	09/26/24 17:44	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/26/24 17:44	
Toluene	1.0 U	1.0	1	09/26/24 17:44	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water
Sample Name: DR-4
Lab Code: R2409305-024

Service Request: R2409305
Date Collected: 09/19/24 13:30
Date Received: 09/20/24 14:37
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	18	1.0	1	09/26/24 17:44	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/26/24 17:44	
Vinyl Chloride	1.0 U	1.0	1	09/26/24 17:44	
cis-1,2-Dichloroethene	9.2	1.0	1	09/26/24 17:44	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 17:44	
m,p-Xylenes	2.0 U	2.0	1	09/26/24 17:44	
o-Xylene	1.0 U	1.0	1	09/26/24 17:44	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/26/24 17:44	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 17:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	09/26/24 17:44	
Dibromofluoromethane	97	80 - 116	09/26/24 17:44	
Toluene-d8	98	87 - 121	09/26/24 17:44	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/19/24 12:40
Date Received: 09/20/24 14:37

Sample Name: G-1
Lab Code: R2409305-025

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/26/24 18:07	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/26/24 18:07	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/26/24 18:07	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/26/24 18:07	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/26/24 18:07	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/26/24 18:07	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/26/24 18:07	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/26/24 18:07	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/26/24 18:07	
1,2-Dibromoethane	1.0 U	1.0	1	09/26/24 18:07	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/26/24 18:07	
1,2-Dichloroethane	1.0 U	1.0	1	09/26/24 18:07	
1,2-Dichloropropane	1.0 U	1.0	1	09/26/24 18:07	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/26/24 18:07	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/26/24 18:07	
1,4-Dioxane	40 U	40	1	09/26/24 18:07	
2-Butanone (MEK)	5.0 U	5.0	1	09/26/24 18:07	
2-Hexanone	5.0 U	5.0	1	09/26/24 18:07	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/26/24 18:07	
Acetone	5.0 U	5.0	1	09/26/24 18:07	
Benzene	1.0 U	1.0	1	09/26/24 18:07	
Bromochloromethane	1.0 U	1.0	1	09/26/24 18:07	
Bromodichloromethane	1.0 U	1.0	1	09/26/24 18:07	
Bromoform	1.0 U	1.0	1	09/26/24 18:07	
Bromomethane	1.0 U	1.0	1	09/26/24 18:07	
Carbon Disulfide	1.0 U	1.0	1	09/26/24 18:07	
Carbon Tetrachloride	1.0 U	1.0	1	09/26/24 18:07	
Chlorobenzene	1.0 U	1.0	1	09/26/24 18:07	
Chloroethane	1.0 U	1.0	1	09/26/24 18:07	
Chloroform	1.0 U	1.0	1	09/26/24 18:07	
Chloromethane	1.0 U	1.0	1	09/26/24 18:07	
Cyclohexane	1.0 U	1.0	1	09/26/24 18:07	
Dibromochloromethane	1.0 U	1.0	1	09/26/24 18:07	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/26/24 18:07	
Dichloromethane	1.0 U	1.0	1	09/26/24 18:07	
Ethylbenzene	1.0 U	1.0	1	09/26/24 18:07	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/26/24 18:07	
Methyl Acetate	2.0 U	2.0	1	09/26/24 18:07	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/26/24 18:07	
Methylcyclohexane	1.0 U	1.0	1	09/26/24 18:07	
Styrene	1.0 U	1.0	1	09/26/24 18:07	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/26/24 18:07	
Toluene	1.0 U	1.0	1	09/26/24 18:07	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water
Sample Name: G-1
Lab Code: R2409305-025

Service Request: R2409305
Date Collected: 09/19/24 12:40
Date Received: 09/20/24 14:37
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	3.4	1.0	1	09/26/24 18:07	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/26/24 18:07	
Vinyl Chloride	1.0	1.0	1	09/26/24 18:07	
cis-1,2-Dichloroethene	43	1.0	1	09/26/24 18:07	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 18:07	
m,p-Xylenes	2.0 U	2.0	1	09/26/24 18:07	
o-Xylene	1.0 U	1.0	1	09/26/24 18:07	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/26/24 18:07	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 18:07	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	09/26/24 18:07	
Dibromofluoromethane	98	80 - 116	09/26/24 18:07	
Toluene-d8	98	87 - 121	09/26/24 18:07	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/19/24 12:10
Date Received: 09/20/24 14:37

Sample Name: G-2
Lab Code: R2409305-026

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/26/24 18:30	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/26/24 18:30	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/26/24 18:30	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/26/24 18:30	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/26/24 18:30	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/26/24 18:30	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/26/24 18:30	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/26/24 18:30	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/26/24 18:30	
1,2-Dibromoethane	1.0 U	1.0	1	09/26/24 18:30	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/26/24 18:30	
1,2-Dichloroethane	1.0 U	1.0	1	09/26/24 18:30	
1,2-Dichloropropane	1.0 U	1.0	1	09/26/24 18:30	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/26/24 18:30	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/26/24 18:30	
1,4-Dioxane	40 U	40	1	09/26/24 18:30	
2-Butanone (MEK)	5.0 U	5.0	1	09/26/24 18:30	
2-Hexanone	5.0 U	5.0	1	09/26/24 18:30	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/26/24 18:30	
Acetone	5.0 U	5.0	1	09/26/24 18:30	
Benzene	1.0 U	1.0	1	09/26/24 18:30	
Bromochloromethane	1.0 U	1.0	1	09/26/24 18:30	
Bromodichloromethane	1.0 U	1.0	1	09/26/24 18:30	
Bromoform	1.0 U	1.0	1	09/26/24 18:30	
Bromomethane	1.0 U	1.0	1	09/26/24 18:30	
Carbon Disulfide	1.0 U	1.0	1	09/26/24 18:30	
Carbon Tetrachloride	1.0 U	1.0	1	09/26/24 18:30	
Chlorobenzene	1.0 U	1.0	1	09/26/24 18:30	
Chloroethane	1.0 U	1.0	1	09/26/24 18:30	
Chloroform	1.0 U	1.0	1	09/26/24 18:30	
Chloromethane	1.0 U	1.0	1	09/26/24 18:30	
Cyclohexane	1.0 U	1.0	1	09/26/24 18:30	
Dibromochloromethane	1.0 U	1.0	1	09/26/24 18:30	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/26/24 18:30	
Dichloromethane	1.0 U	1.0	1	09/26/24 18:30	
Ethylbenzene	1.0 U	1.0	1	09/26/24 18:30	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/26/24 18:30	
Methyl Acetate	2.0 U	2.0	1	09/26/24 18:30	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/26/24 18:30	
Methylcyclohexane	1.0 U	1.0	1	09/26/24 18:30	
Styrene	1.0 U	1.0	1	09/26/24 18:30	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/26/24 18:30	
Toluene	1.0 U	1.0	1	09/26/24 18:30	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: G-2
Lab Code: R2409305-026

Service Request: R2409305
Date Collected: 09/19/24 12:10
Date Received: 09/20/24 14:37

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	09/26/24 18:30	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/26/24 18:30	
Vinyl Chloride	1.0 U	1.0	1	09/26/24 18:30	
cis-1,2-Dichloroethene	58	1.0	1	09/26/24 18:30	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 18:30	
m,p-Xylenes	2.0 U	2.0	1	09/26/24 18:30	
o-Xylene	1.0 U	1.0	1	09/26/24 18:30	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/26/24 18:30	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 18:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	09/26/24 18:30	
Dibromofluoromethane	98	80 - 116	09/26/24 18:30	
Toluene-d8	101	87 - 121	09/26/24 18:30	

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dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/20/24 09:29
Date Received: 09/20/24 14:37

Sample Name: G-3
Lab Code: R2409305-027

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/26/24 18:53	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/26/24 18:53	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/26/24 18:53	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/26/24 18:53	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/26/24 18:53	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/26/24 18:53	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/26/24 18:53	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/26/24 18:53	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/26/24 18:53	
1,2-Dibromoethane	1.0 U	1.0	1	09/26/24 18:53	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/26/24 18:53	
1,2-Dichloroethane	1.0 U	1.0	1	09/26/24 18:53	
1,2-Dichloropropane	1.0 U	1.0	1	09/26/24 18:53	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/26/24 18:53	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/26/24 18:53	
1,4-Dioxane	40 U	40	1	09/26/24 18:53	
2-Butanone (MEK)	5.0 U	5.0	1	09/26/24 18:53	
2-Hexanone	5.0 U	5.0	1	09/26/24 18:53	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/26/24 18:53	
Acetone	5.0 U	5.0	1	09/26/24 18:53	
Benzene	1.0 U	1.0	1	09/26/24 18:53	
Bromochloromethane	1.0 U	1.0	1	09/26/24 18:53	
Bromodichloromethane	1.0 U	1.0	1	09/26/24 18:53	
Bromoform	1.0 U	1.0	1	09/26/24 18:53	
Bromomethane	1.0 U	1.0	1	09/26/24 18:53	
Carbon Disulfide	1.0 U	1.0	1	09/26/24 18:53	
Carbon Tetrachloride	1.0 U	1.0	1	09/26/24 18:53	
Chlorobenzene	1.0 U	1.0	1	09/26/24 18:53	
Chloroethane	1.0 U	1.0	1	09/26/24 18:53	
Chloroform	1.0 U	1.0	1	09/26/24 18:53	
Chloromethane	1.0 U	1.0	1	09/26/24 18:53	
Cyclohexane	1.0 U	1.0	1	09/26/24 18:53	
Dibromochloromethane	1.0 U	1.0	1	09/26/24 18:53	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/26/24 18:53	
Dichloromethane	1.0 U	1.0	1	09/26/24 18:53	
Ethylbenzene	1.0 U	1.0	1	09/26/24 18:53	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/26/24 18:53	
Methyl Acetate	2.0 U	2.0	1	09/26/24 18:53	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/26/24 18:53	
Methylcyclohexane	1.0 U	1.0	1	09/26/24 18:53	
Styrene	1.0 U	1.0	1	09/26/24 18:53	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/26/24 18:53	
Toluene	1.0 U	1.0	1	09/26/24 18:53	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water
Sample Name: G-3
Lab Code: R2409305-027

Service Request: R2409305
Date Collected: 09/20/24 09:29
Date Received: 09/20/24 14:37
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	16	1.0	1	09/26/24 18:53	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/26/24 18:53	
Vinyl Chloride	1.0 U	1.0	1	09/26/24 18:53	
cis-1,2-Dichloroethene	160	1.0	1	09/26/24 18:53	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 18:53	
m,p-Xylenes	2.0 U	2.0	1	09/26/24 18:53	
o-Xylene	1.0 U	1.0	1	09/26/24 18:53	
trans-1,2-Dichloroethene	1.1	1.0	1	09/26/24 18:53	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 18:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/26/24 18:53	
Dibromofluoromethane	100	80 - 116	09/26/24 18:53	
Toluene-d8	102	87 - 121	09/26/24 18:53	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/19/24
Date Received: 09/20/24 14:37

Sample Name: MW-X
Lab Code: R2409305-028

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/26/24 19:16	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/26/24 19:16	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/26/24 19:16	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/26/24 19:16	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/26/24 19:16	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/26/24 19:16	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/26/24 19:16	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/26/24 19:16	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/26/24 19:16	
1,2-Dibromoethane	1.0 U	1.0	1	09/26/24 19:16	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/26/24 19:16	
1,2-Dichloroethane	1.0 U	1.0	1	09/26/24 19:16	
1,2-Dichloropropane	1.0 U	1.0	1	09/26/24 19:16	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/26/24 19:16	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/26/24 19:16	
1,4-Dioxane	40 U	40	1	09/26/24 19:16	
2-Butanone (MEK)	5.0 U	5.0	1	09/26/24 19:16	
2-Hexanone	5.0 U	5.0	1	09/26/24 19:16	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/26/24 19:16	
Acetone	5.0 U	5.0	1	09/26/24 19:16	
Benzene	1.0 U	1.0	1	09/26/24 19:16	
Bromochloromethane	1.0 U	1.0	1	09/26/24 19:16	
Bromodichloromethane	1.0 U	1.0	1	09/26/24 19:16	
Bromoform	1.0 U	1.0	1	09/26/24 19:16	
Bromomethane	1.0 U	1.0	1	09/26/24 19:16	
Carbon Disulfide	1.0 U	1.0	1	09/26/24 19:16	
Carbon Tetrachloride	1.0 U	1.0	1	09/26/24 19:16	
Chlorobenzene	1.0 U	1.0	1	09/26/24 19:16	
Chloroethane	1.0 U	1.0	1	09/26/24 19:16	
Chloroform	1.0 U	1.0	1	09/26/24 19:16	
Chloromethane	1.0 U	1.0	1	09/26/24 19:16	
Cyclohexane	1.0 U	1.0	1	09/26/24 19:16	
Dibromochloromethane	1.0 U	1.0	1	09/26/24 19:16	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/26/24 19:16	
Dichloromethane	1.0 U	1.0	1	09/26/24 19:16	
Ethylbenzene	1.0 U	1.0	1	09/26/24 19:16	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/26/24 19:16	
Methyl Acetate	2.0 U	2.0	1	09/26/24 19:16	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/26/24 19:16	
Methylcyclohexane	1.0 U	1.0	1	09/26/24 19:16	
Styrene	1.0 U	1.0	1	09/26/24 19:16	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/26/24 19:16	
Toluene	1.0 U	1.0	1	09/26/24 19:16	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-X
Lab Code: R2409305-028

Service Request: R2409305
Date Collected: 09/19/24
Date Received: 09/20/24 14:37

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	100	1.0	1	09/26/24 19:16	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/26/24 19:16	
Vinyl Chloride	3.6	1.0	1	09/26/24 19:16	
cis-1,2-Dichloroethene	84	1.0	1	09/26/24 19:16	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 19:16	
m,p-Xylenes	2.0 U	2.0	1	09/26/24 19:16	
o-Xylene	1.0 U	1.0	1	09/26/24 19:16	
trans-1,2-Dichloroethene	1.3	1.0	1	09/26/24 19:16	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 19:16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/26/24 19:16	
Dibromofluoromethane	97	80 - 116	09/26/24 19:16	
Toluene-d8	100	87 - 121	09/26/24 19:16	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/20/24 11:47
Date Received: 09/20/24 14:37

Sample Name: FB
Lab Code: R2409305-029

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/26/24 12:44	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/26/24 12:44	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/26/24 12:44	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/26/24 12:44	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/26/24 12:44	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/26/24 12:44	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/26/24 12:44	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/26/24 12:44	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/26/24 12:44	
1,2-Dibromoethane	1.0 U	1.0	1	09/26/24 12:44	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/26/24 12:44	
1,2-Dichloroethane	1.0 U	1.0	1	09/26/24 12:44	
1,2-Dichloropropane	1.0 U	1.0	1	09/26/24 12:44	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/26/24 12:44	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/26/24 12:44	
1,4-Dioxane	40 U	40	1	09/26/24 12:44	
2-Butanone (MEK)	5.0 U	5.0	1	09/26/24 12:44	
2-Hexanone	5.0 U	5.0	1	09/26/24 12:44	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/26/24 12:44	
Acetone	5.0 U	5.0	1	09/26/24 12:44	
Benzene	1.0 U	1.0	1	09/26/24 12:44	
Bromochloromethane	1.0 U	1.0	1	09/26/24 12:44	
Bromodichloromethane	1.0 U	1.0	1	09/26/24 12:44	
Bromoform	1.0 U	1.0	1	09/26/24 12:44	
Bromomethane	1.0 U	1.0	1	09/26/24 12:44	
Carbon Disulfide	1.0 U	1.0	1	09/26/24 12:44	
Carbon Tetrachloride	1.0 U	1.0	1	09/26/24 12:44	
Chlorobenzene	1.0 U	1.0	1	09/26/24 12:44	
Chloroethane	1.0 U	1.0	1	09/26/24 12:44	
Chloroform	1.0 U	1.0	1	09/26/24 12:44	
Chloromethane	1.0 U	1.0	1	09/26/24 12:44	
Cyclohexane	1.0 U	1.0	1	09/26/24 12:44	
Dibromochloromethane	1.0 U	1.0	1	09/26/24 12:44	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/26/24 12:44	
Dichloromethane	1.0 U	1.0	1	09/26/24 12:44	
Ethylbenzene	1.0 U	1.0	1	09/26/24 12:44	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/26/24 12:44	
Methyl Acetate	2.0 U	2.0	1	09/26/24 12:44	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/26/24 12:44	
Methylcyclohexane	1.0 U	1.0	1	09/26/24 12:44	
Styrene	1.0 U	1.0	1	09/26/24 12:44	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/26/24 12:44	
Toluene	1.0 U	1.0	1	09/26/24 12:44	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: FB
Lab Code: R2409305-029

Service Request: R2409305
Date Collected: 09/20/24 11:47
Date Received: 09/20/24 14:37

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	09/26/24 12:44	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/26/24 12:44	
Vinyl Chloride	1.0 U	1.0	1	09/26/24 12:44	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/26/24 12:44	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 12:44	
m,p-Xylenes	2.0 U	2.0	1	09/26/24 12:44	
o-Xylene	1.0 U	1.0	1	09/26/24 12:44	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/26/24 12:44	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 12:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	09/26/24 12:44	
Dibromofluoromethane	97	80 - 116	09/26/24 12:44	
Toluene-d8	98	87 - 121	09/26/24 12:44	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/20/24
Date Received: 09/20/24 14:37

Sample Name: Trip Blank
Lab Code: R2409305-030

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/26/24 13:07	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/26/24 13:07	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/26/24 13:07	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/26/24 13:07	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/26/24 13:07	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/26/24 13:07	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/26/24 13:07	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/26/24 13:07	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/26/24 13:07	
1,2-Dibromoethane	1.0 U	1.0	1	09/26/24 13:07	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/26/24 13:07	
1,2-Dichloroethane	1.0 U	1.0	1	09/26/24 13:07	
1,2-Dichloropropane	1.0 U	1.0	1	09/26/24 13:07	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/26/24 13:07	
1,4-Dichlorobenzene	1.6	1.0	1	09/26/24 13:07	
1,4-Dioxane	40 U	40	1	09/26/24 13:07	
2-Butanone (MEK)	5.0 U	5.0	1	09/26/24 13:07	
2-Hexanone	5.0 U	5.0	1	09/26/24 13:07	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/26/24 13:07	
Acetone	5.0 U	5.0	1	09/26/24 13:07	
Benzene	1.0 U	1.0	1	09/26/24 13:07	
Bromochloromethane	1.0 U	1.0	1	09/26/24 13:07	
Bromodichloromethane	1.0 U	1.0	1	09/26/24 13:07	
Bromoform	1.0 U	1.0	1	09/26/24 13:07	
Bromomethane	1.0 U	1.0	1	09/26/24 13:07	
Carbon Disulfide	1.0 U	1.0	1	09/26/24 13:07	
Carbon Tetrachloride	1.0 U	1.0	1	09/26/24 13:07	
Chlorobenzene	1.0 U	1.0	1	09/26/24 13:07	
Chloroethane	1.0 U	1.0	1	09/26/24 13:07	
Chloroform	1.0 U	1.0	1	09/26/24 13:07	
Chloromethane	1.0 U	1.0	1	09/26/24 13:07	
Cyclohexane	1.0 U	1.0	1	09/26/24 13:07	
Dibromochloromethane	1.0 U	1.0	1	09/26/24 13:07	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/26/24 13:07	
Dichloromethane	1.0 U	1.0	1	09/26/24 13:07	
Ethylbenzene	1.0 U	1.0	1	09/26/24 13:07	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/26/24 13:07	
Methyl Acetate	2.0 U	2.0	1	09/26/24 13:07	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/26/24 13:07	
Methylcyclohexane	1.0 U	1.0	1	09/26/24 13:07	
Styrene	1.0 U	1.0	1	09/26/24 13:07	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/26/24 13:07	
Toluene	1.0 U	1.0	1	09/26/24 13:07	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: Trip Blank
Lab Code: R2409305-030

Service Request: R2409305
Date Collected: 09/20/24
Date Received: 09/20/24 14:37

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	09/26/24 13:07	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/26/24 13:07	
Vinyl Chloride	1.0 U	1.0	1	09/26/24 13:07	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/26/24 13:07	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 13:07	
m,p-Xylenes	2.0 U	2.0	1	09/26/24 13:07	
o-Xylene	1.0 U	1.0	1	09/26/24 13:07	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/26/24 13:07	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 13:07	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	09/26/24 13:07	
Dibromofluoromethane	100	80 - 116	09/26/24 13:07	
Toluene-d8	100	87 - 121	09/26/24 13:07	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/20/24
Date Received: 09/20/24 14:37

Sample Name: Trip Blank
Lab Code: R2409305-031

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/26/24 13:30	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/26/24 13:30	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/26/24 13:30	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/26/24 13:30	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/26/24 13:30	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/26/24 13:30	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/26/24 13:30	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/26/24 13:30	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/26/24 13:30	
1,2-Dibromoethane	1.0 U	1.0	1	09/26/24 13:30	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/26/24 13:30	
1,2-Dichloroethane	1.0 U	1.0	1	09/26/24 13:30	
1,2-Dichloropropane	1.0 U	1.0	1	09/26/24 13:30	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/26/24 13:30	
1,4-Dichlorobenzene	1.7	1.0	1	09/26/24 13:30	
1,4-Dioxane	40 U	40	1	09/26/24 13:30	
2-Butanone (MEK)	5.0 U	5.0	1	09/26/24 13:30	
2-Hexanone	5.0 U	5.0	1	09/26/24 13:30	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/26/24 13:30	
Acetone	5.0 U	5.0	1	09/26/24 13:30	
Benzene	1.0 U	1.0	1	09/26/24 13:30	
Bromochloromethane	1.0 U	1.0	1	09/26/24 13:30	
Bromodichloromethane	1.0 U	1.0	1	09/26/24 13:30	
Bromoform	1.0 U	1.0	1	09/26/24 13:30	
Bromomethane	1.0 U	1.0	1	09/26/24 13:30	
Carbon Disulfide	1.0 U	1.0	1	09/26/24 13:30	
Carbon Tetrachloride	1.0 U	1.0	1	09/26/24 13:30	
Chlorobenzene	1.0 U	1.0	1	09/26/24 13:30	
Chloroethane	1.0 U	1.0	1	09/26/24 13:30	
Chloroform	1.0 U	1.0	1	09/26/24 13:30	
Chloromethane	1.0 U	1.0	1	09/26/24 13:30	
Cyclohexane	1.0 U	1.0	1	09/26/24 13:30	
Dibromochloromethane	1.0 U	1.0	1	09/26/24 13:30	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/26/24 13:30	
Dichloromethane	1.0 U	1.0	1	09/26/24 13:30	
Ethylbenzene	1.0 U	1.0	1	09/26/24 13:30	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/26/24 13:30	
Methyl Acetate	2.0 U	2.0	1	09/26/24 13:30	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/26/24 13:30	
Methylcyclohexane	1.0 U	1.0	1	09/26/24 13:30	
Styrene	1.0 U	1.0	1	09/26/24 13:30	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/26/24 13:30	
Toluene	1.0 U	1.0	1	09/26/24 13:30	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: Trip Blank
Lab Code: R2409305-031

Service Request: R2409305
Date Collected: 09/20/24
Date Received: 09/20/24 14:37

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	09/26/24 13:30	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/26/24 13:30	
Vinyl Chloride	1.0 U	1.0	1	09/26/24 13:30	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/26/24 13:30	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 13:30	
m,p-Xylenes	2.0 U	2.0	1	09/26/24 13:30	
o-Xylene	1.0 U	1.0	1	09/26/24 13:30	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/26/24 13:30	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 13:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	09/26/24 13:30	
Dibromofluoromethane	100	80 - 116	09/26/24 13:30	
Toluene-d8	102	87 - 121	09/26/24 13:30	



QC Summary Forms

ALS Environmental—Rochester Laboratory

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Volatile Organic Compounds by GC/MS

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ALS Group USA, Corp.
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QA/QC Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85 - 122	80 - 116	87 - 121
MW-1	R2409305-001	101	98	98
MW-2	R2409305-002	100	101	102
MW-3	R2409305-003	102	96	101
MW-4	R2409305-004	98	98	99
MW-5	R2409305-005	96	97	98
MW-6	R2409305-006	100	96	98
MW-7	R2409305-007	100	100	100
MW-8	R2409305-008	99	99	101
MW-9	R2409305-009	93	97	97
MW-10	R2409305-010	103	98	101
MW-11	R2409305-011	97	96	98
MW-11 DL	R2409305-011	101	99	102
MW-12	R2409305-012	97	97	98
MW-13	R2409305-013	102	97	100
MW-14	R2409305-014	98	100	101
MW-15	R2409305-015	100	96	99
MW-17	R2409305-016	98	97	98
MW-17 DL	R2409305-016	100	102	101
MW-18	R2409305-017	99	100	100
MW-19R	R2409305-018	100	96	100
MW-20	R2409305-019	97	99	100
MW-21	R2409305-020	100	98	100
DR-1	R2409305-021	100	96	100
DR-2	R2409305-022	101	98	102
DR-3	R2409305-023	97	99	100
DR-4	R2409305-024	98	97	98
G-1	R2409305-025	97	98	98
G-2	R2409305-026	103	98	101
G-3	R2409305-027	101	100	102
MW-X	R2409305-028	101	97	100
FB	R2409305-029	97	97	98
Trip Blank	R2409305-030	102	100	100
Trip Blank	R2409305-031	101	100	102
Lab Control Sample	RQ2412152-02	98	101	100
Method Blank	RQ2412152-03	97	99	100
MW-2 MS	RQ2412152-04	102	101	99
MW-2 DMS	RQ2412152-05	100	104	101

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QA/QC Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85 - 122	80 - 116	87 - 121
Lab Control Sample	RQ2412179-02	103	103	102
Method Blank	RQ2412179-03	104	100	104
Lab Control Sample	RQ2412274-02	99	102	98
Method Blank	RQ2412274-04	99	98	99

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QA/QC Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/19/24
Date Received: 09/20/24
Date Analyzed: 09/26/24
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: MW-2
Lab Code: R2409305-002
Analysis Method: 8260D
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2412152-04			Duplicate Matrix Spike RQ2412152-05			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,1,1-Trichloroethane (TCA)	1.0 U	47.6	50.0	95	51.9	50.0	104	74-127	9	30
1,1,2,2-Tetrachloroethane	1.0 U	43.7	50.0	87	47.4	50.0	95	72-122	8	30
1,1,2-Trichloroethane	1.0 U	46.5	50.0	93	52.2	50.0	104	82-121	12	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	43.4	50.0	87	47.3	50.0	95	50-147	9	30
1,1-Dichloroethane (1,1-DCA)	1.0 U	46.6	50.0	93	49.5	50.0	99	74-132	6	30
1,1-Dichloroethene (1,1-DCE)	1.0 U	47.8	50.0	96	52.2	50.0	104	71-118	9	30
1,2,3-Trichlorobenzene	1.0 U	36.9	50.0	74	40.5	50.0	81	59-129	9	30
1,2,4-Trichlorobenzene	1.0 U	36.1	50.0	72	40.0	50.0	80	69-122	10	30
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	51.6	50.0	103	57.3	50.0	115	37-150	10	30
1,2-Dibromoethane	1.0 U	46.1	50.0	92	51.4	50.0	103	67-127	11	30
1,2-Dichlorobenzene	1.0 U	39.8	50.0	80	43.7	50.0	87	77-120	9	30
1,2-Dichloroethane	1.0 U	44.9	50.0	90	50.3	50.0	101	68-130	11	30
1,2-Dichloropropane	1.0 U	44.2	50.0	88	48.6	50.0	97	79-124	9	30
1,3-Dichlorobenzene	1.0 U	39.8	50.0	80 *	43.6	50.0	87	83-121	9	30
1,4-Dichlorobenzene	1.0 U	40.0	50.0	80 *	43.5	50.0	87	82-120	8	30
1,4-Dioxane	40 U	950	1000	95	1110	1000	111	44-154	15	30
2-Butanone (MEK)	5.0 U	43.2	50.0	86	45.5	50.0	91	61-137	5	30
2-Hexanone	5.0 U	44.2	50.0	88	48.9	50.0	98	56-132	10	30
4-Methyl-2-pentanone	5.0 U	45.9	50.0	92	50.4	50.0	101	60-141	9	30
Acetone	5.0 U	39.4	50.0	79	41.9	50.0	84	35-183	6	30
Benzene	1.0 U	45.8	50.0	92	51.2	50.0	102	76-129	11	30
Bromochloromethane	1.0 U	47.1	50.0	94	50.6	50.0	101	80-122	7	30
Bromodichloromethane	1.0 U	48.1	50.0	96	54.5	50.0	109	78-133	12	30
Bromoform	1.0 U	53.7	50.0	107	61.5	50.0	123	58-133	13	30
Bromomethane	1.0 U	46.0	50.0	92	48.2	50.0	96	10-184	5	30
Carbon Disulfide	1.0 U	46.7	50.0	93	50.1	50.0	100	59-140	7	30
Carbon Tetrachloride	1.0 U	47.0	50.0	94	52.6	50.0	105	65-135	11	30
Chlorobenzene	1.0 U	43.0	50.0	86	47.7	50.0	95	76-125	10	30
Chloroethane	1.0 U	45.2	50.0	90	48.4	50.0	97	48-146	7	30
Chloroform	1.0 U	47.1	50.0	94	50.7	50.0	101	75-130	7	30
Chloromethane	1.0 U	50.6	50.0	101	55.1	50.0	110	55-160	9	30
Cyclohexane	1.0 U	37.8	50.0	76	40.0	50.0	80	52-145	6	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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QA/QC Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Collected: 09/19/24
Date Received: 09/20/24
Date Analyzed: 09/26/24
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: MW-2
Lab Code: R2409305-002
Analysis Method: 8260D
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2412152-04			Duplicate Matrix Spike RQ2412152-05			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Dibromochloromethane	1.0 U	49.4	50.0	99	55.5	50.0	111	72-128	12	30
Dichlorodifluoromethane (CFC 12)	1.0 U	61.9	50.0	124	66.0	50.0	132	49-154	6	30
Dichloromethane	1.0 U	47.7	50.0	95	51.2	50.0	102	73-122	7	30
Ethylbenzene	1.0 U	43.7	50.0	87	48.7	50.0	97	72-134	11	30
Isopropylbenzene (Cumene)	1.0 U	43.8	50.0	88	48.7	50.0	97	77-128	11	30
Methyl Acetate	2.0 U	38.2	50.0	76	40.6	50.0	81	26-121	6	30
Methyl tert-Butyl Ether	1.0 U	44.9	50.0	90	49.2	50.0	98	75-119	9	30
Methylcyclohexane	1.0 U	33.9	50.0	68	36.5	50.0	73	45-146	7	30
Styrene	1.0 U	45.1	50.0	90	49.2	50.0	98	74-136	9	30
Tetrachloroethene (PCE)	1.0 U	42.1	50.0	84	47.1	50.0	94	72-125	11	30
Toluene	1.0 U	46.0	50.0	92	51.5	50.0	103	79-119	11	30
Trichloroethene (TCE)	1.0 U	47.2	50.0	94	51.6	50.0	103	74-122	9	30
Trichlorofluoromethane (CFC 11)	1.0 U	47.2	50.0	94	51.4	50.0	103	71-136	8	30
Vinyl Chloride	1.0 U	49.2	50.0	98	52.5	50.0	105	74-159	7	30
cis-1,2-Dichloroethene	1.0 U	51.5	50.0	103	55.8	50.0	112	77-127	8	30
cis-1,3-Dichloropropene	1.0 U	48.4	50.0	97	54.0	50.0	108	52-134	11	30
m,p-Xylenes	2.0 U	87.1	100	87	96.7	100	97	80-126	11	30
o-Xylene	1.0 U	43.5	50.0	87	48.0	50.0	96	79-123	10	30
trans-1,2-Dichloroethene	1.0 U	43.8	50.0	88	47.2	50.0	94	73-118	8	30
trans-1,3-Dichloropropene	1.0 U	49.2	50.0	98	55.2	50.0	110	71-133	11	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: RQ2412152-03

Service Request: R2409305
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/25/24 17:08	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/25/24 17:08	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/25/24 17:08	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/25/24 17:08	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/25/24 17:08	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/25/24 17:08	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/25/24 17:08	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/25/24 17:08	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/25/24 17:08	
1,2-Dibromoethane	1.0 U	1.0	1	09/25/24 17:08	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/25/24 17:08	
1,2-Dichloroethane	1.0 U	1.0	1	09/25/24 17:08	
1,2-Dichloropropane	1.0 U	1.0	1	09/25/24 17:08	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/25/24 17:08	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/25/24 17:08	
1,4-Dioxane	40 U	40	1	09/25/24 17:08	
2-Butanone (MEK)	5.0 U	5.0	1	09/25/24 17:08	
2-Hexanone	5.0 U	5.0	1	09/25/24 17:08	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/25/24 17:08	
Acetone	5.0 U	5.0	1	09/25/24 17:08	
Benzene	1.0 U	1.0	1	09/25/24 17:08	
Bromochloromethane	1.0 U	1.0	1	09/25/24 17:08	
Bromodichloromethane	1.0 U	1.0	1	09/25/24 17:08	
Bromoform	1.0 U	1.0	1	09/25/24 17:08	
Bromomethane	1.0 U	1.0	1	09/25/24 17:08	
Carbon Disulfide	1.0 U	1.0	1	09/25/24 17:08	
Carbon Tetrachloride	1.0 U	1.0	1	09/25/24 17:08	
Chlorobenzene	1.0 U	1.0	1	09/25/24 17:08	
Chloroethane	1.0 U	1.0	1	09/25/24 17:08	
Chloroform	1.0 U	1.0	1	09/25/24 17:08	
Chloromethane	1.0 U	1.0	1	09/25/24 17:08	
Cyclohexane	1.0 U	1.0	1	09/25/24 17:08	
Dibromochloromethane	1.0 U	1.0	1	09/25/24 17:08	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/25/24 17:08	
Dichloromethane	1.0 U	1.0	1	09/25/24 17:08	
Ethylbenzene	1.0 U	1.0	1	09/25/24 17:08	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/25/24 17:08	
Methyl Acetate	2.0 U	2.0	1	09/25/24 17:08	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/25/24 17:08	
Methylcyclohexane	1.0 U	1.0	1	09/25/24 17:08	
Styrene	1.0 U	1.0	1	09/25/24 17:08	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/25/24 17:08	
Toluene	1.0 U	1.0	1	09/25/24 17:08	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: RQ2412152-03

Service Request: R2409305
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	09/25/24 17:08	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/25/24 17:08	
Vinyl Chloride	1.0 U	1.0	1	09/25/24 17:08	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/25/24 17:08	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 17:08	
m,p-Xylenes	2.0 U	2.0	1	09/25/24 17:08	
o-Xylene	1.0 U	1.0	1	09/25/24 17:08	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/25/24 17:08	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/25/24 17:08	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	09/25/24 17:08	
Dibromofluoromethane	99	80 - 116	09/25/24 17:08	
Toluene-d8	100	87 - 121	09/25/24 17:08	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ2412179-03

Service Request: R2409305
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/26/24 11:35	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/26/24 11:35	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/26/24 11:35	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/26/24 11:35	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/26/24 11:35	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/26/24 11:35	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/26/24 11:35	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/26/24 11:35	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/26/24 11:35	
1,2-Dibromoethane	1.0 U	1.0	1	09/26/24 11:35	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/26/24 11:35	
1,2-Dichloroethane	1.0 U	1.0	1	09/26/24 11:35	
1,2-Dichloropropane	1.0 U	1.0	1	09/26/24 11:35	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/26/24 11:35	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/26/24 11:35	
1,4-Dioxane	40 U	40	1	09/26/24 11:35	
2-Butanone (MEK)	5.0 U	5.0	1	09/26/24 11:35	
2-Hexanone	5.0 U	5.0	1	09/26/24 11:35	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/26/24 11:35	
Acetone	5.0 U	5.0	1	09/26/24 11:35	
Benzene	1.0 U	1.0	1	09/26/24 11:35	
Bromochloromethane	1.0 U	1.0	1	09/26/24 11:35	
Bromodichloromethane	1.0 U	1.0	1	09/26/24 11:35	
Bromoform	1.0 U	1.0	1	09/26/24 11:35	
Bromomethane	1.0 U	1.0	1	09/26/24 11:35	
Carbon Disulfide	1.0 U	1.0	1	09/26/24 11:35	
Carbon Tetrachloride	1.0 U	1.0	1	09/26/24 11:35	
Chlorobenzene	1.0 U	1.0	1	09/26/24 11:35	
Chloroethane	1.0 U	1.0	1	09/26/24 11:35	
Chloroform	1.0 U	1.0	1	09/26/24 11:35	
Chloromethane	1.0 U	1.0	1	09/26/24 11:35	
Cyclohexane	1.0 U	1.0	1	09/26/24 11:35	
Dibromochloromethane	1.0 U	1.0	1	09/26/24 11:35	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/26/24 11:35	
Dichloromethane	1.0 U	1.0	1	09/26/24 11:35	
Ethylbenzene	1.0 U	1.0	1	09/26/24 11:35	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/26/24 11:35	
Methyl Acetate	2.0 U	2.0	1	09/26/24 11:35	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/26/24 11:35	
Methylcyclohexane	1.0 U	1.0	1	09/26/24 11:35	
Styrene	1.0 U	1.0	1	09/26/24 11:35	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/26/24 11:35	
Toluene	1.0 U	1.0	1	09/26/24 11:35	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: RQ2412179-03

Service Request: R2409305
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	09/26/24 11:35	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/26/24 11:35	
Vinyl Chloride	1.0 U	1.0	1	09/26/24 11:35	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/26/24 11:35	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 11:35	
m,p-Xylenes	2.0 U	2.0	1	09/26/24 11:35	
o-Xylene	1.0 U	1.0	1	09/26/24 11:35	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/26/24 11:35	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/26/24 11:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	09/26/24 11:35	
Dibromofluoromethane	100	80 - 116	09/26/24 11:35	
Toluene-d8	104	87 - 121	09/26/24 11:35	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: RQ2412274-04

Service Request: R2409305
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	09/27/24 12:18	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	09/27/24 12:18	
1,1,2-Trichloroethane	1.0 U	1.0	1	09/27/24 12:18	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	09/27/24 12:18	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	09/27/24 12:18	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	09/27/24 12:18	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	09/27/24 12:18	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	09/27/24 12:18	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	09/27/24 12:18	
1,2-Dibromoethane	1.0 U	1.0	1	09/27/24 12:18	
1,2-Dichlorobenzene	1.0 U	1.0	1	09/27/24 12:18	
1,2-Dichloroethane	1.0 U	1.0	1	09/27/24 12:18	
1,2-Dichloropropane	1.0 U	1.0	1	09/27/24 12:18	
1,3-Dichlorobenzene	1.0 U	1.0	1	09/27/24 12:18	
1,4-Dichlorobenzene	1.0 U	1.0	1	09/27/24 12:18	
1,4-Dioxane	40 U	40	1	09/27/24 12:18	
2-Butanone (MEK)	5.0 U	5.0	1	09/27/24 12:18	
2-Hexanone	5.0 U	5.0	1	09/27/24 12:18	
4-Methyl-2-pentanone	5.0 U	5.0	1	09/27/24 12:18	
Acetone	5.0 U	5.0	1	09/27/24 12:18	
Benzene	1.0 U	1.0	1	09/27/24 12:18	
Bromochloromethane	1.0 U	1.0	1	09/27/24 12:18	
Bromodichloromethane	1.0 U	1.0	1	09/27/24 12:18	
Bromoform	1.0 U	1.0	1	09/27/24 12:18	
Bromomethane	1.0 U	1.0	1	09/27/24 12:18	
Carbon Disulfide	1.0 U	1.0	1	09/27/24 12:18	
Carbon Tetrachloride	1.0 U	1.0	1	09/27/24 12:18	
Chlorobenzene	1.0 U	1.0	1	09/27/24 12:18	
Chloroethane	1.0 U	1.0	1	09/27/24 12:18	
Chloroform	1.0 U	1.0	1	09/27/24 12:18	
Chloromethane	1.0 U	1.0	1	09/27/24 12:18	
Cyclohexane	1.0 U	1.0	1	09/27/24 12:18	
Dibromochloromethane	1.0 U	1.0	1	09/27/24 12:18	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	09/27/24 12:18	
Dichloromethane	1.0 U	1.0	1	09/27/24 12:18	
Ethylbenzene	1.0 U	1.0	1	09/27/24 12:18	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	09/27/24 12:18	
Methyl Acetate	2.0 U	2.0	1	09/27/24 12:18	
Methyl tert-Butyl Ether	1.0 U	1.0	1	09/27/24 12:18	
Methylcyclohexane	1.0 U	1.0	1	09/27/24 12:18	
Styrene	1.0 U	1.0	1	09/27/24 12:18	
Tetrachloroethene (PCE)	1.0 U	1.0	1	09/27/24 12:18	
Toluene	1.0 U	1.0	1	09/27/24 12:18	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: RQ2412274-04

Service Request: R2409305
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	09/27/24 12:18	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	09/27/24 12:18	
Vinyl Chloride	1.0 U	1.0	1	09/27/24 12:18	
cis-1,2-Dichloroethene	1.0 U	1.0	1	09/27/24 12:18	
cis-1,3-Dichloropropene	1.0 U	1.0	1	09/27/24 12:18	
m,p-Xylenes	2.0 U	2.0	1	09/27/24 12:18	
o-Xylene	1.0 U	1.0	1	09/27/24 12:18	
trans-1,2-Dichloroethene	1.0 U	1.0	1	09/27/24 12:18	
trans-1,3-Dichloropropene	1.0 U	1.0	1	09/27/24 12:18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	09/27/24 12:18	
Dibromofluoromethane	98	80 - 116	09/27/24 12:18	
Toluene-d8	99	87 - 121	09/27/24 12:18	

ALS Group USA, Corp.
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QA/QC Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Analyzed: 09/25/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2412152-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260D	20.5	20.0	102	75-125
1,1,2,2-Tetrachloroethane	8260D	20.0	20.0	100	78-126
1,1,2-Trichloroethane	8260D	20.4	20.0	102	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260D	19.9	20.0	100	67-124
1,1-Dichloroethane (1,1-DCA)	8260D	19.8	20.0	99	80-124
1,1-Dichloroethene (1,1-DCE)	8260D	20.6	20.0	103	71-118
1,2,3-Trichlorobenzene	8260D	21.8	20.0	109	67-136
1,2,4-Trichlorobenzene	8260D	21.6	20.0	108	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260D	23.5	20.0	117	55-136
1,2-Dibromoethane	8260D	21.3	20.0	106	82-127
1,2-Dichlorobenzene	8260D	20.6	20.0	103	80-119
1,2-Dichloroethane	8260D	19.5	20.0	98	71-127
1,2-Dichloropropane	8260D	19.7	20.0	99	80-119
1,3-Dichlorobenzene	8260D	21.2	20.0	106	83-121
1,4-Dichlorobenzene	8260D	21.2	20.0	106	79-119
1,4-Dioxane	8260D	413	400	103	44-154
2-Butanone (MEK)	8260D	18.4	20.0	92	61-137
2-Hexanone	8260D	19.8	20.0	99	63-124
4-Methyl-2-pentanone	8260D	19.5	20.0	98	66-124
Acetone	8260D	16.1	20.0	81	40-161
Benzene	8260D	20.3	20.0	102	79-119
Bromochloromethane	8260D	20.2	20.0	101	81-126
Bromodichloromethane	8260D	21.0	20.0	105	81-123
Bromoform	8260D	24.3	20.0	121	65-146
Bromomethane	8260D	20.3	20.0	101	42-166
Carbon Disulfide	8260D	19.0	20.0	95	66-128
Carbon Tetrachloride	8260D	20.6	20.0	103	70-127
Chlorobenzene	8260D	20.4	20.0	102	80-121
Chloroethane	8260D	19.4	20.0	97	62-131
Chloroform	8260D	20.3	20.0	102	79-120
Chloromethane	8260D	22.2	20.0	111	61-143
Cyclohexane	8260D	17.8	20.0	89	69-120
Dibromochloromethane	8260D	21.7	20.0	109	72-128

ALS Group USA, Corp.
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QA/QC Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Analyzed: 09/25/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2412152-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260D	26.7	20.0	134	59-155
Dichloromethane	8260D	20.4	20.0	102	73-122
Ethylbenzene	8260D	20.9	20.0	104	76-120
Isopropylbenzene (Cumene)	8260D	22.1	20.0	110	77-128
Methyl Acetate	8260D	17.6	20.0	88	44-93
Methyl tert-Butyl Ether	8260D	20.1	20.0	101	75-118
Methylcyclohexane	8260D	18.7	20.0	93	51-129
Styrene	8260D	21.6	20.0	108	80-124
Tetrachloroethene (PCE)	8260D	20.8	20.0	104	72-125
Toluene	8260D	20.4	20.0	102	79-119
Trichloroethene (TCE)	8260D	20.8	20.0	104	74-122
Trichlorofluoromethane (CFC 11)	8260D	20.3	20.0	101	71-136
Vinyl Chloride	8260D	21.1	20.0	106	74-159
cis-1,2-Dichloroethene	8260D	22.4	20.0	112	80-121
cis-1,3-Dichloropropene	8260D	21.1	20.0	106	77-122
m,p-Xylenes	8260D	41.8	40.0	104	80-126
o-Xylene	8260D	20.6	20.0	103	79-123
trans-1,2-Dichloroethene	8260D	18.6	20.0	93	73-118
trans-1,3-Dichloropropene	8260D	22.0	20.0	110	71-133

ALS Group USA, Corp.
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QA/QC Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Analyzed: 09/26/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2412179-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260D	19.3	20.0	97	75-125
1,1,2,2-Tetrachloroethane	8260D	18.3	20.0	91	78-126
1,1,2-Trichloroethane	8260D	19.6	20.0	98	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260D	19.0	20.0	95	67-124
1,1-Dichloroethane (1,1-DCA)	8260D	18.1	20.0	90	80-124
1,1-Dichloroethene (1,1-DCE)	8260D	18.9	20.0	94	71-118
1,2,3-Trichlorobenzene	8260D	20.3	20.0	102	67-136
1,2,4-Trichlorobenzene	8260D	19.5	20.0	97	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260D	20.4	20.0	102	55-136
1,2-Dibromoethane	8260D	19.3	20.0	97	82-127
1,2-Dichlorobenzene	8260D	19.0	20.0	95	80-119
1,2-Dichloroethane	8260D	18.6	20.0	93	71-127
1,2-Dichloropropane	8260D	17.9	20.0	90	80-119
1,3-Dichlorobenzene	8260D	19.3	20.0	96	83-121
1,4-Dichlorobenzene	8260D	19.3	20.0	96	79-119
1,4-Dioxane	8260D	385	400	96	44-154
2-Butanone (MEK)	8260D	18.2	20.0	91	61-137
2-Hexanone	8260D	18.0	20.0	90	63-124
4-Methyl-2-pentanone	8260D	18.6	20.0	93	66-124
Acetone	8260D	14.3	20.0	71	40-161
Benzene	8260D	18.7	20.0	94	79-119
Bromochloromethane	8260D	19.5	20.0	97	81-126
Bromodichloromethane	8260D	19.5	20.0	98	81-123
Bromoform	8260D	22.1	20.0	110	65-146
Bromomethane	8260D	19.3	20.0	96	42-166
Carbon Disulfide	8260D	19.1	20.0	96	66-128
Carbon Tetrachloride	8260D	19.4	20.0	97	70-127
Chlorobenzene	8260D	18.4	20.0	92	80-121
Chloroethane	8260D	18.1	20.0	91	62-131
Chloroform	8260D	19.0	20.0	95	79-120
Chloromethane	8260D	20.3	20.0	101	61-143
Cyclohexane	8260D	15.5	20.0	78	69-120
Dibromochloromethane	8260D	19.9	20.0	100	72-128

ALS Group USA, Corp.
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QA/QC Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Analyzed: 09/26/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2412179-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260D	25.3	20.0	127	59-155
Dichloromethane	8260D	19.6	20.0	98	73-122
Ethylbenzene	8260D	18.5	20.0	92	76-120
Isopropylbenzene (Cumene)	8260D	19.9	20.0	100	77-128
Methyl Acetate	8260D	16.6	20.0	83	44-93
Methyl tert-Butyl Ether	8260D	18.6	20.0	93	75-118
Methylcyclohexane	8260D	16.9	20.0	84	51-129
Styrene	8260D	20.0	20.0	100	80-124
Tetrachloroethene (PCE)	8260D	18.5	20.0	93	72-125
Toluene	8260D	18.7	20.0	94	79-119
Trichloroethene (TCE)	8260D	19.2	20.0	96	74-122
Trichlorofluoromethane (CFC 11)	8260D	19.2	20.0	96	71-136
Vinyl Chloride	8260D	19.3	20.0	96	74-159
cis-1,2-Dichloroethene	8260D	20.9	20.0	105	80-121
cis-1,3-Dichloropropene	8260D	19.9	20.0	99	77-122
m,p-Xylenes	8260D	38.0	40.0	95	80-126
o-Xylene	8260D	18.7	20.0	94	79-123
trans-1,2-Dichloroethene	8260D	18.0	20.0	90	73-118
trans-1,3-Dichloropropene	8260D	20.8	20.0	104	71-133

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Analyzed: 09/27/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2412274-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260D	18.4	20.0	92	75-125
1,1,2,2-Tetrachloroethane	8260D	17.9	20.0	89	78-126
1,1,2-Trichloroethane	8260D	18.8	20.0	94	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260D	17.9	20.0	89	67-124
1,1-Dichloroethane (1,1-DCA)	8260D	17.5	20.0	88	80-124
1,1-Dichloroethene (1,1-DCE)	8260D	18.3	20.0	91	71-118
1,2,3-Trichlorobenzene	8260D	20.3	20.0	102	67-136
1,2,4-Trichlorobenzene	8260D	19.5	20.0	97	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260D	19.9	20.0	99	55-136
1,2-Dibromoethane	8260D	19.2	20.0	96	82-127
1,2-Dichlorobenzene	8260D	18.7	20.0	93	80-119
1,2-Dichloroethane	8260D	18.2	20.0	91	71-127
1,2-Dichloropropane	8260D	17.4	20.0	87	80-119
1,3-Dichlorobenzene	8260D	19.1	20.0	95	83-121
1,4-Dichlorobenzene	8260D	19.2	20.0	96	79-119
1,4-Dioxane	8260D	375	400	94	44-154
2-Butanone (MEK)	8260D	16.2	20.0	81	61-137
2-Hexanone	8260D	17.3	20.0	86	63-124
4-Methyl-2-pentanone	8260D	17.9	20.0	89	66-124
Acetone	8260D	13.8	20.0	69	40-161
Benzene	8260D	17.7	20.0	89	79-119
Bromochloromethane	8260D	18.8	20.0	94	81-126
Bromodichloromethane	8260D	18.7	20.0	94	81-123
Bromoform	8260D	21.8	20.0	109	65-146
Bromomethane	8260D	18.2	20.0	91	42-166
Carbon Disulfide	8260D	18.4	20.0	92	66-128
Carbon Tetrachloride	8260D	18.4	20.0	92	70-127
Chlorobenzene	8260D	17.8	20.0	89	80-121
Chloroethane	8260D	16.4	20.0	82	62-131
Chloroform	8260D	18.0	20.0	90	79-120
Chloromethane	8260D	18.8	20.0	94	61-143
Cyclohexane	8260D	16.6	20.0	83	69-120
Dibromochloromethane	8260D	19.5	20.0	97	72-128

ALS Group USA, Corp.
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QA/QC Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2409305
Date Analyzed: 09/27/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2412274-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260D	24.2	20.0	121	59-155
Dichloromethane	8260D	18.2	20.0	91	73-122
Ethylbenzene	8260D	18.2	20.0	91	76-120
Isopropylbenzene (Cumene)	8260D	19.6	20.0	98	77-128
Methyl Acetate	8260D	16.6	20.0	83	44-93
Methyl tert-Butyl Ether	8260D	18.0	20.0	90	75-118
Methylcyclohexane	8260D	17.4	20.0	87	51-129
Styrene	8260D	19.3	20.0	96	80-124
Tetrachloroethene (PCE)	8260D	18.3	20.0	91	72-125
Toluene	8260D	18.2	20.0	91	79-119
Trichloroethene (TCE)	8260D	18.3	20.0	92	74-122
Trichlorofluoromethane (CFC 11)	8260D	18.6	20.0	93	71-136
Vinyl Chloride	8260D	18.2	20.0	91	74-159
cis-1,2-Dichloroethene	8260D	19.9	20.0	99	80-121
cis-1,3-Dichloropropene	8260D	19.1	20.0	96	77-122
m,p-Xylenes	8260D	37.0	40.0	92	80-126
o-Xylene	8260D	17.9	20.0	90	79-123
trans-1,2-Dichloroethene	8260D	16.3	20.0	81	73-118
trans-1,3-Dichloropropene	8260D	20.0	20.0	100	71-133

DECEMBER 2024
LABORATORY RESULTS



January 09, 2025

Service Request No:R2413334

Justin O'Brien
Colliers Engineering & Design
71 State St Suite 104
Binghamton, NY 13901

Laboratory Results for: Gowanda

Dear Justin,

Enclosed are the results of the sample(s) submitted to our laboratory December 21, 2024
For your reference, these analyses have been assigned our service request number **R2413334**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7476. You may also contact me via email at Chris.Leavy@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

A handwritten signature in black ink, appearing to read 'Chris Leavy'.

Christopher Leavy
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda
Sample Matrix: Water

Service Request: R2413334

Date Received: 12/21/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Twenty nine water samples were received for analysis at ALS Environmental on 12/21/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Volatiles by GC/MS:

Method 8260D, 01/03/2025: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260D, 01/03/2025: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Approved by  _____

Date 01/09/2025



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MW-19R				Lab ID: R2413334-017		
Analyte	Results	Flag	MDL	MRL	Units	Method
Acetone	5.8			5.0	ug/L	8260D

CLIENT ID: MW-1				Lab ID: R2413334-001		
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	64			1.0	ug/L	8260D
trans-1,2-Dichloroethene	2.7			1.0	ug/L	8260D
Trichloroethene (TCE)	200			1.0	ug/L	8260D

CLIENT ID: MW-2				Lab ID: R2413334-002		
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	1.2			1.0	ug/L	8260D

CLIENT ID: MW-6				Lab ID: R2413334-005		
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	35			1.0	ug/L	8260D
Vinyl Chloride	53			1.0	ug/L	8260D

CLIENT ID: MW-7				Lab ID: R2413334-006		
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	27			1.0	ug/L	8260D

CLIENT ID: MW-11				Lab ID: R2413334-010		
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	190			2.0	ug/L	8260D
trans-1,2-Dichloroethene	9.7			2.0	ug/L	8260D
Trichloroethene (TCE)	250			2.0	ug/L	8260D
Vinyl Chloride	4.3			2.0	ug/L	8260D

CLIENT ID: MW-12				Lab ID: R2413334-011		
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	40			1.0	ug/L	8260D
trans-1,2-Dichloroethene	1.1			1.0	ug/L	8260D
Trichloroethene (TCE)	17			1.0	ug/L	8260D

CLIENT ID: MW-14				Lab ID: R2413334-013		
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	44			1.0	ug/L	8260D
Trichloroethene (TCE)	9.1			1.0	ug/L	8260D

CLIENT ID: MW-15				Lab ID: R2413334-014		
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	1.2			1.0	ug/L	8260D
Trichloroethene (TCE)	4.1			1.0	ug/L	8260D



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MW-17		Lab ID: R2413334-015				
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	76			1.0	ug/L	8260D
Trichloroethene (TCE)	5.2			1.0	ug/L	8260D
CLIENT ID: MW-18		Lab ID: R2413334-016				
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	6.1			1.0	ug/L	8260D
Trichloroethene (TCE)	3.3			1.0	ug/L	8260D
CLIENT ID: MW-21		Lab ID: R2413334-019				
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	12			1.0	ug/L	8260D
CLIENT ID: DR-1		Lab ID: R2413334-020				
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	64			2.0	ug/L	8260D
trans-1,2-Dichloroethene	3.5			2.0	ug/L	8260D
Trichloroethene (TCE)	300			2.0	ug/L	8260D
Vinyl Chloride	4.8			2.0	ug/L	8260D
CLIENT ID: DR-2		Lab ID: R2413334-021				
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	88			1.0	ug/L	8260D
Trichloroethene (TCE)	14			1.0	ug/L	8260D
Vinyl Chloride	4.1			1.0	ug/L	8260D
CLIENT ID: DR-3		Lab ID: R2413334-022				
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	42			1.0	ug/L	8260D
Trichloroethene (TCE)	22			1.0	ug/L	8260D
CLIENT ID: DR-4		Lab ID: R2413334-023				
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	6.7			1.0	ug/L	8260D
Trichloroethene (TCE)	19			1.0	ug/L	8260D
CLIENT ID: G-1		Lab ID: R2413334-024				
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	54			1.0	ug/L	8260D
Trichloroethene (TCE)	5.4			1.0	ug/L	8260D
Vinyl Chloride	1.0			1.0	ug/L	8260D
CLIENT ID: G-2		Lab ID: R2413334-025				
Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	33			1.0	ug/L	8260D



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: G-3	Lab ID: R2413334-026

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	150			1.0	ug/L	8260D
trans-1,2-Dichloroethene	1.4			1.0	ug/L	8260D
Trichloroethene (TCE)	16			1.0	ug/L	8260D

CLIENT ID: MW-X	Lab ID: R2413334-027

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	71			1.0	ug/L	8260D
trans-1,2-Dichloroethene	2.1			1.0	ug/L	8260D
Trichloroethene (TCE)	170			1.0	ug/L	8260D

CLIENT ID: MW-5	Lab ID: R2413334-004

Analyte	Results	Flag	MDL	MRL	Units	Method
Trichloroethene (TCE)	2.4			1.0	ug/L	8260D

CLIENT ID: MW-9	Lab ID: R2413334-008

Analyte	Results	Flag	MDL	MRL	Units	Method
Trichloroethene (TCE)	1.4			1.0	ug/L	8260D



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96

Service Request:R2413334

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2413334-001	MW-1	12/20/2024	1238
R2413334-002	MW-2	12/20/2024	1314
R2413334-003	MW-4	12/20/2024	1352
R2413334-004	MW-5	12/20/2024	1133
R2413334-005	MW-6	12/20/2024	1050
R2413334-006	MW-7	12/20/2024	0720
R2413334-007	MW-8	12/20/2024	1215
R2413334-008	MW-9	12/20/2024	1226
R2413334-009	MW-10	12/20/2024	1340
R2413334-010	MW-11	12/20/2024	1010
R2413334-011	MW-12	12/20/2024	1016
R2413334-012	MW-13	12/20/2024	1021
R2413334-013	MW-14	12/20/2024	1542
R2413334-014	MW-15	12/20/2024	1445
R2413334-015	MW-17	12/20/2024	0830
R2413334-016	MW-18	12/20/2024	1137
R2413334-017	MW-19R	12/20/2024	1406
R2413334-018	MW-20	12/20/2024	1242
R2413334-019	MW-21	12/20/2024	1430
R2413334-020	DR-1	12/20/2024	0920
R2413334-021	DR-2	12/20/2024	1700
R2413334-022	DR-3	12/20/2024	1615
R2413334-023	DR-4	12/20/2024	1525
R2413334-024	G-1	12/20/2024	1415
R2413334-025	G-2	12/20/2024	1330
R2413334-026	G-3	12/20/2024	0750
R2413334-027	MW-X	12/20/2024	
R2413334-028	EB	12/20/2024	1230
R2413334-029	Trip Blank	12/20/2024	

WFSB



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Texas ID#T104704581
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to <https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx>.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96

Service Request: R2413334

Sample Name: MW-1
Lab Code: R2413334-001
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-2
Lab Code: R2413334-002
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-4
Lab Code: R2413334-003
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-5
Lab Code: R2413334-004
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-6
Lab Code: R2413334-005
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
FNAEGLER

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96

Service Request: R2413334

Sample Name: MW-7
Lab Code: R2413334-006
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-8
Lab Code: R2413334-007
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-9
Lab Code: R2413334-008
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-10
Lab Code: R2413334-009
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-11
Lab Code: R2413334-010
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
FNAEGLER

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96

Service Request: R2413334

Sample Name: MW-12
Lab Code: R2413334-011
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-13
Lab Code: R2413334-012
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-14
Lab Code: R2413334-013
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-15
Lab Code: R2413334-014
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-17
Lab Code: R2413334-015
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
AMOSSES

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96

Service Request: R2413334

Sample Name: MW-18
Lab Code: R2413334-016
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-19R
Lab Code: R2413334-017
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-20
Lab Code: R2413334-018
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW-21
Lab Code: R2413334-019
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
AMOSSES

Sample Name: DR-1
Lab Code: R2413334-020
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
AMOSSES

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96

Service Request: R2413334

Sample Name: DR-2
Lab Code: R2413334-021
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
AMOSSES

Sample Name: DR-3
Lab Code: R2413334-022
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
AMOSSES

Sample Name: DR-4
Lab Code: R2413334-023
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
AMOSSES

Sample Name: G-1
Lab Code: R2413334-024
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
AMOSSES

Sample Name: G-2
Lab Code: R2413334-025
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
AMOSSES

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96

Service Request: R2413334

Sample Name: G-3
Lab Code: R2413334-026
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
AMOSSES

Sample Name: MW-X
Lab Code: R2413334-027
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
AMOSSES

Sample Name: EB
Lab Code: R2413334-028
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
AMOSSES

Sample Name: Trip Blank
Lab Code: R2413334-029
Sample Matrix: Water

Date Collected: 12/20/24
Date Received: 12/21/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
AMOSSES



PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

INORGANIC

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C or 6010D	3005A/3010A
6020A or 6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C or 6010D	3050B
6020A or 6020B	3050B
6010C or 6010D TCLP (1311) extract	3005A/3010A
6010C or 6010D SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":

For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.



Sample Results

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 12:38
Date Received: 12/21/24 11:00

Sample Name: MW-1
Lab Code: R2413334-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 00:46	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 00:46	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 00:46	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 00:46	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 00:46	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 00:46	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 00:46	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 00:46	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 00:46	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 00:46	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 00:46	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 00:46	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 00:46	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 00:46	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 00:46	
1,4-Dioxane	40 U	40	1	01/03/25 00:46	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 00:46	
2-Hexanone	5.0 U	5.0	1	01/03/25 00:46	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 00:46	
Acetone	5.0 U	5.0	1	01/03/25 00:46	
Benzene	1.0 U	1.0	1	01/03/25 00:46	
Bromochloromethane	1.0 U	1.0	1	01/03/25 00:46	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 00:46	
Bromoform	1.0 U	1.0	1	01/03/25 00:46	
Bromomethane	1.0 U	1.0	1	01/03/25 00:46	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 00:46	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 00:46	
Chlorobenzene	1.0 U	1.0	1	01/03/25 00:46	
Chloroethane	1.0 U	1.0	1	01/03/25 00:46	
Chloroform	1.0 U	1.0	1	01/03/25 00:46	
Chloromethane	1.0 U	1.0	1	01/03/25 00:46	
Cyclohexane	1.0 U	1.0	1	01/03/25 00:46	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 00:46	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 00:46	
Dichloromethane	1.0 U	1.0	1	01/03/25 00:46	
Ethylbenzene	1.0 U	1.0	1	01/03/25 00:46	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 00:46	
Methyl Acetate	2.0 U	2.0	1	01/03/25 00:46	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 00:46	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 00:46	
Styrene	1.0 U	1.0	1	01/03/25 00:46	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 00:46	
Toluene	1.0 U	1.0	1	01/03/25 00:46	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-1
Lab Code: R2413334-001

Service Request: R2413334
Date Collected: 12/20/24 12:38
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	200	1.0	1	01/03/25 00:46	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 00:46	
Vinyl Chloride	1.0 U	1.0	1	01/03/25 00:46	
cis-1,2-Dichloroethene	64	1.0	1	01/03/25 00:46	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 00:46	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 00:46	
o-Xylene	1.0 U	1.0	1	01/03/25 00:46	
trans-1,2-Dichloroethene	2.7	1.0	1	01/03/25 00:46	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 00:46	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	01/03/25 00:46	
Dibromofluoromethane	97	80 - 116	01/03/25 00:46	
Toluene-d8	99	87 - 121	01/03/25 00:46	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 13:14
Date Received: 12/21/24 11:00

Sample Name: MW-2
Lab Code: R2413334-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 01:08	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 01:08	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 01:08	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 01:08	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 01:08	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 01:08	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 01:08	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 01:08	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 01:08	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 01:08	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 01:08	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 01:08	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 01:08	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 01:08	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 01:08	
1,4-Dioxane	40 U	40	1	01/03/25 01:08	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 01:08	
2-Hexanone	5.0 U	5.0	1	01/03/25 01:08	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 01:08	
Acetone	5.0 U	5.0	1	01/03/25 01:08	
Benzene	1.0 U	1.0	1	01/03/25 01:08	
Bromochloromethane	1.0 U	1.0	1	01/03/25 01:08	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 01:08	
Bromoform	1.0 U	1.0	1	01/03/25 01:08	
Bromomethane	1.0 U	1.0	1	01/03/25 01:08	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 01:08	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 01:08	
Chlorobenzene	1.0 U	1.0	1	01/03/25 01:08	
Chloroethane	1.0 U	1.0	1	01/03/25 01:08	
Chloroform	1.0 U	1.0	1	01/03/25 01:08	
Chloromethane	1.0 U	1.0	1	01/03/25 01:08	
Cyclohexane	1.0 U	1.0	1	01/03/25 01:08	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 01:08	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 01:08	
Dichloromethane	1.0 U	1.0	1	01/03/25 01:08	
Ethylbenzene	1.0 U	1.0	1	01/03/25 01:08	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 01:08	
Methyl Acetate	2.0 U	2.0	1	01/03/25 01:08	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 01:08	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 01:08	
Styrene	1.0 U	1.0	1	01/03/25 01:08	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 01:08	
Toluene	1.0 U	1.0	1	01/03/25 01:08	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-2
Lab Code: R2413334-002

Service Request: R2413334
Date Collected: 12/20/24 13:14
Date Received: 12/21/24 11:00

Units: ug/L

Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	01/03/25 01:08	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 01:08	
Vinyl Chloride	1.0 U	1.0	1	01/03/25 01:08	
cis-1,2-Dichloroethene	1.2	1.0	1	01/03/25 01:08	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 01:08	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 01:08	
o-Xylene	1.0 U	1.0	1	01/03/25 01:08	
trans-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 01:08	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 01:08	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	01/03/25 01:08	
Dibromofluoromethane	97	80 - 116	01/03/25 01:08	
Toluene-d8	100	87 - 121	01/03/25 01:08	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 13:52
Date Received: 12/21/24 11:00

Sample Name: MW-4
Lab Code: R2413334-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 01:31	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 01:31	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 01:31	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 01:31	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 01:31	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 01:31	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 01:31	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 01:31	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 01:31	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 01:31	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 01:31	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 01:31	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 01:31	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 01:31	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 01:31	
1,4-Dioxane	40 U	40	1	01/03/25 01:31	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 01:31	
2-Hexanone	5.0 U	5.0	1	01/03/25 01:31	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 01:31	
Acetone	5.0 U	5.0	1	01/03/25 01:31	
Benzene	1.0 U	1.0	1	01/03/25 01:31	
Bromochloromethane	1.0 U	1.0	1	01/03/25 01:31	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 01:31	
Bromoform	1.0 U	1.0	1	01/03/25 01:31	
Bromomethane	1.0 U	1.0	1	01/03/25 01:31	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 01:31	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 01:31	
Chlorobenzene	1.0 U	1.0	1	01/03/25 01:31	
Chloroethane	1.0 U	1.0	1	01/03/25 01:31	
Chloroform	1.0 U	1.0	1	01/03/25 01:31	
Chloromethane	1.0 U	1.0	1	01/03/25 01:31	
Cyclohexane	1.0 U	1.0	1	01/03/25 01:31	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 01:31	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 01:31	
Dichloromethane	1.0 U	1.0	1	01/03/25 01:31	
Ethylbenzene	1.0 U	1.0	1	01/03/25 01:31	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 01:31	
Methyl Acetate	2.0 U	2.0	1	01/03/25 01:31	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 01:31	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 01:31	
Styrene	1.0 U	1.0	1	01/03/25 01:31	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 01:31	
Toluene	1.0 U	1.0	1	01/03/25 01:31	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-4
Lab Code: R2413334-003

Service Request: R2413334
Date Collected: 12/20/24 13:52
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	01/03/25 01:31	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 01:31	
Vinyl Chloride	1.0 U	1.0	1	01/03/25 01:31	
cis-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 01:31	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 01:31	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 01:31	
o-Xylene	1.0 U	1.0	1	01/03/25 01:31	
trans-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 01:31	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 01:31	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	01/03/25 01:31	
Dibromofluoromethane	99	80 - 116	01/03/25 01:31	
Toluene-d8	102	87 - 121	01/03/25 01:31	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 11:33
Date Received: 12/21/24 11:00

Sample Name: MW-5
Lab Code: R2413334-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 01:54	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 01:54	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 01:54	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 01:54	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 01:54	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 01:54	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 01:54	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 01:54	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 01:54	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 01:54	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 01:54	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 01:54	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 01:54	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 01:54	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 01:54	
1,4-Dioxane	40 U	40	1	01/03/25 01:54	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 01:54	
2-Hexanone	5.0 U	5.0	1	01/03/25 01:54	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 01:54	
Acetone	5.0 U	5.0	1	01/03/25 01:54	
Benzene	1.0 U	1.0	1	01/03/25 01:54	
Bromochloromethane	1.0 U	1.0	1	01/03/25 01:54	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 01:54	
Bromoform	1.0 U	1.0	1	01/03/25 01:54	
Bromomethane	1.0 U	1.0	1	01/03/25 01:54	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 01:54	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 01:54	
Chlorobenzene	1.0 U	1.0	1	01/03/25 01:54	
Chloroethane	1.0 U	1.0	1	01/03/25 01:54	
Chloroform	1.0 U	1.0	1	01/03/25 01:54	
Chloromethane	1.0 U	1.0	1	01/03/25 01:54	
Cyclohexane	1.0 U	1.0	1	01/03/25 01:54	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 01:54	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 01:54	
Dichloromethane	1.0 U	1.0	1	01/03/25 01:54	
Ethylbenzene	1.0 U	1.0	1	01/03/25 01:54	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 01:54	
Methyl Acetate	2.0 U	2.0	1	01/03/25 01:54	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 01:54	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 01:54	
Styrene	1.0 U	1.0	1	01/03/25 01:54	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 01:54	
Toluene	1.0 U	1.0	1	01/03/25 01:54	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-5
Lab Code: R2413334-004

Service Request: R2413334
Date Collected: 12/20/24 11:33
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	2.4	1.0	1	01/03/25 01:54	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 01:54	
Vinyl Chloride	1.0 U	1.0	1	01/03/25 01:54	
cis-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 01:54	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 01:54	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 01:54	
o-Xylene	1.0 U	1.0	1	01/03/25 01:54	
trans-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 01:54	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 01:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	01/03/25 01:54	
Dibromofluoromethane	98	80 - 116	01/03/25 01:54	
Toluene-d8	101	87 - 121	01/03/25 01:54	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 10:50
Date Received: 12/21/24 11:00

Sample Name: MW-6
Lab Code: R2413334-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 02:17	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 02:17	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 02:17	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 02:17	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 02:17	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 02:17	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 02:17	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 02:17	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 02:17	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 02:17	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 02:17	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 02:17	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 02:17	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 02:17	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 02:17	
1,4-Dioxane	40 U	40	1	01/03/25 02:17	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 02:17	
2-Hexanone	5.0 U	5.0	1	01/03/25 02:17	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 02:17	
Acetone	5.0 U	5.0	1	01/03/25 02:17	
Benzene	1.0 U	1.0	1	01/03/25 02:17	
Bromochloromethane	1.0 U	1.0	1	01/03/25 02:17	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 02:17	
Bromoform	1.0 U	1.0	1	01/03/25 02:17	
Bromomethane	1.0 U	1.0	1	01/03/25 02:17	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 02:17	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 02:17	
Chlorobenzene	1.0 U	1.0	1	01/03/25 02:17	
Chloroethane	1.0 U	1.0	1	01/03/25 02:17	
Chloroform	1.0 U	1.0	1	01/03/25 02:17	
Chloromethane	1.0 U	1.0	1	01/03/25 02:17	
Cyclohexane	1.0 U	1.0	1	01/03/25 02:17	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 02:17	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 02:17	
Dichloromethane	1.0 U	1.0	1	01/03/25 02:17	
Ethylbenzene	1.0 U	1.0	1	01/03/25 02:17	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 02:17	
Methyl Acetate	2.0 U	2.0	1	01/03/25 02:17	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 02:17	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 02:17	
Styrene	1.0 U	1.0	1	01/03/25 02:17	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 02:17	
Toluene	1.0 U	1.0	1	01/03/25 02:17	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-6
Lab Code: R2413334-005

Service Request: R2413334
Date Collected: 12/20/24 10:50
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	01/03/25 02:17	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 02:17	
Vinyl Chloride	53	1.0	1	01/03/25 02:17	
cis-1,2-Dichloroethene	35	1.0	1	01/03/25 02:17	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 02:17	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 02:17	
o-Xylene	1.0 U	1.0	1	01/03/25 02:17	
trans-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 02:17	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 02:17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	01/03/25 02:17	
Dibromofluoromethane	96	80 - 116	01/03/25 02:17	
Toluene-d8	100	87 - 121	01/03/25 02:17	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 07:20
Date Received: 12/21/24 11:00

Sample Name: MW-7
Lab Code: R2413334-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 02:39	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 02:39	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 02:39	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 02:39	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 02:39	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 02:39	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 02:39	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 02:39	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 02:39	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 02:39	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 02:39	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 02:39	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 02:39	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 02:39	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 02:39	
1,4-Dioxane	40 U	40	1	01/03/25 02:39	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 02:39	
2-Hexanone	5.0 U	5.0	1	01/03/25 02:39	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 02:39	
Acetone	5.0 U	5.0	1	01/03/25 02:39	
Benzene	1.0 U	1.0	1	01/03/25 02:39	
Bromochloromethane	1.0 U	1.0	1	01/03/25 02:39	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 02:39	
Bromoform	1.0 U	1.0	1	01/03/25 02:39	
Bromomethane	1.0 U	1.0	1	01/03/25 02:39	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 02:39	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 02:39	
Chlorobenzene	1.0 U	1.0	1	01/03/25 02:39	
Chloroethane	1.0 U	1.0	1	01/03/25 02:39	
Chloroform	1.0 U	1.0	1	01/03/25 02:39	
Chloromethane	1.0 U	1.0	1	01/03/25 02:39	
Cyclohexane	1.0 U	1.0	1	01/03/25 02:39	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 02:39	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 02:39	
Dichloromethane	1.0 U	1.0	1	01/03/25 02:39	
Ethylbenzene	1.0 U	1.0	1	01/03/25 02:39	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 02:39	
Methyl Acetate	2.0 U	2.0	1	01/03/25 02:39	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 02:39	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 02:39	
Styrene	1.0 U	1.0	1	01/03/25 02:39	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 02:39	
Toluene	1.0 U	1.0	1	01/03/25 02:39	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-7
Lab Code: R2413334-006

Service Request: R2413334
Date Collected: 12/20/24 07:20
Date Received: 12/21/24 11:00

Units: ug/L

Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	01/03/25 02:39	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 02:39	
Vinyl Chloride	1.0 U	1.0	1	01/03/25 02:39	
cis-1,2-Dichloroethene	27	1.0	1	01/03/25 02:39	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 02:39	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 02:39	
o-Xylene	1.0 U	1.0	1	01/03/25 02:39	
trans-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 02:39	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 02:39	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	01/03/25 02:39	
Dibromofluoromethane	99	80 - 116	01/03/25 02:39	
Toluene-d8	105	87 - 121	01/03/25 02:39	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 12:15
Date Received: 12/21/24 11:00

Sample Name: MW-8
Lab Code: R2413334-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 03:02	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 03:02	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 03:02	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 03:02	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 03:02	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 03:02	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 03:02	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 03:02	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 03:02	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 03:02	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 03:02	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 03:02	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 03:02	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 03:02	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 03:02	
1,4-Dioxane	40 U	40	1	01/03/25 03:02	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 03:02	
2-Hexanone	5.0 U	5.0	1	01/03/25 03:02	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 03:02	
Acetone	5.0 U	5.0	1	01/03/25 03:02	
Benzene	1.0 U	1.0	1	01/03/25 03:02	
Bromochloromethane	1.0 U	1.0	1	01/03/25 03:02	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 03:02	
Bromoform	1.0 U	1.0	1	01/03/25 03:02	
Bromomethane	1.0 U	1.0	1	01/03/25 03:02	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 03:02	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 03:02	
Chlorobenzene	1.0 U	1.0	1	01/03/25 03:02	
Chloroethane	1.0 U	1.0	1	01/03/25 03:02	
Chloroform	1.0 U	1.0	1	01/03/25 03:02	
Chloromethane	1.0 U	1.0	1	01/03/25 03:02	
Cyclohexane	1.0 U	1.0	1	01/03/25 03:02	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 03:02	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 03:02	
Dichloromethane	1.0 U	1.0	1	01/03/25 03:02	
Ethylbenzene	1.0 U	1.0	1	01/03/25 03:02	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 03:02	
Methyl Acetate	2.0 U	2.0	1	01/03/25 03:02	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 03:02	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 03:02	
Styrene	1.0 U	1.0	1	01/03/25 03:02	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 03:02	
Toluene	1.0 U	1.0	1	01/03/25 03:02	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-8
Lab Code: R2413334-007

Service Request: R2413334
Date Collected: 12/20/24 12:15
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	01/03/25 03:02	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 03:02	
Vinyl Chloride	1.0 U	1.0	1	01/03/25 03:02	
cis-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 03:02	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 03:02	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 03:02	
o-Xylene	1.0 U	1.0	1	01/03/25 03:02	
trans-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 03:02	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 03:02	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	01/03/25 03:02	
Dibromofluoromethane	98	80 - 116	01/03/25 03:02	
Toluene-d8	101	87 - 121	01/03/25 03:02	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 12:26
Date Received: 12/21/24 11:00

Sample Name: MW-9
Lab Code: R2413334-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 03:25	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 03:25	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 03:25	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 03:25	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 03:25	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 03:25	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 03:25	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 03:25	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 03:25	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 03:25	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 03:25	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 03:25	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 03:25	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 03:25	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 03:25	
1,4-Dioxane	40 U	40	1	01/03/25 03:25	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 03:25	
2-Hexanone	5.0 U	5.0	1	01/03/25 03:25	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 03:25	
Acetone	5.0 U	5.0	1	01/03/25 03:25	
Benzene	1.0 U	1.0	1	01/03/25 03:25	
Bromochloromethane	1.0 U	1.0	1	01/03/25 03:25	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 03:25	
Bromoform	1.0 U	1.0	1	01/03/25 03:25	
Bromomethane	1.0 U	1.0	1	01/03/25 03:25	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 03:25	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 03:25	
Chlorobenzene	1.0 U	1.0	1	01/03/25 03:25	
Chloroethane	1.0 U	1.0	1	01/03/25 03:25	
Chloroform	1.0 U	1.0	1	01/03/25 03:25	
Chloromethane	1.0 U	1.0	1	01/03/25 03:25	
Cyclohexane	1.0 U	1.0	1	01/03/25 03:25	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 03:25	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 03:25	
Dichloromethane	1.0 U	1.0	1	01/03/25 03:25	
Ethylbenzene	1.0 U	1.0	1	01/03/25 03:25	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 03:25	
Methyl Acetate	2.0 U	2.0	1	01/03/25 03:25	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 03:25	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 03:25	
Styrene	1.0 U	1.0	1	01/03/25 03:25	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 03:25	
Toluene	1.0 U	1.0	1	01/03/25 03:25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-9
Lab Code: R2413334-008

Service Request: R2413334
Date Collected: 12/20/24 12:26
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.4	1.0	1	01/03/25 03:25	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 03:25	
Vinyl Chloride	1.0 U	1.0	1	01/03/25 03:25	
cis-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 03:25	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 03:25	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 03:25	
o-Xylene	1.0 U	1.0	1	01/03/25 03:25	
trans-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 03:25	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 03:25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	01/03/25 03:25	
Dibromofluoromethane	99	80 - 116	01/03/25 03:25	
Toluene-d8	102	87 - 121	01/03/25 03:25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 13:40
Date Received: 12/21/24 11:00

Sample Name: MW-10
Lab Code: R2413334-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 03:47	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 03:47	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 03:47	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 03:47	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 03:47	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 03:47	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 03:47	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 03:47	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 03:47	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 03:47	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 03:47	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 03:47	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 03:47	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 03:47	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 03:47	
1,4-Dioxane	40 U	40	1	01/03/25 03:47	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 03:47	
2-Hexanone	5.0 U	5.0	1	01/03/25 03:47	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 03:47	
Acetone	5.0 U	5.0	1	01/03/25 03:47	
Benzene	1.0 U	1.0	1	01/03/25 03:47	
Bromochloromethane	1.0 U	1.0	1	01/03/25 03:47	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 03:47	
Bromoform	1.0 U	1.0	1	01/03/25 03:47	
Bromomethane	1.0 U	1.0	1	01/03/25 03:47	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 03:47	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 03:47	
Chlorobenzene	1.0 U	1.0	1	01/03/25 03:47	
Chloroethane	1.0 U	1.0	1	01/03/25 03:47	
Chloroform	1.0 U	1.0	1	01/03/25 03:47	
Chloromethane	1.0 U	1.0	1	01/03/25 03:47	
Cyclohexane	1.0 U	1.0	1	01/03/25 03:47	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 03:47	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 03:47	
Dichloromethane	1.0 U	1.0	1	01/03/25 03:47	
Ethylbenzene	1.0 U	1.0	1	01/03/25 03:47	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 03:47	
Methyl Acetate	2.0 U	2.0	1	01/03/25 03:47	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 03:47	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 03:47	
Styrene	1.0 U	1.0	1	01/03/25 03:47	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 03:47	
Toluene	1.0 U	1.0	1	01/03/25 03:47	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-10
Lab Code: R2413334-009

Service Request: R2413334
Date Collected: 12/20/24 13:40
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	01/03/25 03:47	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 03:47	
Vinyl Chloride	1.0 U	1.0	1	01/03/25 03:47	
cis-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 03:47	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 03:47	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 03:47	
o-Xylene	1.0 U	1.0	1	01/03/25 03:47	
trans-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 03:47	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 03:47	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	01/03/25 03:47	
Dibromofluoromethane	94	80 - 116	01/03/25 03:47	
Toluene-d8	96	87 - 121	01/03/25 03:47	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 10:10
Date Received: 12/21/24 11:00

Sample Name: MW-11
Lab Code: R2413334-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	2.0 U	2.0	2	01/03/25 04:10	
1,1,2,2-Tetrachloroethane	2.0 U	2.0	2	01/03/25 04:10	
1,1,2-Trichloroethane	2.0 U	2.0	2	01/03/25 04:10	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0 U	2.0	2	01/03/25 04:10	
1,1-Dichloroethane (1,1-DCA)	2.0 U	2.0	2	01/03/25 04:10	
1,1-Dichloroethene (1,1-DCE)	2.0 U	2.0	2	01/03/25 04:10	
1,2,3-Trichlorobenzene	2.0 U	2.0	2	01/03/25 04:10	
1,2,4-Trichlorobenzene	2.0 U	2.0	2	01/03/25 04:10	
1,2-Dibromo-3-chloropropane (DBCP)	4.0 U	4.0	2	01/03/25 04:10	
1,2-Dibromoethane	2.0 U	2.0	2	01/03/25 04:10	
1,2-Dichlorobenzene	2.0 U	2.0	2	01/03/25 04:10	
1,2-Dichloroethane	2.0 U	2.0	2	01/03/25 04:10	
1,2-Dichloropropane	2.0 U	2.0	2	01/03/25 04:10	
1,3-Dichlorobenzene	2.0 U	2.0	2	01/03/25 04:10	
1,4-Dichlorobenzene	2.0 U	2.0	2	01/03/25 04:10	
1,4-Dioxane	80 U	80	2	01/03/25 04:10	
2-Butanone (MEK)	10 U	10	2	01/03/25 04:10	
2-Hexanone	10 U	10	2	01/03/25 04:10	
4-Methyl-2-pentanone	10 U	10	2	01/03/25 04:10	
Acetone	10 U	10	2	01/03/25 04:10	
Benzene	2.0 U	2.0	2	01/03/25 04:10	
Bromochloromethane	2.0 U	2.0	2	01/03/25 04:10	
Bromodichloromethane	2.0 U	2.0	2	01/03/25 04:10	
Bromoform	2.0 U	2.0	2	01/03/25 04:10	
Bromomethane	2.0 U	2.0	2	01/03/25 04:10	
Carbon Disulfide	2.0 U	2.0	2	01/03/25 04:10	
Carbon Tetrachloride	2.0 U	2.0	2	01/03/25 04:10	
Chlorobenzene	2.0 U	2.0	2	01/03/25 04:10	
Chloroethane	2.0 U	2.0	2	01/03/25 04:10	
Chloroform	2.0 U	2.0	2	01/03/25 04:10	
Chloromethane	2.0 U	2.0	2	01/03/25 04:10	
Cyclohexane	2.0 U	2.0	2	01/03/25 04:10	
Dibromochloromethane	2.0 U	2.0	2	01/03/25 04:10	
Dichlorodifluoromethane (CFC 12)	2.0 U	2.0	2	01/03/25 04:10	
Dichloromethane	2.0 U	2.0	2	01/03/25 04:10	
Ethylbenzene	2.0 U	2.0	2	01/03/25 04:10	
Isopropylbenzene (Cumene)	2.0 U	2.0	2	01/03/25 04:10	
Methyl Acetate	4.0 U	4.0	2	01/03/25 04:10	
Methyl tert-Butyl Ether	2.0 U	2.0	2	01/03/25 04:10	
Methylcyclohexane	2.0 U	2.0	2	01/03/25 04:10	
Styrene	2.0 U	2.0	2	01/03/25 04:10	
Tetrachloroethene (PCE)	2.0 U	2.0	2	01/03/25 04:10	
Toluene	2.0 U	2.0	2	01/03/25 04:10	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-11
Lab Code: R2413334-010

Service Request: R2413334
Date Collected: 12/20/24 10:10
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	250	2.0	2	01/03/25 04:10	
Trichlorofluoromethane (CFC 11)	2.0 U	2.0	2	01/03/25 04:10	
Vinyl Chloride	4.3	2.0	2	01/03/25 04:10	
cis-1,2-Dichloroethene	190	2.0	2	01/03/25 04:10	
cis-1,3-Dichloropropene	2.0 U	2.0	2	01/03/25 04:10	
m,p-Xylenes	4.0 U	4.0	2	01/03/25 04:10	
o-Xylene	2.0 U	2.0	2	01/03/25 04:10	
trans-1,2-Dichloroethene	9.7	2.0	2	01/03/25 04:10	
trans-1,3-Dichloropropene	2.0 U	2.0	2	01/03/25 04:10	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	01/03/25 04:10	
Dibromofluoromethane	97	80 - 116	01/03/25 04:10	
Toluene-d8	99	87 - 121	01/03/25 04:10	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 10:16
Date Received: 12/21/24 11:00

Sample Name: MW-12
Lab Code: R2413334-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 04:33	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 04:33	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 04:33	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 04:33	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 04:33	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 04:33	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 04:33	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 04:33	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 04:33	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 04:33	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 04:33	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 04:33	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 04:33	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 04:33	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 04:33	
1,4-Dioxane	40 U	40	1	01/03/25 04:33	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 04:33	
2-Hexanone	5.0 U	5.0	1	01/03/25 04:33	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 04:33	
Acetone	5.0 U	5.0	1	01/03/25 04:33	
Benzene	1.0 U	1.0	1	01/03/25 04:33	
Bromochloromethane	1.0 U	1.0	1	01/03/25 04:33	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 04:33	
Bromoform	1.0 U	1.0	1	01/03/25 04:33	
Bromomethane	1.0 U	1.0	1	01/03/25 04:33	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 04:33	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 04:33	
Chlorobenzene	1.0 U	1.0	1	01/03/25 04:33	
Chloroethane	1.0 U	1.0	1	01/03/25 04:33	
Chloroform	1.0 U	1.0	1	01/03/25 04:33	
Chloromethane	1.0 U	1.0	1	01/03/25 04:33	
Cyclohexane	1.0 U	1.0	1	01/03/25 04:33	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 04:33	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 04:33	
Dichloromethane	1.0 U	1.0	1	01/03/25 04:33	
Ethylbenzene	1.0 U	1.0	1	01/03/25 04:33	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 04:33	
Methyl Acetate	2.0 U	2.0	1	01/03/25 04:33	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 04:33	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 04:33	
Styrene	1.0 U	1.0	1	01/03/25 04:33	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 04:33	
Toluene	1.0 U	1.0	1	01/03/25 04:33	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-12
Lab Code: R2413334-011

Service Request: R2413334
Date Collected: 12/20/24 10:16
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	17	1.0	1	01/03/25 04:33	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 04:33	
Vinyl Chloride	1.0 U	1.0	1	01/03/25 04:33	
cis-1,2-Dichloroethene	40	1.0	1	01/03/25 04:33	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 04:33	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 04:33	
o-Xylene	1.0 U	1.0	1	01/03/25 04:33	
trans-1,2-Dichloroethene	1.1	1.0	1	01/03/25 04:33	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 04:33	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	01/03/25 04:33	
Dibromofluoromethane	98	80 - 116	01/03/25 04:33	
Toluene-d8	100	87 - 121	01/03/25 04:33	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 10:21
Date Received: 12/21/24 11:00

Sample Name: MW-13
Lab Code: R2413334-012

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 04:56	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 04:56	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 04:56	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 04:56	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 04:56	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 04:56	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 04:56	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 04:56	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 04:56	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 04:56	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 04:56	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 04:56	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 04:56	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 04:56	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 04:56	
1,4-Dioxane	40 U	40	1	01/03/25 04:56	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 04:56	
2-Hexanone	5.0 U	5.0	1	01/03/25 04:56	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 04:56	
Acetone	5.0 U	5.0	1	01/03/25 04:56	
Benzene	1.0 U	1.0	1	01/03/25 04:56	
Bromochloromethane	1.0 U	1.0	1	01/03/25 04:56	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 04:56	
Bromoform	1.0 U	1.0	1	01/03/25 04:56	
Bromomethane	1.0 U	1.0	1	01/03/25 04:56	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 04:56	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 04:56	
Chlorobenzene	1.0 U	1.0	1	01/03/25 04:56	
Chloroethane	1.0 U	1.0	1	01/03/25 04:56	
Chloroform	1.0 U	1.0	1	01/03/25 04:56	
Chloromethane	1.0 U	1.0	1	01/03/25 04:56	
Cyclohexane	1.0 U	1.0	1	01/03/25 04:56	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 04:56	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 04:56	
Dichloromethane	1.0 U	1.0	1	01/03/25 04:56	
Ethylbenzene	1.0 U	1.0	1	01/03/25 04:56	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 04:56	
Methyl Acetate	2.0 U	2.0	1	01/03/25 04:56	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 04:56	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 04:56	
Styrene	1.0 U	1.0	1	01/03/25 04:56	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 04:56	
Toluene	1.0 U	1.0	1	01/03/25 04:56	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-13
Lab Code: R2413334-012

Service Request: R2413334
Date Collected: 12/20/24 10:21
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	01/03/25 04:56	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 04:56	
Vinyl Chloride	1.0 U	1.0	1	01/03/25 04:56	
cis-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 04:56	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 04:56	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 04:56	
o-Xylene	1.0 U	1.0	1	01/03/25 04:56	
trans-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 04:56	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 04:56	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	01/03/25 04:56	
Dibromofluoromethane	94	80 - 116	01/03/25 04:56	
Toluene-d8	98	87 - 121	01/03/25 04:56	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 15:42
Date Received: 12/21/24 11:00

Sample Name: MW-14
Lab Code: R2413334-013

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 05:18	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 05:18	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 05:18	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 05:18	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 05:18	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 05:18	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 05:18	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 05:18	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 05:18	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 05:18	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 05:18	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 05:18	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 05:18	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 05:18	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 05:18	
1,4-Dioxane	40 U	40	1	01/03/25 05:18	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 05:18	
2-Hexanone	5.0 U	5.0	1	01/03/25 05:18	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 05:18	
Acetone	5.0 U	5.0	1	01/03/25 05:18	
Benzene	1.0 U	1.0	1	01/03/25 05:18	
Bromochloromethane	1.0 U	1.0	1	01/03/25 05:18	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 05:18	
Bromoform	1.0 U	1.0	1	01/03/25 05:18	
Bromomethane	1.0 U	1.0	1	01/03/25 05:18	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 05:18	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 05:18	
Chlorobenzene	1.0 U	1.0	1	01/03/25 05:18	
Chloroethane	1.0 U	1.0	1	01/03/25 05:18	
Chloroform	1.0 U	1.0	1	01/03/25 05:18	
Chloromethane	1.0 U	1.0	1	01/03/25 05:18	
Cyclohexane	1.0 U	1.0	1	01/03/25 05:18	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 05:18	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 05:18	
Dichloromethane	1.0 U	1.0	1	01/03/25 05:18	
Ethylbenzene	1.0 U	1.0	1	01/03/25 05:18	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 05:18	
Methyl Acetate	2.0 U	2.0	1	01/03/25 05:18	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 05:18	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 05:18	
Styrene	1.0 U	1.0	1	01/03/25 05:18	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 05:18	
Toluene	1.0 U	1.0	1	01/03/25 05:18	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-14
Lab Code: R2413334-013

Service Request: R2413334
Date Collected: 12/20/24 15:42
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	9.1	1.0	1	01/03/25 05:18	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 05:18	
Vinyl Chloride	1.0 U	1.0	1	01/03/25 05:18	
cis-1,2-Dichloroethene	44	1.0	1	01/03/25 05:18	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 05:18	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 05:18	
o-Xylene	1.0 U	1.0	1	01/03/25 05:18	
trans-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 05:18	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 05:18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	01/03/25 05:18	
Dibromofluoromethane	94	80 - 116	01/03/25 05:18	
Toluene-d8	97	87 - 121	01/03/25 05:18	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 14:45
Date Received: 12/21/24 11:00

Sample Name: MW-15
Lab Code: R2413334-014

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 05:41	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 05:41	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 05:41	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 05:41	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 05:41	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 05:41	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 05:41	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 05:41	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 05:41	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 05:41	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 05:41	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 05:41	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 05:41	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 05:41	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 05:41	
1,4-Dioxane	40 U	40	1	01/03/25 05:41	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 05:41	
2-Hexanone	5.0 U	5.0	1	01/03/25 05:41	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 05:41	
Acetone	5.0 U	5.0	1	01/03/25 05:41	
Benzene	1.0 U	1.0	1	01/03/25 05:41	
Bromochloromethane	1.0 U	1.0	1	01/03/25 05:41	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 05:41	
Bromoform	1.0 U	1.0	1	01/03/25 05:41	
Bromomethane	1.0 U	1.0	1	01/03/25 05:41	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 05:41	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 05:41	
Chlorobenzene	1.0 U	1.0	1	01/03/25 05:41	
Chloroethane	1.0 U	1.0	1	01/03/25 05:41	
Chloroform	1.0 U	1.0	1	01/03/25 05:41	
Chloromethane	1.0 U	1.0	1	01/03/25 05:41	
Cyclohexane	1.0 U	1.0	1	01/03/25 05:41	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 05:41	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 05:41	
Dichloromethane	1.0 U	1.0	1	01/03/25 05:41	
Ethylbenzene	1.0 U	1.0	1	01/03/25 05:41	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 05:41	
Methyl Acetate	2.0 U	2.0	1	01/03/25 05:41	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 05:41	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 05:41	
Styrene	1.0 U	1.0	1	01/03/25 05:41	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 05:41	
Toluene	1.0 U	1.0	1	01/03/25 05:41	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-15
Lab Code: R2413334-014

Service Request: R2413334
Date Collected: 12/20/24 14:45
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	4.1	1.0	1	01/03/25 05:41	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 05:41	
Vinyl Chloride	1.0 U	1.0	1	01/03/25 05:41	
cis-1,2-Dichloroethene	1.2	1.0	1	01/03/25 05:41	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 05:41	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 05:41	
o-Xylene	1.0 U	1.0	1	01/03/25 05:41	
trans-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 05:41	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 05:41	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	01/03/25 05:41	
Dibromofluoromethane	97	80 - 116	01/03/25 05:41	
Toluene-d8	101	87 - 121	01/03/25 05:41	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 08:30
Date Received: 12/21/24 11:00

Sample Name: MW-17
Lab Code: R2413334-015

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 13:26	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 13:26	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 13:26	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 13:26	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 13:26	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 13:26	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 13:26	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 13:26	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 13:26	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 13:26	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 13:26	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 13:26	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 13:26	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 13:26	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 13:26	
1,4-Dioxane	40 U	40	1	01/03/25 13:26	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 13:26	
2-Hexanone	5.0 U	5.0	1	01/03/25 13:26	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 13:26	
Acetone	5.0 U	5.0	1	01/03/25 13:26	
Benzene	1.0 U	1.0	1	01/03/25 13:26	
Bromochloromethane	1.0 U	1.0	1	01/03/25 13:26	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 13:26	
Bromoform	1.0 U	1.0	1	01/03/25 13:26	
Bromomethane	1.0 U	1.0	1	01/03/25 13:26	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 13:26	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 13:26	
Chlorobenzene	1.0 U	1.0	1	01/03/25 13:26	
Chloroethane	1.0 U	1.0	1	01/03/25 13:26	
Chloroform	1.0 U	1.0	1	01/03/25 13:26	
Chloromethane	1.0 U	1.0	1	01/03/25 13:26	
Cyclohexane	1.0 U	1.0	1	01/03/25 13:26	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 13:26	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 13:26	
Dichloromethane	1.0 U	1.0	1	01/03/25 13:26	
Ethylbenzene	1.0 U	1.0	1	01/03/25 13:26	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 13:26	
Methyl Acetate	2.0 U	2.0	1	01/03/25 13:26	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 13:26	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 13:26	
Styrene	1.0 U	1.0	1	01/03/25 13:26	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 13:26	
Toluene	1.0 U	1.0	1	01/03/25 13:26	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-17
Lab Code: R2413334-015

Service Request: R2413334
Date Collected: 12/20/24 08:30
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.2	1.0	1	01/03/25 13:26	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 13:26	
Vinyl Chloride	1.0 U	1.0	1	01/03/25 13:26	
cis-1,2-Dichloroethene	76	1.0	1	01/03/25 13:26	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 13:26	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 13:26	
o-Xylene	1.0 U	1.0	1	01/03/25 13:26	
trans-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 13:26	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 13:26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	01/03/25 13:26	
Dibromofluoromethane	95	80 - 116	01/03/25 13:26	
Toluene-d8	97	87 - 121	01/03/25 13:26	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 11:37
Date Received: 12/21/24 11:00

Sample Name: MW-18
Lab Code: R2413334-016

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 06:27	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 06:27	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 06:27	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 06:27	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 06:27	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 06:27	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 06:27	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 06:27	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 06:27	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 06:27	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 06:27	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 06:27	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 06:27	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 06:27	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 06:27	
1,4-Dioxane	40 U	40	1	01/03/25 06:27	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 06:27	
2-Hexanone	5.0 U	5.0	1	01/03/25 06:27	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 06:27	
Acetone	5.0 U	5.0	1	01/03/25 06:27	
Benzene	1.0 U	1.0	1	01/03/25 06:27	
Bromochloromethane	1.0 U	1.0	1	01/03/25 06:27	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 06:27	
Bromoform	1.0 U	1.0	1	01/03/25 06:27	
Bromomethane	1.0 U	1.0	1	01/03/25 06:27	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 06:27	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 06:27	
Chlorobenzene	1.0 U	1.0	1	01/03/25 06:27	
Chloroethane	1.0 U	1.0	1	01/03/25 06:27	
Chloroform	1.0 U	1.0	1	01/03/25 06:27	
Chloromethane	1.0 U	1.0	1	01/03/25 06:27	
Cyclohexane	1.0 U	1.0	1	01/03/25 06:27	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 06:27	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 06:27	
Dichloromethane	1.0 U	1.0	1	01/03/25 06:27	
Ethylbenzene	1.0 U	1.0	1	01/03/25 06:27	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 06:27	
Methyl Acetate	2.0 U	2.0	1	01/03/25 06:27	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 06:27	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 06:27	
Styrene	1.0 U	1.0	1	01/03/25 06:27	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 06:27	
Toluene	1.0 U	1.0	1	01/03/25 06:27	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-18
Lab Code: R2413334-016

Service Request: R2413334
Date Collected: 12/20/24 11:37
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	3.3	1.0	1	01/03/25 06:27	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 06:27	
Vinyl Chloride	1.0 U	1.0	1	01/03/25 06:27	
cis-1,2-Dichloroethene	6.1	1.0	1	01/03/25 06:27	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 06:27	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 06:27	
o-Xylene	1.0 U	1.0	1	01/03/25 06:27	
trans-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 06:27	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 06:27	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	01/03/25 06:27	
Dibromofluoromethane	101	80 - 116	01/03/25 06:27	
Toluene-d8	103	87 - 121	01/03/25 06:27	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 14:06
Date Received: 12/21/24 11:00

Sample Name: MW-19R
Lab Code: R2413334-017

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 06:49	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 06:49	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 06:49	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 06:49	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 06:49	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 06:49	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 06:49	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 06:49	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 06:49	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 06:49	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 06:49	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 06:49	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 06:49	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 06:49	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 06:49	
1,4-Dioxane	40 U	40	1	01/03/25 06:49	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 06:49	
2-Hexanone	5.0 U	5.0	1	01/03/25 06:49	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 06:49	
Acetone	5.8	5.0	1	01/03/25 06:49	
Benzene	1.0 U	1.0	1	01/03/25 06:49	
Bromochloromethane	1.0 U	1.0	1	01/03/25 06:49	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 06:49	
Bromoform	1.0 U	1.0	1	01/03/25 06:49	
Bromomethane	1.0 U	1.0	1	01/03/25 06:49	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 06:49	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 06:49	
Chlorobenzene	1.0 U	1.0	1	01/03/25 06:49	
Chloroethane	1.0 U	1.0	1	01/03/25 06:49	
Chloroform	1.0 U	1.0	1	01/03/25 06:49	
Chloromethane	1.0 U	1.0	1	01/03/25 06:49	
Cyclohexane	1.0 U	1.0	1	01/03/25 06:49	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 06:49	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 06:49	
Dichloromethane	1.0 U	1.0	1	01/03/25 06:49	
Ethylbenzene	1.0 U	1.0	1	01/03/25 06:49	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 06:49	
Methyl Acetate	2.0 U	2.0	1	01/03/25 06:49	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 06:49	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 06:49	
Styrene	1.0 U	1.0	1	01/03/25 06:49	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 06:49	
Toluene	1.0 U	1.0	1	01/03/25 06:49	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-19R
Lab Code: R2413334-017

Service Request: R2413334
Date Collected: 12/20/24 14:06
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	01/03/25 06:49	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 06:49	
Vinyl Chloride	1.0 U	1.0	1	01/03/25 06:49	
cis-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 06:49	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 06:49	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 06:49	
o-Xylene	1.0 U	1.0	1	01/03/25 06:49	
trans-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 06:49	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 06:49	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	01/03/25 06:49	
Dibromofluoromethane	94	80 - 116	01/03/25 06:49	
Toluene-d8	97	87 - 121	01/03/25 06:49	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 12:42
Date Received: 12/21/24 11:00

Sample Name: MW-20
Lab Code: R2413334-018

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 07:12	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 07:12	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 07:12	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 07:12	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 07:12	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 07:12	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 07:12	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 07:12	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 07:12	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 07:12	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 07:12	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 07:12	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 07:12	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 07:12	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 07:12	
1,4-Dioxane	40 U	40	1	01/03/25 07:12	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 07:12	
2-Hexanone	5.0 U	5.0	1	01/03/25 07:12	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 07:12	
Acetone	5.0 U	5.0	1	01/03/25 07:12	
Benzene	1.0 U	1.0	1	01/03/25 07:12	
Bromochloromethane	1.0 U	1.0	1	01/03/25 07:12	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 07:12	
Bromoform	1.0 U	1.0	1	01/03/25 07:12	
Bromomethane	1.0 U	1.0	1	01/03/25 07:12	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 07:12	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 07:12	
Chlorobenzene	1.0 U	1.0	1	01/03/25 07:12	
Chloroethane	1.0 U	1.0	1	01/03/25 07:12	
Chloroform	1.0 U	1.0	1	01/03/25 07:12	
Chloromethane	1.0 U	1.0	1	01/03/25 07:12	
Cyclohexane	1.0 U	1.0	1	01/03/25 07:12	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 07:12	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 07:12	
Dichloromethane	1.0 U	1.0	1	01/03/25 07:12	
Ethylbenzene	1.0 U	1.0	1	01/03/25 07:12	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 07:12	
Methyl Acetate	2.0 U	2.0	1	01/03/25 07:12	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 07:12	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 07:12	
Styrene	1.0 U	1.0	1	01/03/25 07:12	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 07:12	
Toluene	1.0 U	1.0	1	01/03/25 07:12	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-20
Lab Code: R2413334-018

Service Request: R2413334
Date Collected: 12/20/24 12:42
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	01/03/25 07:12	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 07:12	
Vinyl Chloride	1.0 U	1.0	1	01/03/25 07:12	
cis-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 07:12	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 07:12	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 07:12	
o-Xylene	1.0 U	1.0	1	01/03/25 07:12	
trans-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 07:12	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 07:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	01/03/25 07:12	
Dibromofluoromethane	96	80 - 116	01/03/25 07:12	
Toluene-d8	97	87 - 121	01/03/25 07:12	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 14:30
Date Received: 12/21/24 11:00

Sample Name: MW-21
Lab Code: R2413334-019

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 13:49	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 13:49	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 13:49	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 13:49	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 13:49	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 13:49	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 13:49	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 13:49	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 13:49	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 13:49	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 13:49	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 13:49	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 13:49	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 13:49	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 13:49	
1,4-Dioxane	40 U	40	1	01/03/25 13:49	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 13:49	
2-Hexanone	5.0 U	5.0	1	01/03/25 13:49	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 13:49	
Acetone	5.0 U	5.0	1	01/03/25 13:49	
Benzene	1.0 U	1.0	1	01/03/25 13:49	
Bromochloromethane	1.0 U	1.0	1	01/03/25 13:49	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 13:49	
Bromoform	1.0 U	1.0	1	01/03/25 13:49	
Bromomethane	1.0 U	1.0	1	01/03/25 13:49	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 13:49	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 13:49	
Chlorobenzene	1.0 U	1.0	1	01/03/25 13:49	
Chloroethane	1.0 U	1.0	1	01/03/25 13:49	
Chloroform	1.0 U	1.0	1	01/03/25 13:49	
Chloromethane	1.0 U	1.0	1	01/03/25 13:49	
Cyclohexane	1.0 U	1.0	1	01/03/25 13:49	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 13:49	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 13:49	
Dichloromethane	1.0 U	1.0	1	01/03/25 13:49	
Ethylbenzene	1.0 U	1.0	1	01/03/25 13:49	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 13:49	
Methyl Acetate	2.0 U	2.0	1	01/03/25 13:49	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 13:49	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 13:49	
Styrene	1.0 U	1.0	1	01/03/25 13:49	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 13:49	
Toluene	1.0 U	1.0	1	01/03/25 13:49	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-21
Lab Code: R2413334-019

Service Request: R2413334
Date Collected: 12/20/24 14:30
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	01/03/25 13:49	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 13:49	
Vinyl Chloride	1.0 U	1.0	1	01/03/25 13:49	
cis-1,2-Dichloroethene	12	1.0	1	01/03/25 13:49	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 13:49	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 13:49	
o-Xylene	1.0 U	1.0	1	01/03/25 13:49	
trans-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 13:49	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 13:49	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	01/03/25 13:49	
Dibromofluoromethane	95	80 - 116	01/03/25 13:49	
Toluene-d8	97	87 - 121	01/03/25 13:49	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 09:20
Date Received: 12/21/24 11:00

Sample Name: DR-1
Lab Code: R2413334-020

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	2.0 U	2.0	2	01/03/25 14:12	
1,1,2,2-Tetrachloroethane	2.0 U	2.0	2	01/03/25 14:12	
1,1,2-Trichloroethane	2.0 U	2.0	2	01/03/25 14:12	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0 U	2.0	2	01/03/25 14:12	
1,1-Dichloroethane (1,1-DCA)	2.0 U	2.0	2	01/03/25 14:12	
1,1-Dichloroethene (1,1-DCE)	2.0 U	2.0	2	01/03/25 14:12	
1,2,3-Trichlorobenzene	2.0 U	2.0	2	01/03/25 14:12	
1,2,4-Trichlorobenzene	2.0 U	2.0	2	01/03/25 14:12	
1,2-Dibromo-3-chloropropane (DBCP)	4.0 U	4.0	2	01/03/25 14:12	
1,2-Dibromoethane	2.0 U	2.0	2	01/03/25 14:12	
1,2-Dichlorobenzene	2.0 U	2.0	2	01/03/25 14:12	
1,2-Dichloroethane	2.0 U	2.0	2	01/03/25 14:12	
1,2-Dichloropropane	2.0 U	2.0	2	01/03/25 14:12	
1,3-Dichlorobenzene	2.0 U	2.0	2	01/03/25 14:12	
1,4-Dichlorobenzene	2.0 U	2.0	2	01/03/25 14:12	
1,4-Dioxane	80 U	80	2	01/03/25 14:12	
2-Butanone (MEK)	10 U	10	2	01/03/25 14:12	
2-Hexanone	10 U	10	2	01/03/25 14:12	
4-Methyl-2-pentanone	10 U	10	2	01/03/25 14:12	
Acetone	10 U	10	2	01/03/25 14:12	
Benzene	2.0 U	2.0	2	01/03/25 14:12	
Bromochloromethane	2.0 U	2.0	2	01/03/25 14:12	
Bromodichloromethane	2.0 U	2.0	2	01/03/25 14:12	
Bromoform	2.0 U	2.0	2	01/03/25 14:12	
Bromomethane	2.0 U	2.0	2	01/03/25 14:12	
Carbon Disulfide	2.0 U	2.0	2	01/03/25 14:12	
Carbon Tetrachloride	2.0 U	2.0	2	01/03/25 14:12	
Chlorobenzene	2.0 U	2.0	2	01/03/25 14:12	
Chloroethane	2.0 U	2.0	2	01/03/25 14:12	
Chloroform	2.0 U	2.0	2	01/03/25 14:12	
Chloromethane	2.0 U	2.0	2	01/03/25 14:12	
Cyclohexane	2.0 U	2.0	2	01/03/25 14:12	
Dibromochloromethane	2.0 U	2.0	2	01/03/25 14:12	
Dichlorodifluoromethane (CFC 12)	2.0 U	2.0	2	01/03/25 14:12	
Dichloromethane	2.0 U	2.0	2	01/03/25 14:12	
Ethylbenzene	2.0 U	2.0	2	01/03/25 14:12	
Isopropylbenzene (Cumene)	2.0 U	2.0	2	01/03/25 14:12	
Methyl Acetate	4.0 U	4.0	2	01/03/25 14:12	
Methyl tert-Butyl Ether	2.0 U	2.0	2	01/03/25 14:12	
Methylcyclohexane	2.0 U	2.0	2	01/03/25 14:12	
Styrene	2.0 U	2.0	2	01/03/25 14:12	
Tetrachloroethene (PCE)	2.0 U	2.0	2	01/03/25 14:12	
Toluene	2.0 U	2.0	2	01/03/25 14:12	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: DR-1
Lab Code: R2413334-020

Service Request: R2413334
Date Collected: 12/20/24 09:20
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	300	2.0	2	01/03/25 14:12	
Trichlorofluoromethane (CFC 11)	2.0 U	2.0	2	01/03/25 14:12	
Vinyl Chloride	4.8	2.0	2	01/03/25 14:12	
cis-1,2-Dichloroethene	64	2.0	2	01/03/25 14:12	
cis-1,3-Dichloropropene	2.0 U	2.0	2	01/03/25 14:12	
m,p-Xylenes	4.0 U	4.0	2	01/03/25 14:12	
o-Xylene	2.0 U	2.0	2	01/03/25 14:12	
trans-1,2-Dichloroethene	3.5	2.0	2	01/03/25 14:12	
trans-1,3-Dichloropropene	2.0 U	2.0	2	01/03/25 14:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	01/03/25 14:12	
Dibromofluoromethane	96	80 - 116	01/03/25 14:12	
Toluene-d8	99	87 - 121	01/03/25 14:12	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 17:00
Date Received: 12/21/24 11:00

Sample Name: DR-2
Lab Code: R2413334-021

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 14:34	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 14:34	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 14:34	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 14:34	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 14:34	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 14:34	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 14:34	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 14:34	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 14:34	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 14:34	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 14:34	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 14:34	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 14:34	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 14:34	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 14:34	
1,4-Dioxane	40 U	40	1	01/03/25 14:34	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 14:34	
2-Hexanone	5.0 U	5.0	1	01/03/25 14:34	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 14:34	
Acetone	5.0 U	5.0	1	01/03/25 14:34	
Benzene	1.0 U	1.0	1	01/03/25 14:34	
Bromochloromethane	1.0 U	1.0	1	01/03/25 14:34	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 14:34	
Bromoform	1.0 U	1.0	1	01/03/25 14:34	
Bromomethane	1.0 U	1.0	1	01/03/25 14:34	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 14:34	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 14:34	
Chlorobenzene	1.0 U	1.0	1	01/03/25 14:34	
Chloroethane	1.0 U	1.0	1	01/03/25 14:34	
Chloroform	1.0 U	1.0	1	01/03/25 14:34	
Chloromethane	1.0 U	1.0	1	01/03/25 14:34	
Cyclohexane	1.0 U	1.0	1	01/03/25 14:34	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 14:34	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 14:34	
Dichloromethane	1.0 U	1.0	1	01/03/25 14:34	
Ethylbenzene	1.0 U	1.0	1	01/03/25 14:34	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 14:34	
Methyl Acetate	2.0 U	2.0	1	01/03/25 14:34	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 14:34	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 14:34	
Styrene	1.0 U	1.0	1	01/03/25 14:34	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 14:34	
Toluene	1.0 U	1.0	1	01/03/25 14:34	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: DR-2
Lab Code: R2413334-021

Service Request: R2413334
Date Collected: 12/20/24 17:00
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	14	1.0	1	01/03/25 14:34	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 14:34	
Vinyl Chloride	4.1	1.0	1	01/03/25 14:34	
cis-1,2-Dichloroethene	88	1.0	1	01/03/25 14:34	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 14:34	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 14:34	
o-Xylene	1.0 U	1.0	1	01/03/25 14:34	
trans-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 14:34	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 14:34	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	01/03/25 14:34	
Dibromofluoromethane	95	80 - 116	01/03/25 14:34	
Toluene-d8	96	87 - 121	01/03/25 14:34	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 16:15
Date Received: 12/21/24 11:00

Sample Name: DR-3
Lab Code: R2413334-022

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 14:57	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 14:57	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 14:57	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 14:57	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 14:57	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 14:57	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 14:57	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 14:57	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 14:57	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 14:57	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 14:57	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 14:57	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 14:57	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 14:57	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 14:57	
1,4-Dioxane	40 U	40	1	01/03/25 14:57	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 14:57	
2-Hexanone	5.0 U	5.0	1	01/03/25 14:57	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 14:57	
Acetone	5.0 U	5.0	1	01/03/25 14:57	
Benzene	1.0 U	1.0	1	01/03/25 14:57	
Bromochloromethane	1.0 U	1.0	1	01/03/25 14:57	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 14:57	
Bromoform	1.0 U	1.0	1	01/03/25 14:57	
Bromomethane	1.0 U	1.0	1	01/03/25 14:57	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 14:57	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 14:57	
Chlorobenzene	1.0 U	1.0	1	01/03/25 14:57	
Chloroethane	1.0 U	1.0	1	01/03/25 14:57	
Chloroform	1.0 U	1.0	1	01/03/25 14:57	
Chloromethane	1.0 U	1.0	1	01/03/25 14:57	
Cyclohexane	1.0 U	1.0	1	01/03/25 14:57	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 14:57	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 14:57	
Dichloromethane	1.0 U	1.0	1	01/03/25 14:57	
Ethylbenzene	1.0 U	1.0	1	01/03/25 14:57	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 14:57	
Methyl Acetate	2.0 U	2.0	1	01/03/25 14:57	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 14:57	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 14:57	
Styrene	1.0 U	1.0	1	01/03/25 14:57	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 14:57	
Toluene	1.0 U	1.0	1	01/03/25 14:57	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: DR-3
Lab Code: R2413334-022

Service Request: R2413334
Date Collected: 12/20/24 16:15
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	22	1.0	1	01/03/25 14:57	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 14:57	
Vinyl Chloride	1.0 U	1.0	1	01/03/25 14:57	
cis-1,2-Dichloroethene	42	1.0	1	01/03/25 14:57	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 14:57	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 14:57	
o-Xylene	1.0 U	1.0	1	01/03/25 14:57	
trans-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 14:57	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 14:57	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	01/03/25 14:57	
Dibromofluoromethane	97	80 - 116	01/03/25 14:57	
Toluene-d8	101	87 - 121	01/03/25 14:57	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 15:25
Date Received: 12/21/24 11:00

Sample Name: DR-4
Lab Code: R2413334-023

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 15:20	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 15:20	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 15:20	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 15:20	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 15:20	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 15:20	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 15:20	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 15:20	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 15:20	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 15:20	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 15:20	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 15:20	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 15:20	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 15:20	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 15:20	
1,4-Dioxane	40 U	40	1	01/03/25 15:20	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 15:20	
2-Hexanone	5.0 U	5.0	1	01/03/25 15:20	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 15:20	
Acetone	5.0 U	5.0	1	01/03/25 15:20	
Benzene	1.0 U	1.0	1	01/03/25 15:20	
Bromochloromethane	1.0 U	1.0	1	01/03/25 15:20	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 15:20	
Bromoform	1.0 U	1.0	1	01/03/25 15:20	
Bromomethane	1.0 U	1.0	1	01/03/25 15:20	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 15:20	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 15:20	
Chlorobenzene	1.0 U	1.0	1	01/03/25 15:20	
Chloroethane	1.0 U	1.0	1	01/03/25 15:20	
Chloroform	1.0 U	1.0	1	01/03/25 15:20	
Chloromethane	1.0 U	1.0	1	01/03/25 15:20	
Cyclohexane	1.0 U	1.0	1	01/03/25 15:20	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 15:20	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 15:20	
Dichloromethane	1.0 U	1.0	1	01/03/25 15:20	
Ethylbenzene	1.0 U	1.0	1	01/03/25 15:20	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 15:20	
Methyl Acetate	2.0 U	2.0	1	01/03/25 15:20	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 15:20	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 15:20	
Styrene	1.0 U	1.0	1	01/03/25 15:20	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 15:20	
Toluene	1.0 U	1.0	1	01/03/25 15:20	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: DR-4
Lab Code: R2413334-023

Service Request: R2413334
Date Collected: 12/20/24 15:25
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	19	1.0	1	01/03/25 15:20	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 15:20	
Vinyl Chloride	1.0 U	1.0	1	01/03/25 15:20	
cis-1,2-Dichloroethene	6.7	1.0	1	01/03/25 15:20	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 15:20	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 15:20	
o-Xylene	1.0 U	1.0	1	01/03/25 15:20	
trans-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 15:20	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 15:20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	01/03/25 15:20	
Dibromofluoromethane	93	80 - 116	01/03/25 15:20	
Toluene-d8	99	87 - 121	01/03/25 15:20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 14:15
Date Received: 12/21/24 11:00

Sample Name: G-1
Lab Code: R2413334-024

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 15:43	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 15:43	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 15:43	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 15:43	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 15:43	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 15:43	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 15:43	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 15:43	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 15:43	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 15:43	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 15:43	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 15:43	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 15:43	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 15:43	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 15:43	
1,4-Dioxane	40 U	40	1	01/03/25 15:43	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 15:43	
2-Hexanone	5.0 U	5.0	1	01/03/25 15:43	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 15:43	
Acetone	5.0 U	5.0	1	01/03/25 15:43	
Benzene	1.0 U	1.0	1	01/03/25 15:43	
Bromochloromethane	1.0 U	1.0	1	01/03/25 15:43	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 15:43	
Bromoform	1.0 U	1.0	1	01/03/25 15:43	
Bromomethane	1.0 U	1.0	1	01/03/25 15:43	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 15:43	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 15:43	
Chlorobenzene	1.0 U	1.0	1	01/03/25 15:43	
Chloroethane	1.0 U	1.0	1	01/03/25 15:43	
Chloroform	1.0 U	1.0	1	01/03/25 15:43	
Chloromethane	1.0 U	1.0	1	01/03/25 15:43	
Cyclohexane	1.0 U	1.0	1	01/03/25 15:43	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 15:43	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 15:43	
Dichloromethane	1.0 U	1.0	1	01/03/25 15:43	
Ethylbenzene	1.0 U	1.0	1	01/03/25 15:43	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 15:43	
Methyl Acetate	2.0 U	2.0	1	01/03/25 15:43	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 15:43	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 15:43	
Styrene	1.0 U	1.0	1	01/03/25 15:43	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 15:43	
Toluene	1.0 U	1.0	1	01/03/25 15:43	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: G-1
Lab Code: R2413334-024

Service Request: R2413334
Date Collected: 12/20/24 14:15
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	5.4	1.0	1	01/03/25 15:43	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 15:43	
Vinyl Chloride	1.0	1.0	1	01/03/25 15:43	
cis-1,2-Dichloroethene	54	1.0	1	01/03/25 15:43	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 15:43	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 15:43	
o-Xylene	1.0 U	1.0	1	01/03/25 15:43	
trans-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 15:43	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 15:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	01/03/25 15:43	
Dibromofluoromethane	101	80 - 116	01/03/25 15:43	
Toluene-d8	105	87 - 121	01/03/25 15:43	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 13:30
Date Received: 12/21/24 11:00

Sample Name: G-2
Lab Code: R2413334-025

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 16:05	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 16:05	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 16:05	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 16:05	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 16:05	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 16:05	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 16:05	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 16:05	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 16:05	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 16:05	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 16:05	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 16:05	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 16:05	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 16:05	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 16:05	
1,4-Dioxane	40 U	40	1	01/03/25 16:05	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 16:05	
2-Hexanone	5.0 U	5.0	1	01/03/25 16:05	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 16:05	
Acetone	5.0 U	5.0	1	01/03/25 16:05	
Benzene	1.0 U	1.0	1	01/03/25 16:05	
Bromochloromethane	1.0 U	1.0	1	01/03/25 16:05	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 16:05	
Bromoform	1.0 U	1.0	1	01/03/25 16:05	
Bromomethane	1.0 U	1.0	1	01/03/25 16:05	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 16:05	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 16:05	
Chlorobenzene	1.0 U	1.0	1	01/03/25 16:05	
Chloroethane	1.0 U	1.0	1	01/03/25 16:05	
Chloroform	1.0 U	1.0	1	01/03/25 16:05	
Chloromethane	1.0 U	1.0	1	01/03/25 16:05	
Cyclohexane	1.0 U	1.0	1	01/03/25 16:05	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 16:05	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 16:05	
Dichloromethane	1.0 U	1.0	1	01/03/25 16:05	
Ethylbenzene	1.0 U	1.0	1	01/03/25 16:05	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 16:05	
Methyl Acetate	2.0 U	2.0	1	01/03/25 16:05	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 16:05	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 16:05	
Styrene	1.0 U	1.0	1	01/03/25 16:05	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 16:05	
Toluene	1.0 U	1.0	1	01/03/25 16:05	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: G-2
Lab Code: R2413334-025

Service Request: R2413334
Date Collected: 12/20/24 13:30
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	01/03/25 16:05	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 16:05	
Vinyl Chloride	1.0 U	1.0	1	01/03/25 16:05	
cis-1,2-Dichloroethene	33	1.0	1	01/03/25 16:05	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 16:05	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 16:05	
o-Xylene	1.0 U	1.0	1	01/03/25 16:05	
trans-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 16:05	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 16:05	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	01/03/25 16:05	
Dibromofluoromethane	99	80 - 116	01/03/25 16:05	
Toluene-d8	102	87 - 121	01/03/25 16:05	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 07:50
Date Received: 12/21/24 11:00

Sample Name: G-3
Lab Code: R2413334-026

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 16:28	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 16:28	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 16:28	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 16:28	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 16:28	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 16:28	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 16:28	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 16:28	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 16:28	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 16:28	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 16:28	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 16:28	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 16:28	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 16:28	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 16:28	
1,4-Dioxane	40 U	40	1	01/03/25 16:28	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 16:28	
2-Hexanone	5.0 U	5.0	1	01/03/25 16:28	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 16:28	
Acetone	5.0 U	5.0	1	01/03/25 16:28	
Benzene	1.0 U	1.0	1	01/03/25 16:28	
Bromochloromethane	1.0 U	1.0	1	01/03/25 16:28	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 16:28	
Bromoform	1.0 U	1.0	1	01/03/25 16:28	
Bromomethane	1.0 U	1.0	1	01/03/25 16:28	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 16:28	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 16:28	
Chlorobenzene	1.0 U	1.0	1	01/03/25 16:28	
Chloroethane	1.0 U	1.0	1	01/03/25 16:28	
Chloroform	1.0 U	1.0	1	01/03/25 16:28	
Chloromethane	1.0 U	1.0	1	01/03/25 16:28	
Cyclohexane	1.0 U	1.0	1	01/03/25 16:28	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 16:28	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 16:28	
Dichloromethane	1.0 U	1.0	1	01/03/25 16:28	
Ethylbenzene	1.0 U	1.0	1	01/03/25 16:28	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 16:28	
Methyl Acetate	2.0 U	2.0	1	01/03/25 16:28	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 16:28	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 16:28	
Styrene	1.0 U	1.0	1	01/03/25 16:28	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 16:28	
Toluene	1.0 U	1.0	1	01/03/25 16:28	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: G-3
Lab Code: R2413334-026

Service Request: R2413334
Date Collected: 12/20/24 07:50
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	16	1.0	1	01/03/25 16:28	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 16:28	
Vinyl Chloride	1.0 U	1.0	1	01/03/25 16:28	
cis-1,2-Dichloroethene	150	1.0	1	01/03/25 16:28	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 16:28	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 16:28	
o-Xylene	1.0 U	1.0	1	01/03/25 16:28	
trans-1,2-Dichloroethene	1.4	1.0	1	01/03/25 16:28	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 16:28	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	01/03/25 16:28	
Dibromofluoromethane	103	80 - 116	01/03/25 16:28	
Toluene-d8	105	87 - 121	01/03/25 16:28	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24
Date Received: 12/21/24 11:00

Sample Name: MW-X
Lab Code: R2413334-027

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 16:51	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 16:51	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 16:51	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 16:51	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 16:51	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 16:51	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 16:51	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 16:51	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 16:51	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 16:51	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 16:51	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 16:51	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 16:51	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 16:51	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 16:51	
1,4-Dioxane	40 U	40	1	01/03/25 16:51	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 16:51	
2-Hexanone	5.0 U	5.0	1	01/03/25 16:51	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 16:51	
Acetone	5.0 U	5.0	1	01/03/25 16:51	
Benzene	1.0 U	1.0	1	01/03/25 16:51	
Bromochloromethane	1.0 U	1.0	1	01/03/25 16:51	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 16:51	
Bromoform	1.0 U	1.0	1	01/03/25 16:51	
Bromomethane	1.0 U	1.0	1	01/03/25 16:51	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 16:51	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 16:51	
Chlorobenzene	1.0 U	1.0	1	01/03/25 16:51	
Chloroethane	1.0 U	1.0	1	01/03/25 16:51	
Chloroform	1.0 U	1.0	1	01/03/25 16:51	
Chloromethane	1.0 U	1.0	1	01/03/25 16:51	
Cyclohexane	1.0 U	1.0	1	01/03/25 16:51	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 16:51	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 16:51	
Dichloromethane	1.0 U	1.0	1	01/03/25 16:51	
Ethylbenzene	1.0 U	1.0	1	01/03/25 16:51	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 16:51	
Methyl Acetate	2.0 U	2.0	1	01/03/25 16:51	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 16:51	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 16:51	
Styrene	1.0 U	1.0	1	01/03/25 16:51	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 16:51	
Toluene	1.0 U	1.0	1	01/03/25 16:51	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: MW-X
Lab Code: R2413334-027

Service Request: R2413334
Date Collected: 12/20/24
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	170	1.0	1	01/03/25 16:51	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 16:51	
Vinyl Chloride	1.0 U	1.0	1	01/03/25 16:51	
cis-1,2-Dichloroethene	71	1.0	1	01/03/25 16:51	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 16:51	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 16:51	
o-Xylene	1.0 U	1.0	1	01/03/25 16:51	
trans-1,2-Dichloroethene	2.1	1.0	1	01/03/25 16:51	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 16:51	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	01/03/25 16:51	
Dibromofluoromethane	98	80 - 116	01/03/25 16:51	
Toluene-d8	101	87 - 121	01/03/25 16:51	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24 12:30
Date Received: 12/21/24 11:00

Sample Name: EB
Lab Code: R2413334-028

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 17:14	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 17:14	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 17:14	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 17:14	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 17:14	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 17:14	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 17:14	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 17:14	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 17:14	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 17:14	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 17:14	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 17:14	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 17:14	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 17:14	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 17:14	
1,4-Dioxane	40 U	40	1	01/03/25 17:14	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 17:14	
2-Hexanone	5.0 U	5.0	1	01/03/25 17:14	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 17:14	
Acetone	5.0 U	5.0	1	01/03/25 17:14	
Benzene	1.0 U	1.0	1	01/03/25 17:14	
Bromochloromethane	1.0 U	1.0	1	01/03/25 17:14	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 17:14	
Bromoform	1.0 U	1.0	1	01/03/25 17:14	
Bromomethane	1.0 U	1.0	1	01/03/25 17:14	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 17:14	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 17:14	
Chlorobenzene	1.0 U	1.0	1	01/03/25 17:14	
Chloroethane	1.0 U	1.0	1	01/03/25 17:14	
Chloroform	1.0 U	1.0	1	01/03/25 17:14	
Chloromethane	1.0 U	1.0	1	01/03/25 17:14	
Cyclohexane	1.0 U	1.0	1	01/03/25 17:14	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 17:14	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 17:14	
Dichloromethane	1.0 U	1.0	1	01/03/25 17:14	
Ethylbenzene	1.0 U	1.0	1	01/03/25 17:14	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 17:14	
Methyl Acetate	2.0 U	2.0	1	01/03/25 17:14	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 17:14	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 17:14	
Styrene	1.0 U	1.0	1	01/03/25 17:14	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 17:14	
Toluene	1.0 U	1.0	1	01/03/25 17:14	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: EB
Lab Code: R2413334-028

Service Request: R2413334
Date Collected: 12/20/24 12:30
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	01/03/25 17:14	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 17:14	
Vinyl Chloride	1.0 U	1.0	1	01/03/25 17:14	
cis-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 17:14	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 17:14	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 17:14	
o-Xylene	1.0 U	1.0	1	01/03/25 17:14	
trans-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 17:14	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 17:14	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	01/03/25 17:14	
Dibromofluoromethane	93	80 - 116	01/03/25 17:14	
Toluene-d8	96	87 - 121	01/03/25 17:14	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: 12/20/24
Date Received: 12/21/24 11:00

Sample Name: Trip Blank
Lab Code: R2413334-029

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 17:37	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 17:37	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 17:37	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 17:37	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 17:37	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 17:37	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 17:37	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 17:37	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 17:37	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 17:37	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 17:37	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 17:37	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 17:37	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 17:37	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 17:37	
1,4-Dioxane	40 U	40	1	01/03/25 17:37	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 17:37	
2-Hexanone	5.0 U	5.0	1	01/03/25 17:37	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 17:37	
Acetone	5.0 U	5.0	1	01/03/25 17:37	
Benzene	1.0 U	1.0	1	01/03/25 17:37	
Bromochloromethane	1.0 U	1.0	1	01/03/25 17:37	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 17:37	
Bromoform	1.0 U	1.0	1	01/03/25 17:37	
Bromomethane	1.0 U	1.0	1	01/03/25 17:37	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 17:37	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 17:37	
Chlorobenzene	1.0 U	1.0	1	01/03/25 17:37	
Chloroethane	1.0 U	1.0	1	01/03/25 17:37	
Chloroform	1.0 U	1.0	1	01/03/25 17:37	
Chloromethane	1.0 U	1.0	1	01/03/25 17:37	
Cyclohexane	1.0 U	1.0	1	01/03/25 17:37	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 17:37	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 17:37	
Dichloromethane	1.0 U	1.0	1	01/03/25 17:37	
Ethylbenzene	1.0 U	1.0	1	01/03/25 17:37	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 17:37	
Methyl Acetate	2.0 U	2.0	1	01/03/25 17:37	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 17:37	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 17:37	
Styrene	1.0 U	1.0	1	01/03/25 17:37	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 17:37	
Toluene	1.0 U	1.0	1	01/03/25 17:37	

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: Trip Blank
Lab Code: R2413334-029

Service Request: R2413334
Date Collected: 12/20/24
Date Received: 12/21/24 11:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	01/03/25 17:37	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 17:37	
Vinyl Chloride	1.0 U	1.0	1	01/03/25 17:37	
cis-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 17:37	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 17:37	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 17:37	
o-Xylene	1.0 U	1.0	1	01/03/25 17:37	
trans-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 17:37	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 17:37	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	01/03/25 17:37	
Dibromofluoromethane	101	80 - 116	01/03/25 17:37	
Toluene-d8	103	87 - 121	01/03/25 17:37	



QC Summary Forms

ALS Environmental—Rochester Laboratory

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Volatile Organic Compounds by GC/MS

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QA/QC Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85 - 122	80 - 116	87 - 121
MW-1	R2413334-001	96	97	99
MW-2	R2413334-002	96	97	100
MW-4	R2413334-003	97	99	102
MW-5	R2413334-004	97	98	101
MW-6	R2413334-005	95	96	100
MW-7	R2413334-006	101	99	105
MW-8	R2413334-007	99	98	101
MW-9	R2413334-008	97	99	102
MW-10	R2413334-009	94	94	96
MW-11	R2413334-010	96	97	99
MW-12	R2413334-011	98	98	100
MW-13	R2413334-012	95	94	98
MW-14	R2413334-013	94	94	97
MW-15	R2413334-014	97	97	101
MW-17	R2413334-015	95	95	97
MW-18	R2413334-016	101	101	103
MW-19R	R2413334-017	93	94	97
MW-20	R2413334-018	93	96	97
MW-21	R2413334-019	95	95	97
DR-1	R2413334-020	93	96	99
DR-2	R2413334-021	93	95	96
DR-3	R2413334-022	98	97	101
DR-4	R2413334-023	95	93	99
G-1	R2413334-024	101	101	105
G-2	R2413334-025	98	99	102
G-3	R2413334-026	101	103	105
MW-X	R2413334-027	98	98	101
EB	R2413334-028	95	93	96
Trip Blank	R2413334-029	98	101	103
Lab Control Sample	RQ2500054-02	99	102	101
Duplicate Lab Control Sample	RQ2500054-03	96	98	98
Method Blank	RQ2500054-04	93	94	96
Lab Control Sample	RQ2500094-02	92	93	93
Duplicate Lab Control Sample	RQ2500094-03	95	96	96
Method Blank	RQ2500094-04	101	99	104

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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: RQ2500054-04

Service Request: R2413334
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/02/25 23:37	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/02/25 23:37	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/02/25 23:37	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/02/25 23:37	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/02/25 23:37	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/02/25 23:37	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/02/25 23:37	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/02/25 23:37	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/02/25 23:37	
1,2-Dibromoethane	1.0 U	1.0	1	01/02/25 23:37	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/02/25 23:37	
1,2-Dichloroethane	1.0 U	1.0	1	01/02/25 23:37	
1,2-Dichloropropane	1.0 U	1.0	1	01/02/25 23:37	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/02/25 23:37	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/02/25 23:37	
1,4-Dioxane	40 U	40	1	01/02/25 23:37	
2-Butanone (MEK)	5.0 U	5.0	1	01/02/25 23:37	
2-Hexanone	5.0 U	5.0	1	01/02/25 23:37	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/02/25 23:37	
Acetone	5.0 U	5.0	1	01/02/25 23:37	
Benzene	1.0 U	1.0	1	01/02/25 23:37	
Bromochloromethane	1.0 U	1.0	1	01/02/25 23:37	
Bromodichloromethane	1.0 U	1.0	1	01/02/25 23:37	
Bromoform	1.0 U	1.0	1	01/02/25 23:37	
Bromomethane	1.0 U	1.0	1	01/02/25 23:37	
Carbon Disulfide	1.0 U	1.0	1	01/02/25 23:37	
Carbon Tetrachloride	1.0 U	1.0	1	01/02/25 23:37	
Chlorobenzene	1.0 U	1.0	1	01/02/25 23:37	
Chloroethane	1.0 U	1.0	1	01/02/25 23:37	
Chloroform	1.0 U	1.0	1	01/02/25 23:37	
Chloromethane	1.0 U	1.0	1	01/02/25 23:37	
Cyclohexane	1.0 U	1.0	1	01/02/25 23:37	
Dibromochloromethane	1.0 U	1.0	1	01/02/25 23:37	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/02/25 23:37	
Dichloromethane	1.0 U	1.0	1	01/02/25 23:37	
Ethylbenzene	1.0 U	1.0	1	01/02/25 23:37	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/02/25 23:37	
Methyl Acetate	2.0 U	2.0	1	01/02/25 23:37	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/02/25 23:37	
Methylcyclohexane	1.0 U	1.0	1	01/02/25 23:37	
Styrene	1.0 U	1.0	1	01/02/25 23:37	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/02/25 23:37	
Toluene	1.0 U	1.0	1	01/02/25 23:37	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: RQ2500054-04

Service Request: R2413334
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	01/02/25 23:37	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/02/25 23:37	
Vinyl Chloride	1.0 U	1.0	1	01/02/25 23:37	
cis-1,2-Dichloroethene	1.0 U	1.0	1	01/02/25 23:37	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/02/25 23:37	
m,p-Xylenes	2.0 U	2.0	1	01/02/25 23:37	
o-Xylene	1.0 U	1.0	1	01/02/25 23:37	
trans-1,2-Dichloroethene	1.0 U	1.0	1	01/02/25 23:37	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/02/25 23:37	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	01/02/25 23:37	
Dibromofluoromethane	94	80 - 116	01/02/25 23:37	
Toluene-d8	96	87 - 121	01/02/25 23:37	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2500094-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	01/03/25 13:03	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	01/03/25 13:03	
1,1,2-Trichloroethane	1.0 U	1.0	1	01/03/25 13:03	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	01/03/25 13:03	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	01/03/25 13:03	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	01/03/25 13:03	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	01/03/25 13:03	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	01/03/25 13:03	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	01/03/25 13:03	
1,2-Dibromoethane	1.0 U	1.0	1	01/03/25 13:03	
1,2-Dichlorobenzene	1.0 U	1.0	1	01/03/25 13:03	
1,2-Dichloroethane	1.0 U	1.0	1	01/03/25 13:03	
1,2-Dichloropropane	1.0 U	1.0	1	01/03/25 13:03	
1,3-Dichlorobenzene	1.0 U	1.0	1	01/03/25 13:03	
1,4-Dichlorobenzene	1.0 U	1.0	1	01/03/25 13:03	
1,4-Dioxane	40 U	40	1	01/03/25 13:03	
2-Butanone (MEK)	5.0 U	5.0	1	01/03/25 13:03	
2-Hexanone	5.0 U	5.0	1	01/03/25 13:03	
4-Methyl-2-pentanone	5.0 U	5.0	1	01/03/25 13:03	
Acetone	5.0 U	5.0	1	01/03/25 13:03	
Benzene	1.0 U	1.0	1	01/03/25 13:03	
Bromochloromethane	1.0 U	1.0	1	01/03/25 13:03	
Bromodichloromethane	1.0 U	1.0	1	01/03/25 13:03	
Bromoform	1.0 U	1.0	1	01/03/25 13:03	
Bromomethane	1.0 U	1.0	1	01/03/25 13:03	
Carbon Disulfide	1.0 U	1.0	1	01/03/25 13:03	
Carbon Tetrachloride	1.0 U	1.0	1	01/03/25 13:03	
Chlorobenzene	1.0 U	1.0	1	01/03/25 13:03	
Chloroethane	1.0 U	1.0	1	01/03/25 13:03	
Chloroform	1.0 U	1.0	1	01/03/25 13:03	
Chloromethane	1.0 U	1.0	1	01/03/25 13:03	
Cyclohexane	1.0 U	1.0	1	01/03/25 13:03	
Dibromochloromethane	1.0 U	1.0	1	01/03/25 13:03	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	01/03/25 13:03	
Dichloromethane	1.0 U	1.0	1	01/03/25 13:03	
Ethylbenzene	1.0 U	1.0	1	01/03/25 13:03	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	01/03/25 13:03	
Methyl Acetate	2.0 U	2.0	1	01/03/25 13:03	
Methyl tert-Butyl Ether	1.0 U	1.0	1	01/03/25 13:03	
Methylcyclohexane	1.0 U	1.0	1	01/03/25 13:03	
Styrene	1.0 U	1.0	1	01/03/25 13:03	
Tetrachloroethene (PCE)	1.0 U	1.0	1	01/03/25 13:03	
Toluene	1.0 U	1.0	1	01/03/25 13:03	

ALS Group USA, Corp.
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Analytical Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: RQ2500094-04

Service Request: R2413334
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	01/03/25 13:03	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	01/03/25 13:03	
Vinyl Chloride	1.0 U	1.0	1	01/03/25 13:03	
cis-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 13:03	
cis-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 13:03	
m,p-Xylenes	2.0 U	2.0	1	01/03/25 13:03	
o-Xylene	1.0 U	1.0	1	01/03/25 13:03	
trans-1,2-Dichloroethene	1.0 U	1.0	1	01/03/25 13:03	
trans-1,3-Dichloropropene	1.0 U	1.0	1	01/03/25 13:03	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	01/03/25 13:03	
Dibromofluoromethane	99	80 - 116	01/03/25 13:03	
Toluene-d8	104	87 - 121	01/03/25 13:03	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Analyzed: 01/02/25

Duplicate Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample RQ2500054-02					Duplicate Lab Control Sample RQ2500054-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane (TCA)	8260D	19.3	20.0	96	20.6	20.0	103	75-125	6	30
1,1,2,2-Tetrachloroethane	8260D	19.1	20.0	96	19.1	20.0	96	78-126	<1	30
1,1,2-Trichloroethane	8260D	19.8	20.0	99	20.1	20.0	101	82-121	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	8260D	18.2	20.0	91	19.0	20.0	95	67-124	4	30
1,1-Dichloroethane (1,1-DCA)	8260D	20.1	20.0	101	21.0	20.0	105	80-124	4	30
1,1-Dichloroethene (1,1-DCE)	8260D	20.5	20.0	102	20.8	20.0	104	71-118	1	30
1,2,3-Trichlorobenzene	8260D	19.7	20.0	99	20.6	20.0	103	67-136	4	30
1,2,4-Trichlorobenzene	8260D	19.4	20.0	97	19.6	20.0	98	75-132	1	30
1,2-Dibromo-3-chloropropane (DBCP)	8260D	19.3	20.0	97	19.5	20.0	97	55-136	<1	30
1,2-Dibromoethane	8260D	20.0	20.0	100	19.8	20.0	99	82-127	<1	30
1,2-Dichlorobenzene	8260D	19.2	20.0	96	20.1	20.0	101	80-119	5	30
1,2-Dichloroethane	8260D	18.4	20.0	92	19.1	20.0	96	71-127	4	30
1,2-Dichloropropane	8260D	19.6	20.0	98	20.0	20.0	100	80-119	2	30
1,3-Dichlorobenzene	8260D	19.3	20.0	96	20.6	20.0	103	83-121	7	30
1,4-Dichlorobenzene	8260D	19.5	20.0	98	20.1	20.0	100	79-119	3	30
1,4-Dioxane	8260D	369	400	92	358	400	90	44-154	3	30
2-Butanone (MEK)	8260D	18.5	20.0	92	19.2	20.0	96	61-137	4	30
2-Hexanone	8260D	18.7	20.0	94	19.2	20.0	96	63-124	3	30
4-Methyl-2-pentanone	8260D	19.3	20.0	97	20.0	20.0	100	66-124	4	30
Acetone	8260D	18.4	20.0	92	18.8	20.0	94	40-161	2	30
Benzene	8260D	20.1	20.0	100	20.2	20.0	101	79-119	<1	30
Bromochloromethane	8260D	19.0	20.0	95	20.1	20.0	101	81-126	6	30
Bromodichloromethane	8260D	19.0	20.0	95	20.0	20.0	100	81-123	5	30
Bromoform	8260D	19.5	20.0	97	20.3	20.0	102	65-146	4	30
Bromomethane	8260D	21.6	20.0	108	21.2	20.0	106	42-166	2	30
Carbon Disulfide	8260D	18.7	20.0	93	19.4	20.0	97	66-128	4	30
Carbon Tetrachloride	8260D	19.9	20.0	100	20.0	20.0	100	70-127	<1	30
Chlorobenzene	8260D	19.1	20.0	96	20.0	20.0	100	80-121	4	30
Chloroethane	8260D	21.0	20.0	105	20.7	20.0	103	62-131	2	30
Chloroform	8260D	18.4	20.0	92	19.4	20.0	97	79-120	5	30
Chloromethane	8260D	21.5	20.0	108	23.1	20.0	116	61-143	7	30
Cyclohexane	8260D	18.4	20.0	92	18.3	20.0	91	69-120	<1	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Analyzed: 01/02/25

Duplicate Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample RQ2500054-02					Duplicate Lab Control Sample RQ2500054-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Dibromochloromethane	8260D	18.9	20.0	95	18.9	20.0	94	72-128	<1	30
Dichlorodifluoromethane (CFC 12)	8260D	22.9	20.0	115	25.6	20.0	128	59-155	11	30
Dichloromethane	8260D	21.4	20.0	107	21.4	20.0	107	73-122	<1	30
Ethylbenzene	8260D	20.1	20.0	101	20.9	20.0	105	76-120	4	30
Isopropylbenzene (Cumene)	8260D	21.2	20.0	106	21.9	20.0	110	77-128	4	30
Methyl Acetate	8260D	16.6	20.0	83	16.7	20.0	83	44-93	<1	30
Methyl tert-Butyl Ether	8260D	18.7	20.0	94	18.9	20.0	95	75-118	1	30
Methylcyclohexane	8260D	19.0	20.0	95	18.9	20.0	94	51-129	<1	30
Styrene	8260D	19.8	20.0	99	20.4	20.0	102	80-124	3	30
Tetrachloroethene (PCE)	8260D	20.0	20.0	100	20.1	20.0	101	72-125	<1	30
Toluene	8260D	20.1	20.0	101	20.4	20.0	102	79-119	1	30
Trichloroethene (TCE)	8260D	20.1	20.0	100	20.1	20.0	101	74-122	<1	30
Trichlorofluoromethane (CFC 11)	8260D	17.8	20.0	89	19.1	20.0	96	71-136	7	30
Vinyl Chloride	8260D	22.1	20.0	110	22.5	20.0	113	74-159	2	30
cis-1,2-Dichloroethene	8260D	21.6	20.0	108	21.1	20.0	106	80-121	2	30
cis-1,3-Dichloropropene	8260D	19.5	20.0	97	20.3	20.0	102	77-122	4	30
m,p-Xylenes	8260D	40.0	40.0	100	39.8	40.0	100	80-126	<1	30
o-Xylene	8260D	20.8	20.0	104	21.0	20.0	105	79-123	1	30
trans-1,2-Dichloroethene	8260D	18.7	20.0	93	18.8	20.0	94	73-118	<1	30
trans-1,3-Dichloropropene	8260D	19.9	20.0	99	20.5	20.0	103	71-133	3	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Analyzed: 01/03/25

Duplicate Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample RQ2500094-02					Duplicate Lab Control Sample RQ2500094-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane (TCA)	8260D	19.5	20.0	98	19.6	20.0	98	75-125	<1	30
1,1,2,2-Tetrachloroethane	8260D	18.6	20.0	93	18.8	20.0	94	78-126	1	30
1,1,2-Trichloroethane	8260D	19.1	20.0	95	19.3	20.0	96	82-121	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	8260D	19.6	20.0	98	19.8	20.0	99	67-124	1	30
1,1-Dichloroethane (1,1-DCA)	8260D	20.5	20.0	102	20.7	20.0	103	80-124	1	30
1,1-Dichloroethene (1,1-DCE)	8260D	21.3	20.0	106	21.6	20.0	108	71-118	1	30
1,2,3-Trichlorobenzene	8260D	19.8	20.0	99	20.0	20.0	100	67-136	1	30
1,2,4-Trichlorobenzene	8260D	20.4	20.0	102	20.1	20.0	101	75-132	1	30
1,2-Dibromo-3-chloropropane (DBCP)	8260D	18.7	20.0	93	19.1	20.0	96	55-136	2	30
1,2-Dibromoethane	8260D	19.0	20.0	95	19.9	20.0	99	82-127	4	30
1,2-Dichlorobenzene	8260D	19.1	20.0	96	19.9	20.0	100	80-119	4	30
1,2-Dichloroethane	8260D	17.9	20.0	89	18.5	20.0	93	71-127	4	30
1,2-Dichloropropane	8260D	19.5	20.0	98	19.6	20.0	98	80-119	<1	30
1,3-Dichlorobenzene	8260D	20.3	20.0	102	19.6	20.0	98	83-121	3	30
1,4-Dichlorobenzene	8260D	19.3	20.0	96	19.6	20.0	98	79-119	2	30
1,4-Dioxane	8260D	349	400	87	385	400	96	44-154	10	30
2-Butanone (MEK)	8260D	17.6	20.0	88	18.3	20.0	91	61-137	4	30
2-Hexanone	8260D	18.2	20.0	91	19.0	20.0	95	63-124	4	30
4-Methyl-2-pentanone	8260D	18.0	20.0	90	18.1	20.0	90	66-124	<1	30
Acetone	8260D	17.2	20.0	86	18.3	20.0	91	40-161	6	30
Benzene	8260D	19.9	20.0	99	19.9	20.0	100	79-119	<1	30
Bromochloromethane	8260D	19.3	20.0	96	20.7	20.0	104	81-126	7	30
Bromodichloromethane	8260D	18.7	20.0	94	19.3	20.0	96	81-123	3	30
Bromoform	8260D	19.6	20.0	98	20.1	20.0	100	65-146	2	30
Bromomethane	8260D	22.4	20.0	112	21.5	20.0	107	42-166	4	30
Carbon Disulfide	8260D	19.3	20.0	97	19.3	20.0	96	66-128	<1	30
Carbon Tetrachloride	8260D	20.6	20.0	103	20.0	20.0	100	70-127	3	30
Chlorobenzene	8260D	19.6	20.0	98	19.5	20.0	98	80-121	<1	30
Chloroethane	8260D	21.4	20.0	107	21.6	20.0	108	62-131	<1	30
Chloroform	8260D	18.8	20.0	94	19.1	20.0	96	79-120	2	30
Chloromethane	8260D	22.9	20.0	114	21.7	20.0	108	61-143	6	30
Cyclohexane	8260D	17.3	20.0	87	17.1	20.0	86	69-120	1	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Colliers Engineering & Design (Formerly Bergmann Associates)
Project: Gowanda/6974.96
Sample Matrix: Water

Service Request: R2413334
Date Analyzed: 01/03/25

Duplicate Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Analyte Name	Lab Control Sample RQ2500094-02				Duplicate Lab Control Sample RQ2500094-03					
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Dibromochloromethane	8260D	18.3	20.0	91	19.0	20.0	95	72-128	4	30
Dichlorodifluoromethane (CFC 12)	8260D	26.0	20.0	130	24.4	20.0	122	59-155	6	30
Dichloromethane	8260D	20.8	20.0	104	20.8	20.0	104	73-122	<1	30
Ethylbenzene	8260D	20.8	20.0	104	20.6	20.0	103	76-120	<1	30
Isopropylbenzene (Cumene)	8260D	22.2	20.0	111	22.0	20.0	110	77-128	<1	30
Methyl Acetate	8260D	16.9	20.0	84	17.8	20.0	89	44-93	5	30
Methyl tert-Butyl Ether	8260D	17.8	20.0	89	18.9	20.0	95	75-118	6	30
Methylcyclohexane	8260D	18.4	20.0	92	17.6	20.0	88	51-129	4	30
Styrene	8260D	19.9	20.0	100	20.2	20.0	101	80-124	1	30
Tetrachloroethene (PCE)	8260D	21.9	20.0	110	21.3	20.0	107	72-125	3	30
Toluene	8260D	20.4	20.0	102	20.4	20.0	102	79-119	<1	30
Trichloroethene (TCE)	8260D	20.1	20.0	100	20.7	20.0	104	74-122	3	30
Trichlorofluoromethane (CFC 11)	8260D	18.7	20.0	94	19.2	20.0	96	71-136	2	30
Vinyl Chloride	8260D	23.3	20.0	116	22.8	20.0	114	74-159	2	30
cis-1,2-Dichloroethene	8260D	21.2	20.0	106	21.7	20.0	108	80-121	2	30
cis-1,3-Dichloropropene	8260D	19.8	20.0	99	19.7	20.0	99	77-122	<1	30
m,p-Xylenes	8260D	40.6	40.0	102	41.2	40.0	103	80-126	1	30
o-Xylene	8260D	20.1	20.0	101	20.9	20.0	104	79-123	4	30
trans-1,2-Dichloroethene	8260D	18.4	20.0	92	19.6	20.0	98	73-118	7	30
trans-1,3-Dichloropropene	8260D	19.7	20.0	98	19.8	20.0	99	71-133	<1	30

APPENDIX C:

IC/EC CHECKLIST



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



Site No.	V00463	Site Details	Box 1
 Site Name Gowanda Day Habilitation Center			
Site Address: 4 Industrial Place Zip Code: 14070			
City/Town: Gowanda			
County: Cattaraugus			
Site Acreage: 5.940			
 Reporting Period: April 06, 2024 to April 06, 2025			
			YES NO
1. Is the information above correct?			☒ ☐
If NO, include handwritten above or on a separate sheet.			
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?			☐ ☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?			☐ ☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?			☐ ☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.			
5. Is the site currently undergoing development?			☐ ☒

			Box 2
			YES NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial			☒ ☐
7. Are all ICs in place and functioning as designed?			☒ ☐

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

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

Signature of Owner, Remedial Party or Designated Representative

Date

Description of Institutional ControlsParcelOwnerInstitutional Control

16.027-2-11

NYS OPWDD

Ground Water Use Restriction
Soil Management Plan
Building Use Restriction
O&M Plan

Site is deed restricted with an SMP (2/22/2008). There is use restriction for industrial and commercial, excluding, medical and day care services. Further restriction is that a sub-slab vapor mitigation system is required before occupancy.

Description of Engineering Controls

None Required

Not Applicable/No EC's

Periodic Review Report (PRR) Certification Statements

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

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

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

YES NO

☒

☐

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

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

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

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

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

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

YES NO

☒

☐

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

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

Signature of Owner, Remedial Party or Designated Representative

Date

**IC CERTIFICATIONS
SITE NO. V00463**

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

I Eric Redding, PE at Colliers Engineering & Design
18 Corporate Woods Blvd., 4th Floor
Albany, NY 12211
print name print business address

am certifying as Owners Representative (Owner or Remedial Party)

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

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

5/7/25
Date



Enclosure 3
Periodic Review Report (PRR) General Guidance

- I. Executive Summary: (1/2-page or less)
 - A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
 - B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
 - 1. progress made during the reporting period toward meeting the remedial objectives for the site
 - 2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
 - C. Compliance
 - 1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
 - 2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
 - D. Recommendations
 - 1. recommend whether any changes to the SMP are needed
 - 2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
 - 3. recommend whether the requirements for discontinuing site management have been met.
- II. Site Overview (one page or less)
 - A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
 - B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.
- III. Evaluate Remedy Performance, Effectiveness, and Protectiveness
Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.
- IV. IC/EC Plan Compliance Report (if applicable)
 - A. IC/EC Requirements and Compliance
 - 1. Describe each control, its objective, and how performance of the control is evaluated.
 - 2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
 - 3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
 - 4. Conclusions and recommendations for changes.
 - B. IC/EC Certification
 - 1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).
- V. Monitoring Plan Compliance Report (if applicable)
 - A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
 - B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
 - C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
 - D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
 - E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.
- VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
 - A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
 - B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
 - C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated

the ability of each component of the remedy subject to O&M requirements to perform as designed/expected.

- D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.
- E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

- A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
 - 1. whether all requirements of each plan were met during the reporting period
 - 2. any requirements not met
 - 3. proposed plans and a schedule for coming into full compliance.
- B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.
- C. Future PRR Submittals
 - 1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
 - 2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.