

West Des Moines, IA

PROJECT: Clinton Co,FY26 Env Comp,IA 27225262.26 DATE: 12/30/2025

SUBJECT: Clinton County Sanitary Landfill- East North MSWLF Unit - 23-SDP-01-74P - 2025 Annual Water Quality Report TRANSMITTAL ID: 00002

PURPOSE: For your approval VIA: Info Exchange

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TO

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REMARKS: Mike -

Please find for download the Clinton County Sanitary Landfill-East North MSWLF Unit 2025 Annual Water Quality Report. Please let us know if you have any questions or comments.

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DESCRIPTION OF CONTENTS

QTY	DATED	TITLE	NOTES
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Transmittal

DATE: 12/30/2025
TRANSMITTAL ID: 00002

COPIES:

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Brad Seward	(Clinton County Area Solid Waste Agency)
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Tim Buelow	(SCS Engineers)
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December 30, 2025
File No. 27225262.26

Mr. Mike Smith, P.E.
Iowa Department of Natural Resources
Land Quality Bureau
6200 Park Avenue
Des Moines, Iowa 50321

Subject: 2025 Annual Water Quality Report
Clinton County Sanitary Landfill-East
North MSWLF Unit
Permit No. 23-SDP-01-74P

Dear Mike:

SCS Engineers, on behalf of the Clinton County Area Solid Waste Agency, has completed the water quality monitoring and data evaluation for the North municipal solid waste landfill unit (North MSWLF unit) at the Clinton County Sanitary Landfill - East for the year 2025. Services were performed in general accordance with the 1989 Iowa Administrative Code (IAC) Section 103.26(4) and the current permit requirements for implementation of the Hydrologic Monitoring System Plan. Please find enclosed a copy of the 2025 Annual Water Quality Report for the North MSWLF unit.

If you have any questions regarding this report, please contact Nathan Ohrt at (712) 661-9682.

Sincerely,



Semir Omerovic
Associate Professional
SCS Engineers



Timothy C. Buelow, P.E.
Senior Project Advisor
SCS Engineers

SO/TCB

Copies: Mr. Brad Seward, Clinton County Area Solid Waste Agency



2025 Annual Water Quality Report

Clinton County Sanitary Landfill – East
North MSWLF Unit
Clinton, Iowa
Permit No. 23-SDP-01-74P

Prepared for:

Clinton County Area Solid Waste Agency

SCS ENGINEERS

27225262.26 | December 2025

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Table of Contents

Section	Page
Certification	iii
1.0 Introduction.....	1
1.1 Report Priority	1
1.2 Response to DNR Comments	1
1.3 Site Location	1
1.4 Background.....	1
1.5 Sampling Summary	1
2.0 Hydrogeologic Site Summary	2
2.1 Geology of the Site	2
2.2 Hydrology of the Site	2
3.0 Monitoring Well Maintenance and Performance Evaluation	3
3.1 Water Level Measurements.....	3
3.2 Groundwater Flow	4
3.3 Well Depth Evaluation	4
3.4 Well Recharge Evaluation	5
3.5 Monitoring System Recommendations.....	5
4.0 Evaluation of Water Quality Parameters.....	5
4.1 Data Evaluation	5
4.2 Statistical Evaluation.....	5
4.2.1 Mann-Kendall Trend Testing.....	5
4.2.2 Confidence Interval/Confidence Band Evaluation	6
4.3 Geochemical Evaluation and Natural Attenuation Evaluations.....	7
4.4 Maximum Contaminant Levels.....	7
4.5 Potential Receptors	7
4.6 QA/QC Information	7
4.6.1 Sample Collection and Sample Handling.....	8
4.6.2 Analytical Sensitivity and Blanks	8
4.6.3 Accuracy.....	8
4.6.4 Precision	8
4.7 Conclusions and Recommendations for Future Monitoring.....	9
5.0 General Comments.....	10

Tables

Table 1.	2025 Reporting Period Monitoring Summary	1
Table 2.	Summary of Groundwater Elevations	4
Table 3.	Summary of Groundwater Levels and Well Performance	4
Table 4.	SSLs Above the GWPS	6
Table 5.	2025 Summary of U.S. EPA MCL Exceedances	7
Table 6.	2026 AWQR Reporting Period Sampling Schedule	9
Table 7.	2027 AWQR Reporting Period Sampling Schedule	9

Figures

Figure 1.	Approved Monitoring Network
Figure 2.	Groundwater Contours

Appendices

Appendix A	Field Sampling Forms
Appendix B-1	Laboratory Analytical Data Sheets
Appendix B-2	Data Validation Documentation
Appendix C	Summary of Groundwater Chemistry
Appendix D	Time Series Graphs
Appendix E	Mann-Kendall Summary Table and Graphs
Appendix F	Confidence Interval Summary Table and Graphs
Appendix G	Theil-Sen Confidence Band Summary Table and Graphs

CERTIFICATION

Prepared by:  Date: 12-30-2025

Typed: Semir Omerovic

Reviewed by:  Date: 12-30-2025

Typed: Timothy C. Buelow, P.E

Certification page (114.26(8)"d")

An annual report summarizing the effect of the facility on groundwater and surface water quality shall be submitted to the department each year. The summary is to be prepared by an engineer registered in the state of Iowa.

	I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.	
	<u></u>	Date: <u>12/30/2025</u>
	Timothy C. Buelow, P.E.	
	License No. 14445	
	My license renewal date is December 31, 2027.	
Pages or sheets covered by this seal:		
<u>All except Appendix B-1.</u>		
<u> </u>		
<u> </u>		

1.0 INTRODUCTION

SCS Engineers (SCS), on behalf of the Clinton County Area Solid Waste Agency (Agency), has completed the required groundwater sampling and statistical evaluation of the North municipal solid waste landfill unit (North MSWLF unit) at the Clinton County Sanitary Landfill – East (Landfill). This report has been prepared in accordance with the requirements of the 1989 Iowa Administrative Code (IAC) 567-103(455B) and the permit most recently renewed on October 28, 2025 (Doc #114579). The report summarizes the 2025 groundwater monitoring program and provides analysis of the data collected for the North MSWLF unit.

1.1 REPORT PRIORITY

There is no report priority regarding groundwater monitoring at this time.

1.2 RESPONSE TO DNR COMMENTS

There are currently no outstanding comments regarding water quality items from the Iowa Department of Natural Resources (DNR) that require response at this time.

1.3 SITE LOCATION

The Landfill property is shown on **Figure 1, Approved Monitoring Network**. The property consists of approximately 330 acres located along 220th Street, approximately 5 miles west of Clinton, Iowa and is located within the S $\frac{1}{2}$, NE $\frac{1}{4}$; E $\frac{1}{2}$, SW $\frac{1}{4}$; and the SE $\frac{1}{4}$ of Section 33, in Township 82 North, Range 6 East, in Clinton County, Iowa.

1.4 BACKGROUND

Solid waste disposal was initiated at the Landfill on December 13, 1974, and the Landfill has been operated as a county-owned facility since that time. The Landfill is comprised of a North MSWLF unit, which has not received waste since prior to October 1994, and a South MSWLF unit that is actively receiving waste.

1.5 SAMPLING SUMMARY

Table 1 below summarizes the Hydrologic Monitoring System Plan (HMSP) monitoring points and sampling conducted during the 2025 semi-annual sampling events.

Table 1. 2025 Reporting Period Monitoring Summary

Aquifer	Monitoring Point	March 2025	November 2025
Shallow	MW-06-7R (u)	Appendix I, TSS	Appendix I, TSS
	MW-90-5	Not Sampled – Well Obstruction	Appendix I VOCs
	MW-90-13	Appendix I VOCs	Appendix I VOCs
	MW-03-16	Appendix I, TSS	Appendix I, TSS
	PZ-R3	Appendix I VOCs	Appendix I VOCs, Arsenic, TSS
	PZ-R4	Appendix I, TSS	Appendix I, TSS
Deep	MW-06-6R (u)	Appendix I metals list ⁽¹⁾ , TSS	Appendix I metals list ⁽¹⁾ , TSS
	MW-90-15R	Biennial Sample ⁽²⁾	Biennial Sample ⁽²⁾
	PZ-2-R16	Biennial Sample ⁽²⁾	Biennial Sample ⁽²⁾
Supplemental	PZ-6-R16	Biennial Sample ⁽²⁾	Biennial Sample ⁽²⁾
	PZ-11	Biennial Sample ⁽²⁾	Biennial Sample ⁽²⁾

Aquifer	Monitoring Point	March 2025	November 2025
Supplemental	PZ-12	Biennial Sample ⁽²⁾	Biennial Sample ⁽²⁾
	MW-36	Biennial Sample ⁽²⁾	Biennial Sample ⁽²⁾
	MW-38	Biennial Sample ⁽²⁾	Biennial Sample ⁽²⁾

(u) – Upgradient well

TSS – Total Suspended Solids

(1) Appendix I metals list includes arsenic, barium, beryllium, cadmium, cobalt, copper, lead, nickel, and vanadium.

(2) The monitoring point is sampled biennially. The next sampling event is scheduled for 2026.

The reporting period for this Annual Water Quality Report (AWQR) is January to December 2025 and includes the March and November 2025 sampling events. The field sampling forms and laboratory analytical data sheets for the 2025 sampling events are included in **Appendices A and B-1**, respectively.

2.0 HYDROGEOLOGIC SITE SUMMARY

2.1 GEOLOGY OF THE SITE

Previous subsurface assessments indicated that the regional stratigraphy located within the Landfill area is Wisconsin age loess consisting of wind-deposited silts. The loess is approximately 1 to 30 feet thick and is underlain by Pre-Illinoian age paleosols and glacial tills. The glacial tills are of the Wolf Creek Formation and consist of clays and sandy clays with various amounts of sand and gravel and range in thickness from less than 1 foot to 75 feet. These overburden deposits are underlain by Silurian age dolomites. The first aquifer is the Silurian dolomite. The Silurian rocks are underlain by Ordovician age Maquoketa shale. Pennsylvanian age clays, silts, and sands have been noted in cavities and caverns within the Silurian dolomites near Clinton, Iowa, but Devonian age rocks are absent in this portion of Iowa (Indeco, Inc. 1991).

Locally around the Landfill area the Silurian rocks are approximately 100 to 200 feet thick. These Paleozoic rocks dip gently towards the south to southwest about 12 feet per mile. The gentle regional dip is due to a structural feature known as the East Central Iowa Basin, formed during Silurian time, and is attributed to the varying character of the Silurian rocks. The lower sections of the Silurian carbonates are cherty, sandy, and argillaceous. In the upper sections they are reef-like, very soft, and porous (Indeco, Inc., 1991).

2.2 HYDROLOGY OF THE SITE

According to the document entitled *Clinton County Area Solid Waste Agency, Clinton County, Iowa, East Site – Soils Exploration, Monitoring Well Construction, and Hydrologic Monitoring System Report* prepared by Indeco, Inc. in March 1991, an overview of the hydrogeology in the area of the Landfill was described as follows:

The landfill site is set within a region consisting of glacial deposits over sedimentary rocks, ranging from New York to the Great Plains. The principal feature of this glaciated region is the yield of groundwater from glacial drift, with the majority of this groundwater contained within outwash plains and buried bedrock valleys. Most of the glacial drift is fine grained, but there are numerous sand and gravel deposits which yield various amounts of groundwater. The Silurian-Devonian shallow bedrock aquifer underlies 87 percent of the state of Iowa and is the uppermost bedrock in 21 percent of the state. This aquifer is a significant source of water for 30 percent of the state and yields 500 to 1000 gpm in the stream valleys and 100 gpm in the upland areas.

Waters within the Silurian-Devonian aquifers occur in joints, fractures, bedding planes and solution cavities. Since the Devonian rocks are absent in the east-central portion of the state, the Silurian rocks are the contributors for local shallow bedrock supplies. The waters are found mainly in the upper strata of the Silurian where porous reefs facies contribute the majority of the waters and the joints, fractures, and bedding planes are secondary. The overall groundwater movement in the Silurian-Devonian aquifer generally follows the direction of the surface flow of the major streams, that is, southeasterly with discharge to the Mississippi River. The elevation of the Silurian aquifer in the vicinity of the landfill site is between 650 and 700 feet msl.

Major deep bedrock aquifers include limestones and sandstones of Paleozoic age. Some of these are widespread and include the: (1) Mt. Simon Sandstone; (2) Galesville Sandstone; (3) Ironton Sandstone; (4) Franconia Sandstone; (5) Jordan Sandstone; and (6) Trempealeau Formation, all of the Cambrian system. These deep aquifers also include the Prairie Du Chien formation and St. Peter Sandstone of the Ordovician system. These are the deep bedrock aquifers of eastern Iowa, southern Minnesota, southern Wisconsin, and northern Illinois.

Less permeable beds of the Maquoketa shales confine the groundwater in the Cambrian-Ordovician from the overlying bedrock aquifers. Recharge for the deep bedrock aquifers is in southern Minnesota and regional flow is to the southeast. The yield from the deep bedrock aquifers is from a few hundred gpm to 2,000 gpm.

3.0 MONITORING WELL MAINTENANCE AND PERFORMANCE EVALUATION

The hydrologic monitoring system was re-evaluated to assess the reliability of the monitoring point's performance using the following tasks.

- The high and low groundwater levels were compared to the well depth/screened interval.
- Water level conditions in the monitoring wells were reviewed to evaluate possible changes in the hydrologic setting/flow paths.
- Well depths were measured to evaluate the potential effect of siltation on well integrity.
- A biennial well recharge evaluation is included to evaluate potential changes in the ability of the monitoring well to transmit groundwater.

Additionally, a visual inspection of well integrity was performed during the sampling events.

3.1 WATER LEVEL MEASUREMENTS

The results of the water level measurements taken by SCS Engineers during the two most recent years of semi-annual sampling events are shown in **Table 2**. Groundwater levels were above the screened interval for monitoring wells measured during all sampling events.

Table 2. Summary of Groundwater Elevations

Well	Top of Screen	Groundwater Elevation			
		5/6/2024	11/6/2024	3/27/2025	11/6/2025
MW-06-7R	713.39	725.69	719.98	719.45	718.29
MW-90-5	710.71	719.00	716.72	NM	715.06
MW-90-13	656.80	670.46	670.49	671.74	670.09
MW-03-16	676.40	686.43	686.77	687.24	686.15
PZ-R3	675.50	678.48	678.94	679.05	677.73
PZ-R4	667.78	672.01	672.24	672.28	671.34
MW-06-6R	678.46	720.75	715.88	715.21	714.22
MW-90-15R	654.22	NM	657.62	NM	NM

NM – Not Measured

3.2 GROUNDWATER FLOW

Groundwater contours were determined using groundwater elevation data collected during the November 2025 sampling event. The groundwater contours, shown in **Figure 2**, representing the water table in the shallow monitoring wells, indicate a general flow direction to the east towards the ravines on the east side of the North MSWLF unit. This is consistent with historical groundwater contour maps.

3.3 WELL DEPTH EVALUATION

IAC 567-110.9(2)"c" requires annual measurements of well depths to ensure that wells are physically intact and not filling with sediment. Monitoring well MW-06-7R and MW-90-15R are equipped with dedicated submersible sampling pumps and total well depths are measured every five years; well depths were last measured in 2022 and will be measured next in 2027. Total well depth in monitoring well MW-06-6R was measured during the November 2025 sampling event and will be measured next in 2030. The March and November 2025 well depth measurements are included in **Table 3**.

Table 3. Summary of Groundwater Levels and Well Performance

Monitoring Well	Installed Well Depths (feet)	March 2025		November 2025	
		Measured Depth (feet)	Difference from Constructed Depth	Measured Depth (feet)	Difference from Constructed Depth
MW-90-5	29.5	NM	NA	30.0	-0.5
MW-90-13	25.0	24.3	0.7	24.3	0.7
MW-03-16	25.3	24.7	0.6	24.7	0.6
PZ-R3	11.4	11.2	0.2	11.2	0.2
PZ-R4	16.8	13.4	3.4	13.8	3.0
MW-06-6R	77.8	NM	NA	76.2	1.6

As shown in **Table 3**, the measured well depths were within 1.6 feet of the installed depths, with the exception of monitoring well PZ-R4. PZ-R4 has historically had a measured total depth that has fluctuated between 13.8 and 17.8 feet since 2009. As samples were collected from the monitoring wells during the 2025 sampling events, it appears that well siltation is not affecting the wells' ability to consistently produce samples.

3.4 WELL RECHARGE EVALUATION

As approved in Amendment #12 dated September 11, 2014 (Doc #81185), biennial evaluations of well recharge rates and chemistry to determine if well deterioration is occurring in accordance with IAC 567-113.10(2)"f"(4) are required in lieu of in-situ permeability testing. A well recharge evaluation was last included in the 2024 AWQR and will be included next in the 2026 AWQR.

3.5 MONITORING SYSTEM RECOMMENDATIONS

No changes to the monitoring system are recommended for the upcoming reporting period.

4.0 EVALUATION OF WATER QUALITY PARAMETERS

The historical analytical results of the groundwater monitoring points for the North MSWLF unit are presented in **Appendix C (Summary of Groundwater Chemistry)**. Time series graphs are included in **Appendix D**.

4.1 DATA EVALUATION

Groundwater monitoring for the North MSWLF unit consists of samples from one monitoring well between the North and South MSWLF units, one in Ravine #3/4, and four monitoring wells in Ravine #2. The two upgradient wells are located northwest of the unit. Numerous supplemental monitoring wells, sampled biennially and utilized for geochemistry and natural attenuation evaluation and impact delineation, are located within or adjacent to Ravine #2.

Groundwater impact from volatile organic compounds (VOCs) is evident in monitoring wells MW-90-5, MW-90-13, and MW-03-16. Each of the seven detected VOCs was measured at site-wide maximum concentrations in either monitoring well MW-90-5, MW-90-13, or MW-03-16. Monitoring well MW-03-16 also had site-wide maximum concentrations for four inorganic parameters. MW-03-16 is analyzed for Appendix I and TSS, and MW-90-5 and 90-MW-13 are analyzed for Appendix I VOCs only.

Concentrations above the groundwater protection standards (GWPS) included arsenic, cobalt, and benzene in monitoring well MW-03-16, arsenic and cobalt in PZ-R4, trichloroethene in monitoring well MW-90-5, benzene in monitoring well MW-90-13, and arsenic in PZ-R3.

4.2 STATISTICAL EVALUATION

In order to evaluate the site with more powerful statistical methods than those required under the 1989 IAC 567-103, this statistical evaluation was performed in general accordance with IAC 567-113.10(6), using assessment monitoring analyses including Mann-Kendall trend testing and confidence interval/confidence band evaluations.

4.2.1 Mann-Kendall Trend Testing

Mann-Kendall trend testing performed at 99% confidence ($\alpha = 0.01$) indicated one statistically significant increasing trend for 1,4-dichlorobenzene in monitoring well MW-90-13. There were two statistically significant decreasing trends: one for cobalt in monitoring well PZ-R4, and one for tetrachloroethene in monitoring well MW-90-5.

Trend indications for wells in the monitoring program are shown in the table below. The statistics used to develop the general trending differ from the Mann-Kendall statistics used in the diagnostics section of the statistical evaluation in that a much lower trend threshold is applied for the general

trending information ($\alpha=0.20$ versus $\alpha=0.01$). Trends classified as decreasing or increasing exhibited a statistically significant trend with 80% confidence using the entire representative data set for each monitoring well. A summary of Mann-Kendall statistics by constituent in each monitoring point is included in **Appendix E** of this report.

Trending in Monitoring Wells				
Monitoring Well	Decreasing Trends	Stable Trends	Increasing Trends	Number of Constituents Analyzed
MW-03-16	21.88%	68.75%	9.38%	32
MW-06-6R (bg)	10.00%	80.00%	10.00%	10
MW-06-7R (bg)	21.88%	78.13%	0.00%	32
MW-90-13	5.88%	82.35%	11.76%	17
MW-90-5	52.94%	41.18%	5.88%	17
PZ-R3	11.11%	83.33%	5.56%	18
PZ-4	18.75%	75.00%	6.25%	32
Site Wide	18.86%	75.43%	5.71%	175

(bg) indicates a background monitoring point.

Review of the Mann-Kendall statistics indicated that approximately 94% of Mann-Kendall statistics were considered stable or decreasing following the 2025 Fall statistical evaluation.

4.2.2 Confidence Interval/Confidence Band Evaluation

Confidence intervals were calculated to evaluate concentrations at statistically significant levels (SSLs) above GWPSs. Confidence bands were used to evaluate SSLs for constituents with statistically significant trends. SSLs above the GWPSs are summarized in **Table 4**.

Table 4. SSLs Above the GWPS

Monitoring Well	SSLs
MW-90-5	Trichloroethene
MW-90-13	None
MW-90-15R	None
MW-03-16	Arsenic, Cobalt, Benzene
PZ-R3	None
PZ-R4	Arsenic

The SSLs measured during this reporting period are unchanged from the previous two reporting periods with the exception of arsenic added and cobalt removed in monitoring well PZ-R4. The confidence interval summary table and graphs and Theil-Sen confidence band summary table and graphs are included in **Appendices F** and **G**, respectively.

4.3 GEOCHEMICAL EVALUATION AND NATURAL ATTENUATION EVALUATIONS

As approved in correspondence dated April 14, 2021 (Doc #100209), sampling and analysis for geochemistry and natural attenuation will be performed biennially. The evaluations were included in the 2024 AWQR with sampling and analysis scheduled to occur next in 2026.

4.4 MAXIMUM CONTAMINANT LEVELS

The measured concentrations were compared to current United States Environmental Protection Agency (U.S. EPA) Maximum Contaminant Levels (MCLs). A summary of MCL exceedances is shown in **Table 5**.

Table 5. 2025 Summary of U.S. EPA MCL Exceedances

Constituent	MCL	MW-90-5	MW-90-13	MW-03-16	PZ-R3	PZ-R4
Arsenic	0.01 mg/L			3, 11	3, 11	3, 11
Benzene	5 µg/L		11	3, 11		
Trichloroethene	5 µg/L	11				

3 = March 2025 Sampling Event

11 = November 2025 Sampling Event

The MCL exceedances for arsenic and cobalt at monitoring wells MW-03-16, PZ-R3, and PZ-R4 and benzene at monitoring well MW-03-16 are considered bracketed at this time. The MCL exceedance measured at monitoring well MW-90-5 is bracketed by the South MSWLF unit. The November 2025 sampling event benzene exceedance at monitoring well MW-90-13 was the first benzene exceedance at this well in the historical record back to 2014. Sampling in 2026 will be used to confirm if elevated benzene concentrations remain at this monitoring well.

4.5 POTENTIAL RECEPTORS

Pursuant to guidance from the DNR, if MCLs are exceeded at any groundwater monitoring point, information is to be provided regarding potential receptors. As shown in Section 4.4, MCLs were exceeded in monitoring wells MW-03-16, MW-90-5, MW-90-13, PZ-R3, and PZ-R4. A well search performed in November 2019 indicated one well within a 1,000-foot radius from the Landfill (XY UTM coordinates: 727123/4638239). The well is listed on the private well tracking system and owned by the Clinton County Landfill. The well status is listed as plugged. Well search documentation was included in Appendix J of the 2020 AWQR (Doc #99026). A potential receptor downgradient from MW-03-16 is a tributary of Mill Creek. Based on concentrations measured in downgradient monitoring wells in Ravine #2, it is unlikely the potential receptor is impacted.

4.6 QA/QC INFORMATION

The quality assurance/quality control (QA/QC) program for the North MSWLF unit follows protocols similar to those in the HMSP. Data validation procedures were performed on analytical results for laboratory quality control samples and a quality assurance assessment of the data was conducted as the data were generated. The QA review procedure provided documentation of the accuracy and precision of the analytical data and confirmed that the analyses were sufficiently sensitive to detect constituents at levels below regulatory standards when technically feasible with the laboratory method utilized. SCS then conducted QA/QC data validation of the produced data, which included a review of sample handling, analytical sensitivity, and blanks, accuracy, and precision. The data

validation checklists are provided in **Appendix B-2**. An explanation of the laboratory QA/QC and data validation procedures is described in more detail below.

4.6.1 Sample Collection and Sample Handling

Sample receipt forms were reviewed by SCS and checked to verify that samples were received in good condition and within the acceptable temperature range. Chain of custody records for each sampling event were reviewed and confirmed that information was complete, custody was not breached, and samples were analyzed within the acceptable hold times.

4.6.2 Analytical Sensitivity and Blanks

Laboratory QA/QC procedures and post-analysis data validation assist in producing data of acceptable quality and reliability. Eurofins is a certified laboratory in Iowa and performs QA/QC procedures, which included analyzing laboratory method blanks in association with samples collected for the project to check for contributions to the analytical results possibly attributable to laboratory-based contamination. Trip blanks were submitted with groundwater samples for VOCs analysis and verified that cross-contamination did not occur during sample handling and transport. Trip blanks and method blanks had no detections during this reporting period.

4.6.3 Accuracy

Laboratory analytical accuracy can be assessed by evaluating the constituent recoveries from initial and continuing calibration verification (ICV/CCV) and laboratory control samples and duplicates (LCS/LCSD). LCS/LCSD samples assess the accuracy of analytical procedures by checking the ability to recover constituents added to clean aqueous matrices. In some cases, the laboratory spiked project samples as matrix spike and duplicate (MS/MSD) samples to assess the ability to recover constituents from a matrix similar to that of project samples. Accuracy was also assessed for organic analyses by evaluating the recovery of analyte surrogates added to project samples. The post-analysis data validation conducted by SCS confirmed that the laboratory had performed QA/QC of its laboratory control samples and made recommendations on how to proceed with data that had possibly been compromised, if applicable.

4.6.4 Precision

According to Practical Guide for Ground-Water Sampling, Barcelona et al, November 1985, prepared in cooperation with the Robert S. Kerr Environmental Research Laboratory and the United States Environmental Protection Agency's Environmental Monitoring System Laboratory:

"Duplicate sample values which differ by less than $\pm 50\%$ relative difference indicate good error control."

Duplicate samples were collected during each sampling event to evaluate the precision of analytical measurements, as well as the reproducibility of sampling technique. Duplicate samples were chosen at random and are typically for Appendix I parameters and TSS. The relative percent difference (RPD); difference between the sample and its field duplicate divided by the mean of the two) was calculated to evaluate the precision of the data. The RPD can be evaluated only if the results of the analyses for both samples are detected quantitatively (above the reporting limit).

During the March 2025 sampling event, the concentrations reported in the sample MW-03-16 and duplicate sample MW-D had <50% relative difference for analyzed parameters. Concentrations

measured at J flags and TSS were not considered in the duplicate comparison. These results indicate that a problem with sampling or analysis is not likely to have occurred.

During the November 2025 sampling event, the concentrations reported in the sample MW-03-16 and duplicate sample MW-D had <50% relative difference for analyzed parameters, with the exception of chromium (detected in MW-03-16 but not MW-D). Concentrations measured at J flags and TSS were not considered in the duplicate comparison. These results indicate that a problem with sampling or analysis is not likely to have occurred.

4.7 CONCLUSIONS AND RECOMMENDATIONS FOR FUTURE MONITORING

The recommended sampling schedules for the upcoming two reporting periods are summarized in Tables 6 and 7.

Table 6. 2026 AWQR Reporting Period Sampling Schedule

Aquifer	Monitoring Point	1 st 2026 Semi-Annual	2 nd 2026 Semi-Annual
Shallow	MW-06-7R (u)	Appendix I, TSS	Appendix I, TSS
	MW-90-5	Appendix I VOCs	Appendix I VOCs
	MW-90-13	Appendix I VOCs	Appendix I VOCs
	MW-03-16	Appendix I, TSS	Appendix I, TSS, Geochemistry, NA ⁽²⁾⁽³⁾
	PZ-R3	Appendix I VOCs	Appendix I VOCs, Arsenic, TSS, Geochemistry, NA ⁽²⁾⁽³⁾
	PZ-R4	Appendix I, TSS	Appendix I, TSS, Geochemistry, NA ⁽²⁾⁽³⁾
Deep	MW-06-6R (u)	Appendix I metals list ⁽¹⁾ , TSS	Appendix I metals list ⁽¹⁾ , TSS
	MW-90-15R		Appendix I VOCs
	PZ-2-R16		Geochemistry, NA
Supplemental	PZ-6-R16		Geochemistry, NA
	PZ-11		Appendix I metals list ⁽¹⁾ , TSS, Geochemistry, NA ⁽²⁾⁽³⁾
	PZ-12		Appendix I metals list ⁽¹⁾ , TSS, Geochemistry, NA ⁽²⁾⁽³⁾
	MW-36		Arsenic, Cobalt, TSS, Benzene
	MW-38		Arsenic, Cobalt, TSS, Benzene

(u) – Upgradient well

TSS – Total Suspended Solids

(1) Appendix I metals list includes arsenic, barium, beryllium, cadmium, cobalt, copper, lead, nickel, and vanadium.

(2) Geochemistry parameters include calcium, sodium, magnesium, potassium, chloride, bicarbonate, carbonate, and sulfate.

(3) NA – Natural attenuation parameters include sulfate, total iron, total manganese, total organic carbon, and nitrate

Table 7. 2027 AWQR Reporting Period Sampling Schedule

Aquifer	Monitoring Point	1 st 2027 Semi-Annual	2 nd 2027 Semi-Annual
Shallow	MW-06-7R (u)	Appendix I, TSS	Appendix I, TSS
	MW-90-5	Appendix I VOCs	Appendix I VOCs
	MW-90-13	Appendix I VOCs	Appendix I VOCs
	MW-03-16	Appendix I, TSS	Appendix I, TSS
	PZ-R3	Appendix I VOCs, Arsenic, TSS	Appendix I VOCs, Arsenic, TSS
	PZ-R4	Appendix I, TSS	Appendix I, TSS

Aquifer	Monitoring Point	1 st 2027 Semi-Annual	2 nd 2027 Semi-Annual
Deep	MW-06-6R (u)	Appendix I metals list ⁽¹⁾ , TSS	Appendix I metals list ⁽¹⁾ , TSS
	MW-90-15R	Biennial Sample ⁽²⁾	Biennial Sample ⁽²⁾
	PZ-2-R16	Biennial Sample ⁽²⁾	Biennial Sample ⁽²⁾
Supplemental	PZ-6-R16	Biennial Sample ⁽²⁾	Biennial Sample ⁽²⁾
	PZ-11	Biennial Sample ⁽²⁾	Biennial Sample ⁽²⁾
	PZ-12	Biennial Sample ⁽²⁾	Biennial Sample ⁽²⁾
	MW-36	Biennial Sample ⁽²⁾	Biennial Sample ⁽²⁾
	MW-38	Biennial Sample ⁽²⁾	Biennial Sample ⁽²⁾

(u) – Upgradient well

TSS – Total Suspended Solids

(1) Appendix I metals list includes arsenic, barium, beryllium, cadmium, cobalt, copper, lead, nickel, and vanadium.

(2) The monitoring point is sampled biennially. The next sampling event is scheduled for 2028.

5.0 GENERAL COMMENTS

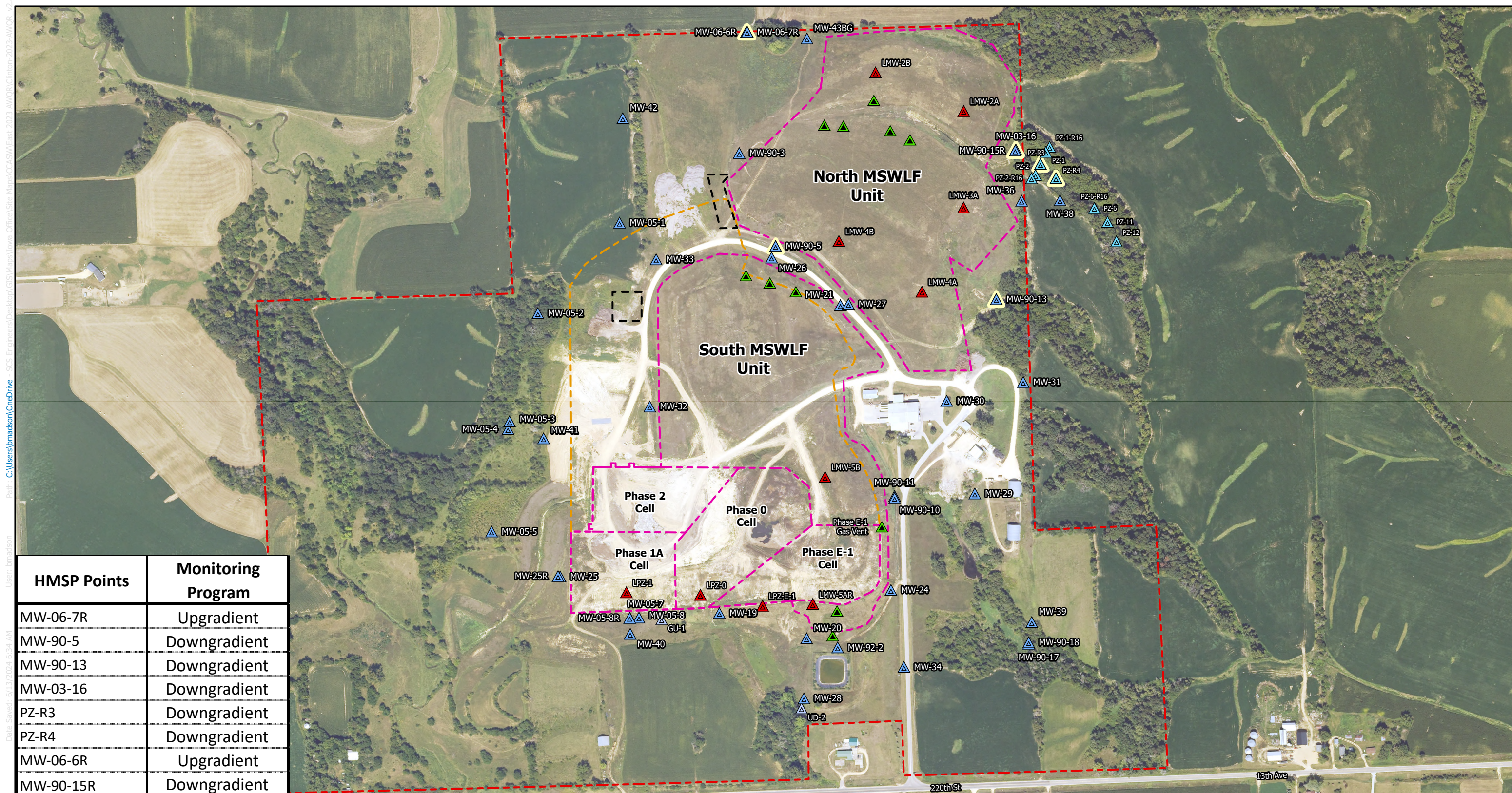
The analysis and opinions expressed in this report are based upon data obtained from the samples collected at the indicated locations and from any other information discussed in this report. This report does not reflect any variation in subsurface stratigraphy, hydrogeology, or chemical concentrations that may occur between sampling locations or across the site. Actual subsurface conditions may vary and may not become evident without further exploration.

SCS has prepared this report for the exclusive use of our client for the specific application to the project discussed. No warranty is expressly stated or implied in this report. SCS has relied upon information furnished by others as noted in the report, and SCS accepts no responsibility for any deficiency, misstatements, or inaccuracy in this report as a result of misstatements, omissions, misrepresentations, fraudulent, or inaccurate information or data provided by others.

Figures

- 1 Approved Monitoring Network
- 2 Groundwater Contours

C:\Users\hmadson\OneDrive - SCS Engineers\Desktop\GIS\Map\North MSWLF Unit - East\North MSWLF Unit - East.aprx
User: hmadson
Date Saved: 6/13/2024 6:24 AM



HMSP Points	Monitoring Program
MW-06-7R	Upgradient
MW-90-5	Downgradient
MW-90-13	Downgradient
MW-03-16	Downgradient
PZ-R3	Downgradient
PZ-R4	Downgradient
MW-06-6R	Upgradient
MW-90-15R	Downgradient

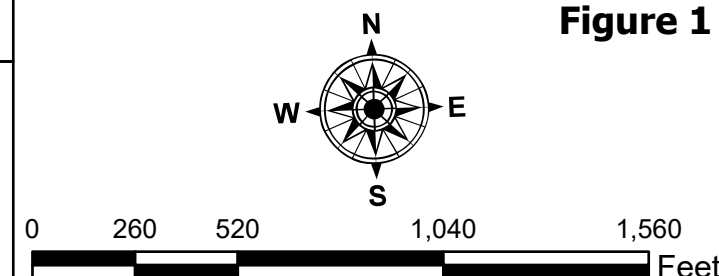


environmental consultants and contractors

Approved Monitoring Network

Legend	- HMSP Monitoring Well - HMSP Groundwater Piezometer - Monitoring Well - Groundwater Underdrain - Groundwater Piezometer - Leachate Monitoring Location - Gas Vent - Petroleum Contaminated Soils Area - Approximate Future Waste Boundary - Approximate Property Boundary - Approximate Current Waste Boundary	Clinton County Sanitary Landfill - East North MSWLF Unit Clinton, Iowa Project No: 27225262.26 Drawing Date: Nov. 2025
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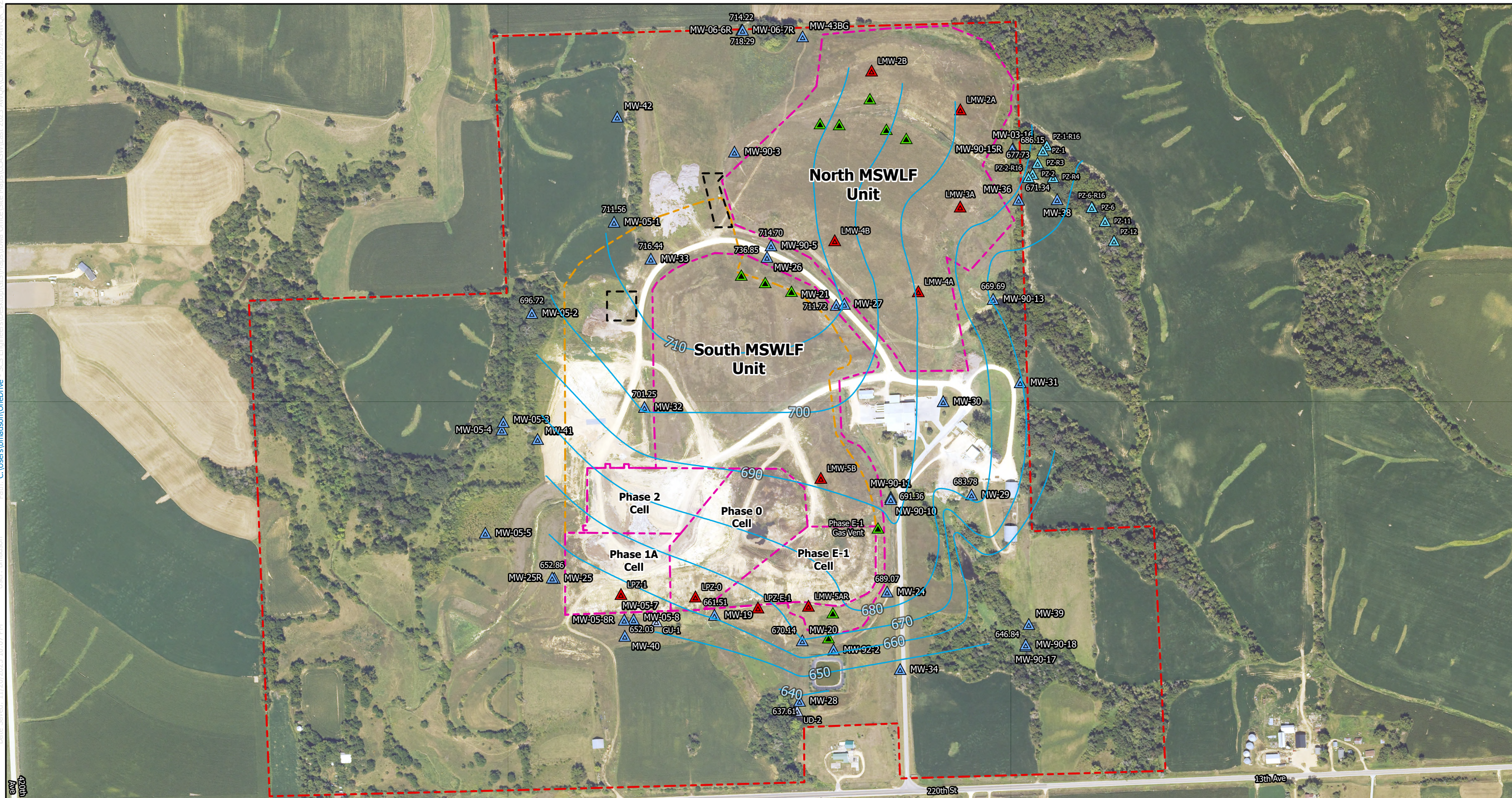
Figure 1



0 260 520 1,040 1,560 Feet

ESRI, COGNIS, USGS, Sources: Esri, TomTom, Garmin, FRC, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, USDA NARS, Iowa State University GIS Facility

C:\Users\bmadsen\OneDrive - SCS Engineers\Desktop\GIS\Map\Iowa Office\Site Maps\East Unit\Shallow Groundwater Contours - 2025 - ANWOR - v2.aprx
Date Saved: 11/20/2025 10:07 PM
User: bmadsen



Shallow Groundwater Contours

Legend

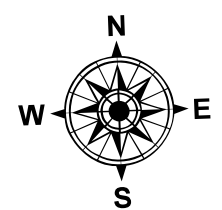
Groundwater Contours Based on Field Measurements Taken November 3-6, 2025

- Monitoring Well
- Groundwater Underdrain

- Groundwater Piezometer
- Leachate Monitoring Location
- Gas Vent
- Petroleum Contaminated Soils Area

- Approximate Future Waste Boundary
- Approximate Property Boundary
- Approximate Current Waste Boundary

Clinton County Sanitary
Landfill - East
North MSWLF Unit
Clinton, Iowa
Project No: 27225262.26
Drawing Date: Nov. 2025



0 260 520 1,040 1,560
Feet

Figure 2



Appendix A

Field Sampling Forms

FORM FOR GROUNDWATER SAMPLING

Project: Clinton County Sanitary Landfill East-North	
Monitoring Well/Piezometer ID: MW-03-16	Date: 3/24/2025
Gradient: Down	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	24.4
Initial Static Water Level (feet):	4.31
Initial Groundwater Elevation (ft-amsl):	687.39
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
3:16 PM	Purging start time.						
3:19 PM	9.6	0.1	2446.7	6.71	-138.3	15.1	
3:22 PM	9.5	<0.1	2474.8	6.72	-154.5	16.0	
3:25 PM	9.5	<0.1	2478.8	6.73	-162.1	12.5	
3:28 PM	9.5	<0.1	2476.8	6.73	-166.2	11.7	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	1.9
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	158.33

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color: Clearish, orange tinge Odor: Sulfur and burnt plastic

FORM FOR GROUNDWATER SAMPLING

Project: Clinton County Sanitary Landfill East-North	
Monitoring Well/Piezometer ID: MW-06-6R	Date: 3/24/2025
Gradient: Up	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? Yes	
Litter/Standing Water? No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	NM
Initial Static Water Level (feet):	31.09
Initial Groundwater Elevation (ft-amsl):	715.21
Equipment Used:	Non-dedicated Submersible

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
1:55 PM	Purging start time.						
1:58 PM	10.7	0.3	676.6	6.89	-74.3	102.1	
2:01 PM	10.8	0.2	677.6	6.98	-106.5	82.1	
2:04 PM	10.7	0.1	678.5	7.04	-124.9	70.4	
2:07 PM	10.8	0.1	677.9	7.06	-135.9	64.9	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.1
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	175.00

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color: Clear Odor: Sulfur

FORM FOR GROUNDWATER SAMPLING

Project: Clinton County Sanitary Landfill East-North	
Monitoring Well/Piezometer ID: MW-06-7R	Date: 3/24/2025
Gradient: Up	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? Yes	
Litter/Standing Water? No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet):	NM
Initial Static Water Level (feet):	26.80
Initial Groundwater Elevation (ft-amsl):	719.45
Equipment Used:	Dedicated Submersible

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
2:38 PM	Purging start time.						
2:41 PM	11.1	0.6	560.4	7.19	-161.0	62.2	
2:44 PM	11.4	0.2	559.6	7.18	-165.3	29.2	
2:47 PM	11.5	0.1	559.4	7.18	-166.5	18.8	
2:50 PM	11.5	0.0	559.4	7.16	-166.7	13.8	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.1
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	175.00

D. WELL MAINTENANCE

Does the well require any future maintenance? No	
If yes, explain:	
Additional Comments:	Color: Clear Odor: Sulfur

FORM FOR GROUNDWATER SAMPLING

Project: Clinton County Sanitary Landfill East-North	
Monitoring Well/Piezometer ID: MW-90-5	Date: 3/24/2025
Gradient: Down	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	NM
Initial Static Water Level (feet):	NM
Initial Groundwater Elevation (ft-amsl):	NA
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
	Purging start time.						
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	NA
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	NA
Average Purge Rate (mL/min):	NA

D. WELL MAINTENANCE	
Does the well require any future maintenance?	Yes
If yes, explain:	Well is obstructed. Dirt is lodged in the pipe.
Additional Comments:	

FORM FOR GROUNDWATER SAMPLING

Project: Clinton County Sanitary Landfill East-North	
Monitoring Well/Piezometer ID: MW-90-13	Date: 3/24/2025
Gradient: Down	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? Yes	
Litter/Standing Water? Yes	Ponding

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	24.3
Initial Static Water Level (feet):	0.02
Initial Groundwater Elevation (ft-amsl):	671.91
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
5:40 PM	Purging start time.						
5:43 PM	8.9	0.4	3152.3	6.42	-69.9	16.3	
5:46 PM	8.7	0.0	3175.9	6.43	-76.5	37.8	
5:49 PM	8.5	<0.1	3180.2	6.43	-81.8	8.9	
5:52 PM	8.5	<0.1	3177.5	6.44	-85.7	38.6	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	166.67

D. WELL MAINTENANCE	
Does the well require any future maintenance?	Yes
If yes, explain:	Lots of ponding around well, leachate running out of sump close to well.
Additional Comments:	Color: Clear Odor: Chemicals/plastic

FORM FOR GROUNDWATER SAMPLING

Project: Clinton County Sanitary Landfill East-North	
Monitoring Well/Piezometer ID: PZ-R3	Date: 3/24/2025
Gradient: Down	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? No	Does not have a lock
Litter/Standing Water? No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	11.2
Initial Static Water Level (feet):	2.72
Initial Groundwater Elevation (ft-amsl):	678.72
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
4:17 PM	Purging start time.						
4:20 PM	6.0	1.1	1805.6	7.23	-159.9	177.4	
4:23 PM	5.3	0.3	1735.1	7.23	-157.0	322.3	
4:26 PM	5.2	0.3	1711.3	7.22	-148.5	372.1	
4:29 PM	5.2	0.2	1713.3	7.21	-144.9	361.1	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	1.8
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	150.00

D. WELL MAINTENANCE	
Does the well require any future maintenance?	Yes
If yes, explain:	New lock required
Additional Comments:	Color: Orange Odor: Burnt plastic

FORM FOR GROUNDWATER SAMPLING

Project: Clinton County Sanitary Landfill East-North	
Monitoring Well/Piezometer ID: PZ-R4	Date: 3/24/2025
Gradient: Down	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? Yes	
Litter/Standing Water? Yes	Ponding

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	13.4
Initial Static Water Level (feet):	3.50
Initial Groundwater Elevation (ft-amsl):	672.18
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
5:07 PM	Purging start time.						
5:10 PM	6.6	0.7	1953.1	6.91	-117.1	126.5	
5:13 PM	6.3	0.1	1930.4	6.91	-146.2	59.4	
5:16 PM	6.2	<0.1	1934.7	6.91	-157.2	53.2	
5:19 PM	6.2	<0.1	1939.0	6.91	-163.8	46.2	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	166.67

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color: Orange Odor: Chemical-like, burnt plastic

FORM FOR GROUNDWATER SAMPLING

Project: Clinton County Sanitary Landfill East-North	
Monitoring Well/Piezometer ID: MW-03-16	Date: 11/5/2025
Gradient: Down	Sampler: Michael Morgan

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? Yes	
Litter/Standing Water? No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	24.7
Initial Static Water Level (feet):	5.40
Initial Groundwater Elevation (ft-amsl):	686.30
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
8:38 AM	Purging start time.						
8:41 AM	12.8	2.5	2393.9	6.79	-130.4	14.5	
8:44 AM	12.8	1.1	2287.2	6.80	-141.5	8.1	
8:47 AM	12.9	0.6	2249.5	6.79	-145.4	7.7	
8:50 AM	13.0	0.5	2226.4	6.78	-147.5	7.2	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	1.9
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	158.33

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color: Clear Odor: Plastic/salami Duplicate sample taken.

FORM FOR GROUNDWATER SAMPLING

Project: Clinton County Sanitary Landfill East-North	
Monitoring Well/Piezometer ID: MW-06-6R	Date: 11/6/2025
Gradient: Up	Sampler: Michael Morgan

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	76.2
Initial Static Water Level (feet):	32.08
Initial Groundwater Elevation (ft-amsl):	714.22
Equipment Used:	Non-Dedicated Submersible

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
2:56 PM	Purging start time.						
2:59 PM	12.3	6.5	638.1	7.48	-69.4	75.6	
3:02 PM	11.9	2.6	616.8	7.32	-86.7	26.3	
3:05 PM	11.9	1.6	613.0	7.29	-95.7	29.3	
3:08 PM	11.8	1.1	611.6	7.28	-101.7	29.0	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.4
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	200.00

D. WELL MAINTENANCE	
Does the well require any future maintenance? Yes	
If yes, explain:	Pump problems.
Additional Comments:	Color: Clear Odor: Hard boiled eggs Dedicated submersible pump wouldn't draw water. Non-dedicated stainless-steel pump used to sample. Fine particulate present.

FORM FOR GROUNDWATER SAMPLING

Project: Clinton County Sanitary Landfill East-North	
Monitoring Well/Piezometer ID: MW-06-7R	Date: 11/5/2025
Gradient: Up	Sampler: Michael Morgan

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? Yes	
Litter/Standing Water? No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	NM
Initial Static Water Level (feet):	27.96
Initial Groundwater Elevation (ft-amsl):	718.29
Equipment Used:	Dedicated Submersible

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
11:16 AM	Purging start time.						
11:19 AM	11.8	1.6	532.9	7.43	-136.4	33.1	
11:22 AM	11.9	0.9	527.9	7.36	-135.9	17.5	
11:25 AM	12.3	0.6	523.0	7.35	-136.5	14.2	
11:28 AM	12.6	0.5	525.5	7.34	-136.5	11.3	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	4.2
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	350.00

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color: Orange tint Odor: Slightly earthy Slowest flowrate possible.

FORM FOR GROUNDWATER SAMPLING

Project: Clinton County Sanitary Landfill East-North	
Monitoring Well/Piezometer ID: MW-90-5	Date: 11/6/2025
Gradient: Down	Sampler: Michael Morgan

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? Yes	
Litter/Standing Water? No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	29.9
Initial Static Water Level (feet):	20.51
Initial Groundwater Elevation (ft-amsl):	715.06
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
3:39 PM	Purging start time.						
3:42 PM	13.6	2.7	1682.9	6.10	-4.1	9.1	
3:45 PM	13.4	1.2	1802.2	6.11	-8.4	7.7	
3:48 PM	13.4	0.8	1826.6	6.13	-14.9	7.1	
3:51 PM	13.4	0.6	1836.5	6.14	-17.8	6.9	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	1.4
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	116.67

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	No tubing installed upon arrival at the well. Looked down the well with a flashlight and sent down fishing hook and line but found nothing. Installed 29.5 ft 1/4inch tubing on 11/5/25. Color: Clear Odor: Slight plastic

FORM FOR GROUNDWATER SAMPLING

Project: Clinton County Sanitary Landfill East-North	
Monitoring Well/Piezometer ID: MW-90-13	Date: 11/5/2025
Gradient: Down	Sampler: Michael Morgan

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	24.3
Initial Static Water Level (feet):	1.67
Initial Groundwater Elevation (ft-amsl):	670.24
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
7:46 AM	Purging start time.						
7:49 AM	12.1	2.5	3315.3	6.30	-65.9	5.9	
7:52 AM	11.9	1.0	3412.3	6.28	-75.4	19.9	
7:55 AM	11.9	0.6	3431.0	6.28	-80.3	19.5	
7:58 AM	11.9	0.4	3439.6	6.29	-83.1	12.8	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	1.9
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	158.33

D. WELL MAINTENANCE	
Does the well require any future maintenance? Yes	
If yes, explain:	Lock needed
Additional Comments:	Color: Clear Odor: Plastic Fine particulate present.

FORM FOR GROUNDWATER SAMPLING

Project: Clinton County Sanitary Landfill East-North	
Monitoring Well/Piezometer ID: PZ-R3	Date: 11/5/2025
Gradient: Down	Sampler: Michael Morgan

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? Yes	
Litter/Standing Water? No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	11.2
Initial Static Water Level (feet):	4.04
Initial Groundwater Elevation (ft-amsl):	677.40
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
9:27 AM	Purging start time.						
9:30 AM	12.8	1.9	1811.7	7.08	-129.5	21.3	
9:33 AM	12.8	0.9	1778.8	7.08	-141.1	20.3	
9:36 AM	12.8	0.6	1762.6	7.07	-146.1	26.0	
9:39 AM	12.9	0.4	1758.2	7.07	-148.3	35.8	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	1.7
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	141.67

D. WELL MAINTENANCE	
Does the well require any future maintenance?	Yes
If yes, explain:	Lock needed
Additional Comments:	Color: Slight yellow tint Odor: Slight plastic Fine particulate present.

FORM FOR GROUNDWATER SAMPLING

Project: Clinton County Sanitary Landfill East-North	
Monitoring Well/Piezometer ID: PZ-R4	Date: 11/5/2025
Gradient: Down	Sampler: Michael Morgan

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? Yes	
Litter/Standing Water? No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	13.7
Initial Static Water Level (feet):	4.44
Initial Groundwater Elevation (ft-amsl):	671.24
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
10:08 AM	Purging start time.						
10:11 AM	12.8	1.4	1897.5	6.82	-149.7	2172.7	
10:14 AM	12.8	6.2	1871.9	6.89	-109.5	468.4	
10:17 AM	12.8	1.4	1880.1	6.78	-133.0	109.6	
10:20 AM	12.8	0.8	1879.1	6.78	-138.8	53.0	
10:23 AM	12.9	0.5	1875.5	6.78	-142.5	18.8	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	1.9
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	15:00
Average Purge Rate (mL/min):	126.67

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color: Brown Odor: Slight leachate Initial water pumped from well was muddy brown (high sedimentation/turbidity) that reduced steadily during the purge.

Appendix B-1
Laboratory Analytical Data Sheets

ANALYTICAL REPORT

PREPARED FOR

Attn: Nathan Ohrt
SCS Engineers
1690 All State Court
Suite 100
West Des Moines, Iowa 50265

Generated 4/8/2025 10:48:59 AM

JOB DESCRIPTION

Clinton County North 1st 2025 GW Sampling Event
Clinton County North

JOB NUMBER

310-302895-1

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



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Authorized for release by
Samuel Miller, Project Management Assistant I
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Table of Contents

Cover Page 1

Table of Contents 3

Case Narrative 4

Sample Summary 5

Detection Summary 6

Detection Limit Exceptions Summary 8

Client Sample Results 9

Definitions 24

Surrogate Summary 25

QC Sample Results 26

QC Association 34

Chronicle 36

Certification Summary 38

Method Summary 39

Chain of Custody 40

Receipt Checklists 42



Case Narrative

Client: SCS Engineers
Project: Clinton County North 1st 2025 GW Sampling Event

Job ID: 310-302895-1

Job ID: 310-302895-1

Eurofins Cedar Falls

Job Narrative 310-302895-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 3/27/2025 4:25 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C.

GC/MS VOA

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

Metals

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

General Chemistry

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

Eurofins Cedar Falls

Sample Summary

Client: SCS Engineers

Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-302895-1	MW-06-7R	Water	03/24/25 15:01	03/27/25 16:25
310-302895-2	MW-90-13	Water	03/24/25 17:52	03/27/25 16:25
310-302895-3	MW-03-16	Water	03/24/25 15:48	03/27/25 16:25
310-302895-4	PZ-R3	Water	03/24/25 16:38	03/27/25 16:25
310-302895-5	PZ-R4	Water	03/24/25 17:29	03/27/25 16:25
310-302895-6	MW-06-6R	Water	03/24/25 14:17	03/27/25 16:25
310-302895-7	MW-D	Water	03/24/25 15:48	03/27/25 16:25
310-302895-8	Trip Blank	Water	03/24/25 00:00	03/27/25 16:25

Detection Summary

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

Client Sample ID: MW-06-7R

Lab Sample ID: 310-302895-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00242		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.116		0.00200	0.000660	mg/L	1		6020B	Total/NA
Total Suspended Solids	18.4		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-90-13

Lab Sample ID: 310-302895-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	0.927	J	1.00	0.230	ug/L	1		8260D	Total/NA
Benzene	1.93		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	1.81		1.00	0.400	ug/L	1		8260D	Total/NA
Chloroethane	0.855	J	4.00	0.790	ug/L	1		8260D	Total/NA

Client Sample ID: MW-03-16

Lab Sample ID: 310-302895-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	1.83		1.00	0.230	ug/L	1		8260D	Total/NA
Acetone	6.92	J	10.0	3.10	ug/L	1		8260D	Total/NA
Benzene	11.2		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	8.29		1.00	0.400	ug/L	1		8260D	Total/NA
Chloroethane	1.38	J	4.00	0.790	ug/L	1		8260D	Total/NA
Xylenes, Total	0.405	J	3.00	0.400	ug/L	1		8260D	Total/NA
Arsenic	0.125		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.386		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00626		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0417		0.00500	0.00230	mg/L	1		6020B	Total/NA
Total Suspended Solids	103		15.0	10.5	mg/L	1		I-3765-85	Total/NA

Client Sample ID: PZ-R3

Lab Sample ID: 310-302895-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.103		0.00200	0.000530	mg/L	1		6020B	Total/NA
Total Suspended Solids	180		15.0	10.5	mg/L	1		I-3765-85	Total/NA

Client Sample ID: PZ-R4

Lab Sample ID: 310-302895-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.272	J	1.00	0.210	ug/L	1		8260D	Total/NA
Arsenic	0.0147		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.365		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00249		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000423	J	0.000500	0.000330	mg/L	1		6020B	Total/NA
Nickel	0.0126		0.00500	0.00230	mg/L	1		6020B	Total/NA
Total Suspended Solids	110		15.0	10.5	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-06-6R

Lab Sample ID: 310-302895-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.00232		0.00200	0.00100	mg/L	1		6020B	Total/NA
Arsenic	0.00104	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.367		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000607		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000464	J	0.000500	0.000330	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

Client Sample ID: MW-06-6R (Continued)

Lab Sample ID: 310-302895-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	20.3		3.75	2.63	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-D

Lab Sample ID: 310-302895-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	1.81		1.00	0.230	ug/L	1		8260D	Total/NA
Acetone	4.79	J	10.0	3.10	ug/L	1		8260D	Total/NA
Benzene	11.3		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	8.60		1.00	0.400	ug/L	1		8260D	Total/NA
Chloroethane	1.52	J	4.00	0.790	ug/L	1		8260D	Total/NA
Xylenes, Total	0.432	J	3.00	0.400	ug/L	1		8260D	Total/NA
Arsenic	0.123		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.395		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00621		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0408		0.00500	0.00230	mg/L	1		6020B	Total/NA
Total Suspended Solids	113		15.0	10.5	mg/L	1		I-3765-85	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 310-302895-8

No Detections.

This Detection Summary does not include radiochemical test results.

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Quantitation Limit Exceptions Summary

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
8260D	1,2-Dibromo-3-Chloropropane	Water	Total/NA	ug/L	1.20	5
8260D	1,2-Dibromoethane (EDB)	Water	Total/NA	ug/L	0.340	1

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

Client Sample ID: MW-06-7R

Lab Sample ID: 310-302895-1

Date Collected: 03/24/25 15:01

Matrix: Water

Date Received: 03/27/25 16:25

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			03/29/25 04:45	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			03/29/25 04:45	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			03/29/25 04:45	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			03/29/25 04:45	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			03/29/25 04:45	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/29/25 04:45	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			03/29/25 04:45	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			03/29/25 04:45	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			03/29/25 04:45	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			03/29/25 04:45	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			03/29/25 04:45	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			03/29/25 04:45	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			03/29/25 04:45	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			03/29/25 04:45	1
2-Hexanone	<10.0		10.0	2.00	ug/L			03/29/25 04:45	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			03/29/25 04:45	1
Acetone	<10.0		10.0	3.10	ug/L			03/29/25 04:45	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			03/29/25 04:45	1
Benzene	<0.500		0.500	0.220	ug/L			03/29/25 04:45	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			03/29/25 04:45	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			03/29/25 04:45	1
Bromoform	<5.00		5.00	0.780	ug/L			03/29/25 04:45	1
Bromomethane	<4.00		4.00	1.10	ug/L			03/29/25 04:45	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			03/29/25 04:45	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			03/29/25 04:45	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			03/29/25 04:45	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			03/29/25 04:45	1
Chloroethane	<4.00		4.00	0.790	ug/L			03/29/25 04:45	1
Chloroform	<3.00		3.00	1.30	ug/L			03/29/25 04:45	1
Chloromethane	<3.00		3.00	0.610	ug/L			03/29/25 04:45	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			03/29/25 04:45	1
Iodomethane	<10.0		10.0	7.00	ug/L			04/01/25 20:27	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			03/29/25 04:45	1
Dibromomethane	<1.00		1.00	0.330	ug/L			03/29/25 04:45	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			03/29/25 04:45	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/29/25 04:45	1
Styrene	<1.00		1.00	0.370	ug/L			03/29/25 04:45	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/29/25 04:45	1
Toluene	<1.00		1.00	0.430	ug/L			03/29/25 04:45	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/29/25 04:45	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			03/29/25 04:45	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			03/29/25 04:45	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/29/25 04:45	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			03/29/25 04:45	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			03/29/25 04:45	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/29/25 04:45	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			03/29/25 04:45	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

Client Sample ID: MW-06-7R

Lab Sample ID: 310-302895-1

Date Collected: 03/24/25 15:01

Matrix: Water

Date Received: 03/27/25 16:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		80 - 120		04/01/25 20:27	1
Dibromofluoromethane (Surr)	108		73 - 130		04/01/25 20:27	1
Toluene-d8 (Surr)	97		80 - 120		04/01/25 20:27	1
Dibromofluoromethane (Surr)	108		73 - 130		03/29/25 04:45	1
Toluene-d8 (Surr)	97		80 - 120		03/29/25 04:45	1
4-Bromofluorobenzene (Surr)	105		80 - 120		03/29/25 04:45	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		04/02/25 09:00	04/04/25 14:24	1
Arsenic	0.00242		0.00200	0.000530	mg/L		04/02/25 09:00	04/04/25 14:24	1
Barium	0.116		0.00200	0.000660	mg/L		04/02/25 09:00	04/04/25 14:24	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		04/02/25 09:00	04/07/25 12:35	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		04/02/25 09:00	04/04/25 14:24	1
Chromium	<0.00500		0.00500	0.00180	mg/L		04/02/25 09:00	04/04/25 14:24	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		04/02/25 09:00	04/04/25 14:24	1
Copper	<0.00500		0.00500	0.00320	mg/L		04/02/25 09:00	04/04/25 14:24	1
Lead	<0.000500		0.000500	0.000330	mg/L		04/02/25 09:00	04/04/25 14:24	1
Nickel	<0.00500		0.00500	0.00230	mg/L		04/02/25 09:00	04/04/25 14:24	1
Selenium	<0.00500		0.00500	0.00140	mg/L		04/02/25 09:00	04/04/25 14:24	1
Silver	<0.00100		0.00100	0.000500	mg/L		04/02/25 09:00	04/04/25 14:24	1
Thallium	<0.00100		0.00100	0.000570	mg/L		04/02/25 09:00	04/04/25 14:24	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		04/02/25 09:00	04/04/25 14:24	1
Zinc	<0.0200		0.0200	0.0130	mg/L		04/02/25 09:00	04/04/25 14:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	18.4		1.88	1.31	mg/L			03/28/25 07:41	1

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

Client Sample ID: MW-90-13

Lab Sample ID: 310-302895-2

Date Collected: 03/24/25 17:52

Matrix: Water

Date Received: 03/27/25 16:25

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			03/29/25 05:08	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			03/29/25 05:08	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			03/29/25 05:08	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			03/29/25 05:08	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			03/29/25 05:08	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/29/25 05:08	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			03/29/25 05:08	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			03/29/25 05:08	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			03/29/25 05:08	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			03/29/25 05:08	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			03/29/25 05:08	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			03/29/25 05:08	1
1,4-Dichlorobenzene	0.927	J	1.00	0.230	ug/L			03/29/25 05:08	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			03/29/25 05:08	1
2-Hexanone	<10.0		10.0	2.00	ug/L			03/29/25 05:08	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			03/29/25 05:08	1
Acetone	<10.0		10.0	3.10	ug/L			03/29/25 05:08	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			03/29/25 05:08	1
Benzene	1.93		0.500	0.220	ug/L			03/29/25 05:08	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			03/29/25 05:08	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			03/29/25 05:08	1
Bromoform	<5.00		5.00	0.780	ug/L			03/29/25 05:08	1
Bromomethane	<4.00		4.00	1.10	ug/L			03/29/25 05:08	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			03/29/25 05:08	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			03/29/25 05:08	1
Chlorobenzene	1.81		1.00	0.400	ug/L			03/29/25 05:08	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			03/29/25 05:08	1
Chloroethane	0.855	J	4.00	0.790	ug/L			03/29/25 05:08	1
Chloroform	<3.00		3.00	1.30	ug/L			03/29/25 05:08	1
Chloromethane	<3.00		3.00	0.610	ug/L			03/29/25 05:08	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			03/29/25 05:08	1
Iodomethane	<10.0		10.0	7.00	ug/L			04/01/25 20:49	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			03/29/25 05:08	1
Dibromomethane	<1.00		1.00	0.330	ug/L			03/29/25 05:08	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			03/29/25 05:08	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/29/25 05:08	1
Styrene	<1.00		1.00	0.370	ug/L			03/29/25 05:08	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/29/25 05:08	1
Toluene	<1.00		1.00	0.430	ug/L			03/29/25 05:08	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/29/25 05:08	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			03/29/25 05:08	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			03/29/25 05:08	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/29/25 05:08	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			03/29/25 05:08	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			03/29/25 05:08	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/29/25 05:08	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			03/29/25 05:08	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

Client Sample ID: MW-90-13

Lab Sample ID: 310-302895-2

Date Collected: 03/24/25 17:52

Matrix: Water

Date Received: 03/27/25 16:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		80 - 120		04/01/25 20:49	1
Dibromofluoromethane (Surr)	111		73 - 130		04/01/25 20:49	1
Toluene-d8 (Surr)	97		80 - 120		04/01/25 20:49	1
Dibromofluoromethane (Surr)	109		73 - 130		03/29/25 05:08	1
Toluene-d8 (Surr)	96		80 - 120		03/29/25 05:08	1
4-Bromofluorobenzene (Surr)	103		80 - 120		03/29/25 05:08	1

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

Client Sample ID: MW-03-16

Lab Sample ID: 310-302895-3

Date Collected: 03/24/25 15:48

Matrix: Water

Date Received: 03/27/25 16:25

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			03/29/25 05:31	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			03/29/25 05:31	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			03/29/25 05:31	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			03/29/25 05:31	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			03/29/25 05:31	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/29/25 05:31	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			03/29/25 05:31	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			03/29/25 05:31	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			03/29/25 05:31	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			03/29/25 05:31	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			03/29/25 05:31	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			03/29/25 05:31	1
1,4-Dichlorobenzene	1.83		1.00	0.230	ug/L			03/29/25 05:31	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			03/29/25 05:31	1
2-Hexanone	<10.0		10.0	2.00	ug/L			03/29/25 05:31	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			03/29/25 05:31	1
Acetone	6.92	J	10.0	3.10	ug/L			03/29/25 05:31	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			03/29/25 05:31	1
Benzene	11.2		0.500	0.220	ug/L			03/29/25 05:31	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			03/29/25 05:31	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			03/29/25 05:31	1
Bromoform	<5.00		5.00	0.780	ug/L			03/29/25 05:31	1
Bromomethane	<4.00		4.00	1.10	ug/L			03/29/25 05:31	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			03/29/25 05:31	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			03/29/25 05:31	1
Chlorobenzene	8.29		1.00	0.400	ug/L			03/29/25 05:31	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			03/29/25 05:31	1
Chloroethane	1.38	J	4.00	0.790	ug/L			03/29/25 05:31	1
Chloroform	<3.00		3.00	1.30	ug/L			03/29/25 05:31	1
Chloromethane	<3.00		3.00	0.610	ug/L			03/29/25 05:31	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			03/29/25 05:31	1
Iodomethane	<10.0		10.0	7.00	ug/L			04/01/25 21:11	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			03/29/25 05:31	1
Dibromomethane	<1.00		1.00	0.330	ug/L			03/29/25 05:31	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			03/29/25 05:31	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/29/25 05:31	1
Styrene	<1.00		1.00	0.370	ug/L			03/29/25 05:31	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/29/25 05:31	1
Toluene	<1.00		1.00	0.430	ug/L			03/29/25 05:31	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/29/25 05:31	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			03/29/25 05:31	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			03/29/25 05:31	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/29/25 05:31	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			03/29/25 05:31	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			03/29/25 05:31	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/29/25 05:31	1
Xylenes, Total	0.405	J	3.00	0.400	ug/L			03/29/25 05:31	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

Client Sample ID: MW-03-16

Lab Sample ID: 310-302895-3

Date Collected: 03/24/25 15:48

Matrix: Water

Date Received: 03/27/25 16:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		04/01/25 21:11	1
Dibromofluoromethane (Surr)	105		73 - 130		04/01/25 21:11	1
Toluene-d8 (Surr)	98		80 - 120		04/01/25 21:11	1
Dibromofluoromethane (Surr)	106		73 - 130		03/29/25 05:31	1
Toluene-d8 (Surr)	95		80 - 120		03/29/25 05:31	1
4-Bromofluorobenzene (Surr)	103		80 - 120		03/29/25 05:31	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		04/02/25 09:00	04/04/25 14:00	1
Arsenic	0.125		0.00200	0.000530	mg/L		04/02/25 09:00	04/04/25 14:00	1
Barium	0.386		0.00200	0.000660	mg/L		04/02/25 09:00	04/04/25 14:00	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		04/02/25 09:00	04/07/25 12:14	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		04/02/25 09:00	04/04/25 14:00	1
Chromium	<0.00500		0.00500	0.00180	mg/L		04/02/25 09:00	04/04/25 14:00	1
Cobalt	0.00626		0.000500	0.000170	mg/L		04/02/25 09:00	04/04/25 14:00	1
Copper	<0.00500		0.00500	0.00320	mg/L		04/02/25 09:00	04/04/25 14:00	1
Lead	<0.000500		0.000500	0.000330	mg/L		04/02/25 09:00	04/04/25 14:00	1
Nickel	0.0417		0.00500	0.00230	mg/L		04/02/25 09:00	04/04/25 14:00	1
Selenium	<0.00500		0.00500	0.00140	mg/L		04/02/25 09:00	04/04/25 14:00	1
Silver	<0.00100		0.00100	0.000500	mg/L		04/02/25 09:00	04/04/25 14:00	1
Thallium	<0.00100		0.00100	0.000570	mg/L		04/02/25 09:00	04/04/25 14:00	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		04/02/25 09:00	04/04/25 14:00	1
Zinc	<0.0200		0.0200	0.0130	mg/L		04/02/25 09:00	04/04/25 14:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	103		15.0	10.5	mg/L			03/28/25 07:41	1

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

Client Sample ID: PZ-R3

Lab Sample ID: 310-302895-4

Date Collected: 03/24/25 16:38

Matrix: Water

Date Received: 03/27/25 16:25

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			03/29/25 05:53	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			03/29/25 05:53	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			03/29/25 05:53	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			03/29/25 05:53	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			03/29/25 05:53	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/29/25 05:53	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			03/29/25 05:53	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			03/29/25 05:53	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			03/29/25 05:53	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			03/29/25 05:53	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			03/29/25 05:53	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			03/29/25 05:53	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			03/29/25 05:53	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			03/29/25 05:53	1
2-Hexanone	<10.0		10.0	2.00	ug/L			03/29/25 05:53	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			03/29/25 05:53	1
Acetone	<10.0		10.0	3.10	ug/L			03/29/25 05:53	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			03/29/25 05:53	1
Benzene	<0.500		0.500	0.220	ug/L			03/29/25 05:53	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			03/29/25 05:53	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			03/29/25 05:53	1
Bromoform	<5.00		5.00	0.780	ug/L			03/29/25 05:53	1
Bromomethane	<4.00		4.00	1.10	ug/L			03/29/25 05:53	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			03/29/25 05:53	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			03/29/25 05:53	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			03/29/25 05:53	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			03/29/25 05:53	1
Chloroethane	<4.00		4.00	0.790	ug/L			03/29/25 05:53	1
Chloroform	<3.00		3.00	1.30	ug/L			03/29/25 05:53	1
Chloromethane	<3.00		3.00	0.610	ug/L			03/29/25 05:53	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			03/29/25 05:53	1
Iodomethane	<10.0		10.0	7.00	ug/L			04/02/25 23:05	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			03/29/25 05:53	1
Dibromomethane	<1.00		1.00	0.330	ug/L			03/29/25 05:53	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			03/29/25 05:53	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/29/25 05:53	1
Styrene	<1.00		1.00	0.370	ug/L			03/29/25 05:53	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/29/25 05:53	1
Toluene	<1.00		1.00	0.430	ug/L			03/29/25 05:53	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/29/25 05:53	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			03/29/25 05:53	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			03/29/25 05:53	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/29/25 05:53	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			03/29/25 05:53	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			03/29/25 05:53	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/29/25 05:53	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			03/29/25 05:53	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

Client Sample ID: PZ-R3

Lab Sample ID: 310-302895-4

Date Collected: 03/24/25 16:38

Matrix: Water

Date Received: 03/27/25 16:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		04/02/25 23:05	1
Dibromofluoromethane (Surr)	108		73 - 130		04/02/25 23:05	1
Toluene-d8 (Surr)	98		80 - 120		04/02/25 23:05	1
Dibromofluoromethane (Surr)	106		73 - 130		03/29/25 05:53	1
Toluene-d8 (Surr)	96		80 - 120		03/29/25 05:53	1
4-Bromofluorobenzene (Surr)	99		80 - 120		03/29/25 05:53	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.103		0.00200	0.000530	mg/L		04/02/25 09:00	04/04/25 14:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	180		15.0	10.5	mg/L			03/28/25 07:41	1

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

Client Sample ID: PZ-R4

Lab Sample ID: 310-302895-5

Date Collected: 03/24/25 17:29

Matrix: Water

Date Received: 03/27/25 16:25

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			03/29/25 06:16	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			03/29/25 06:16	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			03/29/25 06:16	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			03/29/25 06:16	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			03/29/25 06:16	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/29/25 06:16	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			03/29/25 06:16	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			03/29/25 06:16	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			03/29/25 06:16	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			03/29/25 06:16	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			03/29/25 06:16	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			03/29/25 06:16	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			03/29/25 06:16	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			03/29/25 06:16	1
2-Hexanone	<10.0		10.0	2.00	ug/L			03/29/25 06:16	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			03/29/25 06:16	1
Acetone	<10.0		10.0	3.10	ug/L			03/29/25 06:16	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			03/29/25 06:16	1
Benzene	<0.500		0.500	0.220	ug/L			03/29/25 06:16	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			03/29/25 06:16	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			03/29/25 06:16	1
Bromoform	<5.00		5.00	0.780	ug/L			03/29/25 06:16	1
Bromomethane	<4.00		4.00	1.10	ug/L			03/29/25 06:16	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			03/29/25 06:16	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			03/29/25 06:16	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			03/29/25 06:16	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			03/29/25 06:16	1
Chloroethane	<4.00		4.00	0.790	ug/L			03/29/25 06:16	1
Chloroform	<3.00		3.00	1.30	ug/L			03/29/25 06:16	1
Chloromethane	<3.00		3.00	0.610	ug/L			03/29/25 06:16	1
cis-1,2-Dichloroethene	0.272 J		1.00	0.210	ug/L			03/29/25 06:16	1
Iodomethane	<10.0		10.0	7.00	ug/L			04/02/25 23:28	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			03/29/25 06:16	1
Dibromomethane	<1.00		1.00	0.330	ug/L			03/29/25 06:16	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			03/29/25 06:16	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/29/25 06:16	1
Styrene	<1.00		1.00	0.370	ug/L			03/29/25 06:16	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/29/25 06:16	1
Toluene	<1.00		1.00	0.430	ug/L			03/29/25 06:16	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/29/25 06:16	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			03/29/25 06:16	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			03/29/25 06:16	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/29/25 06:16	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			03/29/25 06:16	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			03/29/25 06:16	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/29/25 06:16	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			03/29/25 06:16	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

Client Sample ID: PZ-R4

Lab Sample ID: 310-302895-5

Date Collected: 03/24/25 17:29

Matrix: Water

Date Received: 03/27/25 16:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		04/02/25 23:28	1
Dibromofluoromethane (Surr)	109		73 - 130		04/02/25 23:28	1
Toluene-d8 (Surr)	97		80 - 120		04/02/25 23:28	1
Dibromofluoromethane (Surr)	107		73 - 130		03/29/25 06:16	1
Toluene-d8 (Surr)	98		80 - 120		03/29/25 06:16	1
4-Bromofluorobenzene (Surr)	100		80 - 120		03/29/25 06:16	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		04/02/25 09:00	04/04/25 14:26	1
Arsenic	0.0147		0.00200	0.000530	mg/L		04/02/25 09:00	04/04/25 14:26	1
Barium	0.365		0.00200	0.000660	mg/L		04/02/25 09:00	04/04/25 14:26	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		04/02/25 09:00	04/07/25 12:38	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		04/02/25 09:00	04/04/25 14:26	1
Chromium	<0.00500		0.00500	0.00180	mg/L		04/02/25 09:00	04/04/25 14:26	1
Cobalt	0.00249		0.000500	0.000170	mg/L		04/02/25 09:00	04/04/25 14:26	1
Copper	<0.00500		0.00500	0.00320	mg/L		04/02/25 09:00	04/04/25 14:26	1
Lead	0.000423 J		0.000500	0.000330	mg/L		04/02/25 09:00	04/04/25 14:26	1
Nickel	0.0126		0.00500	0.00230	mg/L		04/02/25 09:00	04/04/25 14:26	1
Selenium	<0.00500		0.00500	0.00140	mg/L		04/02/25 09:00	04/04/25 14:26	1
Silver	<0.00100		0.00100	0.000500	mg/L		04/02/25 09:00	04/04/25 14:26	1
Thallium	<0.00100		0.00100	0.000570	mg/L		04/02/25 09:00	04/04/25 14:26	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		04/02/25 09:00	04/04/25 14:26	1
Zinc	<0.0200		0.0200	0.0130	mg/L		04/02/25 09:00	04/04/25 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	110		15.0	10.5	mg/L			03/28/25 07:41	1

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

Client Sample ID: MW-06-6R

Lab Sample ID: 310-302895-6

Date Collected: 03/24/25 14:17

Matrix: Water

Date Received: 03/27/25 16:25

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00232		0.00200	0.00100	mg/L		04/02/25 09:00	04/04/25 14:02	1
Arsenic	0.00104	J	0.00200	0.000530	mg/L		04/02/25 09:00	04/04/25 14:02	1
Barium	0.367		0.00200	0.000660	mg/L		04/02/25 09:00	04/04/25 14:02	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		04/02/25 09:00	04/07/25 12:16	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		04/02/25 09:00	04/04/25 14:02	1
Chromium	<0.00500		0.00500	0.00180	mg/L		04/02/25 09:00	04/04/25 14:02	1
Cobalt	0.000607		0.000500	0.000170	mg/L		04/02/25 09:00	04/04/25 14:02	1
Copper	<0.00500		0.00500	0.00320	mg/L		04/02/25 09:00	04/04/25 14:02	1
Lead	0.000464	J	0.000500	0.000330	mg/L		04/02/25 09:00	04/04/25 14:02	1
Nickel	<0.00500		0.00500	0.00230	mg/L		04/02/25 09:00	04/04/25 14:02	1
Selenium	<0.00500		0.00500	0.00140	mg/L		04/02/25 09:00	04/04/25 14:02	1
Silver	<0.00100		0.00100	0.000500	mg/L		04/02/25 09:00	04/04/25 14:02	1
Thallium	<0.00100		0.00100	0.000570	mg/L		04/02/25 09:00	04/04/25 14:02	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		04/02/25 09:00	04/04/25 14:02	1
Zinc	<0.0200		0.0200	0.0130	mg/L		04/02/25 09:00	04/04/25 14:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	20.3		3.75	2.63	mg/L			03/28/25 07:41	1

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

Client Sample ID: MW-D

Lab Sample ID: 310-302895-7

Date Collected: 03/24/25 15:48

Matrix: Water

Date Received: 03/27/25 16:25

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			03/29/25 06:38	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			03/29/25 06:38	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			03/29/25 06:38	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			03/29/25 06:38	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			03/29/25 06:38	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/29/25 06:38	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			03/29/25 06:38	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			03/29/25 06:38	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			03/29/25 06:38	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			03/29/25 06:38	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			03/29/25 06:38	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			03/29/25 06:38	1
1,4-Dichlorobenzene	1.81		1.00	0.230	ug/L			03/29/25 06:38	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			03/29/25 06:38	1
2-Hexanone	<10.0		10.0	2.00	ug/L			03/29/25 06:38	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			03/29/25 06:38	1
Acetone	4.79 J		10.0	3.10	ug/L			03/29/25 06:38	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			03/29/25 06:38	1
Benzene	11.3		0.500	0.220	ug/L			03/29/25 06:38	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			03/29/25 06:38	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			03/29/25 06:38	1
Bromoform	<5.00		5.00	0.780	ug/L			03/29/25 06:38	1
Bromomethane	<4.00		4.00	1.10	ug/L			03/29/25 06:38	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			03/29/25 06:38	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			03/29/25 06:38	1
Chlorobenzene	8.60		1.00	0.400	ug/L			03/29/25 06:38	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			03/29/25 06:38	1
Chloroethane	1.52 J		4.00	0.790	ug/L			03/29/25 06:38	1
Chloroform	<3.00		3.00	1.30	ug/L			03/29/25 06:38	1
Chloromethane	<3.00		3.00	0.610	ug/L			03/29/25 06:38	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			03/29/25 06:38	1
Iodomethane	<10.0		10.0	7.00	ug/L			04/02/25 23:50	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			03/29/25 06:38	1
Dibromomethane	<1.00		1.00	0.330	ug/L			03/29/25 06:38	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			03/29/25 06:38	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/29/25 06:38	1
Styrene	<1.00		1.00	0.370	ug/L			03/29/25 06:38	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/29/25 06:38	1
Toluene	<1.00		1.00	0.430	ug/L			03/29/25 06:38	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/29/25 06:38	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			03/29/25 06:38	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			03/29/25 06:38	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/29/25 06:38	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			03/29/25 06:38	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			03/29/25 06:38	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/29/25 06:38	1
Xylenes, Total	0.432 J		3.00	0.400	ug/L			03/29/25 06:38	1

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Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

Client Sample ID: MW-D

Lab Sample ID: 310-302895-7

Date Collected: 03/24/25 15:48

Matrix: Water

Date Received: 03/27/25 16:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		04/02/25 23:50	1
Dibromofluoromethane (Surr)	108		73 - 130		04/02/25 23:50	1
Toluene-d8 (Surr)	98		80 - 120		04/02/25 23:50	1
Dibromofluoromethane (Surr)	102		73 - 130		03/29/25 06:38	1
Toluene-d8 (Surr)	97		80 - 120		03/29/25 06:38	1
4-Bromofluorobenzene (Surr)	101		80 - 120		03/29/25 06:38	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		04/02/25 09:00	04/04/25 14:12	1
Arsenic	0.123		0.00200	0.000530	mg/L		04/02/25 09:00	04/04/25 14:12	1
Barium	0.395		0.00200	0.000660	mg/L		04/02/25 09:00	04/04/25 14:12	1
Beryllium	<0.00400		0.00400	0.00132	mg/L		04/02/25 09:00	04/07/25 12:23	4
Cadmium	<0.000200		0.000200	0.000100	mg/L		04/02/25 09:00	04/04/25 14:12	1
Chromium	<0.00500		0.00500	0.00180	mg/L		04/02/25 09:00	04/04/25 14:12	1
Cobalt	0.00621		0.000500	0.000170	mg/L		04/02/25 09:00	04/04/25 14:12	1
Copper	<0.00500		0.00500	0.00320	mg/L		04/02/25 09:00	04/04/25 14:12	1
Lead	<0.000500		0.000500	0.000330	mg/L		04/02/25 09:00	04/04/25 14:12	1
Nickel	0.0408		0.00500	0.00230	mg/L		04/02/25 09:00	04/04/25 14:12	1
Selenium	<0.00500		0.00500	0.00140	mg/L		04/02/25 09:00	04/04/25 14:12	1
Silver	<0.00100		0.00100	0.000500	mg/L		04/02/25 09:00	04/04/25 14:12	1
Thallium	<0.00100		0.00100	0.000570	mg/L		04/02/25 09:00	04/04/25 14:12	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		04/02/25 09:00	04/04/25 14:12	1
Zinc	<0.0200		0.0200	0.0130	mg/L		04/02/25 09:00	04/04/25 14:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	113		15.0	10.5	mg/L			03/28/25 07:41	1

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

Client Sample ID: Trip Blank

Lab Sample ID: 310-302895-8

Date Collected: 03/24/25 00:00

Matrix: Water

Date Received: 03/27/25 16:25

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			03/28/25 23:30	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			03/28/25 23:30	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			03/28/25 23:30	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			03/28/25 23:30	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			03/28/25 23:30	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/28/25 23:30	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			03/28/25 23:30	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			03/28/25 23:30	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			03/28/25 23:30	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			03/28/25 23:30	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			03/28/25 23:30	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			03/28/25 23:30	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			03/28/25 23:30	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			03/28/25 23:30	1
2-Hexanone	<10.0		10.0	2.00	ug/L			03/28/25 23:30	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			03/28/25 23:30	1
Acetone	<10.0		10.0	3.10	ug/L			03/28/25 23:30	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			03/28/25 23:30	1
Benzene	<0.500		0.500	0.220	ug/L			03/28/25 23:30	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			03/28/25 23:30	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			03/28/25 23:30	1
Bromoform	<5.00		5.00	0.780	ug/L			03/28/25 23:30	1
Bromomethane	<4.00		4.00	1.10	ug/L			03/28/25 23:30	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			03/28/25 23:30	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			03/28/25 23:30	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			03/28/25 23:30	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			03/28/25 23:30	1
Chloroethane	<4.00		4.00	0.790	ug/L			03/28/25 23:30	1
Chloroform	<3.00		3.00	1.30	ug/L			03/28/25 23:30	1
Chloromethane	<3.00		3.00	0.610	ug/L			03/28/25 23:30	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			03/28/25 23:30	1
Iodomethane	<10.0		10.0	7.00	ug/L			04/02/25 20:50	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			03/28/25 23:30	1
Dibromomethane	<1.00		1.00	0.330	ug/L			03/28/25 23:30	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			03/28/25 23:30	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/28/25 23:30	1
Styrene	<1.00		1.00	0.370	ug/L			03/28/25 23:30	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/28/25 23:30	1
Toluene	<1.00		1.00	0.430	ug/L			03/28/25 23:30	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/28/25 23:30	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			03/28/25 23:30	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			03/28/25 23:30	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/28/25 23:30	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			03/28/25 23:30	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			03/28/25 23:30	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/28/25 23:30	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			03/28/25 23:30	1

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Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

Client Sample ID: Trip Blank

Lab Sample ID: 310-302895-8

Date Collected: 03/24/25 00:00

Matrix: Water

Date Received: 03/27/25 16:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		04/02/25 20:50	1
Dibromofluoromethane (Surr)	107		73 - 130		04/02/25 20:50	1
Toluene-d8 (Surr)	97		80 - 120		04/02/25 20:50	1
Dibromofluoromethane (Surr)	104		73 - 130		03/28/25 23:30	1
Toluene-d8 (Surr)	99		80 - 120		03/28/25 23:30	1
4-Bromofluorobenzene (Surr)	105		80 - 120		03/28/25 23:30	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
SQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Surrogate Summary

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DBFM	TOL	BFB
		(73-130)	(80-120)	(80-120)
310-302895-1	MW-06-7R	108	97	105
310-302895-1	MW-06-7R	108	97	107
310-302895-2	MW-90-13	109	96	103
310-302895-2	MW-90-13	111	97	106
310-302895-3	MW-03-16	106	95	103
310-302895-3	MW-03-16	105	98	99
310-302895-4	PZ-R3	106	96	99
310-302895-4	PZ-R3	108	98	101
310-302895-5	PZ-R4	107	98	100
310-302895-5	PZ-R4	109	97	99
310-302895-7	MW-D	102	97	101
310-302895-7	MW-D	108	98	101
310-302895-8	Trip Blank	104	99	105
310-302895-8	Trip Blank	107	97	99
LCS 310-450081/7	Lab Control Sample	95	103	98
LCS 310-450081/8	Lab Control Sample	107	97	104
LCS 310-450349/7	Lab Control Sample	94	102	104
LCS 310-450349/8	Lab Control Sample	110	96	107
LCS 310-450517/7	Lab Control Sample	99	100	101
LCS 310-450517/8	Lab Control Sample	111	98	98
MB 310-450081/6	Method Blank	109	98	99
MB 310-450349/6	Method Blank	105	94	105
MB 310-450517/6	Method Blank	108	99	100

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

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

Lab Sample ID: MB 310-450081/6

Matrix: Water

Analysis Batch: 450081

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			03/28/25 22:22	1
Acetone	<10.0		10.0	3.10	ug/L			03/28/25 22:22	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			03/28/25 22:22	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			03/28/25 22:22	1
Benzene	<0.500		0.500	0.220	ug/L			03/28/25 22:22	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			03/28/25 22:22	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			03/28/25 22:22	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			03/28/25 22:22	1
Bromoform	<5.00		5.00	0.780	ug/L			03/28/25 22:22	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			03/28/25 22:22	1
Bromomethane	<4.00		4.00	1.10	ug/L			03/28/25 22:22	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			03/28/25 22:22	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			03/28/25 22:22	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			03/28/25 22:22	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			03/28/25 22:22	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			03/28/25 22:22	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			03/28/25 22:22	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/28/25 22:22	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			03/28/25 22:22	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			03/28/25 22:22	1
Chloroethane	<4.00		4.00	0.790	ug/L			03/28/25 22:22	1
Chloroform	<3.00		3.00	1.30	ug/L			03/28/25 22:22	1
2-Hexanone	<10.0		10.0	2.00	ug/L			03/28/25 22:22	1
Chloromethane	<3.00		3.00	0.610	ug/L			03/28/25 22:22	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			03/28/25 22:22	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			03/28/25 22:22	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			03/28/25 22:22	1
Dibromomethane	<1.00		1.00	0.330	ug/L			03/28/25 22:22	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			03/28/25 22:22	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			03/28/25 22:22	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/28/25 22:22	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			03/28/25 22:22	1
Styrene	<1.00		1.00	0.370	ug/L			03/28/25 22:22	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/28/25 22:22	1
Toluene	<1.00		1.00	0.430	ug/L			03/28/25 22:22	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/28/25 22:22	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			03/28/25 22:22	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			03/28/25 22:22	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			03/28/25 22:22	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			03/28/25 22:22	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/28/25 22:22	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			03/28/25 22:22	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			03/28/25 22:22	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			03/28/25 22:22	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/28/25 22:22	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			03/28/25 22:22	1

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

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

Lab Sample ID: MB 310-450081/6

Matrix: Water

Analysis Batch: 450081

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB			
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed
Dibromofluoromethane (Surr)	109		73 - 130		03/28/25 22:22
Toluene-d8 (Surr)	98		80 - 120		03/28/25 22:22
4-Bromofluorobenzene (Surr)	99		80 - 120		03/28/25 22:22

Lab Sample ID: LCS 310-450081/7

Matrix: Water

Analysis Batch: 450081

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Butanone (MEK)	40.0	37.09		ug/L		93	50 - 150
Acetone	40.0	36.36		ug/L		91	50 - 150
Acrylonitrile	200	174.6		ug/L		87	50 - 150
1,2-Dibromo-3-Chloropropane	20.0	17.41		ug/L		87	50 - 150
Benzene	20.0	18.87		ug/L		94	72 - 124
1,2-Dibromoethane (EDB)	20.0	19.07		ug/L		95	75 - 125
Bromochloromethane	20.0	19.04		ug/L		95	73 - 130
Bromodichloromethane	20.0	18.07		ug/L		90	74 - 122
Bromoform	20.0	17.48		ug/L		87	61 - 122
1,2-Dichlorobenzene	20.0	17.90		ug/L		90	74 - 120
1,4-Dichlorobenzene	20.0	17.52		ug/L		88	72 - 120
Carbon disulfide	20.0	17.90		ug/L		89	59 - 135
1,1-Dichloroethane	20.0	19.11		ug/L		96	70 - 127
Carbon tetrachloride	20.0	17.53		ug/L		88	67 - 132
1,2-Dichloroethane	20.0	17.97		ug/L		90	71 - 125
Chlorobenzene	20.0	18.08		ug/L		90	76 - 120
1,1-Dichloroethene	20.0	18.22		ug/L		91	63 - 132
Chlorodibromomethane	20.0	18.17		ug/L		91	71 - 121
1,2-Dichloropropane	20.0	18.19		ug/L		91	73 - 124
Chloroform	20.0	19.73		ug/L		99	72 - 125
2-Hexanone	40.0	37.76		ug/L		94	60 - 140
cis-1,2-Dichloroethene	20.0	19.00		ug/L		95	74 - 123
cis-1,3-Dichloropropene	20.0	17.06		ug/L		85	71 - 125
4-Methyl-2-pentanone (MIBK)	40.0	36.84		ug/L		92	60 - 139
Dibromomethane	20.0	19.22		ug/L		96	74 - 125
Ethylbenzene	20.0	18.63		ug/L		93	74 - 122
1,1,1,2-Tetrachloroethane	20.0	18.68		ug/L		93	71 - 120
Methylene Chloride	20.0	20.05		ug/L		100	50 - 150
1,1,2,2-Tetrachloroethane	20.0	18.33		ug/L		92	68 - 124
Styrene	20.0	18.68		ug/L		93	74 - 121
Tetrachloroethene	20.0	17.79		ug/L		89	71 - 130
Toluene	20.0	19.26		ug/L		96	74 - 123
trans-1,2-Dichloroethene	20.0	18.95		ug/L		95	70 - 126
trans-1,3-Dichloropropene	20.0	16.55		ug/L		83	69 - 123
trans-1,4-Dichloro-2-butene	20.0	17.01		ug/L		85	50 - 150
1,1,1-Trichloroethane	20.0	18.63		ug/L		93	73 - 129
1,1,2-Trichloroethane	20.0	18.25		ug/L		91	73 - 123
Trichloroethene	20.0	18.95		ug/L		95	72 - 126

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

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

Lab Sample ID: LCS 310-450081/7

Matrix: Water

Analysis Batch: 450081

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	20.0	18.19		ug/L		91	65 - 127
Vinyl acetate	40.0	32.03		ug/L		80	50 - 150
Xylenes, Total	40.0	36.84		ug/L		92	73 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	95		73 - 130
Toluene-d8 (Surr)	103		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120

Lab Sample ID: LCS 310-450081/8

Matrix: Water

Analysis Batch: 450081

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	17.00		ug/L		85	23 - 150
Chloroethane	20.0	18.25		ug/L		91	54 - 136
Chloromethane	20.0	17.25		ug/L		86	38 - 150
Trichlorofluoromethane	20.0	20.12		ug/L		101	54 - 149
Vinyl chloride	20.0	19.63		ug/L		98	56 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	107		73 - 130
Toluene-d8 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	104		80 - 120

Lab Sample ID: MB 310-450349/6

Matrix: Water

Analysis Batch: 450349

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	<10.0		10.0	7.00	ug/L			04/01/25 12:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		73 - 130		04/01/25 12:42	1
Toluene-d8 (Surr)	94		80 - 120		04/01/25 12:42	1
4-Bromofluorobenzene (Surr)	105		80 - 120		04/01/25 12:42	1

Lab Sample ID: LCS 310-450349/7

Matrix: Water

Analysis Batch: 450349

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iodomethane	20.0	15.27		ug/L		76	10 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	94		73 - 130

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

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

Lab Sample ID: LCS 310-450349/7

Matrix: Water

Analysis Batch: 450349

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	104		80 - 120

Lab Sample ID: LCS 310-450349/8

Matrix: Water

Analysis Batch: 450349

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	13.21		ug/L		66	23 - 150
Chloroethane	20.0	16.06		ug/L		80	54 - 136
Chloromethane	20.0	17.72		ug/L		89	38 - 150
Trichlorofluoromethane	20.0	16.89		ug/L		84	54 - 149
Vinyl chloride	20.0	16.73		ug/L		84	56 - 140

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	110		73 - 130
Toluene-d8 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	107		80 - 120

Lab Sample ID: MB 310-450517/6

Matrix: Water

Analysis Batch: 450517

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			04/02/25 19:42	1
Acetone	<10.0		10.0	3.10	ug/L			04/02/25 19:42	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			04/02/25 19:42	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			04/02/25 19:42	1
Benzene	<0.500		0.500	0.220	ug/L			04/02/25 19:42	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			04/02/25 19:42	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			04/02/25 19:42	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			04/02/25 19:42	1
Bromoform	<5.00		5.00	0.780	ug/L			04/02/25 19:42	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			04/02/25 19:42	1
Bromomethane	<4.00		4.00	1.10	ug/L			04/02/25 19:42	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			04/02/25 19:42	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			04/02/25 19:42	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			04/02/25 19:42	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			04/02/25 19:42	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			04/02/25 19:42	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			04/02/25 19:42	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			04/02/25 19:42	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			04/02/25 19:42	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			04/02/25 19:42	1
Chloroethane	<4.00		4.00	0.790	ug/L			04/02/25 19:42	1
Chloroform	<3.00		3.00	1.30	ug/L			04/02/25 19:42	1
2-Hexanone	<10.0		10.0	2.00	ug/L			04/02/25 19:42	1

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

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

Lab Sample ID: MB 310-450517/6

Matrix: Water

Analysis Batch: 450517

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<3.00		3.00	0.610	ug/L			04/02/25 19:42	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			04/02/25 19:42	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			04/02/25 19:42	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			04/02/25 19:42	1
Dibromomethane	<1.00		1.00	0.330	ug/L			04/02/25 19:42	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			04/02/25 19:42	1
Iodomethane	<10.0		10.0	7.00	ug/L			04/02/25 19:42	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			04/02/25 19:42	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			04/02/25 19:42	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			04/02/25 19:42	1
Styrene	<1.00		1.00	0.370	ug/L			04/02/25 19:42	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			04/02/25 19:42	1
Toluene	<1.00		1.00	0.430	ug/L			04/02/25 19:42	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			04/02/25 19:42	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			04/02/25 19:42	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			04/02/25 19:42	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			04/02/25 19:42	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			04/02/25 19:42	1
Trichloroethene	<1.00		1.00	0.430	ug/L			04/02/25 19:42	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			04/02/25 19:42	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			04/02/25 19:42	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			04/02/25 19:42	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			04/02/25 19:42	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			04/02/25 19:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	108		73 - 130		04/02/25 19:42	1
Toluene-d8 (Surr)	99		80 - 120		04/02/25 19:42	1
4-Bromofluorobenzene (Surr)	100		80 - 120		04/02/25 19:42	1

Lab Sample ID: LCS 310-450517/7

Matrix: Water

Analysis Batch: 450517

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Butanone (MEK)	40.0	40.72		ug/L		102	50 - 150
Acetone	40.0	41.00		ug/L		103	50 - 150
Acrylonitrile	200	204.9		ug/L		102	50 - 150
1,2-Dibromo-3-Chloropropane	20.0	19.64		ug/L		98	50 - 150
Benzene	20.0	19.92		ug/L		100	72 - 124
1,2-Dibromoethane (EDB)	20.0	20.03		ug/L		100	75 - 125
Bromochloromethane	20.0	22.55		ug/L		113	73 - 130
Bromodichloromethane	20.0	20.18		ug/L		101	74 - 122
Bromoform	20.0	17.99		ug/L		90	61 - 122
1,2-Dichlorobenzene	20.0	19.92		ug/L		100	74 - 120
1,4-Dichlorobenzene	20.0	18.96		ug/L		95	72 - 120
Carbon disulfide	20.0	19.63		ug/L		98	59 - 135

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QC Sample Results

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

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

Lab Sample ID: LCS 310-450517/7

Matrix: Water

Analysis Batch: 450517

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	20.0	21.37		ug/L		107	70 - 127
Carbon tetrachloride	20.0	19.76		ug/L		99	67 - 132
1,2-Dichloroethane	20.0	20.81		ug/L		104	71 - 125
Chlorobenzene	20.0	19.66		ug/L		98	76 - 120
1,1-Dichloroethene	20.0	20.59		ug/L		103	63 - 132
Chlorodibromomethane	20.0	19.32		ug/L		97	71 - 121
1,2-Dichloropropane	20.0	20.27		ug/L		101	73 - 124
Chloroform	20.0	21.52		ug/L		108	72 - 125
2-Hexanone	40.0	43.96		ug/L		110	60 - 140
cis-1,2-Dichloroethene	20.0	21.21		ug/L		106	74 - 123
cis-1,3-Dichloropropene	20.0	21.79		ug/L		109	71 - 125
4-Methyl-2-pentanone (MIBK)	40.0	43.22		ug/L		108	60 - 139
Dibromomethane	20.0	19.78		ug/L		99	74 - 125
Ethylbenzene	20.0	18.44		ug/L		92	74 - 122
Iodomethane	20.0	11.52		ug/L		58	10 - 150
1,1,1,2-Tetrachloroethane	20.0	20.31		ug/L		102	71 - 120
Methylene Chloride	20.0	22.15		ug/L		111	50 - 150
1,1,2,2-Tetrachloroethane	20.0	19.70		ug/L		99	68 - 124
Styrene	20.0	18.11		ug/L		91	74 - 121
Tetrachloroethene	20.0	20.19		ug/L		101	71 - 130
Toluene	20.0	20.82		ug/L		104	74 - 123
trans-1,2-Dichloroethene	20.0	20.90		ug/L		105	70 - 126
trans-1,3-Dichloropropene	20.0	18.27		ug/L		91	69 - 123
trans-1,4-Dichloro-2-butene	20.0	19.89		ug/L		99	50 - 150
1,1,1-Trichloroethane	20.0	19.98		ug/L		100	73 - 129
1,1,2-Trichloroethane	20.0	20.42		ug/L		102	73 - 123
Trichloroethene	20.0	19.30		ug/L		96	72 - 126
1,2,3-Trichloropropane	20.0	20.12		ug/L		101	65 - 127
Vinyl acetate	40.0	36.46		ug/L		91	50 - 150
Xylenes, Total	40.0	36.72		ug/L		92	73 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	99		73 - 130
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120

Lab Sample ID: LCS 310-450517/8

Matrix: Water

Analysis Batch: 450517

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	15.22		ug/L		76	23 - 150
Chloroethane	20.0	17.54		ug/L		88	54 - 136
Chloromethane	20.0	17.31		ug/L		87	38 - 150
Trichlorofluoromethane	20.0	18.84		ug/L		94	54 - 149
Vinyl chloride	20.0	18.63		ug/L		93	56 - 140

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QC Sample Results

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

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

Lab Sample ID: LCS 310-450517/8

Matrix: Water

Analysis Batch: 450517

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	111		73 - 130
Toluene-d8 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-450320/1-A

Matrix: Water

Analysis Batch: 450798

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 450320

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		04/02/25 09:00	04/04/25 13:29	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		04/02/25 09:00	04/04/25 13:29	1
Barium	<0.00200		0.00200	0.000660	mg/L		04/02/25 09:00	04/04/25 13:29	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		04/02/25 09:00	04/04/25 13:29	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		04/02/25 09:00	04/04/25 13:29	1
Chromium	<0.00500		0.00500	0.00180	mg/L		04/02/25 09:00	04/04/25 13:29	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		04/02/25 09:00	04/04/25 13:29	1
Copper	<0.00500		0.00500	0.00320	mg/L		04/02/25 09:00	04/04/25 13:29	1
Lead	<0.000500		0.000500	0.000330	mg/L		04/02/25 09:00	04/04/25 13:29	1
Nickel	<0.00500		0.00500	0.00230	mg/L		04/02/25 09:00	04/04/25 13:29	1
Selenium	<0.00500		0.00500	0.00140	mg/L		04/02/25 09:00	04/04/25 13:29	1
Silver	<0.00100		0.00100	0.000500	mg/L		04/02/25 09:00	04/04/25 13:29	1
Thallium	<0.00100		0.00100	0.000570	mg/L		04/02/25 09:00	04/04/25 13:29	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		04/02/25 09:00	04/04/25 13:29	1
Zinc	<0.0200		0.0200	0.0130	mg/L		04/02/25 09:00	04/04/25 13:29	1

Lab Sample ID: LCS 310-450320/2-A

Matrix: Water

Analysis Batch: 450798

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 450320

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Antimony	0.200	0.2193		mg/L		110	80 - 120		
Arsenic	0.200	0.2074		mg/L		104	80 - 120		
Barium	0.100	0.1033		mg/L		103	80 - 120		
Beryllium	0.100	0.09726		mg/L		97	80 - 120		
Cadmium	0.100	0.1004		mg/L		100	80 - 120		
Chromium	0.100	0.1033		mg/L		103	80 - 120		
Cobalt	0.100	0.1062		mg/L		106	80 - 120		
Copper	0.200	0.2090		mg/L		105	80 - 120		
Lead	0.200	0.2093		mg/L		105	80 - 120		
Nickel	0.200	0.2091		mg/L		105	80 - 120		
Selenium	0.400	0.3907		mg/L		98	80 - 120		
Silver	0.100	0.1064		mg/L		106	80 - 120		
Thallium	0.100	0.09509		mg/L		95	80 - 120		
Vanadium	0.100	0.1011		mg/L		101	80 - 120		
Zinc	0.200	0.1927		mg/L		96	80 - 120		

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QC Sample Results

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-302895-7 DU

Matrix: Water

Analysis Batch: 450798

Client Sample ID: MW-D

Prep Type: Total/NA

Prep Batch: 450320

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.00200		0.001115	J	mg/L		NC	20
Arsenic	0.123		0.1156		mg/L		6	20
Barium	0.395		0.3709		mg/L		6	20
Cadmium	<0.000200		<0.000200		mg/L		NC	20
Chromium	<0.00500		<0.00500		mg/L		NC	20
Cobalt	0.00621		0.005858		mg/L		6	20
Copper	<0.00500		<0.00500		mg/L		NC	20
Lead	<0.000500		<0.000500		mg/L		NC	20
Nickel	0.0408		0.03827		mg/L		6	20
Selenium	<0.00500		<0.00500		mg/L		NC	20
Silver	<0.00100		<0.00100		mg/L		NC	20
Thallium	<0.00100		<0.00100		mg/L		NC	20
Vanadium	<0.00500		<0.00500		mg/L		NC	20
Zinc	<0.0200		<0.0200		mg/L		NC	20

Lab Sample ID: 310-302895-7 DU

Matrix: Water

Analysis Batch: 450918

Client Sample ID: MW-D

Prep Type: Total/NA

Prep Batch: 450320

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Beryllium	<0.00400		<0.00400		mg/L		NC	20

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-450030/1

Matrix: Water

Analysis Batch: 450030

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Suspended Solids	<5.00		5.00	3.50	mg/L			03/28/25 07:41	1

Lab Sample ID: LCS 310-450030/2

Matrix: Water

Analysis Batch: 450030

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	96.00		mg/L		96	81 - 116

QC Association Summary

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

GC/MS VOA

Analysis Batch: 450081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302895-1	MW-06-7R	Total/NA	Water	8260D	
310-302895-2	MW-90-13	Total/NA	Water	8260D	
310-302895-3	MW-03-16	Total/NA	Water	8260D	
310-302895-4	PZ-R3	Total/NA	Water	8260D	
310-302895-5	PZ-R4	Total/NA	Water	8260D	
310-302895-7	MW-D	Total/NA	Water	8260D	
310-302895-8	Trip Blank	Total/NA	Water	8260D	
MB 310-450081/6	Method Blank	Total/NA	Water	8260D	
LCS 310-450081/7	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-450081/8	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 450349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302895-1	MW-06-7R	Total/NA	Water	8260D	
310-302895-2	MW-90-13	Total/NA	Water	8260D	
310-302895-3	MW-03-16	Total/NA	Water	8260D	
MB 310-450349/6	Method Blank	Total/NA	Water	8260D	
LCS 310-450349/7	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-450349/8	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 450517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302895-4	PZ-R3	Total/NA	Water	8260D	
310-302895-5	PZ-R4	Total/NA	Water	8260D	
310-302895-7	MW-D	Total/NA	Water	8260D	
310-302895-8	Trip Blank	Total/NA	Water	8260D	
MB 310-450517/6	Method Blank	Total/NA	Water	8260D	
LCS 310-450517/7	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-450517/8	Lab Control Sample	Total/NA	Water	8260D	

Metals

Prep Batch: 450320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302895-1	MW-06-7R	Total/NA	Water	3005A	
310-302895-3	MW-03-16	Total/NA	Water	3005A	
310-302895-4	PZ-R3	Total/NA	Water	3005A	
310-302895-5	PZ-R4	Total/NA	Water	3005A	
310-302895-6	MW-06-6R	Total/NA	Water	3005A	
310-302895-7	MW-D	Total/NA	Water	3005A	
MB 310-450320/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-450320/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-302895-7 DU	MW-D	Total/NA	Water	3005A	

Analysis Batch: 450798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302895-1	MW-06-7R	Total/NA	Water	6020B	450320
310-302895-3	MW-03-16	Total/NA	Water	6020B	450320
310-302895-4	PZ-R3	Total/NA	Water	6020B	450320
310-302895-5	PZ-R4	Total/NA	Water	6020B	450320

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QC Association Summary

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

Metals (Continued)

Analysis Batch: 450798 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302895-6	MW-06-6R	Total/NA	Water	6020B	450320
310-302895-7	MW-D	Total/NA	Water	6020B	450320
MB 310-450320/1-A	Method Blank	Total/NA	Water	6020B	450320
LCS 310-450320/2-A	Lab Control Sample	Total/NA	Water	6020B	450320
310-302895-7 DU	MW-D	Total/NA	Water	6020B	450320

Analysis Batch: 450918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302895-1	MW-06-7R	Total/NA	Water	6020B	450320
310-302895-3	MW-03-16	Total/NA	Water	6020B	450320
310-302895-5	PZ-R4	Total/NA	Water	6020B	450320
310-302895-6	MW-06-6R	Total/NA	Water	6020B	450320
310-302895-7	MW-D	Total/NA	Water	6020B	450320
310-302895-7 DU	MW-D	Total/NA	Water	6020B	450320

General Chemistry

Analysis Batch: 450030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302895-1	MW-06-7R	Total/NA	Water	I-3765-85	
310-302895-3	MW-03-16	Total/NA	Water	I-3765-85	
310-302895-4	PZ-R3	Total/NA	Water	I-3765-85	
310-302895-5	PZ-R4	Total/NA	Water	I-3765-85	
310-302895-6	MW-06-6R	Total/NA	Water	I-3765-85	
310-302895-7	MW-D	Total/NA	Water	I-3765-85	
MB 310-450030/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-450030/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Lab Chronicle

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

Client Sample ID: MW-06-7R

Lab Sample ID: 310-302895-1

Date Collected: 03/24/25 15:01

Matrix: Water

Date Received: 03/27/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	450349	WSE8	EET CF	04/01/25 20:27
Total/NA	Analysis	8260D		1	450081	WSE8	EET CF	03/29/25 04:45
Total/NA	Prep	3005A			450320	QTZ5	EET CF	04/02/25 09:00
Total/NA	Analysis	6020B		1	450798	NFT2	EET CF	04/04/25 14:24
Total/NA	Prep	3005A			450320	QTZ5	EET CF	04/02/25 09:00
Total/NA	Analysis	6020B		1	450918	NFT2	EET CF	04/07/25 12:35
Total/NA	Analysis	I-3765-85		1	450030	DGU1	EET CF	03/28/25 07:41

Client Sample ID: MW-90-13

Lab Sample ID: 310-302895-2

Date Collected: 03/24/25 17:52

Matrix: Water

Date Received: 03/27/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	450349	WSE8	EET CF	04/01/25 20:49
Total/NA	Analysis	8260D		1	450081	WSE8	EET CF	03/29/25 05:08

Client Sample ID: MW-03-16

Lab Sample ID: 310-302895-3

Date Collected: 03/24/25 15:48

Matrix: Water

Date Received: 03/27/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	450349	WSE8	EET CF	04/01/25 21:11
Total/NA	Analysis	8260D		1	450081	WSE8	EET CF	03/29/25 05:31
Total/NA	Prep	3005A			450320	QTZ5	EET CF	04/02/25 09:00
Total/NA	Analysis	6020B		1	450798	NFT2	EET CF	04/04/25 14:00
Total/NA	Prep	3005A			450320	QTZ5	EET CF	04/02/25 09:00
Total/NA	Analysis	6020B		1	450918	NFT2	EET CF	04/07/25 12:14
Total/NA	Analysis	I-3765-85		1	450030	DGU1	EET CF	03/28/25 07:41

Client Sample ID: PZ-R3

Lab Sample ID: 310-302895-4

Date Collected: 03/24/25 16:38

Matrix: Water

Date Received: 03/27/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	450081	WSE8	EET CF	03/29/25 05:53
Total/NA	Analysis	8260D		1	450517	WSE8	EET CF	04/02/25 23:05
Total/NA	Prep	3005A			450320	QTZ5	EET CF	04/02/25 09:00
Total/NA	Analysis	6020B		1	450798	NFT2	EET CF	04/04/25 14:29
Total/NA	Analysis	I-3765-85		1	450030	DGU1	EET CF	03/28/25 07:41

Lab Chronicle

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

Client Sample ID: PZ-R4

Lab Sample ID: 310-302895-5

Date Collected: 03/24/25 17:29

Matrix: Water

Date Received: 03/27/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	450081	WSE8	EET CF	03/29/25 06:16
Total/NA	Analysis	8260D		1	450517	WSE8	EET CF	04/02/25 23:28
Total/NA	Prep	3005A			450320	QTZ5	EET CF	04/02/25 09:00
Total/NA	Analysis	6020B		1	450798	NFT2	EET CF	04/04/25 14:26
Total/NA	Prep	3005A			450320	QTZ5	EET CF	04/02/25 09:00
Total/NA	Analysis	6020B		1	450918	NFT2	EET CF	04/07/25 12:38
Total/NA	Analysis	I-3765-85		1	450030	DGU1	EET CF	03/28/25 07:41

Client Sample ID: MW-06-6R

Lab Sample ID: 310-302895-6

Date Collected: 03/24/25 14:17

Matrix: Water

Date Received: 03/27/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			450320	QTZ5	EET CF	04/02/25 09:00
Total/NA	Analysis	6020B		1	450798	NFT2	EET CF	04/04/25 14:02
Total/NA	Prep	3005A			450320	QTZ5	EET CF	04/02/25 09:00
Total/NA	Analysis	6020B		1	450918	NFT2	EET CF	04/07/25 12:16
Total/NA	Analysis	I-3765-85		1	450030	DGU1	EET CF	03/28/25 07:41

Client Sample ID: MW-D

Lab Sample ID: 310-302895-7

Date Collected: 03/24/25 15:48

Matrix: Water

Date Received: 03/27/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	450081	WSE8	EET CF	03/29/25 06:38
Total/NA	Analysis	8260D		1	450517	WSE8	EET CF	04/02/25 23:50
Total/NA	Prep	3005A			450320	QTZ5	EET CF	04/02/25 09:00
Total/NA	Analysis	6020B		1	450798	NFT2	EET CF	04/04/25 14:12
Total/NA	Prep	3005A			450320	QTZ5	EET CF	04/02/25 09:00
Total/NA	Analysis	6020B		4	450918	NFT2	EET CF	04/07/25 12:23
Total/NA	Analysis	I-3765-85		1	450030	DGU1	EET CF	03/28/25 07:41

Client Sample ID: Trip Blank

Lab Sample ID: 310-302895-8

Date Collected: 03/24/25 00:00

Matrix: Water

Date Received: 03/27/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	450081	WSE8	EET CF	03/28/25 23:30
Total/NA	Analysis	8260D		1	450517	WSE8	EET CF	04/02/25 20:50

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Eurofins Cedar Falls

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

1
2
3
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16

Method Summary

Client: SCS Engineers

Project/Site: Clinton County North 1st 2025 GW Sampling
Event

Job ID: 310-302895-1
SDG: Clinton County North

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

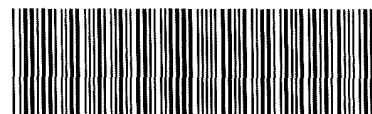
USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



Environment Testing
America



310-302895 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>SCS</u>			
City/State: <u>West Des Moines IA</u>		Project:	
Receipt Information			
Date/Time Received:	DATE <u>3/27/25</u>	TIME <u>1625</u>	Received By: <u>XB</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		If yes: Cooler ID:	
☒ Yes ☐ No			
Multiple Coolers?		If yes: Cooler # _____ of _____	
☐ Yes ☒ No			
Cooler Custody Seals Present?		If yes: Cooler custody seals intact?	
☐ Yes ☒ No		☐ Yes ☐ No	
Sample Custody Seals Present?		If yes: Sample custody seals intact?	
☐ Yes ☒ No		☐ Yes ☐ No	
Trip Blank Present?		If yes: Which VOA samples are in cooler? ↓	
☒ Yes ☐ No			
<u>all</u>			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>Z</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>26</u>		Corrected Temp (°C): <u>26</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No			
a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Chain of Custody Record

Cedar Falls, IA 50613-6907
phone 319.277.2401 fax 319.277.2425

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Project Manager: Sean Marczewski
Email: smarczewski@gmail.com
Cell 712-661-9682

Analysis Turnaround Time
☐ CALENDAR DAYS ☐ WORKING DAYS
Other: ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day

Client Contact		Project Manager: Sean Marczewski		Site Contact: Sean Marczewski		Date:		COC No					
SCS Engineers		Email: smarczewski@gmail.com		Lab Contact: Sam Miller		Carrier:		Sampler					
1690 All-State Court, Suite 100		Cell 712-661-9682						For Lab Use Only:					
West Des Moines, IA 50265								Walk-in Client:					
515-631-6160								Lab Sampling					
Project Name: Clinton County North 1st 2025 GW Sampling Event								Job / SDG No					
Site: Clinton County North													
P O # 27223133.25													
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Appendix I Metals List	Appendix I VOCs	Arsenic	Total Suspended Solids	Trip Blank	Sample Specific Notes
MW-06-7R	3-24-25	15:01	G	H2O			X				X		
MW-90-5								X					
MW-90-13	3-24-25	17:52	G	H2O				X					
MW-03-16	3-24-25	15:48	G	H2O		X					X		
PZ-R3	3-24-25	16:38	G	H2O				X	X	X			
PZ-R4	3-24-25	17:29	G	H2O			X				X		
MW-06-6R	3-24-25	14:17	G	H2O				X			X		
MW-D	3-24-25	15:48	G	H2O		X					X		empty cooler containing VOC samples
Trip Blank													
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other													
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample													
Special Instructions/QC Requirements & Comments: ☐ Non-Hazardous ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months													
Custody Seals Intact: ☐ Yes ☐ No													
Relinquished by: <i>Sean Marczewski</i> Company: SCS Date/Time: 3-27-25/14:00													
Relinquished by: Company: Date/Time:													
Relinquished by: Company: Date/Time: 3-27-25/16:25													

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-302895-1
SDG Number: Clinton County North

Login Number: 302895

List Number: 1

Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Nathan Ohrt
SCS Engineers
1690 All State Court
Suite 100

West Des Moines, Iowa 50265

Generated 11/25/2025 8:38:29 AM Revision 1

JOB DESCRIPTION

Clinton County North - 2nd 2025 GW Sampling Event
Clinton County North

JOB NUMBER

310-320144-1

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



Authorized for release by
Samuel Miller, Project Management Assistant I
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(319)595-2008

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Revision 1

Table of Contents

Cover Page 1

Table of Contents 3

Case Narrative 4

Sample Summary 5

Detection Summary 6

Detection Limit Exceptions Summary 8

Client Sample Results 9

Definitions 26

Surrogate Summary 27

QC Sample Results 28

QC Association 40

Chronicle 42

Certification Summary 45

Method Summary 46

Chain of Custody 47

Receipt Checklists 49



Case Narrative

Client: SCS Engineers
Project: Clinton County North - 2nd 2025 GW Sampling Event

Job ID: 310-320144-1

Job ID: 310-320144-1

Eurofins Cedar Falls

Job Narrative 310-320144-1

Receipt

The samples were received on 11/7/2025 5:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8° C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-473296 recovered above the upper control limit for Bromomethane (52%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is:(CCV 310-473296/4).

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

Metals

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

General Chemistry

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

VOA Prep

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

Eurofins Cedar Falls

Sample Summary

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
310-320144-1	MW-06-7R	Water	11/05/25 11:28	11/07/25 17:30	Iowa
310-320144-2	MW-90-5	Water	11/06/25 15:51	11/07/25 17:30	Iowa
310-320144-3	MW-90-13	Water	11/05/25 07:58	11/07/25 17:30	Iowa
310-320144-4	MW-03-16	Water	11/05/25 08:50	11/07/25 17:30	Iowa
310-320144-5	PZ-R3	Water	11/05/25 09:39	11/07/25 17:30	Iowa
310-320144-6	PZ-R4	Water	11/05/25 10:23	11/07/25 17:30	Iowa
310-320144-7	MW-06-6R	Water	11/06/25 15:08	11/07/25 17:30	Iowa
310-320144-8	MW-D	Water	11/05/25 09:05	11/07/25 17:30	Iowa
310-320144-9	Trip Blank	Water	11/05/25 00:00	11/07/25 17:30	Iowa

Detection Summary

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Client Sample ID: MW-06-7R

Lab Sample ID: 310-320144-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00260		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.103		0.00200	0.000660	mg/L	1		6020B	Total/NA
Chromium	0.00367	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Total Suspended Solids	10.7		5.00	3.50	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-90-5

Lab Sample ID: 310-320144-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.295	J	0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	1.78		1.00	0.350	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	29.3		1.00	0.550	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.611	J	1.00	0.480	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.859	J	1.00	0.410	ug/L	1		8260D	Total/NA
Trichloroethene	21.9		1.00	0.350	ug/L	1		8260D	Total/NA

Client Sample ID: MW-90-13

Lab Sample ID: 310-320144-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	1.38		1.00	0.490	ug/L	1		8260D	Total/NA
Acetone	9.11	J	10.0	3.80	ug/L	1		8260D	Total/NA
Benzene	6.39		0.500	0.220	ug/L	1		8260D	Total/NA
Ethylbenzene	1.95		1.00	0.420	ug/L	1		8260D	Total/NA
Toluene	1.30		1.00	0.430	ug/L	1		8260D	Total/NA

Client Sample ID: MW-03-16

Lab Sample ID: 310-320144-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	2.20		1.00	0.490	ug/L	1		8260D	Total/NA
Acetone	7.68	J	10.0	3.80	ug/L	1		8260D	Total/NA
Benzene	10.2		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	10.9		1.00	0.350	ug/L	1		8260D	Total/NA
Chloroethane	1.56	J	4.00	0.900	ug/L	1		8260D	Total/NA
Arsenic	0.155		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.373		0.00200	0.000660	mg/L	1		6020B	Total/NA
Chromium	0.0143		0.00500	0.00180	mg/L	1		6020B	Total/NA
Cobalt	0.00669		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0460		0.00500	0.00230	mg/L	1		6020B	Total/NA
Total Suspended Solids	92.0		15.0	10.5	mg/L	1		I-3765-85	Total/NA

Client Sample ID: PZ-R3

Lab Sample ID: 310-320144-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.237	J	0.500	0.220	ug/L	1		8260D	Total/NA
Arsenic	0.0473		0.00200	0.000530	mg/L	1		6020B	Total/NA
Total Suspended Solids	157		15.0	10.5	mg/L	1		I-3765-85	Total/NA

Client Sample ID: PZ-R4

Lab Sample ID: 310-320144-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.239	J	0.500	0.220	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.749	J	1.00	0.550	ug/L	1		8260D	Total/NA
Arsenic	0.0230		0.00200	0.000530	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Client Sample ID: PZ-R4 (Continued)

Lab Sample ID: 310-320144-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.340		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00239		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0141		0.00500	0.00230	mg/L	1		6020B	Total/NA
Total Suspended Solids	88.0		15.0	10.5	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-06-6R

Lab Sample ID: 310-320144-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.000780	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.397		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000282	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Total Suspended Solids	21.0		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-D

Lab Sample ID: 310-320144-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	2.20		1.00	0.490	ug/L	1		8260D	Total/NA
Acetone	7.92	J	10.0	3.80	ug/L	1		8260D	Total/NA
Benzene	9.74		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	10.6		1.00	0.350	ug/L	1		8260D	Total/NA
Chloroethane	1.57	J	4.00	0.900	ug/L	1		8260D	Total/NA
Arsenic	0.149		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.390		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00584		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0368		0.00500	0.00230	mg/L	1		6020B	Total/NA
Total Suspended Solids	95.0		15.0	10.5	mg/L	1		I-3765-85	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 310-320144-9

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Quantitation Limit Exceptions Summary

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
8260D	1,2-Dibromo-3-Chloropropane	Water	Total/NA	ug/L	1.20	5.0
8260D	1,2-Dibromoethane (EDB)	Water	Total/NA	ug/L	0.340	1.0

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Client Sample ID: MW-06-7R

Lab Sample ID: 310-320144-1

Date Collected: 11/05/25 11:28

Matrix: Water

Date Received: 11/07/25 17:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00	F1	1.00	0.380	ug/L			11/12/25 03:11	1
1,1,1-Trichloroethane	<1.00	F1	1.00	0.420	ug/L			11/12/25 03:11	1
1,1,2,2-Tetrachloroethane	<1.00	F1	1.00	0.350	ug/L			11/12/25 03:11	1
1,1,2-Trichloroethane	<1.00	F1	1.00	0.330	ug/L			11/12/25 03:11	1
1,1-Dichloroethane	<1.00	F1	1.00	0.400	ug/L			11/12/25 03:11	1
1,1-Dichloroethene	<2.00	F1	2.00	0.460	ug/L			11/12/25 03:11	1
1,2,3-Trichloropropane	<1.00	F1	1.00	0.430	ug/L			11/12/25 03:11	1
1,2-Dibromo-3-Chloropropane	<1.20	F1	1.20	1.20	ug/L			11/12/25 03:11	1
1,2-Dibromoethane (EDB)	<0.340	F1	0.340	0.340	ug/L			11/12/25 03:11	1
1,2-Dichlorobenzene	<1.00	F1	1.00	0.370	ug/L			11/12/25 03:11	1
1,2-Dichloroethane	<1.00	F1	1.00	0.890	ug/L			11/12/25 03:11	1
1,2-Dichloropropane	<1.00	F1	1.00	0.380	ug/L			11/12/25 03:11	1
1,4-Dichlorobenzene	<1.00	F1	1.00	0.490	ug/L			11/12/25 03:11	1
2-Butanone (MEK)	<10.0	F1	10.0	3.40	ug/L			11/12/25 03:11	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/12/25 17:59	1
4-Methyl-2-pentanone (MIBK)	<10.0	F1	10.0	3.50	ug/L			11/12/25 03:11	1
Acetone	<10.0	F1	10.0	3.80	ug/L			11/12/25 03:11	1
Acrylonitrile	<10.0	F1	10.0	2.20	ug/L			11/12/25 03:11	1
Benzene	<0.500	F1	0.500	0.220	ug/L			11/12/25 03:11	1
Bromochloromethane	<5.00	F1	5.00	1.70	ug/L			11/12/25 03:11	1
Bromodichloromethane	<1.00	F1	1.00	0.390	ug/L			11/12/25 03:11	1
Bromoform	<5.00	F1	5.00	2.60	ug/L			11/12/25 03:11	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/12/25 03:11	1
Carbon disulfide	<1.00	F1	1.00	0.450	ug/L			11/12/25 03:11	1
Carbon tetrachloride	<2.00	F1	2.00	0.650	ug/L			11/12/25 03:11	1
Chlorobenzene	<1.00	F1	1.00	0.350	ug/L			11/12/25 03:11	1
Chlorodibromomethane	<5.00	F1	5.00	1.50	ug/L			11/12/25 03:11	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/12/25 03:11	1
Chloroform	<3.00	F1	3.00	1.30	ug/L			11/12/25 03:11	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/12/25 03:11	1
cis-1,2-Dichloroethene	<1.00	F1	1.00	0.550	ug/L			11/12/25 03:11	1
cis-1,3-Dichloropropene	<5.00	F1	5.00	1.20	ug/L			11/12/25 03:11	1
Dibromomethane	<1.00	F1	1.00	0.330	ug/L			11/12/25 03:11	1
Ethylbenzene	<1.00	F1	1.00	0.420	ug/L			11/12/25 03:11	1
Iodomethane	<10.0	F1	10.0	2.60	ug/L			11/12/25 03:11	1
Methylene Chloride	<5.00	F1	5.00	1.70	ug/L			11/12/25 03:11	1
Styrene	<1.00	F1	1.00	0.370	ug/L			11/12/25 03:11	1
Tetrachloroethene	<1.00	F1	1.00	0.480	ug/L			11/12/25 03:11	1
Toluene	<1.00	F1	1.00	0.430	ug/L			11/12/25 03:11	1
trans-1,2-Dichloroethene	<1.00	F1	1.00	0.410	ug/L			11/12/25 03:11	1
trans-1,3-Dichloropropene	<5.00	F1	5.00	2.30	ug/L			11/12/25 03:11	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/12/25 03:11	1
Trichloroethene	<1.00	F1	1.00	0.350	ug/L			11/12/25 03:11	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/12/25 03:11	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/12/25 03:11	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/12/25 03:11	1
Xylenes, Total	<3.00	F1	3.00	1.10	ug/L			11/12/25 03:11	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Client Sample ID: MW-06-7R

Lab Sample ID: 310-320144-1

Date Collected: 11/05/25 11:28

Matrix: Water

Date Received: 11/07/25 17:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		76 - 130		11/12/25 03:11	1
Dibromofluoromethane (Surr)	99		76 - 130		11/12/25 17:59	1
Toluene-d8 (Surr)	94		80 - 120		11/12/25 03:11	1
Toluene-d8 (Surr)	102		80 - 120		11/12/25 17:59	1
4-Bromofluorobenzene (Surr)	103		80 - 120		11/12/25 03:11	1
4-Bromofluorobenzene (Surr)	110		80 - 120		11/12/25 17:59	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/11/25 08:30	11/17/25 16:31	1
Arsenic	0.00260		0.00200	0.000530	mg/L		11/11/25 08:30	11/18/25 16:41	1
Barium	0.103		0.00200	0.000660	mg/L		11/11/25 08:30	11/18/25 16:41	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/11/25 08:30	11/17/25 16:31	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/11/25 08:30	11/17/25 16:31	1
Chromium	0.00367 J		0.00500	0.00180	mg/L		11/11/25 08:30	11/18/25 16:41	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/11/25 08:30	11/18/25 16:41	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/11/25 08:30	11/18/25 16:41	1
Lead	<0.000500		0.000500	0.000330	mg/L		11/11/25 08:30	11/17/25 16:31	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/11/25 08:30	11/21/25 15:38	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/11/25 08:30	11/18/25 16:41	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/11/25 08:30	11/17/25 16:31	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/11/25 08:30	11/17/25 16:31	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		11/11/25 08:30	11/18/25 16:41	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/11/25 08:30	11/18/25 16:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	10.7		5.00	3.50	mg/L			11/10/25 11:29	1

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Client Sample ID: MW-90-5

Lab Sample ID: 310-320144-2

Date Collected: 11/06/25 15:51

Matrix: Water

Date Received: 11/07/25 17:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/12/25 03:33	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/12/25 03:33	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/12/25 03:33	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/12/25 03:33	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/12/25 03:33	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/12/25 03:33	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/12/25 03:33	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/12/25 03:33	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/12/25 03:33	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/12/25 03:33	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/12/25 03:33	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/12/25 03:33	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/12/25 03:33	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/12/25 03:33	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/12/25 18:21	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/12/25 03:33	1
Acetone	<10.0		10.0	3.80	ug/L			11/12/25 03:33	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/12/25 03:33	1
Benzene	0.295	J	0.500	0.220	ug/L			11/12/25 03:33	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/12/25 03:33	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/12/25 03:33	1
Bromoform	<5.00		5.00	2.60	ug/L			11/12/25 03:33	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/12/25 03:33	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/12/25 03:33	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/12/25 03:33	1
Chlorobenzene	1.78		1.00	0.350	ug/L			11/12/25 03:33	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/12/25 03:33	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/12/25 03:33	1
Chloroform	<3.00		3.00	1.30	ug/L			11/12/25 03:33	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/12/25 03:33	1
cis-1,2-Dichloroethene	29.3		1.00	0.550	ug/L			11/12/25 03:33	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/12/25 03:33	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/12/25 03:33	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/12/25 03:33	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/12/25 03:33	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/12/25 03:33	1
Styrene	<1.00		1.00	0.370	ug/L			11/12/25 03:33	1
Tetrachloroethene	0.611	J	1.00	0.480	ug/L			11/12/25 03:33	1
Toluene	<1.00		1.00	0.430	ug/L			11/12/25 03:33	1
trans-1,2-Dichloroethene	0.859	J	1.00	0.410	ug/L			11/12/25 03:33	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/12/25 03:33	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/12/25 03:33	1
Trichloroethene	21.9		1.00	0.350	ug/L			11/12/25 03:33	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/12/25 03:33	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/12/25 03:33	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/12/25 03:33	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/12/25 03:33	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Client Sample ID: MW-90-5

Lab Sample ID: 310-320144-2

Date Collected: 11/06/25 15:51

Matrix: Water

Date Received: 11/07/25 17:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		76 - 130		11/12/25 03:33	1
Dibromofluoromethane (Surr)	101		76 - 130		11/12/25 18:21	1
Toluene-d8 (Surr)	95		80 - 120		11/12/25 03:33	1
Toluene-d8 (Surr)	101		80 - 120		11/12/25 18:21	1
4-Bromofluorobenzene (Surr)	103		80 - 120		11/12/25 03:33	1
4-Bromofluorobenzene (Surr)	106		80 - 120		11/12/25 18:21	1

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Client Sample ID: MW-90-13

Lab Sample ID: 310-320144-3

Date Collected: 11/05/25 07:58

Matrix: Water

Date Received: 11/07/25 17:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/12/25 03:55	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/12/25 03:55	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/12/25 03:55	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/12/25 03:55	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/12/25 03:55	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/12/25 03:55	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/12/25 03:55	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/12/25 03:55	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/12/25 03:55	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/12/25 03:55	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/12/25 03:55	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/12/25 03:55	1
1,4-Dichlorobenzene	1.38		1.00	0.490	ug/L			11/12/25 03:55	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/12/25 03:55	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/12/25 18:44	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/12/25 03:55	1
Acetone	9.11 J		10.0	3.80	ug/L			11/12/25 03:55	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/12/25 03:55	1
Benzene	6.39		0.500	0.220	ug/L			11/12/25 03:55	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/12/25 03:55	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/12/25 03:55	1
Bromoform	<5.00		5.00	2.60	ug/L			11/12/25 03:55	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/12/25 03:55	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/12/25 03:55	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/12/25 03:55	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/12/25 03:55	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/12/25 03:55	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/12/25 03:55	1
Chloroform	<3.00		3.00	1.30	ug/L			11/12/25 03:55	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/12/25 03:55	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/12/25 03:55	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/12/25 03:55	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/12/25 03:55	1
Ethylbenzene	1.95		1.00	0.420	ug/L			11/12/25 03:55	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/12/25 03:55	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/12/25 03:55	1
Styrene	<1.00		1.00	0.370	ug/L			11/12/25 03:55	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/12/25 03:55	1
Toluene	1.30		1.00	0.430	ug/L			11/12/25 03:55	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/12/25 03:55	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/12/25 03:55	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/12/25 03:55	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/12/25 03:55	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/12/25 03:55	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/12/25 03:55	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/12/25 03:55	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/12/25 03:55	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Client Sample ID: MW-90-13

Lab Sample ID: 310-320144-3

Date Collected: 11/05/25 07:58

Matrix: Water

Date Received: 11/07/25 17:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		76 - 130		11/12/25 03:55	1
Dibromofluoromethane (Surr)	102		76 - 130		11/12/25 18:44	1
Toluene-d8 (Surr)	94		80 - 120		11/12/25 03:55	1
Toluene-d8 (Surr)	102		80 - 120		11/12/25 18:44	1
4-Bromofluorobenzene (Surr)	101		80 - 120		11/12/25 03:55	1
4-Bromofluorobenzene (Surr)	109		80 - 120		11/12/25 18:44	1

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Client Sample ID: MW-03-16

Lab Sample ID: 310-320144-4

Date Collected: 11/05/25 08:50

Matrix: Water

Date Received: 11/07/25 17:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/12/25 04:18	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/12/25 04:18	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/12/25 04:18	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/12/25 04:18	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/12/25 04:18	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/12/25 04:18	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/12/25 04:18	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/12/25 04:18	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/12/25 04:18	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/12/25 04:18	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/12/25 04:18	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/12/25 04:18	1
1,4-Dichlorobenzene	2.20		1.00	0.490	ug/L			11/12/25 04:18	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/12/25 04:18	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/12/25 19:07	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/12/25 04:18	1
Acetone	7.68 J		10.0	3.80	ug/L			11/12/25 04:18	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/12/25 04:18	1
Benzene	10.2		0.500	0.220	ug/L			11/12/25 04:18	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/12/25 04:18	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/12/25 04:18	1
Bromoform	<5.00		5.00	2.60	ug/L			11/12/25 04:18	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/12/25 04:18	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/12/25 04:18	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/12/25 04:18	1
Chlorobenzene	10.9		1.00	0.350	ug/L			11/12/25 04:18	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/12/25 04:18	1
Chloroethane	1.56 J		4.00	0.900	ug/L			11/12/25 04:18	1
Chloroform	<3.00		3.00	1.30	ug/L			11/12/25 04:18	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/12/25 04:18	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/12/25 04:18	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/12/25 04:18	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/12/25 04:18	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/12/25 04:18	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/12/25 04:18	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/12/25 04:18	1
Styrene	<1.00		1.00	0.370	ug/L			11/12/25 04:18	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/12/25 04:18	1
Toluene	<1.00		1.00	0.430	ug/L			11/12/25 04:18	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/12/25 04:18	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/12/25 04:18	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/12/25 04:18	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/12/25 04:18	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/12/25 04:18	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/12/25 04:18	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/12/25 04:18	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/12/25 04:18	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Client Sample ID: MW-03-16

Lab Sample ID: 310-320144-4

Date Collected: 11/05/25 08:50

Matrix: Water

Date Received: 11/07/25 17:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		76 - 130		11/12/25 04:18	1
Dibromofluoromethane (Surr)	99		76 - 130		11/12/25 19:07	1
Toluene-d8 (Surr)	97		80 - 120		11/12/25 04:18	1
Toluene-d8 (Surr)	102		80 - 120		11/12/25 19:07	1
4-Bromofluorobenzene (Surr)	103		80 - 120		11/12/25 04:18	1
4-Bromofluorobenzene (Surr)	107		80 - 120		11/12/25 19:07	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/11/25 08:30	11/17/25 16:34	1
Arsenic	0.155		0.00200	0.000530	mg/L		11/11/25 08:30	11/18/25 16:43	1
Barium	0.373		0.00200	0.000660	mg/L		11/11/25 08:30	11/18/25 16:43	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/11/25 08:30	11/17/25 16:34	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/11/25 08:30	11/17/25 16:34	1
Chromium	0.0143		0.00500	0.00180	mg/L		11/11/25 08:30	11/18/25 16:43	1
Cobalt	0.00669		0.000500	0.000170	mg/L		11/11/25 08:30	11/18/25 16:43	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/11/25 08:30	11/18/25 16:43	1
Lead	<0.000500		0.000500	0.000330	mg/L		11/11/25 08:30	11/17/25 16:34	1
Nickel	0.0460		0.00500	0.00230	mg/L		11/11/25 08:30	11/21/25 15:41	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/11/25 08:30	11/18/25 16:43	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/11/25 08:30	11/17/25 16:34	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/11/25 08:30	11/17/25 16:34	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		11/11/25 08:30	11/18/25 16:43	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/11/25 08:30	11/18/25 16:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	92.0		15.0	10.5	mg/L			11/10/25 11:29	1

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Client Sample ID: PZ-R3

Lab Sample ID: 310-320144-5

Date Collected: 11/05/25 09:39

Matrix: Water

Date Received: 11/07/25 17:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/12/25 04:40	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/12/25 04:40	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/12/25 04:40	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/12/25 04:40	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/12/25 04:40	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/12/25 04:40	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/12/25 04:40	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/12/25 04:40	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/12/25 04:40	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/12/25 04:40	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/12/25 04:40	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/12/25 04:40	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/12/25 04:40	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/12/25 04:40	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/12/25 19:30	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/12/25 04:40	1
Acetone	<10.0		10.0	3.80	ug/L			11/12/25 04:40	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/12/25 04:40	1
Benzene	0.237	J	0.500	0.220	ug/L			11/12/25 04:40	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/12/25 04:40	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/12/25 04:40	1
Bromoform	<5.00		5.00	2.60	ug/L			11/12/25 04:40	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/12/25 04:40	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/12/25 04:40	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/12/25 04:40	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/12/25 04:40	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/12/25 04:40	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/12/25 04:40	1
Chloroform	<3.00		3.00	1.30	ug/L			11/12/25 04:40	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/12/25 04:40	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/12/25 04:40	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/12/25 04:40	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/12/25 04:40	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/12/25 04:40	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/12/25 04:40	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/12/25 04:40	1
Styrene	<1.00		1.00	0.370	ug/L			11/12/25 04:40	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/12/25 04:40	1
Toluene	<1.00		1.00	0.430	ug/L			11/12/25 04:40	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/12/25 04:40	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/12/25 04:40	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/12/25 04:40	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/12/25 04:40	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/12/25 04:40	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/12/25 04:40	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/12/25 04:40	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/12/25 04:40	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Client Sample ID: PZ-R3

Lab Sample ID: 310-320144-5

Date Collected: 11/05/25 09:39

Matrix: Water

Date Received: 11/07/25 17:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		76 - 130		11/12/25 04:40	1
Dibromofluoromethane (Surr)	101		76 - 130		11/12/25 19:30	1
Toluene-d8 (Surr)	94		80 - 120		11/12/25 04:40	1
Toluene-d8 (Surr)	103		80 - 120		11/12/25 19:30	1
4-Bromofluorobenzene (Surr)	101		80 - 120		11/12/25 04:40	1
4-Bromofluorobenzene (Surr)	106		80 - 120		11/12/25 19:30	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0473		0.00200	0.000530	mg/L		11/11/25 08:30	11/17/25 16:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	157		15.0	10.5	mg/L			11/10/25 11:29	1

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Client Sample ID: PZ-R4

Lab Sample ID: 310-320144-6

Date Collected: 11/05/25 10:23

Matrix: Water

Date Received: 11/07/25 17:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/12/25 05:02	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/12/25 05:02	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/12/25 05:02	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/12/25 05:02	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/12/25 05:02	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/12/25 05:02	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/12/25 05:02	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/12/25 05:02	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/12/25 05:02	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/12/25 05:02	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/12/25 05:02	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/12/25 05:02	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/12/25 05:02	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/12/25 05:02	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/12/25 19:53	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/12/25 05:02	1
Acetone	<10.0		10.0	3.80	ug/L			11/12/25 05:02	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/12/25 05:02	1
Benzene	0.239	J	0.500	0.220	ug/L			11/12/25 05:02	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/12/25 05:02	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/12/25 05:02	1
Bromoform	<5.00		5.00	2.60	ug/L			11/12/25 05:02	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/12/25 05:02	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/12/25 05:02	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/12/25 05:02	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/12/25 05:02	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/12/25 05:02	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/12/25 05:02	1
Chloroform	<3.00		3.00	1.30	ug/L			11/12/25 05:02	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/12/25 05:02	1
cis-1,2-Dichloroethene	0.749	J	1.00	0.550	ug/L			11/12/25 05:02	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/12/25 05:02	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/12/25 05:02	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/12/25 05:02	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/12/25 05:02	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/12/25 05:02	1
Styrene	<1.00		1.00	0.370	ug/L			11/12/25 05:02	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/12/25 05:02	1
Toluene	<1.00		1.00	0.430	ug/L			11/12/25 05:02	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/12/25 05:02	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/12/25 05:02	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/12/25 05:02	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/12/25 05:02	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/12/25 05:02	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/12/25 05:02	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/12/25 05:02	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/12/25 05:02	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Client Sample ID: PZ-R4

Lab Sample ID: 310-320144-6

Date Collected: 11/05/25 10:23

Matrix: Water

Date Received: 11/07/25 17:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		76 - 130		11/12/25 05:02	1
Dibromofluoromethane (Surr)	100		76 - 130		11/12/25 19:53	1
Toluene-d8 (Surr)	95		80 - 120		11/12/25 05:02	1
Toluene-d8 (Surr)	102		80 - 120		11/12/25 19:53	1
4-Bromofluorobenzene (Surr)	102		80 - 120		11/12/25 05:02	1
4-Bromofluorobenzene (Surr)	110		80 - 120		11/12/25 19:53	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/11/25 08:30	11/17/25 16:44	1
Arsenic	0.0230		0.00200	0.000530	mg/L		11/11/25 08:30	11/17/25 16:44	1
Barium	0.340		0.00200	0.000660	mg/L		11/11/25 08:30	11/17/25 16:44	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/11/25 08:30	11/17/25 16:44	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/11/25 08:30	11/17/25 16:44	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/11/25 08:30	11/17/25 16:44	1
Cobalt	0.00239		0.000500	0.000170	mg/L		11/11/25 08:30	11/17/25 16:44	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/11/25 08:30	11/17/25 16:44	1
Lead	<0.000500		0.000500	0.000330	mg/L		11/11/25 08:30	11/17/25 16:44	1
Nickel	0.0141		0.00500	0.00230	mg/L		11/11/25 08:30	11/17/25 16:44	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/11/25 08:30	11/17/25 16:44	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/11/25 08:30	11/17/25 16:44	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/11/25 08:30	11/17/25 16:44	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		11/11/25 08:30	11/17/25 16:44	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/11/25 08:30	11/18/25 16:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	88.0		15.0	10.5	mg/L			11/10/25 11:29	1

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Client Sample ID: MW-06-6R

Lab Sample ID: 310-320144-7

Date Collected: 11/06/25 15:08

Matrix: Water

Date Received: 11/07/25 17:30

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000780	J	0.00200	0.000530	mg/L		11/11/25 08:30	11/17/25 16:47	1
Barium	0.397		0.00200	0.000660	mg/L		11/11/25 08:30	11/17/25 16:47	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/11/25 08:30	11/17/25 16:47	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/11/25 08:30	11/17/25 16:47	1
Cobalt	0.000282	J	0.000500	0.000170	mg/L		11/11/25 08:30	11/17/25 16:47	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/11/25 08:30	11/17/25 16:47	1
Lead	<0.000500		0.000500	0.000330	mg/L		11/11/25 08:30	11/17/25 16:47	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/11/25 08:30	11/17/25 16:47	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		11/11/25 08:30	11/17/25 16:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	21.0		1.88	1.31	mg/L			11/11/25 09:56	1

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Client Sample ID: MW-D

Lab Sample ID: 310-320144-8

Date Collected: 11/05/25 09:05

Matrix: Water

Date Received: 11/07/25 17:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/12/25 05:24	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/12/25 05:24	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/12/25 05:24	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/12/25 05:24	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/12/25 05:24	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/12/25 05:24	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/12/25 05:24	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/12/25 05:24	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/12/25 05:24	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/12/25 05:24	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/12/25 05:24	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/12/25 05:24	1
1,4-Dichlorobenzene	2.20		1.00	0.490	ug/L			11/12/25 05:24	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/12/25 05:24	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/12/25 20:16	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/12/25 05:24	1
Acetone	7.92 J		10.0	3.80	ug/L			11/12/25 05:24	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/12/25 05:24	1
Benzene	9.74		0.500	0.220	ug/L			11/12/25 05:24	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/12/25 05:24	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/12/25 05:24	1
Bromoform	<5.00		5.00	2.60	ug/L			11/12/25 05:24	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/12/25 05:24	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/12/25 05:24	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/12/25 05:24	1
Chlorobenzene	10.6		1.00	0.350	ug/L			11/12/25 05:24	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/12/25 05:24	1
Chloroethane	1.57 J		4.00	0.900	ug/L			11/12/25 05:24	1
Chloroform	<3.00		3.00	1.30	ug/L			11/12/25 05:24	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/12/25 05:24	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/12/25 05:24	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/12/25 05:24	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/12/25 05:24	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/12/25 05:24	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/12/25 05:24	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/12/25 05:24	1
Styrene	<1.00		1.00	0.370	ug/L			11/12/25 05:24	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/12/25 05:24	1
Toluene	<1.00		1.00	0.430	ug/L			11/12/25 05:24	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/12/25 05:24	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/12/25 05:24	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/12/25 05:24	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/12/25 05:24	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/12/25 05:24	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/12/25 05:24	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/12/25 05:24	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/12/25 05:24	1

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Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Client Sample ID: MW-D

Lab Sample ID: 310-320144-8

Date Collected: 11/05/25 09:05

Matrix: Water

Date Received: 11/07/25 17:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		76 - 130		11/12/25 05:24	1
Dibromofluoromethane (Surr)	101		76 - 130		11/12/25 20:16	1
Toluene-d8 (Surr)	95		80 - 120		11/12/25 05:24	1
Toluene-d8 (Surr)	102		80 - 120		11/12/25 20:16	1
4-Bromofluorobenzene (Surr)	101		80 - 120		11/12/25 05:24	1
4-Bromofluorobenzene (Surr)	107		80 - 120		11/12/25 20:16	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/11/25 08:30	11/17/25 16:49	1
Arsenic	0.149		0.00200	0.000530	mg/L		11/11/25 08:30	11/17/25 16:49	1
Barium	0.390		0.00200	0.000660	mg/L		11/11/25 08:30	11/17/25 16:49	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/11/25 08:30	11/17/25 16:49	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/11/25 08:30	11/17/25 16:49	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/11/25 08:30	11/17/25 16:49	1
Cobalt	0.00584		0.000500	0.000170	mg/L		11/11/25 08:30	11/17/25 16:49	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/11/25 08:30	11/17/25 16:49	1
Lead	<0.000500		0.000500	0.000330	mg/L		11/11/25 08:30	11/17/25 16:49	1
Nickel	0.0368		0.00500	0.00230	mg/L		11/11/25 08:30	11/17/25 16:49	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/11/25 08:30	11/17/25 16:49	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/11/25 08:30	11/17/25 16:49	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/11/25 08:30	11/17/25 16:49	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		11/11/25 08:30	11/17/25 16:49	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/11/25 08:30	11/18/25 16:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	95.0		15.0	10.5	mg/L			11/10/25 11:29	1

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Client Sample ID: Trip Blank

Lab Sample ID: 310-320144-9

Date Collected: 11/05/25 00:00

Matrix: Water

Date Received: 11/07/25 17:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/11/25 13:52	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/11/25 13:52	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/11/25 13:52	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/11/25 13:52	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/11/25 13:52	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/11/25 13:52	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/11/25 13:52	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/11/25 13:52	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/11/25 13:52	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/11/25 13:52	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/11/25 13:52	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/11/25 13:52	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/11/25 13:52	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/11/25 13:52	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/11/25 13:52	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/11/25 13:52	1
Acetone	<10.0		10.0	3.80	ug/L			11/11/25 13:52	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/11/25 13:52	1
Benzene	<0.500		0.500	0.220	ug/L			11/11/25 13:52	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/11/25 13:52	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/11/25 13:52	1
Bromoform	<5.00		5.00	2.60	ug/L			11/11/25 13:52	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/11/25 13:52	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/11/25 13:52	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/11/25 13:52	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/11/25 13:52	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/11/25 13:52	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/11/25 13:52	1
Chloroform	<3.00		3.00	1.30	ug/L			11/11/25 13:52	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/11/25 13:52	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/11/25 13:52	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/11/25 13:52	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/11/25 13:52	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/11/25 13:52	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/11/25 13:52	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/11/25 13:52	1
Styrene	<1.00		1.00	0.370	ug/L			11/11/25 13:52	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/11/25 13:52	1
Toluene	<1.00		1.00	0.430	ug/L			11/11/25 13:52	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/11/25 13:52	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/11/25 13:52	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/11/25 13:52	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/11/25 13:52	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/11/25 13:52	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/11/25 13:52	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/11/25 13:52	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/11/25 13:52	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Client Sample ID: Trip Blank

Date Collected: 11/05/25 00:00

Date Received: 11/07/25 17:30

Lab Sample ID: 310-320144-9

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		76 - 130		11/11/25 13:52	1
Toluene-d8 (Surr)	96		80 - 120		11/11/25 13:52	1
4-Bromofluorobenzene (Surr)	103		80 - 120		11/11/25 13:52	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Qualifiers

GC/MS VOA

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

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Surrogate Summary

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DBFM	TOL	BFB
		(76-130)	(80-120)	(80-120)
310-320144-1	MW-06-7R	96	94	103
310-320144-1	MW-06-7R	99	102	110
310-320144-1 MS	MW-06-7R	111	97	100
310-320144-1 MSD	MW-06-7R	103	97	101
310-320144-2	MW-90-5	100	95	103
310-320144-2	MW-90-5	101	101	106
310-320144-3	MW-90-13	101	94	101
310-320144-3	MW-90-13	102	102	109
310-320144-4	MW-03-16	97	97	103
310-320144-4	MW-03-16	99	102	107
310-320144-5	PZ-R3	97	94	101
310-320144-5	PZ-R3	101	103	106
310-320144-6	PZ-R4	96	95	102
310-320144-6	PZ-R4	100	102	110
310-320144-8	MW-D	96	95	101
310-320144-8	MW-D	101	102	107
310-320144-9	Trip Blank	97	96	103
LCS 310-472998/6	Lab Control Sample	103	97	102
LCS 310-472998/7	Lab Control Sample	97	97	102
LCS 310-473146/6	Lab Control Sample	102	97	101
LCS 310-473146/7	Lab Control Sample	96	95	102
LCS 310-473296/6	Lab Control Sample	98	104	101
LCS 310-473296/7	Lab Control Sample	103	101	109
MB 310-472998/5	Method Blank	99	96	103
MB 310-473146/5	Method Blank	97	94	103
MB 310-473296/5	Method Blank	103	102	109

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

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

Lab Sample ID: MB 310-472998/5

Matrix: Water

Analysis Batch: 472998

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/11/25 11:38	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/11/25 11:38	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/11/25 11:38	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/11/25 11:38	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/11/25 11:38	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/11/25 11:38	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/11/25 11:38	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/11/25 11:38	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/11/25 11:38	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/11/25 11:38	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/11/25 11:38	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/11/25 11:38	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/11/25 11:38	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/11/25 11:38	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/11/25 11:38	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/11/25 11:38	1
Acetone	<10.0		10.0	3.80	ug/L			11/11/25 11:38	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/11/25 11:38	1
Benzene	<0.500		0.500	0.220	ug/L			11/11/25 11:38	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/11/25 11:38	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/11/25 11:38	1
Bromoform	<5.00		5.00	2.60	ug/L			11/11/25 11:38	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/11/25 11:38	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/11/25 11:38	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/11/25 11:38	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/11/25 11:38	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/11/25 11:38	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/11/25 11:38	1
Chloroform	<3.00		3.00	1.30	ug/L			11/11/25 11:38	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/11/25 11:38	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/11/25 11:38	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/11/25 11:38	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/11/25 11:38	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/11/25 11:38	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/11/25 11:38	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/11/25 11:38	1
Styrene	<1.00		1.00	0.370	ug/L			11/11/25 11:38	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/11/25 11:38	1
Toluene	<1.00		1.00	0.430	ug/L			11/11/25 11:38	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/11/25 11:38	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/11/25 11:38	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/11/25 11:38	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/11/25 11:38	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/11/25 11:38	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/11/25 11:38	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/11/25 11:38	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/11/25 11:38	1

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QC Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

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

Lab Sample ID: MB 310-472998/5

Matrix: Water

Analysis Batch: 472998

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		76 - 130		11/11/25 11:38	1
Toluene-d8 (Surr)	96		80 - 120		11/11/25 11:38	1
4-Bromofluorobenzene (Surr)	103		80 - 120		11/11/25 11:38	1

Lab Sample ID: LCS 310-472998/6

Matrix: Water

Analysis Batch: 472998

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	21.90		ug/L		109	70 - 121
1,1,1-Trichloroethane	20.0	20.58		ug/L		103	69 - 130
1,1,2,2-Tetrachloroethane	20.0	20.24		ug/L		101	70 - 122
1,1,2-Trichloroethane	20.0	20.97		ug/L		105	75 - 121
1,1-Dichloroethane	20.0	19.94		ug/L		100	69 - 127
1,1-Dichloroethene	20.0	20.13		ug/L		101	64 - 134
1,2,3-Trichloropropane	20.0	21.55		ug/L		108	70 - 122
1,2-Dibromo-3-Chloropropane	20.0	21.01		ug/L		105	62 - 132
1,2-Dibromoethane (EDB)	20.0	21.63		ug/L		108	74 - 122
1,2-Dichlorobenzene	20.0	21.21		ug/L		106	74 - 120
1,2-Dichloroethane	20.0	20.60		ug/L		103	68 - 125
1,2-Dichloropropane	20.0	19.35		ug/L		97	72 - 128
1,4-Dichlorobenzene	20.0	20.86		ug/L		104	72 - 120
2-Butanone (MEK)	40.0	36.67		ug/L		92	60 - 134
2-Hexanone	40.0	33.85		ug/L		85	62 - 139
4-Methyl-2-pentanone (MIBK)	40.0	35.71		ug/L		89	62 - 136
Acetone	40.0	37.19		ug/L		93	59 - 136
Acrylonitrile	200	202.1		ug/L		101	50 - 150
Benzene	20.0	20.20		ug/L		101	71 - 125
Bromochloromethane	20.0	23.58		ug/L		118	69 - 131
Bromodichloromethane	20.0	20.62		ug/L		103	70 - 122
Bromoform	20.0	22.26		ug/L		111	62 - 122
Carbon disulfide	20.0	20.31		ug/L		102	58 - 137
Carbon tetrachloride	20.0	20.63		ug/L		103	63 - 136
Chlorobenzene	20.0	20.89		ug/L		104	74 - 120
Chlorodibromomethane	20.0	21.34		ug/L		107	69 - 121
Chloroform	20.0	20.87		ug/L		104	72 - 122
cis-1,2-Dichloroethene	20.0	22.07		ug/L		110	72 - 123
cis-1,3-Dichloropropene	20.0	18.58		ug/L		93	72 - 123
Dibromomethane	20.0	22.67		ug/L		113	72 - 122
Ethylbenzene	20.0	20.32		ug/L		102	75 - 120
Iodomethane	20.0	15.61		ug/L		78	18 - 150
Methylene Chloride	20.0	19.49		ug/L		97	72 - 128
Styrene	20.0	21.13		ug/L		106	74 - 122
Tetrachloroethene	20.0	22.69		ug/L		113	70 - 128
Toluene	20.0	20.73		ug/L		104	74 - 120
trans-1,2-Dichloroethene	20.0	22.13		ug/L		111	67 - 127
trans-1,3-Dichloropropene	20.0	18.84		ug/L		94	67 - 123

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QC Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

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

Lab Sample ID: LCS 310-472998/6

Matrix: Water

Analysis Batch: 472998

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,4-Dichloro-2-butene	20.0	17.03		ug/L		85	50 - 150
Trichloroethene	20.0	21.09		ug/L		105	70 - 128
Vinyl acetate	40.0	32.69		ug/L		82	50 - 150
Xylenes, Total	40.0	41.34		ug/L		103	74 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	103		76 - 130
Toluene-d8 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120

Lab Sample ID: LCS 310-472998/7

Matrix: Water

Analysis Batch: 472998

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	14.83		ug/L		74	33 - 138
Chloroethane	20.0	16.61		ug/L		83	59 - 139
Chloromethane	20.0	16.30		ug/L		82	52 - 146
Trichlorofluoromethane	20.0	18.76		ug/L		94	55 - 150
Vinyl chloride	20.0	16.37		ug/L		82	60 - 142

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	97		76 - 130
Toluene-d8 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120

Lab Sample ID: MB 310-473146/5

Matrix: Water

Analysis Batch: 473146

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/11/25 22:22	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/11/25 22:22	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/11/25 22:22	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/11/25 22:22	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/11/25 22:22	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/11/25 22:22	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/11/25 22:22	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/11/25 22:22	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/11/25 22:22	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/11/25 22:22	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/11/25 22:22	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/11/25 22:22	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/11/25 22:22	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/11/25 22:22	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/11/25 22:22	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/11/25 22:22	1

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QC Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

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

Lab Sample ID: MB 310-473146/5

Matrix: Water

Analysis Batch: 473146

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.80	ug/L			11/11/25 22:22	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/11/25 22:22	1
Benzene	<0.500		0.500	0.220	ug/L			11/11/25 22:22	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/11/25 22:22	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/11/25 22:22	1
Bromoform	<5.00		5.00	2.60	ug/L			11/11/25 22:22	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/11/25 22:22	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/11/25 22:22	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/11/25 22:22	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/11/25 22:22	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/11/25 22:22	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/11/25 22:22	1
Chloroform	<3.00		3.00	1.30	ug/L			11/11/25 22:22	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/11/25 22:22	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/11/25 22:22	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/11/25 22:22	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/11/25 22:22	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/11/25 22:22	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/11/25 22:22	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/11/25 22:22	1
Styrene	<1.00		1.00	0.370	ug/L			11/11/25 22:22	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/11/25 22:22	1
Toluene	<1.00		1.00	0.430	ug/L			11/11/25 22:22	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/11/25 22:22	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/11/25 22:22	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/11/25 22:22	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/11/25 22:22	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/11/25 22:22	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/11/25 22:22	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/11/25 22:22	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/11/25 22:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		76 - 130		11/11/25 22:22	1
Toluene-d8 (Surr)	94		80 - 120		11/11/25 22:22	1
4-Bromofluorobenzene (Surr)	103		80 - 120		11/11/25 22:22	1

Lab Sample ID: LCS 310-473146/6

Matrix: Water

Analysis Batch: 473146

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	19.58		ug/L		98	70 - 121
1,1,1-Trichloroethane	20.0	19.03		ug/L		95	69 - 130
1,1,2,2-Tetrachloroethane	20.0	18.43		ug/L		92	70 - 122
1,1,2-Trichloroethane	20.0	18.69		ug/L		93	75 - 121
1,1-Dichloroethane	20.0	18.58		ug/L		93	69 - 127

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QC Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

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

Lab Sample ID: LCS 310-473146/6

Matrix: Water

Analysis Batch: 473146

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	20.0	19.83		ug/L		99	64 - 134
1,2,3-Trichloropropane	20.0	19.65		ug/L		98	70 - 122
1,2-Dibromo-3-Chloropropane	20.0	18.18		ug/L		91	62 - 132
1,2-Dibromoethane (EDB)	20.0	19.45		ug/L		97	74 - 122
1,2-Dichlorobenzene	20.0	19.42		ug/L		97	74 - 120
1,2-Dichloroethane	20.0	19.08		ug/L		95	68 - 125
1,2-Dichloropropane	20.0	17.83		ug/L		89	72 - 128
1,4-Dichlorobenzene	20.0	19.22		ug/L		96	72 - 120
2-Butanone (MEK)	40.0	31.76		ug/L		79	60 - 134
2-Hexanone	40.0	30.66		ug/L		77	62 - 139
4-Methyl-2-pentanone (MIBK)	40.0	32.47		ug/L		81	62 - 136
Acetone	40.0	31.62		ug/L		79	59 - 136
Acrylonitrile	200	185.3		ug/L		93	50 - 150
Benzene	20.0	18.89		ug/L		94	71 - 125
Bromochloromethane	20.0	21.62		ug/L		108	69 - 131
Bromodichloromethane	20.0	18.48		ug/L		92	70 - 122
Bromoform	20.0	19.42		ug/L		97	62 - 122
Carbon disulfide	20.0	19.39		ug/L		97	58 - 137
Carbon tetrachloride	20.0	19.10		ug/L		96	63 - 136
Chlorobenzene	20.0	19.15		ug/L		96	74 - 120
Chlorodibromomethane	20.0	18.72		ug/L		94	69 - 121
Chloroform	20.0	19.15		ug/L		96	72 - 122
cis-1,2-Dichloroethene	20.0	20.51		ug/L		103	72 - 123
cis-1,3-Dichloropropene	20.0	16.80		ug/L		84	72 - 123
Dibromomethane	20.0	19.71		ug/L		99	72 - 122
Ethylbenzene	20.0	18.65		ug/L		93	75 - 120
Iodomethane	20.0	16.08		ug/L		80	18 - 150
Methylene Chloride	20.0	19.07		ug/L		95	72 - 128
Styrene	20.0	19.68		ug/L		98	74 - 122
Tetrachloroethene	20.0	20.80		ug/L		104	70 - 128
Toluene	20.0	18.86		ug/L		94	74 - 120
trans-1,2-Dichloroethene	20.0	20.60		ug/L		103	67 - 127
trans-1,3-Dichloropropene	20.0	16.94		ug/L		85	67 - 123
trans-1,4-Dichloro-2-butene	20.0	16.18		ug/L		81	50 - 150
Trichloroethene	20.0	19.23		ug/L		96	70 - 128
Vinyl acetate	40.0	29.93		ug/L		75	50 - 150
Xylenes, Total	40.0	37.75		ug/L		94	74 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	102		76 - 130
Toluene-d8 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

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

Lab Sample ID: LCS 310-473146/7

Matrix: Water

Analysis Batch: 473146

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	17.63		ug/L		88	33 - 138
Chloroethane	20.0	18.99		ug/L		95	59 - 139
Chloromethane	20.0	18.43		ug/L		92	52 - 146
Trichlorofluoromethane	20.0	20.87		ug/L		104	55 - 150
Vinyl chloride	20.0	18.87		ug/L		94	60 - 142

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	96		76 - 130
Toluene-d8 (Surr)	95		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120

Lab Sample ID: 310-320144-1 MS

Matrix: Water

Analysis Batch: 473146

Client Sample ID: MW-06-7R

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<1.00	F1	20.0	31.38	F1	ug/L		157	55 - 121
1,1,1-Trichloroethane	<1.00	F1	20.0	28.83	F1	ug/L		144	53 - 130
1,1,2,2-Tetrachloroethane	<1.00	F1	20.0	30.19	F1	ug/L		151	55 - 123
1,1,2-Trichloroethane	<1.00	F1	20.0	28.63	F1	ug/L		143	60 - 121
1,1-Dichloroethane	<1.00	F1	20.0	34.80	F1	ug/L		174	53 - 127
1,1-Dichloroethene	<2.00	F1	20.0	34.39	F1	ug/L		172	51 - 134
1,2,3-Trichloropropane	<1.00	F1	20.0	32.19	F1	ug/L		161	56 - 122
1,2-Dibromo-3-Chloropropane	<1.20	F1	20.0	35.99	F1	ug/L		180	44 - 138
1,2-Dibromoethane (EDB)	<0.340	F1	20.0	30.10	F1	ug/L		150	60 - 122
1,2-Dichlorobenzene	<1.00	F1	20.0	33.74	F1	ug/L		169	60 - 120
1,2-Dichloroethane	<1.00	F1	20.0	33.53	F1	ug/L		168	48 - 128
1,2-Dichloropropane	<1.00	F1	20.0	28.05	F1	ug/L		140	59 - 128
1,4-Dichlorobenzene	<1.00	F1	20.0	32.42	F1	ug/L		162	58 - 120
2-Butanone (MEK)	<10.0	F1	40.0	50.45		ug/L		126	46 - 134
2-Hexanone	<10.0		40.0	50.33		ug/L		126	46 - 141
4-Methyl-2-pentanone (MIBK)	<10.0	F1	40.0	54.23		ug/L		136	49 - 138
Acetone	<10.0	F1	40.0	62.83	F1	ug/L		157	39 - 141
Acrylonitrile	<10.0	F1	200	340.2	F1	ug/L		170	41 - 150
Benzene	<0.500	F1	20.0	30.46	F1	ug/L		152	48 - 125
Bromochloromethane	<5.00	F1	20.0	40.45	F1	ug/L		202	55 - 131
Bromodichloromethane	<1.00	F1	20.0	29.90	F1	ug/L		150	53 - 122
Bromoform	<5.00	F1	20.0	30.82	F1	ug/L		154	47 - 122
Carbon disulfide	<1.00	F1	20.0	34.31	F1	ug/L		172	45 - 137
Carbon tetrachloride	<2.00	F1	20.0	28.07	F1	ug/L		140	45 - 136
Chlorobenzene	<1.00	F1	20.0	31.92	F1	ug/L		160	59 - 120
Chlorodibromomethane	<5.00	F1	20.0	27.96	F1	ug/L		140	53 - 121
Chloroform	<3.00	F1	20.0	34.80	F1	ug/L		174	52 - 122
cis-1,2-Dichloroethene	<1.00	F1	20.0	37.86	F1	ug/L		189	51 - 123
cis-1,3-Dichloropropene	<5.00	F1	20.0	23.86		ug/L		119	55 - 123
Dibromomethane	<1.00	F1	20.0	36.17	F1	ug/L		181	57 - 122
Ethylbenzene	<1.00	F1	20.0	30.69	F1	ug/L		153	53 - 120

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

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

Lab Sample ID: 310-320144-1 MS

Matrix: Water

Analysis Batch: 473146

Client Sample ID: MW-06-7R

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iodomethane	<10.0	F1	20.0	32.09	F1	ug/L		160	18 - 150
Methylene Chloride	<5.00	F1	20.0	35.31	F1	ug/L		177	59 - 128
Styrene	<1.00	F1	20.0	33.81	F1	ug/L		169	50 - 125
Tetrachloroethene	<1.00	F1	20.0	31.65	F1	ug/L		158	51 - 128
Toluene	<1.00	F1	20.0	30.94	F1	ug/L		155	52 - 120
trans-1,2-Dichloroethene	<1.00	F1	20.0	37.11	F1	ug/L		186	53 - 127
trans-1,3-Dichloropropene	<5.00	F1	20.0	24.71	F1	ug/L		124	50 - 123
trans-1,4-Dichloro-2-butene	<10.0		20.0	24.97		ug/L		125	28 - 150
Trichloroethene	<1.00	F1	20.0	29.46	F1	ug/L		147	50 - 128
Vinyl acetate	<10.0		40.0	42.27		ug/L		106	31 - 150
Xylenes, Total	<3.00	F1	40.0	63.80	F1	ug/L		160	50 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	111		76 - 130
Toluene-d8 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120

Lab Sample ID: 310-320144-1 MSD

Matrix: Water

Analysis Batch: 473146

Client Sample ID: MW-06-7R

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<1.00	F1	20.0	34.04	F1	ug/L		170	55 - 121	8	20
1,1,1-Trichloroethane	<1.00	F1	20.0	30.91	F1	ug/L		155	53 - 130	7	20
1,1,2,2-Tetrachloroethane	<1.00	F1	20.0	32.31	F1	ug/L		162	55 - 123	7	20
1,1,2-Trichloroethane	<1.00	F1	20.0	32.86	F1	ug/L		164	60 - 121	14	20
1,1-Dichloroethane	<1.00	F1	20.0	33.03	F1	ug/L		165	53 - 127	5	20
1,1-Dichloroethene	<2.00	F1	20.0	31.79	F1	ug/L		159	51 - 134	8	20
1,2,3-Trichloropropane	<1.00	F1	20.0	34.19	F1	ug/L		171	56 - 122	6	21
1,2-Dibromo-3-Chloropropane	<1.20	F1	20.0	35.30	F1	ug/L		176	44 - 138	2	24
1,2-Dibromoethane (EDB)	<0.340	F1	20.0	33.44	F1	ug/L		167	60 - 122	11	20
1,2-Dichlorobenzene	<1.00	F1	20.0	35.90	F1	ug/L		180	60 - 120	6	20
1,2-Dichloroethane	<1.00	F1	20.0	33.66	F1	ug/L		168	48 - 128	0	20
1,2-Dichloropropane	<1.00	F1	20.0	29.99	F1	ug/L		150	59 - 128	7	20
1,4-Dichlorobenzene	<1.00	F1	20.0	34.01	F1	ug/L		170	58 - 120	5	20
2-Butanone (MEK)	<10.0	F1	40.0	55.61	F1	ug/L		139	46 - 134	10	23
2-Hexanone	<10.0		40.0	54.71		ug/L		137	46 - 141	8	20
4-Methyl-2-pentanone (MIBK)	<10.0	F1	40.0	58.94	F1	ug/L		147	49 - 138	8	20
Acetone	<10.0	F1	40.0	60.99	F1	ug/L		152	39 - 141	3	23
Acrylonitrile	<10.0	F1	200	331.0	F1	ug/L		165	41 - 150	3	20
Benzene	<0.500	F1	20.0	31.22	F1	ug/L		156	48 - 125	2	20
Bromochloromethane	<5.00	F1	20.0	37.14	F1	ug/L		186	55 - 131	9	21
Bromodichloromethane	<1.00	F1	20.0	32.22	F1	ug/L		161	53 - 122	7	20
Bromoform	<5.00	F1	20.0	34.52	F1	ug/L		173	47 - 122	11	20
Carbon disulfide	<1.00	F1	20.0	29.50	F1	ug/L		148	45 - 137	15	24
Carbon tetrachloride	<2.00	F1	20.0	30.60	F1	ug/L		153	45 - 136	9	20
Chlorobenzene	<1.00	F1	20.0	32.70	F1	ug/L		163	59 - 120	2	20

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

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

Lab Sample ID: 310-320144-1 MSD

Matrix: Water

Analysis Batch: 473146

Client Sample ID: MW-06-7R

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorodibromomethane	<5.00	F1	20.0	32.67	F1	ug/L		163	53 - 121	16	20
Chloroform	<3.00	F1	20.0	32.57	F1	ug/L		163	52 - 122	7	20
cis-1,2-Dichloroethene	<1.00	F1	20.0	35.23	F1	ug/L		176	51 - 123	7	20
cis-1,3-Dichloropropene	<5.00	F1	20.0	27.71	F1	ug/L		139	55 - 123	15	20
Dibromomethane	<1.00	F1	20.0	35.62	F1	ug/L		178	57 - 122	2	20
Ethylbenzene	<1.00	F1	20.0	31.83	F1	ug/L		159	53 - 120	4	20
Iodomethane	<10.0	F1	20.0	32.25	F1	ug/L		161	18 - 150	1	32
Methylene Chloride	<5.00	F1	20.0	32.50	F1	ug/L		163	59 - 128	8	20
Styrene	<1.00	F1	20.0	34.78	F1	ug/L		174	50 - 125	3	20
Tetrachloroethene	<1.00	F1	20.0	33.33	F1	ug/L		167	51 - 128	5	20
Toluene	<1.00	F1	20.0	31.45	F1	ug/L		157	52 - 120	2	20
trans-1,2-Dichloroethene	<1.00	F1	20.0	33.82	F1	ug/L		169	53 - 127	9	20
trans-1,3-Dichloropropene	<5.00	F1	20.0	28.72	F1	ug/L		144	50 - 123	15	20
trans-1,4-Dichloro-2-butene	<10.0		20.0	26.32		ug/L		132	28 - 150	5	24
Trichloroethene	<1.00	F1	20.0	30.94	F1	ug/L		155	50 - 128	5	20
Vinyl acetate	<10.0		40.0	49.06		ug/L		123	31 - 150	15	25
Xylenes, Total	<3.00	F1	40.0	65.46	F1	ug/L		164	50 - 122	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	103		76 - 130
Toluene-d8 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120

Lab Sample ID: MB 310-473296/5

Matrix: Water

Analysis Batch: 473296

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			11/12/25 13:48	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/12/25 13:48	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/12/25 13:48	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/12/25 13:48	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/12/25 13:48	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/12/25 13:48	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/12/25 13:48	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			11/12/25 13:48	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			11/12/25 13:48	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/12/25 13:48	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/12/25 13:48	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/12/25 13:48	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/12/25 13:48	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/12/25 13:48	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/12/25 13:48	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/12/25 13:48	1
Acetone	<10.0		10.0	3.80	ug/L			11/12/25 13:48	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			11/12/25 13:48	1
Benzene	<0.500		0.500	0.220	ug/L			11/12/25 13:48	1

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QC Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

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

Lab Sample ID: MB 310-473296/5

Matrix: Water

Analysis Batch: 473296

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/12/25 13:48	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/12/25 13:48	1
Bromoform	<5.00		5.00	2.60	ug/L			11/12/25 13:48	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/12/25 13:48	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/12/25 13:48	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/12/25 13:48	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/12/25 13:48	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/12/25 13:48	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/12/25 13:48	1
Chloroform	<3.00		3.00	1.30	ug/L			11/12/25 13:48	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/12/25 13:48	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/12/25 13:48	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/12/25 13:48	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/12/25 13:48	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/12/25 13:48	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/12/25 13:48	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			11/12/25 13:48	1
Styrene	<1.00		1.00	0.370	ug/L			11/12/25 13:48	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/12/25 13:48	1
Toluene	<1.00		1.00	0.430	ug/L			11/12/25 13:48	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/12/25 13:48	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/12/25 13:48	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/12/25 13:48	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/12/25 13:48	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/12/25 13:48	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/12/25 13:48	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/12/25 13:48	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/12/25 13:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		76 - 130		11/12/25 13:48	1
Toluene-d8 (Surr)	102		80 - 120		11/12/25 13:48	1
4-Bromofluorobenzene (Surr)	109		80 - 120		11/12/25 13:48	1

Lab Sample ID: LCS 310-473296/6

Matrix: Water

Analysis Batch: 473296

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	21.44		ug/L		107	70 - 121
1,1,1-Trichloroethane	20.0	19.89		ug/L		99	69 - 130
1,1,2,2-Tetrachloroethane	20.0	21.60		ug/L		108	70 - 122
1,1,2-Trichloroethane	20.0	20.60		ug/L		103	75 - 121
1,1-Dichloroethane	20.0	20.80		ug/L		104	69 - 127
1,1-Dichloroethene	20.0	22.53		ug/L		113	64 - 134
1,2,3-Trichloropropane	20.0	23.21		ug/L		116	70 - 122
1,2-Dibromo-3-Chloropropane	20.0	23.51		ug/L		118	62 - 132

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

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

Lab Sample ID: LCS 310-473296/6

Matrix: Water

Analysis Batch: 473296

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	20.0	21.48		ug/L		107	74 - 122
1,2-Dichlorobenzene	20.0	23.14		ug/L		116	74 - 120
1,2-Dichloroethane	20.0	18.98		ug/L		95	68 - 125
1,2-Dichloropropane	20.0	19.30		ug/L		97	72 - 128
1,4-Dichlorobenzene	20.0	23.07		ug/L		115	72 - 120
2-Butanone (MEK)	40.0	38.95		ug/L		97	60 - 134
2-Hexanone	40.0	39.60		ug/L		99	62 - 139
4-Methyl-2-pentanone (MIBK)	40.0	38.33		ug/L		96	62 - 136
Acetone	40.0	37.60		ug/L		94	59 - 136
Acrylonitrile	200	202.1		ug/L		101	50 - 150
Benzene	20.0	19.71		ug/L		99	71 - 125
Bromochloromethane	20.0	20.44		ug/L		102	69 - 131
Bromodichloromethane	20.0	19.50		ug/L		97	70 - 122
Bromoform	20.0	20.32		ug/L		102	62 - 122
Carbon disulfide	20.0	21.41		ug/L		107	58 - 137
Carbon tetrachloride	20.0	21.02		ug/L		105	63 - 136
Chlorobenzene	20.0	21.46		ug/L		107	74 - 120
Chlorodibromomethane	20.0	21.24		ug/L		106	69 - 121
Chloroform	20.0	19.44		ug/L		97	72 - 122
cis-1,2-Dichloroethene	20.0	20.78		ug/L		104	72 - 123
cis-1,3-Dichloropropene	20.0	19.91		ug/L		100	72 - 123
Dibromomethane	20.0	19.85		ug/L		99	72 - 122
Ethylbenzene	20.0	22.22		ug/L		111	75 - 120
Iodomethane	20.0	20.77		ug/L		104	18 - 150
Methylene Chloride	20.0	21.98		ug/L		110	72 - 128
Styrene	20.0	21.61		ug/L		108	74 - 122
Tetrachloroethene	20.0	23.17		ug/L		116	70 - 128
Toluene	20.0	21.49		ug/L		107	74 - 120
trans-1,2-Dichloroethene	20.0	21.61		ug/L		108	67 - 127
trans-1,3-Dichloropropene	20.0	17.94		ug/L		90	67 - 123
trans-1,4-Dichloro-2-butene	20.0	18.78		ug/L		94	50 - 150
Trichloroethene	20.0	19.75		ug/L		99	70 - 128
Vinyl acetate	40.0	34.87		ug/L		87	50 - 150
Xylenes, Total	40.0	43.57		ug/L		109	74 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	98		76 - 130
Toluene-d8 (Surr)	104		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120

Lab Sample ID: LCS 310-473296/7

Matrix: Water

Analysis Batch: 473296

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	26.01		ug/L		130	33 - 138
Chloroethane	20.0	21.55		ug/L		108	59 - 139

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QC Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

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

Lab Sample ID: LCS 310-473296/7

Matrix: Water

Analysis Batch: 473296

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	20.0	21.55		ug/L		108	52 - 146
Trichlorofluoromethane	20.0	22.64		ug/L		113	55 - 150
Vinyl chloride	20.0	20.58		ug/L		103	60 - 142

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	103		76 - 130
Toluene-d8 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	109		80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-472992/1-A

Matrix: Water

Analysis Batch: 473872

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 472992

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/11/25 08:30	11/17/25 15:42	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/11/25 08:30	11/17/25 15:42	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/11/25 08:30	11/17/25 15:42	1
Lead	<0.000500		0.000500	0.000330	mg/L		11/11/25 08:30	11/17/25 15:42	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/11/25 08:30	11/17/25 15:42	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/11/25 08:30	11/17/25 15:42	1

Lab Sample ID: MB 310-472992/1-A

Matrix: Water

Analysis Batch: 474049

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 472992

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/11/25 08:30	11/18/25 15:50	1
Barium	<0.00200		0.00200	0.000660	mg/L		11/11/25 08:30	11/18/25 15:50	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/11/25 08:30	11/18/25 15:50	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/11/25 08:30	11/18/25 15:50	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/11/25 08:30	11/18/25 15:50	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/11/25 08:30	11/18/25 15:50	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/11/25 08:30	11/18/25 15:50	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		11/11/25 08:30	11/18/25 15:50	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/11/25 08:30	11/18/25 15:50	1

Lab Sample ID: LCS 310-472992/2-A

Matrix: Water

Analysis Batch: 473872

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 472992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2111		mg/L		106	80 - 120
Beryllium	0.100	0.09787		mg/L		98	80 - 120
Cadmium	0.100	0.09727		mg/L		97	80 - 120
Lead	0.200	0.1807		mg/L		90	80 - 120
Silver	0.100	0.1144		mg/L		114	80 - 120

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QC Sample Results

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-472992/2-A
Matrix: Water
Analysis Batch: 473872

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 472992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.09320		mg/L		93	80 - 120

Lab Sample ID: LCS 310-472992/2-A
Matrix: Water
Analysis Batch: 474049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 472992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.1985		mg/L		99	80 - 120
Barium	0.100	0.1030		mg/L		103	80 - 120
Chromium	0.100	0.1005		mg/L		101	80 - 120
Cobalt	0.100	0.1013		mg/L		101	80 - 120
Copper	0.200	0.1911		mg/L		96	80 - 120
Nickel	0.200	0.2027		mg/L		101	80 - 120
Selenium	0.400	0.3869		mg/L		97	80 - 120
Vanadium	0.100	0.1022		mg/L		102	80 - 120
Zinc	0.200	0.1944		mg/L		97	80 - 120

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-472965/1
Matrix: Water
Analysis Batch: 472965

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.50	mg/L			11/10/25 11:29	1

Lab Sample ID: LCS 310-472965/2
Matrix: Water
Analysis Batch: 472965

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	101.0		mg/L		101	82 - 117

Lab Sample ID: MB 310-473103/1
Matrix: Water
Analysis Batch: 473103

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.50	mg/L			11/11/25 09:56	1

Lab Sample ID: LCS 310-473103/2
Matrix: Water
Analysis Batch: 473103

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	94.00		mg/L		94	82 - 117

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QC Association Summary

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

GC/MS VOA

Analysis Batch: 472998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320144-9	Trip Blank	Total/NA	Water	8260D	
MB 310-472998/5	Method Blank	Total/NA	Water	8260D	
LCS 310-472998/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-472998/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 473146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320144-1	MW-06-7R	Total/NA	Water	8260D	
310-320144-2	MW-90-5	Total/NA	Water	8260D	
310-320144-3	MW-90-13	Total/NA	Water	8260D	
310-320144-4	MW-03-16	Total/NA	Water	8260D	
310-320144-5	PZ-R3	Total/NA	Water	8260D	
310-320144-6	PZ-R4	Total/NA	Water	8260D	
310-320144-8	MW-D	Total/NA	Water	8260D	
MB 310-473146/5	Method Blank	Total/NA	Water	8260D	
LCS 310-473146/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-473146/7	Lab Control Sample	Total/NA	Water	8260D	
310-320144-1 MS	MW-06-7R	Total/NA	Water	8260D	
310-320144-1 MSD	MW-06-7R	Total/NA	Water	8260D	

Analysis Batch: 473296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320144-1	MW-06-7R	Total/NA	Water	8260D	
310-320144-2	MW-90-5	Total/NA	Water	8260D	
310-320144-3	MW-90-13	Total/NA	Water	8260D	
310-320144-4	MW-03-16	Total/NA	Water	8260D	
310-320144-5	PZ-R3	Total/NA	Water	8260D	
310-320144-6	PZ-R4	Total/NA	Water	8260D	
310-320144-8	MW-D	Total/NA	Water	8260D	
MB 310-473296/5	Method Blank	Total/NA	Water	8260D	
LCS 310-473296/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-473296/7	Lab Control Sample	Total/NA	Water	8260D	

Metals

Prep Batch: 472992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320144-1	MW-06-7R	Total/NA	Water	3005A	
310-320144-4	MW-03-16	Total/NA	Water	3005A	
310-320144-5	PZ-R3	Total/NA	Water	3005A	
310-320144-6	PZ-R4	Total/NA	Water	3005A	
310-320144-7	MW-06-6R	Total/NA	Water	3005A	
310-320144-8	MW-D	Total/NA	Water	3005A	
MB 310-472992/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-472992/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 473872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320144-1	MW-06-7R	Total/NA	Water	6020B	472992
310-320144-4	MW-03-16	Total/NA	Water	6020B	472992

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QC Association Summary

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Metals (Continued)

Analysis Batch: 473872 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320144-5	PZ-R3	Total/NA	Water	6020B	472992
310-320144-6	PZ-R4	Total/NA	Water	6020B	472992
310-320144-7	MW-06-6R	Total/NA	Water	6020B	472992
310-320144-8	MW-D	Total/NA	Water	6020B	472992
MB 310-472992/1-A	Method Blank	Total/NA	Water	6020B	472992
LCS 310-472992/2-A	Lab Control Sample	Total/NA	Water	6020B	472992

Analysis Batch: 474049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320144-1	MW-06-7R	Total/NA	Water	6020B	472992
310-320144-4	MW-03-16	Total/NA	Water	6020B	472992
310-320144-6	PZ-R4	Total/NA	Water	6020B	472992
310-320144-8	MW-D	Total/NA	Water	6020B	472992
MB 310-472992/1-A	Method Blank	Total/NA	Water	6020B	472992
LCS 310-472992/2-A	Lab Control Sample	Total/NA	Water	6020B	472992

Analysis Batch: 474502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320144-1	MW-06-7R	Total/NA	Water	6020B	472992
310-320144-4	MW-03-16	Total/NA	Water	6020B	472992

General Chemistry

Analysis Batch: 472965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320144-1	MW-06-7R	Total/NA	Water	I-3765-85	
310-320144-4	MW-03-16	Total/NA	Water	I-3765-85	
310-320144-5	PZ-R3	Total/NA	Water	I-3765-85	
310-320144-6	PZ-R4	Total/NA	Water	I-3765-85	
310-320144-8	MW-D	Total/NA	Water	I-3765-85	
MB 310-472965/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-472965/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 473103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-320144-7	MW-06-6R	Total/NA	Water	I-3765-85	
MB 310-473103/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-473103/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Lab Chronicle

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Client Sample ID: MW-06-7R

Lab Sample ID: 310-320144-1

Date Collected: 11/05/25 11:28

Matrix: Water

Date Received: 11/07/25 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	473296	FE5V	EET CF	11/12/25 17:59
Total/NA	Analysis	8260D		1	473146	FE5V	EET CF	11/12/25 03:11
Total/NA	Prep	3005A			472992	RLT9	EET CF	11/11/25 08:30
Total/NA	Analysis	6020B		1	473872	NFT2	EET CF	11/17/25 16:31
Total/NA	Prep	3005A			472992	RLT9	EET CF	11/11/25 08:30
Total/NA	Analysis	6020B		1	474049	NFT2	EET CF	11/18/25 16:41
Total/NA	Prep	3005A			472992	RLT9	EET CF	11/11/25 08:30
Total/NA	Analysis	6020B		1	474502	ZRI4	EET CF	11/21/25 15:38
Total/NA	Analysis	I-3765-85		1	472965	DGU1	EET CF	11/10/25 11:29

Client Sample ID: MW-90-5

Lab Sample ID: 310-320144-2

Date Collected: 11/06/25 15:51

Matrix: Water

Date Received: 11/07/25 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	473296	FE5V	EET CF	11/12/25 18:21
Total/NA	Analysis	8260D		1	473146	FE5V	EET CF	11/12/25 03:33

Client Sample ID: MW-90-13

Lab Sample ID: 310-320144-3

Date Collected: 11/05/25 07:58

Matrix: Water

Date Received: 11/07/25 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	473296	FE5V	EET CF	11/12/25 18:44
Total/NA	Analysis	8260D		1	473146	FE5V	EET CF	11/12/25 03:55

Client Sample ID: MW-03-16

Lab Sample ID: 310-320144-4

Date Collected: 11/05/25 08:50

Matrix: Water

Date Received: 11/07/25 17:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	473296	FE5V	EET CF	11/12/25 19:07
Total/NA	Analysis	8260D		1	473146	FE5V	EET CF	11/12/25 04:18
Total/NA	Prep	3005A			472992	RLT9	EET CF	11/11/25 08:30
Total/NA	Analysis	6020B		1	473872	NFT2	EET CF	11/17/25 16:34
Total/NA	Prep	3005A			472992	RLT9	EET CF	11/11/25 08:30
Total/NA	Analysis	6020B		1	474049	NFT2	EET CF	11/18/25 16:43
Total/NA	Prep	3005A			472992	RLT9	EET CF	11/11/25 08:30
Total/NA	Analysis	6020B		1	474502	ZRI4	EET CF	11/21/25 15:41
Total/NA	Analysis	I-3765-85		1	472965	DGU1	EET CF	11/10/25 11:29

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Lab Chronicle

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Client Sample ID: PZ-R3

Date Collected: 11/05/25 09:39

Date Received: 11/07/25 17:30

Lab Sample ID: 310-320144-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	473296	FE5V	EET CF	11/12/25 19:30
Total/NA	Analysis	8260D		1	473146	FE5V	EET CF	11/12/25 04:40
Total/NA	Prep	3005A			472992	RLT9	EET CF	11/11/25 08:30
Total/NA	Analysis	6020B		1	473872	NFT2	EET CF	11/17/25 16:41
Total/NA	Analysis	I-3765-85		1	472965	DGU1	EET CF	11/10/25 11:29

Client Sample ID: PZ-R4

Date Collected: 11/05/25 10:23

Date Received: 11/07/25 17:30

Lab Sample ID: 310-320144-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	473296	FE5V	EET CF	11/12/25 19:53
Total/NA	Analysis	8260D		1	473146	FE5V	EET CF	11/12/25 05:02
Total/NA	Prep	3005A			472992	RLT9	EET CF	11/11/25 08:30
Total/NA	Analysis	6020B		1	473872	NFT2	EET CF	11/17/25 16:44
Total/NA	Prep	3005A			472992	RLT9	EET CF	11/11/25 08:30
Total/NA	Analysis	6020B		1	474049	NFT2	EET CF	11/18/25 16:46
Total/NA	Analysis	I-3765-85		1	472965	DGU1	EET CF	11/10/25 11:29

Client Sample ID: MW-06-6R

Date Collected: 11/06/25 15:08

Date Received: 11/07/25 17:30

Lab Sample ID: 310-320144-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			472992	RLT9	EET CF	11/11/25 08:30
Total/NA	Analysis	6020B		1	473872	NFT2	EET CF	11/17/25 16:47
Total/NA	Analysis	I-3765-85		1	473103	DGU1	EET CF	11/11/25 09:56

Client Sample ID: MW-D

Date Collected: 11/05/25 09:05

Date Received: 11/07/25 17:30

Lab Sample ID: 310-320144-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	473296	FE5V	EET CF	11/12/25 20:16
Total/NA	Analysis	8260D		1	473146	FE5V	EET CF	11/12/25 05:24
Total/NA	Prep	3005A			472992	RLT9	EET CF	11/11/25 08:30
Total/NA	Analysis	6020B		1	473872	NFT2	EET CF	11/17/25 16:49
Total/NA	Prep	3005A			472992	RLT9	EET CF	11/11/25 08:30
Total/NA	Analysis	6020B		1	474049	NFT2	EET CF	11/18/25 16:51
Total/NA	Analysis	I-3765-85		1	472965	DGU1	EET CF	11/10/25 11:29

Lab Chronicle

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Client Sample ID: Trip Blank
Date Collected: 11/05/25 00:00
Date Received: 11/07/25 17:30

Lab Sample ID: 310-320144-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	472998	FE5V	EET CF	11/11/25 13:52

Laboratory References:
EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

1
2
3
4
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16

Method Summary

Client: SCS Engineers
Project/Site: Clinton County North - 2nd 2025 GW Sampling
Event

Job ID: 310-320144-1
SDG: Clinton County North

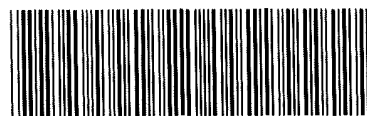
Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>ScS</u>			
City/State:	CITY <u>W. Des Moines</u>	STATE <u>IA</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>11-7-25</u>	TIME <u>1730</u>	Received By: <u>PH</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		☒ Yes ☐ No	If yes: Cooler ID:
Multiple Coolers?		☐ Yes ☒ No	If yes: Cooler # _____ of _____
Cooler Custody Seals Present?		☐ Yes ☒ No	If yes: Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?		☐ Yes ☒ No	If yes: Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?		☒ Yes ☐ No	If yes: Which VOA samples are in cooler? ↓
<u>All</u>			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>CC</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>1.8</u>		Corrected Temp (°C): <u>1.8</u>	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>		<u>CONTAINER 2</u>
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Project Manager: Sean Marczewski Email smarczewski@gmail.com Cell 712-661-9682		Site Contact: Sean Marczewski Lab Contact: Sam Miller Carrier:		COC No _____ of _____ COCs	
Analysis Turnaround Time ☐ CALENDAR DAYS ☐ WORKING DAYS Other: ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Analysis Turnaround Time ☐ CALENDAR DAYS ☐ WORKING DAYS Other: ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Sampler: For Lab Use Only: Walk-in Client. Lab Sampling	
Project Name: Clinton County North - 2 nd 2025 GW Sampling Event Site: Clinton County North P O # 27225262 26		Project Name: Clinton County North - 2 nd 2025 GW Sampling Event Site: Clinton County North P O # 27225262 26		Job / SDG No _____	
Sample Identification		Sample Identification		Sample Specific Notes	
MW-06-7R	Sample Date: 11/5/25	Sample Time: 11:28	Sample Type: (C=Comp, G=Grab)	Matrix	# of Cont.
MW-90-5	11/6/25	15:51			
MW-90-13	11/5/25	7:58			
MW-03-16	11/5/25	8:50			
PZR3	11/5/25	9:39			
PZR4	11/5/25	10:23			
MW-06-6R	11/6/25	15:08			
MW-D	11/5/25	9:05			
Trip Blank					
Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other		Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample		Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown		☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months	
Special Instructions/QC Requirements & Comments: Appendix I Metals List: Arsenic, barium, beryllium, cadmium, cobalt, copper, lead, nickel, & vanadium.		Special Instructions/QC Requirements & Comments: Appendix I Metals List: Arsenic, barium, beryllium, cadmium, cobalt, copper, lead, nickel, & vanadium.		Special Instructions/QC Requirements & Comments: Appendix I Metals List: Arsenic, barium, beryllium, cadmium, cobalt, copper, lead, nickel, & vanadium.	
Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No	Received by:	Cooler Temp (°C)	Obs'd	Therm ID No
Relinquished by: Michael Morgan	Company: SCS Engineers	Date/Time: 11/7/25 13:30			Date/Time
Relinquished by:	Company:	Date/Time:			Date/Time
Relinquished by:	Company:	Date/Time:			Date/Time

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-320144-1
SDG Number: Clinton County North
List Source: Eurofins Cedar Falls

Login Number: 320144

List Number: 1

Creator: Schaufenbuel, Erin

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Appendix B-2

Data Validation Documentation

QA/QC Completed by:	Semir Omerovic
Sample Date:	3/24/2025
Site Name:	Clinton County Sanitary Landfill-East, North MSWLF Unit
Sample Delivery Group:	N/A
Project Type:	Clinton County Sanitary Landfill - 1 st 2025 Semi-Annual Groundwater Sampling Event
Laboratory:	Eurofins TestAmerica, Cedar Falls
Lab Job ID:	310-302895-1
Lab Report Date:	4/8/2025

	OK	NO	N/A	NOTES
Sample Collection and Sample Holding				
Chain of Custody	X			
Temperature	X			
Preservation	X			
Condition	X			
Correct Constituents Analyzed	X			
Case Narrative	X			
Holding Times	X			
Analytical Sensitivity and Blanks				
Method Blank Detections	X			
Trip Blank Detections	X			
Accuracy				
ICV/CCV	X			
LCS/LCSD	X			
MS/MSD	X			
Surrogates (organics only)	X			
Precision				
QA/QC Sample RPDs	X			
Field Duplicates	X			A field duplicate sample was collected at MW-03-16. RPD for analyzed parameters was <50%.

QA/QC Completed by: Semir Omerovic
 Sample Date: 11/6/2025
 Site Name: Clinton County Sanitary Landfill-East, North MSWLF Unit
 Sample Delivery Group: N/A
 Project Type: Clinton County Sanitary Landfill - 2nd 2025 Semi-Annual Groundwater Sampling Event
 Laboratory: Eurofins TestAmerica, Cedar Falls
 Lab Job ID: 310-320144-1
 Lab Report Date: 11/25/2025

	OK	NO	N/A	NOTES
Sample Collection and Sample Holding				
Chain of Custody	X			
Temperature	X			
Preservation	X			
Condition	X			
Correct Constituents Analyzed	X			
Case Narrative	X			
Holding Times	X			
Analytical Sensitivity and Blanks				
Method Blank Detections	X			
Trip Blank Detections	X			
Accuracy				
ICV/CCV		X		Method 8260D: The continuing calibration verification (CCV) associated with batch 310-473296 recovered above the upper control limit for Bromomethane (52%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data were reported. The associated sample is:(CCV 310-473296/4).
LCS/LCSD	X			
MS/MSD	X			
Surrogates (organics only)	X			
Precision				
QA/QC Sample RPDs	X			
Field Duplicates	X			A field duplicate sample was collected at MW-03-16. RPD for analyzed parameters was <50%, with the exception of chromium.



Appendix C

Summary of Groundwater Chemistry



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Total Metals Constituents									
Antimony, mg/L (CAS NO - 7440-36-0)	3/5/2014	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A
	10/28/2014	N/A	< 0.006	< 0.006	N/A	N/A	< 0.006	< 0.006	< 0.006
	4/7/2015	N/A	< 0.001	0.000264*	N/A	N/A	N/A	< 0.001	< 0.001
	9/21/2015	N/A	0.00485	N/A	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2017	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A
	3/6/2018	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A
	8/8/2018	N/A	0.000442*	N/A	N/A	N/A	N/A	N/A	N/A
	3/19/2019	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	8/28/2019	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	8/28/2019	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	3/3/2020	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A
	5/19/2021	N/A	< 0.002	< 0.002	N/A	N/A	N/A	< 0.002	N/A
	9/14/2021	N/A	< 0.002	< 0.002	N/A	N/A	N/A	N/A	< 0.002
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002
	4/27/2022	< 0.002	< 0.002	< 0.002	N/A	N/A	N/A	N/A	< 0.002
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002
	9/13/2022	N/A	< 0.002	< 0.002	N/A	N/A	N/A	N/A	< 0.002
	3/21/2023	N/A	< 0.002	< 0.002	N/A	N/A	N/A	N/A	< 0.002
	3/21/2023	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 0.002	< 0.002	N/A	N/A	N/A	N/A	< 0.002
	5/6/2024	N/A	< 0.002	< 0.002	N/A	N/A	N/A	N/A	< 0.002
	11/6/2024	N/A	< 0.002	< 0.002	N/A	N/A	N/A	N/A	< 0.002
	11/6/2024	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 0.002	< 0.002	N/A	N/A	N/A	N/A	< 0.002
	3/24/2025	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 0.002	< 0.002	N/A	N/A	N/A	N/A	< 0.002
	11/5/2025	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
Arsenic, mg/L (CAS NO - 7440-38-2)	3/5/2014	N/A	0.00301	N/A	N/A	N/A	N/A	N/A	N/A
	10/28/2014	N/A	0.00329	0.157	N/A	N/A	0.00485	0.0246	0.00836
	4/7/2015	N/A	0.00101*	0.0926	N/A	N/A	N/A	0.00539	0.00396*
	9/21/2015	N/A	0.0152	N/A	N/A	N/A	N/A	N/A	N/A
	3/29/2016	N/A	N/A	0.129	N/A	N/A	N/A	N/A	0.0188
	7/13/2016	N/A	0.00205	0.123	N/A	N/A	N/A	N/A	0.0213
	4/4/2017	N/A	N/A	0.116	N/A	N/A	N/A	N/A	0.0136
	9/19/2017	N/A	0.000662*	0.135	N/A	N/A	N/A	N/A	0.0278
	3/6/2018	N/A	0.000593*	0.124	N/A	N/A	N/A	N/A	0.0168
	8/8/2018	N/A	0.0157	0.0882	N/A	N/A	N/A	N/A	0.0265
	3/19/2019	< 0.002	0.00151*	0.116	N/A	N/A	N/A	N/A	0.00329
	8/28/2019	< 0.002	0.00159*	0.138	N/A	N/A	N/A	0.0259	0.00199*
	8/28/2019	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.002	0.00201	0.123	N/A	N/A	N/A	0.0277	0.021
	3/3/2020	N/A	N/A	0.122	N/A	N/A	N/A	N/A	N/A
	9/23/2020	< 0.002	0.00412	0.136	N/A	N/A	N/A	0.0309	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	0.0156	N/A
	5/19/2021	< 0.002	0.00725	0.115	N/A	N/A	N/A	0.0179	N/A
	9/14/2021	< 0.002	0.00439	0.14	N/A	N/A	N/A	0.0518	0.0271
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0271
	4/27/2022	< 0.002	0.00278	0.127	N/A	N/A	N/A	N/A	0.00772
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00921
	9/13/2022	< 0.002	0.00458	0.141	N/A	N/A	N/A	0.00835	0.0154
	3/21/2023	0.000838*	0.00246	0.139	N/A	N/A	N/A	0.00527	0.0216
	3/21/2023	N/A	N/A	0.133	N/A	N/A	N/A	N/A	N/A
	8/16/2023	< 0.002	0.00715	0.13	N/A	N/A	N/A	0.0264	0.0365
	5/6/2024	< 0.002	0.00137*	0.136	N/A	N/A	N/A	N/A	0.02
	11/6/2024	< 0.002	0.002	0.159	N/A	N/A	N/A	0.0288	0.017
	11/6/2024	N/A	N/A	0.149	N/A	N/A	N/A	N/A	N/A
	3/24/2025	0.00104*	0.00242	0.123	N/A	N/A	N/A	0.103	0.0147
	3/24/2025	N/A	N/A	0.125	N/A	N/A	N/A	N/A	N/A
	11/5/2025	0.00078*	0.0026	0.149	N/A	N/A	N/A	0.0473	0.023
	11/5/2025	N/A	N/A	0.155	N/A	N/A	N/A	N/A	N/A
Barium, mg/L (CAS NO - 7440-39-3)	3/5/2014	N/A	0.544	N/A	N/A	N/A	N/A	N/A	N/A
	10/28/2014	N/A	0.676	0.536	N/A	N/A	1.05	0.698	1.6
	4/7/2015	N/A	0.135	0.487	N/A	N/A	N/A	0.382	0.477
	9/21/2015	N/A	0.657	N/A	N/A	N/A	N/A	N/A	N/A
	3/29/2016	N/A	N/A	0.725	N/A	N/A	N/A	N/A	0.516
	7/13/2016	N/A	0.135	0.625	N/A	N/A	N/A	N/A	0.418
	4/4/2017	N/A	N/A	0.576	N/A	N/A	N/A	N/A	0.392
	9/19/2017	N/A	0.405	0.642	N/A	N/A	N/A	N/A	0.429
	3/6/2018	N/A	0.38	0.6	N/A	N/A	N/A	N/A	0.435
	8/8/2018	N/A	0.517	0.374	N/A	N/A	N/A	N/A	0.335
	3/19/2019	0.456	0.131	0.517	N/A	N/A	N/A	N/A	0.261
	8/28/2019	0.414	0.12	0.426	N/A	N/A	N/A	N/A	0.187
	8/28/2019	0.414	N/A	N/A	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Total Metals Constituents									
Barium, mg/L (CAS NO - 7440-39-3)	3/3/2020	0.443	0.127	0.496	N/A	N/A	N/A	N/A	0.212
	3/3/2020	N/A	N/A	0.498	N/A	N/A	N/A	N/A	N/A
	9/23/2020	0.407	0.171	0.414	N/A	N/A	N/A	N/A	N/A
	5/19/2021	0.404	0.363	0.468	N/A	N/A	N/A	0.407	N/A
	9/14/2021	0.398	0.161	0.425	N/A	N/A	N/A	N/A	0.261
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.26
	4/27/2022	0.447	0.138	0.516	N/A	N/A	N/A	N/A	0.153
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.154
	9/13/2022	0.429	0.168	0.444	N/A	N/A	N/A	N/A	0.27
	3/21/2023	0.435	0.111	0.491	N/A	N/A	N/A	N/A	0.327
	3/21/2023	N/A	N/A	0.473	N/A	N/A	N/A	N/A	N/A
	8/16/2023	0.414	0.206	0.454	N/A	N/A	N/A	N/A	0.43
	5/6/2024	0.392	0.104	0.456	N/A	N/A	N/A	N/A	0.277
	11/6/2024	0.423	0.116	0.447	N/A	N/A	N/A	N/A	0.312
	11/6/2024	N/A	N/A	0.434	N/A	N/A	N/A	N/A	N/A
	3/24/2025	0.367	0.116	0.395	N/A	N/A	N/A	N/A	0.365
	3/24/2025	N/A	N/A	0.386	N/A	N/A	N/A	N/A	N/A
	11/5/2025	0.397	0.103	0.39	N/A	N/A	N/A	N/A	0.34
	11/5/2025	N/A	N/A	0.373	N/A	N/A	N/A	N/A	N/A
Beryllium, mg/L (CAS NO - 7440-41-7)	3/5/2014	N/A	0.00234	N/A	N/A	N/A	N/A	N/A	N/A
	10/28/2014	N/A	0.00264	0.000337*	N/A	N/A	0.00377	0.00076*	0.00375
	4/7/2015	N/A	< 0.001	< 0.001	N/A	N/A	N/A	0.000094*	0.00206*
	9/21/2015	N/A	0.00615	N/A	N/A	N/A	N/A	N/A	N/A
	3/29/2016	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	7/13/2016	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	4/4/2017	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	9/19/2017	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	3/6/2018	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	8/8/2018	N/A	0.00178	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	3/19/2019	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	8/28/2019	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	8/28/2019	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	3/3/2020	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	9/23/2020	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A
	5/19/2021	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	< 0.001	N/A
	9/14/2021	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001
	4/27/2022	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001
	9/13/2022	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	3/21/2023	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	3/21/2023	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	8/16/2023	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	5/6/2024	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	11/6/2024	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	11/6/2024	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/24/2025	< 0.001	< 0.001	< 0.004	N/A	N/A	N/A	N/A	< 0.001
	3/24/2025	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	11/5/2025	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	11/5/2025	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
Cadmium, mg/L (CAS NO - 7440-43-9)	3/5/2014	N/A	0.000836	N/A	N/A	N/A	N/A	N/A	N/A
	10/28/2014	N/A	0.0029	0.000766	N/A	N/A	0.00711	0.00129	0.00353
	4/7/2015	N/A	0.000195*	0.000444*	N/A	N/A	N/A	0.00039*	0.0012
	9/21/2015	N/A	0.00647	N/A	N/A	N/A	N/A	N/A	N/A
	3/29/2016	N/A	N/A	0.000136*	N/A	N/A	N/A	N/A	0.0002*
	7/13/2016	N/A	< 0.0005	0.000093*	N/A	N/A	N/A	N/A	0.000065*
	4/4/2017	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	< 0.0005
	9/19/2017	N/A	0.000111*	0.00031*	N/A	N/A	N/A	N/A	0.000135*
	3/6/2018	N/A	< 0.0005	0.000197*	N/A	N/A	N/A	N/A	< 0.0005
	8/8/2018	N/A	0.00101	< 0.0005	N/A	N/A	N/A	N/A	< 0.0005
	3/19/2019	< 0.0005	< 0.0005	< 0.0005	N/A	N/A	N/A	N/A	0.000101*
	8/28/2019	< 0.0001	< 0.0001	< 0.0001	N/A	N/A	N/A	N/A	< 0.0001
	8/28/2019	< 0.0001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.0001	< 0.0001	< 0.0001	N/A	N/A	N/A	N/A	0.000039*
	3/3/2020	N/A	N/A	< 0.0001	N/A	N/A	N/A	N/A	N/A
	9/23/2020	0.000166	< 0.0001	< 0.0001	N/A	N/A	N/A	N/A	N/A
	5/19/2021	< 0.0001	< 0.0001	< 0.0001	N/A	N/A	N/A	0.000123	N/A
	9/14/2021	< 0.0001	< 0.0001	< 0.0001	N/A	N/A	N/A	N/A	< 0.0001
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0001
	4/27/2022	< 0.0001	< 0.0001	< 0.0001	N/A	N/A	N/A	N/A	0.000064*
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0001
	9/13/2022	< 0.0001	< 0.0001	< 0.0001	N/A	N/A	N/A	N/A	< 0.0001
	3/21/2023	< 0.0001	0.000137	0.00011	N/A	N/A	N/A	N/A	< 0.0001
	3/21/2023	N/A	N/A	0.000077*	N/A	N/A	N/A	N/A	N/A
	8/16/2023	< 0.0002	< 0.0002	0.000103*	N/A	N/A	N/A	N/A	< 0.0002
	5/6/2024	< 0.0002	< 0.0002	< 0.0002	N/A	N/A	N/A	N/A	< 0.0002



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Total Metals Constituents									
Cadmium, mg/L (CAS NO - 7440-43-9)	11/6/2024	< 0.0002	< 0.0002	< 0.0002	N/A	N/A	N/A	N/A	< 0.0002
	11/6/2024	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A
	3/24/2025	< 0.0002	< 0.0002	< 0.0002	N/A	N/A	N/A	N/A	< 0.0002
	3/24/2025	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A
	11/5/2025	< 0.0002	< 0.0002	< 0.0002	N/A	N/A	N/A	N/A	< 0.0002
	11/5/2025	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A
Chromium, mg/L (CAS NO - 7440-47-3)	3/5/2014	N/A	0.00989*	N/A	N/A	N/A	N/A	N/A	N/A
	10/28/2014	N/A	0.00657*	< 0.02	N/A	N/A	< 0.02	< 0.02	< 0.02
	4/7/2015	N/A	< 0.005	< 0.005	N/A	N/A	N/A	< 0.005	0.00692*
	9/21/2015	N/A	0.0162	N/A	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2017	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	3/6/2018	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	8/8/2018	N/A	0.0468	N/A	N/A	N/A	N/A	N/A	N/A
	3/19/2019	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	8/28/2019	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	8/28/2019	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	3/3/2020	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 0.005	0.00177*	N/A	N/A	N/A	N/A	N/A
	5/19/2021	N/A	< 0.005	< 0.005	N/A	N/A	N/A	0.00147*	N/A
	9/14/2021	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005
	4/27/2022	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005
	9/13/2022	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	3/21/2023	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	3/21/2023	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 0.005	0.00112*	N/A	N/A	N/A	N/A	< 0.005
	5/6/2024	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	11/6/2024	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	11/6/2024	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	3/24/2025	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	0.00367*	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	11/5/2025	N/A	N/A	0.0143	N/A	N/A	N/A	N/A	N/A
Cobalt, mg/L (CAS NO - 7440-48-4)	3/5/2014	N/A	0.0123	N/A	N/A	N/A	N/A	N/A	N/A
	10/28/2014	N/A	0.029	0.00975	N/A	N/A	0.0638	0.018	0.0318
	4/7/2015	N/A	0.000393*	0.00924	N/A	N/A	N/A	0.00868	0.011
	9/21/2015	N/A	0.0216	N/A	N/A	N/A	N/A	N/A	N/A
	3/29/2016	N/A	N/A	0.00963	N/A	N/A	N/A	N/A	0.00853
	7/13/2016	N/A	0.000078	0.0107	N/A	N/A	N/A	N/A	0.00798
	4/4/2017	N/A	N/A	0.0098	N/A	N/A	N/A	N/A	0.0079
	9/19/2017	N/A	0.000377*	0.0109	N/A	N/A	N/A	N/A	0.00831
	3/6/2018	N/A	0.000098*	0.0089	N/A	N/A	N/A	N/A	0.00824
	8/8/2018	N/A	0.0233	0.00832	N/A	N/A	N/A	N/A	0.00714
	3/19/2019	0.000124*	< 0.0005	0.00901	N/A	N/A	N/A	N/A	0.00395
	8/28/2019	< 0.0005	< 0.0005	0.00677	N/A	N/A	N/A	N/A	0.00381
	8/28/2019	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.0005	< 0.0005	0.00715	N/A	N/A	N/A	N/A	0.00475
	3/3/2020	N/A	N/A	0.00724	N/A	N/A	N/A	N/A	N/A
	9/23/2020	0.000402*	< 0.0005	0.00624	N/A	N/A	N/A	N/A	N/A
	5/19/2021	0.000152*	< 0.0005	0.00715	N/A	N/A	N/A	0.00515	N/A
	9/14/2021	< 0.0005	< 0.0005	0.00687	N/A	N/A	N/A	N/A	0.00547
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00551
	4/27/2022	0.000313*	< 0.0005	0.00828	N/A	N/A	N/A	N/A	0.00749
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00737
	9/13/2022	< 0.0005	< 0.0005	0.00681	N/A	N/A	N/A	N/A	0.00373
	3/21/2023	< 0.0005	< 0.0005	0.00673	N/A	N/A	N/A	N/A	0.00551
	3/21/2023	N/A	N/A	0.00636	N/A	N/A	N/A	N/A	N/A
	8/16/2023	< 0.0005	< 0.0005	0.00726	N/A	N/A	N/A	N/A	0.0042
	5/6/2024	< 0.0005	< 0.0005	0.00621	N/A	N/A	N/A	N/A	0.00403
	11/6/2024	< 0.0005	< 0.0005	0.00706	N/A	N/A	N/A	N/A	0.00353
	11/6/2024	N/A	N/A	0.00716	N/A	N/A	N/A	N/A	N/A
	3/24/2025	0.000607	< 0.0005	0.00621	N/A	N/A	N/A	N/A	0.00249
	3/24/2025	N/A	N/A	0.00626	N/A	N/A	N/A	N/A	N/A
	11/5/2025	0.000282*	< 0.0005	0.00584	N/A	N/A	N/A	N/A	0.00239
	11/5/2025	N/A	N/A	0.00669	N/A	N/A	N/A	N/A	N/A
Copper, mg/L (CAS NO - 7440-50-8)	3/5/2014	N/A	0.00453*	N/A	N/A	N/A	N/A	N/A	N/A
	10/28/2014	N/A	0.0158*	0.00381*	N/A	N/A	0.0182*	0.0335	0.0293
	4/7/2015	N/A	0.000656*	0.00195*	N/A	N/A	N/A	0.00668	0.0368
	9/21/2015	N/A	0.021	N/A	N/A	N/A	N/A	N/A	N/A
	3/29/2016	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	0.00277*
	7/13/2016	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	4/4/2017	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	9/19/2017	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	3/6/2018	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Total Metals Constituents Copper, mg/L (CAS NO - 7440-50-8)	8/8/2018	N/A	0.052	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	3/19/2019	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	8/28/2019	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	8/28/2019	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	3/3/2020	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/23/2020	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	N/A
	5/19/2021	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	0.00302*	N/A
	9/14/2021	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005
	4/27/2022	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005
	9/13/2022	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	3/21/2023	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	3/21/2023	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	8/16/2023	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	0.00186*
	5/6/2024	< 0.005	< 0.005	0.00242*	N/A	N/A	N/A	N/A	0.00231*
	11/6/2024	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	11/6/2024	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/24/2025	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	3/24/2025	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	11/5/2025	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	11/5/2025	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
Lead, mg/L (CAS NO - 7439-92-1)	3/5/2014	N/A	0.00976	N/A	N/A	N/A	N/A	N/A	N/A
	10/28/2014	N/A	0.00505	0.00668	N/A	N/A	0.0116	0.016	0.00765
	4/7/2015	N/A	0.000641	0.00144	N/A	N/A	N/A	0.00265	0.0338
	9/21/2015	N/A	0.0106	N/A	N/A	N/A	N/A	N/A	N/A
	3/29/2016	N/A	N/A	0.00053	N/A	N/A	N/A	N/A	0.00147
	7/13/2016	N/A	< 0.0005	< 0.0005	N/A	N/A	N/A	N/A	< 0.0005
	4/4/2017	N/A	N/A	0.000345*	N/A	N/A	N/A	N/A	< 0.0005
	9/19/2017	N/A	< 0.0005	0.00196	N/A	N/A	N/A	N/A	0.0266
	3/6/2018	N/A	0.0021	0.000893	N/A	N/A	N/A	N/A	< 0.0005
	8/8/2018	N/A	0.031	< 0.0005	N/A	N/A	N/A	N/A	< 0.0005
	3/19/2019	< 0.0005	< 0.0005	< 0.0005	N/A	N/A	N/A	N/A	< 0.0005
	8/28/2019	< 0.0005	< 0.0005	< 0.0005	N/A	N/A	N/A	N/A	< 0.0005
	8/28/2019	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.0005	< 0.0005	< 0.0005	N/A	N/A	N/A	N/A	< 0.0005
	3/3/2020	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	9/23/2020	0.000474*	0.000163*	< 0.0005	N/A	N/A	N/A	N/A	N/A
	5/19/2021	0.000281*	0.000268*	< 0.0005	N/A	N/A	N/A	0.0043	N/A
	9/14/2021	< 0.0005	< 0.0005	< 0.0005	N/A	N/A	N/A	N/A	< 0.0005
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005
	4/27/2022	< 0.0005	< 0.0005	< 0.0005	N/A	N/A	N/A	N/A	< 0.0005
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005
	9/13/2022	< 0.0005	< 0.0005	< 0.0005	N/A	N/A	N/A	N/A	< 0.0005
	3/21/2023	< 0.0005	0.000307*	0.000529	N/A	N/A	N/A	N/A	0.000418*
	3/21/2023	N/A	N/A	0.000475*	N/A	N/A	N/A	N/A	N/A
	8/16/2023	< 0.0005	< 0.0005	0.000353*	N/A	N/A	N/A	N/A	0.00171
	5/6/2024	< 0.0005	< 0.0005	< 0.0005	N/A	N/A	N/A	N/A	< 0.0005
	11/6/2024	< 0.0005	< 0.0005	< 0.0005	N/A	N/A	N/A	N/A	< 0.0005
	11/6/2024	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	3/24/2025	0.000464*	< 0.0005	< 0.0005	N/A	N/A	N/A	N/A	0.000423*
	3/24/2025	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	11/5/2025	< 0.0005	< 0.0005	< 0.0005	N/A	N/A	N/A	N/A	< 0.0005
	11/5/2025	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
Nickel, mg/L (CAS NO - 7440-02-0)	3/5/2014	N/A	0.0206*	N/A	N/A	N/A	N/A	N/A	N/A
	10/28/2014	N/A	0.0591	0.0563	N/A	N/A	0.103	0.0428*	0.0538
	4/7/2015	N/A	0.000956*	0.0487	N/A	N/A	N/A	0.0252	0.031
	9/21/2015	N/A	0.124	N/A	N/A	N/A	N/A	N/A	N/A
	3/29/2016	N/A	N/A	0.048	N/A	N/A	N/A	N/A	0.0229
	7/13/2016	N/A	< 0.005	0.054	N/A	N/A	N/A	N/A	0.0245
	4/4/2017	N/A	N/A	0.0513	N/A	N/A	N/A	N/A	0.0208
	9/19/2017	N/A	0.00268*	0.0482	N/A	N/A	N/A	N/A	0.0206
	3/6/2018	N/A	< 0.005	0.0455	N/A	N/A	N/A	N/A	0.019
	8/8/2018	N/A	0.0509	0.0507	N/A	N/A	N/A	N/A	0.0194
	3/19/2019	< 0.005	< 0.005	0.0524	N/A	N/A	N/A	N/A	0.016
	8/28/2019	< 0.005	< 0.005	0.0457	N/A	N/A	N/A	N/A	0.0145
	8/28/2019	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.005	< 0.005	0.0415	N/A	N/A	N/A	N/A	0.0159
	3/3/2020	N/A	N/A	0.0419	N/A	N/A	N/A	N/A	N/A
	9/23/2020	< 0.005	< 0.005	0.0404	N/A	N/A	N/A	N/A	N/A
	5/19/2021	< 0.005	< 0.005	0.0442	N/A	N/A	N/A	0.0262	N/A
	9/14/2021	< 0.005	< 0.005	0.0431	N/A	N/A	N/A	N/A	0.0173
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0174
	4/27/2022	< 0.005	< 0.005	0.0491	N/A	N/A	N/A	N/A	0.0174
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0174
	9/13/2022	< 0.005	< 0.005	0.0442	N/A	N/A	N/A	N/A	0.0104



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Total Metals Constituents									
Nickel, mg/L (CAS NO - 7440-02-0)	3/21/2023	< 0.005	< 0.005	0.0513	N/A	N/A	N/A	N/A	0.0166
	3/21/2023	N/A	N/A	0.0493	N/A	N/A	N/A	N/A	N/A
	8/16/2023	< 0.005	< 0.005	0.0485	N/A	N/A	N/A	N/A	0.0241
	5/6/2024	< 0.005	< 0.005	0.0493	N/A	N/A	N/A	N/A	0.0136
	11/6/2024	< 0.005	< 0.005	0.0453	N/A	N/A	N/A	N/A	0.0148
	11/6/2024	N/A	N/A	0.0454	N/A	N/A	N/A	N/A	N/A
	3/24/2025	< 0.005	< 0.005	0.0408	N/A	N/A	N/A	N/A	0.0126
	3/24/2025	N/A	N/A	0.0417	N/A	N/A	N/A	N/A	N/A
	11/5/2025	< 0.005	< 0.005	0.0368	N/A	N/A	N/A	N/A	0.0141
	11/5/2025	N/A	N/A	0.046	N/A	N/A	N/A	N/A	N/A
Selenium, mg/L (CAS NO - 7782-49-2)	3/5/2014	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	10/28/2014	N/A	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005
	4/7/2015	N/A	< 0.005	< 0.005	N/A	N/A	N/A	< 0.005	< 0.015
	9/21/2015	N/A	0.0102	N/A	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2017	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	3/6/2018	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	8/8/2018	N/A	0.00198*	N/A	N/A	N/A	N/A	N/A	N/A
	3/19/2019	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	8/28/2019	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	8/28/2019	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	3/3/2020	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	N/A
	5/19/2021	N/A	< 0.005	< 0.005	N/A	N/A	N/A	< 0.005	N/A
	9/14/2021	N/A	0.0015*	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005
	4/27/2022	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005
	9/13/2022	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	3/21/2023	N/A	0.00161*	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	3/21/2023	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	5/6/2024	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	11/6/2024	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	11/6/2024	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	3/24/2025	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	11/5/2025	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
Silver, mg/L (CAS NO - 7440-22-4)	3/5/2014	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A
	10/28/2014	N/A	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	< 0.02
	4/7/2015	N/A	< 0.001	0.000068*	N/A	N/A	N/A	0.00007*	0.000045*
	9/21/2015	N/A	0.00429	N/A	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2017	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A
	3/6/2018	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A
	8/8/2018	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A
	3/19/2019	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	8/28/2019	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	8/28/2019	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	3/3/2020	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A
	5/19/2021	N/A	< 0.001	< 0.001	N/A	N/A	N/A	< 0.001	N/A
	9/14/2021	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001
	4/27/2022	< 0.001	0.000809*	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001
	9/13/2022	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	3/21/2023	N/A	0.00138	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	3/21/2023	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	5/6/2024	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	11/6/2024	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	11/6/2024	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	3/24/2025	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	11/5/2025	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
Thallium, mg/L (CAS NO - 7440-28-0)	3/5/2014	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A
	10/28/2014	N/A	< 0.002	< 0.002	N/A	N/A	< 0.002	< 0.002	< 0.002
	4/7/2015	N/A	< 0.001	0.00004*	N/A	N/A	N/A	< 0.001	0.000065*
	9/21/2015	N/A	0.00449	N/A	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2017	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A
	3/6/2018	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Total Metals Constituents									
Thallium, mg/L (CAS NO - 7440-28-0)	8/8/2018	N/A	0.000615*	N/A	N/A	N/A	N/A	N/A	N/A
	3/19/2019	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	8/28/2019	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	8/28/2019	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	3/3/2020	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A
	5/19/2021	N/A	< 0.001	< 0.001	N/A	N/A	N/A	< 0.001	N/A
	9/14/2021	N/A	0.000853*	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001
	4/27/2022	< 0.001	0.000265*	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001
	9/13/2022	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	3/21/2023	N/A	0.000895*	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	3/21/2023	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	0.00256
	5/6/2024	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	11/6/2024	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	11/6/2024	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	3/24/2025	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	< 0.001
	11/5/2025	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
Vanadium, mg/L (CAS NO - 7440-62-2)	3/5/2014	N/A	0.037*	N/A	N/A	N/A	N/A	N/A	N/A
	10/28/2014	N/A	0.044*	0.00949*	N/A	N/A	0.0747	0.0171*	0.0364*
	4/7/2015	N/A	0.00145*	0.00167*	N/A	N/A	N/A	0.00223*	0.0318
	9/21/2015	N/A	0.0226	N/A	N/A	N/A	N/A	N/A	N/A
	3/29/2016	N/A	N/A	0.00118*	N/A	N/A	N/A	N/A	0.00173*
	7/13/2016	N/A	< 0.005	0.000756*	N/A	N/A	N/A	N/A	0.000677*
	4/4/2017	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	9/19/2017	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	3/6/2018	N/A	< 0.005	0.00158*	N/A	N/A	N/A	N/A	< 0.005
	8/8/2018	N/A	0.0724	0.000579*	N/A	N/A	N/A	N/A	< 0.005
	3/19/2019	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	8/28/2019	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	8/28/2019	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	3/3/2020	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	9/23/2020	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	N/A
	5/19/2021	< 0.005	0.0019*	< 0.005	N/A	N/A	N/A	0.00445*	N/A
	9/14/2021	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005
	4/27/2022	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005
	9/13/2022	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	3/21/2023	< 0.005	< 0.005	0.00117*	N/A	N/A	N/A	N/A	0.00163*
	3/21/2023	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	8/16/2023	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	0.00237*
	5/6/2024	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	11/6/2024	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	11/6/2024	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/24/2025	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	3/24/2025	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	11/5/2025	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	< 0.005
	11/5/2025	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
Zinc, mg/L (CAS NO - 7440-66-6)	3/5/2014	N/A	0.0246	N/A	N/A	N/A	N/A	N/A	N/A
	10/28/2014	N/A	0.116	< 0.02	N/A	N/A	0.0342	< 0.02	0.0456
	4/7/2015	N/A	< 0.01	< 0.01	N/A	N/A	N/A	0.00778*	0.0647
	9/21/2015	N/A	0.0304	N/A	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	0.00542	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2017	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A
	3/6/2018	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A
	8/8/2018	N/A	0.116	N/A	N/A	N/A	N/A	N/A	N/A
	3/19/2019	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	0.0288
	8/28/2019	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	N/A	< 0.02
	8/28/2019	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/3/2020	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	N/A	< 0.02
	3/3/2020	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	N/A
	5/19/2021	N/A	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02	N/A
	9/14/2021	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	< 0.02
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02
	4/27/2022	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	N/A	< 0.02
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02
	9/13/2022	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	< 0.02
	3/21/2023	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	< 0.02
	3/21/2023	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Total Metals Constituents									
Zinc, mg/L (CAS NO - 7440-66-6)	8/16/2023	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	< 0.02
	5/6/2024	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	< 0.02
	11/6/2024	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	< 0.02
	11/6/2024	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	< 0.02
	3/24/2025	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	< 0.02
Total Suspended Solids, mg/L (CAS NO - TSS)	11/5/2025	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	3/5/2014	N/A	1850	N/A	N/A	N/A	N/A	N/A	N/A
	10/28/2014	N/A	2290	N/A	N/A	N/A	N/A	N/A	N/A
	4/7/2015	N/A	105	120	N/A	N/A	N/A	166	3600
	9/21/2015	N/A	40	137	N/A	N/A	N/A	1390	157
	3/29/2016	4.62	N/A	186	5	57	21.1	14100	280
	7/13/2016	44.6	18.9	114	10	32	27.9	5840	75
	4/4/2017	10.8	N/A	73.4	3.87	29.3	296	445	44.9
	9/19/2017	25.1	15.3	91.6	4.13	32.9	170	171	80.6
	3/6/2018	9.33	3.4	124	11.6	38.8	4	569	71
	8/8/2018	588	2370	121	5	38.5	17.7	194	73
	3/19/2019	4.88	13.4	109	3	42.8	18.4	N/A	4.88
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	656	N/A
	8/28/2019	2.5	14	104	3.5	38	2.5	1710	3.75
	3/3/2020	2.25	10	98	N/A	N/A	N/A	1130	74
	3/3/2020	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A
	9/23/2020	15	25.5	96	N/A	N/A	N/A	1060	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	794	N/A
	5/19/2021	5.25	104	105	N/A	N/A	N/A	169	71
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	256	N/A
	9/14/2021	< 5	22.7	88.5	N/A	N/A	N/A	160	72
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	67.7
	4/27/2022	17	8.5	105	N/A	N/A	N/A	N/A	56
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	53
	9/13/2022	1.75	20.5	92	N/A	N/A	N/A	31	45
	3/21/2023	1.5*	9.87	128	N/A	N/A	N/A	59.7	129
	3/21/2023	N/A	N/A	154	N/A	N/A	N/A	N/A	N/A
	8/16/2023	< 1.88	37.5	116	N/A	N/A	N/A	230	114
	5/6/2024	2	7.33	92	N/A	N/A	N/A	N/A	81
	11/6/2024	14.3	7.6	33.5	N/A	N/A	N/A	229	50
	11/6/2024	N/A	N/A	98	N/A	N/A	N/A	N/A	N/A
	3/24/2025	20.3	18.4	103	N/A	N/A	N/A	180	110
	3/24/2025	N/A	N/A	113	N/A	N/A	N/A	N/A	N/A
	11/5/2025	21	10.7	95	N/A	N/A	N/A	157	88
	11/5/2025	N/A	N/A	92	N/A	N/A	N/A	N/A	N/A

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.
Denotes Confirmed Outlier. Statistically Excluded.

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Appendix I VOC Constituents 1,1,1,2-Tetrachloroethane, ug/L (CAS NO - 630-20-6)	3/5/2014	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/28/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/7/2015	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/21/2015	N/A	< 1	< 10	< 1	< 10	< 1	N/A	N/A
	3/29/2016	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	7/13/2016	N/A	< 1	< 1	N/A	N/A	N/A	< 1	< 1
	4/4/2017	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/6/2018	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	8/8/2018	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	< 1	< 10	< 1	< 1	< 1	N/A	< 1
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2019	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/19/2021	N/A	< 1	< 10	< 1	< 10	< 1	< 1	< 10
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	9/14/2021	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	4/27/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	9/13/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	3/21/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/21/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	8/16/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/6/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	11/6/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/6/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 1	< 1	N/A	< 1	N/A	< 1	< 1
	3/24/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/5/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
1,1,1-Trichloroethane, ug/L (CAS NO - 71-55-6)	3/5/2014	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/28/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/7/2015	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/21/2015	N/A	< 1	< 10	< 1	< 10	< 1	N/A	N/A
	3/29/2016	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	7/13/2016	N/A	< 1	< 1	N/A	N/A	N/A	< 1	< 1
	4/4/2017	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/6/2018	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	8/8/2018	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	< 1	< 10	< 1	< 1	< 1	N/A	< 1
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2019	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/19/2021	N/A	< 1	< 10	< 1	< 10	< 1	< 1	< 10
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	9/14/2021	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	4/27/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	9/13/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	3/21/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/21/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	8/16/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/6/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	11/6/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/6/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 1	< 1	N/A	< 1	N/A	< 1	< 1
	3/24/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/5/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Appendix I VOC Constituents									
1,1,2,2-Tetrachloroethane, ug/L (CAS NO - 79-34-5)	3/5/2014	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/28/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/7/2015	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/21/2015	N/A	< 1	< 10	< 1	< 10	< 1	N/A	N/A
	3/29/2016	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	7/13/2016	N/A	< 1	< 1	N/A	N/A	N/A	< 1	< 1
	4/4/2017	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/6/2018	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	8/8/2018	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	< 1	< 10	< 1	< 1	< 1	N/A	< 1
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2019	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/19/2021	N/A	< 1	< 10	< 1	< 10	< 1	< 1	< 10
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	9/14/2021	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	4/27/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	9/13/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	3/21/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/21/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	8/16/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/6/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	11/6/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/6/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 1	< 1	N/A	< 1	N/A	< 1	< 1
	3/24/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/5/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
1,1,2-Trichloroethane, ug/L (CAS NO - 79-00-5)	3/5/2014	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/28/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/7/2015	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/21/2015	N/A	< 1	< 10	< 1	< 10	< 1	N/A	N/A
	3/29/2016	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	7/13/2016	N/A	< 1	< 1	N/A	N/A	N/A	< 1	< 1
	4/4/2017	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/6/2018	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	8/8/2018	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	< 1	< 10	< 1	< 1	< 1	N/A	< 1
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2019	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/19/2021	N/A	< 1	< 10	< 1	< 10	< 1	< 1	< 10
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	9/14/2021	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	4/27/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	9/13/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	3/21/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/21/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	8/16/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/6/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	11/6/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/6/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 1	< 1	N/A	< 1	N/A	< 1	< 1
	3/24/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/5/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Appendix I VOC Constituents									
1,1-Dichloroethane, ug/L (CAS NO - 75-34-3)	3/5/2014	N/A	< 1	< 1	11.5	N/A	< 1	< 1	N/A
	10/28/2014	N/A	< 1	< 1	37.3	< 1	< 1	< 1	< 1
	4/7/2015	N/A	< 1	< 1	8.73	< 1	< 1	< 1	< 1
	9/21/2015	N/A	< 1	< 10	6.52	< 10	< 1	N/A	N/A
	3/29/2016	N/A	N/A	< 1	4.76	< 1	< 1	< 1	N/A
	7/13/2016	N/A	< 1	< 1	N/A	N/A	N/A	< 1	< 1
	4/4/2017	N/A	N/A	< 1	3.72	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	< 1	3.04	< 1	< 1	< 1	< 1
	3/6/2018	N/A	< 1	< 1	3.69	< 1	< 1	< 1	< 1
	8/8/2018	N/A	< 1	< 1	2.31	< 1	< 1	< 1	< 1
	3/19/2019	N/A	< 1	< 10	2.27	< 1	< 1	N/A	< 1
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2019	N/A	< 1	< 1	1.97	< 1	< 1	< 1	< 1
	3/3/2020	N/A	< 1	< 1	1.58	< 1	< 1	< 1	< 1
	3/3/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 1	< 1	1.98	< 1	< 1	< 1	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/19/2021	N/A	< 1	< 10	0.851*	< 10	< 1	< 1	< 10
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	9/14/2021	N/A	< 1	< 1	0.899*	< 1	< 1	< 1	< 1
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	4/27/2022	N/A	< 1	< 1	0.804*	< 1	< 1	< 1	< 1
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	9/13/2022	N/A	< 1	< 1	0.856*	0.305*	< 1	< 1	< 1
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	3/21/2023	N/A	< 1	< 1	0.638*	< 1	< 1	< 1	< 1
	3/21/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 1	< 1	0.936*	< 1	< 1	< 1	< 1
	8/16/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 1	< 1	0.653*	< 1	N/A	< 1	< 1
	5/6/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	11/6/2024	N/A	< 1	< 1	0.644*	< 1	< 1	< 1	< 1
	11/6/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 1	< 1	N/A	< 1	N/A	< 1	< 1
	3/24/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/5/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
1,1-Dichloroethene, ug/L (CAS NO - 75-35-4)	3/5/2014	N/A	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	10/28/2014	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	4/7/2015	N/A	< 2	< 2	0.296*	< 2	< 2	< 2	< 2
	9/21/2015	N/A	< 2	< 20	< 2	< 20	< 2	N/A	N/A
	3/29/2016	N/A	N/A	< 2	< 2	< 2	< 2	< 2	N/A
	7/13/2016	N/A	< 2	< 2	N/A	N/A	N/A	< 2	< 2
	4/4/2017	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2
	9/19/2017	N/A	< 2	< 2	0.197*	< 2	< 2	< 2	< 2
	3/6/2018	N/A	< 2	< 2	0.232*	< 2	< 2	< 2	< 2
	8/8/2018	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	3/19/2019	N/A	< 2	< 20	< 2	< 2	< 2	N/A	< 2
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	8/28/2019	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	3/3/2020	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	3/3/2020	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	5/19/2021	N/A	< 2	< 20	< 2	< 20	< 2	< 2	< 20
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	9/14/2021	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2
	4/27/2022	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2
	9/13/2022	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A
	3/21/2023	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	3/21/2023	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	8/16/2023	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 2	< 2	< 2	< 2	N/A	< 2	< 2
	5/6/2024	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	11/6/2024	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	11/6/2024	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 2	< 2	N/A	< 2	N/A	< 2	< 2
	3/24/2025	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 2	< 2	< 2	< 2	N/A	< 2	< 2
	11/5/2025	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Appendix I VOC Constituents 1,2,3-Trichloropropane, ug/L (CAS NO - 96-18-4)	3/5/2014	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/28/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/7/2015	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/21/2015	N/A	< 1	< 10	< 1	< 10	< 1	N/A	N/A
	3/29/2016	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	7/13/2016	N/A	< 1	< 1	N/A	N/A	N/A	< 1	< 1
	4/4/2017	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/6/2018	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	8/8/2018	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	< 1	< 10	< 1	< 1	< 1	N/A	< 1
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2019	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/19/2021	N/A	< 1	< 10	< 1	< 10	< 1	< 1	< 10
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	9/14/2021	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	4/27/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	9/13/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	3/21/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/21/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	8/16/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/6/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	11/6/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/6/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 1	< 1	N/A	< 1	N/A	< 1	< 1
	3/24/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/5/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
1,2-Dibromo-3-Chloropropane, ug/L (CAS NO - 96-12-8)	3/5/2014	N/A	< 0.12	< 0.12	< 0.12	N/A	< 0.12	< 0.12	N/A
	10/28/2014	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
	4/7/2015	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	9/21/2015	N/A	< 0.5	< 5	< 0.5	< 5	< 0.5	N/A	N/A
	3/29/2016	N/A	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	7/13/2016	N/A	< 0.5	< 0.5	N/A	N/A	N/A	< 0.5	< 0.5
	4/4/2017	N/A	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	9/19/2017	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	3/6/2018	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	8/8/2018	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	3/19/2019	N/A	< 1.2	< 12	< 1.2	< 1.2	< 1.2	N/A	< 1.2
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A
	8/28/2019	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	3/3/2020	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	3/3/2020	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A
	5/19/2021	N/A	< 1.2	< 12	< 1.2	< 12	< 1.2	< 1.2	< 12
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A
	9/14/2021	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.2
	4/27/2022	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.2
	9/13/2022	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A
	3/21/2023	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	3/21/2023	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	8/16/2023	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 1.2	< 1.2	< 1.2	< 1.2	N/A	< 1.2	< 1.2
	5/6/2024	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A
	11/6/2024	N/A	< 1.2	< 5	< 1.2	< 1.2	< 1.2	< 5	< 5
	11/6/2024	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 1.2	< 1.2	N/A	< 1.2	N/A	< 1.2	< 1.2
	3/24/2025	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 1.2	< 1.2	< 1.2	< 1.2	N/A	< 1.2	< 1.2
	11/5/2025	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Appendix I VOC Constituents									
1,2-Dibromoethane [EDB], ug/L (CAS NO - 106-93-4)	3/5/2014	N/A	< 0.13	< 0.13	< 0.13	N/A	< 0.13	< 0.13	N/A
	10/28/2014	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	4/7/2015	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	9/21/2015	N/A	< 0.13	< 1.3	< 0.13	< 1.3	< 0.13	N/A	N/A
	3/29/2016	N/A	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A
	7/13/2016	N/A	< 0.13	< 0.13	N/A	N/A	N/A	< 0.13	< 0.13
	4/4/2017	N/A	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	9/19/2017	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	3/6/2018	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	8/8/2018	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	3/19/2019	N/A	< 0.34	< 3.4	< 0.34	< 0.34	< 0.34	N/A	< 0.34
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A
	8/28/2019	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	3/3/2020	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	3/3/2020	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A
	5/19/2021	N/A	< 0.34	< 3.4	< 0.34	< 3.4	< 0.34	< 0.34	< 3.4
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A
	9/14/2021	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.34
	4/27/2022	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.34
	9/13/2022	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A
	3/21/2023	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	3/21/2023	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	8/16/2023	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 0.34	< 0.34	< 0.34	< 0.34	N/A	< 0.34	< 0.34
	5/6/2024	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A
	11/6/2024	N/A	< 0.34	< 1	< 0.34	< 0.34	< 0.34	< 1	< 1
	11/6/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 0.34	< 0.34	N/A	< 0.34	N/A	< 0.34	< 0.34
	3/24/2025	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 0.34	< 0.34	< 0.34	< 0.34	N/A	< 0.34	< 0.34
	11/5/2025	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene, ug/L (CAS NO - 95-50-1)	3/5/2014	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/28/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/7/2015	N/A	< 1	0.156*	< 1	< 1	< 1	< 1	< 1
	9/21/2015	N/A	< 1	< 10	< 1	< 10	< 1	N/A	N/A
	3/29/2016	N/A	N/A	0.192*	< 1	< 1	< 1	< 1	N/A
	7/13/2016	N/A	< 1	< 1	N/A	N/A	N/A	< 1	< 1
	4/4/2017	N/A	N/A	0.223*	< 1	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	0.163*	< 1	< 1	< 1	< 1	< 1
	3/6/2018	N/A	< 1	0.198*	< 1	< 1	< 1	< 1	< 1
	8/8/2018	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	< 1	< 10	< 1	< 1	< 1	N/A	< 1
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2019	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/19/2021	N/A	< 1	< 10	< 1	< 10	< 1	< 1	< 10
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	9/14/2021	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	4/27/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	9/13/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	3/21/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/21/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	8/16/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/6/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	11/6/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/6/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 1	< 1	N/A	< 1	N/A	< 1	< 1
	3/24/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/5/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Appendix I VOC Constituents									
1,2-Dichloroethane, ug/L (CAS NO - 107-06-2)	3/5/2014	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/28/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/7/2015	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/21/2015	N/A	< 1	< 10	< 1	< 10	< 1	N/A	N/A
	3/29/2016	N/A	N/A	< 1	0.234*	< 1	< 1	< 1	N/A
	7/13/2016	N/A	< 1	< 1	N/A	N/A	N/A	< 1	< 1
	4/4/2017	N/A	N/A	< 1	0.234*	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	< 1	0.248*	< 1	< 1	< 1	< 1
	3/6/2018	N/A	< 1	< 1	0.25*	< 1	< 1	1.69	< 1
	8/8/2018	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	< 1	< 10	< 1	< 1	< 1	N/A	< 1
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2019	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/19/2021	N/A	< 1	< 10	< 1	< 10	< 1	< 1	< 10
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	9/14/2021	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	4/27/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	9/13/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	3/21/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/21/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	8/16/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/6/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	11/6/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/6/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 1	< 1	N/A	< 1	N/A	< 1	< 1
	3/24/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/5/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
1,2-Dichloropropane, ug/L (CAS NO - 78-87-5)	3/5/2014	N/A	< 1	< 1	1.99	N/A	< 1	< 1	N/A
	10/28/2014	N/A	< 1	< 1	2.65	< 1	< 1	< 1	< 1
	4/7/2015	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/21/2015	N/A	< 1	< 10	1.54	< 10	< 1	N/A	N/A
	3/29/2016	N/A	N/A	< 1	1.2	< 1	< 1	< 1	N/A
	7/13/2016	N/A	< 1	< 1	N/A	N/A	N/A	< 1	< 1
	4/4/2017	N/A	N/A	< 1	1.09	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	< 1	1.21	< 1	< 1	< 1	< 1
	3/6/2018	N/A	< 1	< 1	1.2	< 1	< 1	< 1	< 1
	8/8/2018	N/A	< 1	< 1	0.778*	< 1	< 1	< 1	< 1
	3/19/2019	N/A	< 1	< 10	0.689*	< 1	< 1	N/A	< 1
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2019	N/A	< 1	< 1	0.516*	< 1	< 1	< 1	< 1
	3/3/2020	N/A	< 1	< 1	0.509*	< 1	< 1	< 1	< 1
	3/3/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 1	< 1	0.57*	< 1	< 1	< 1	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/19/2021	N/A	< 1	< 10	< 1	< 10	< 1	< 1	< 10
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	9/14/2021	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	4/27/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	9/13/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	3/21/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/21/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	8/16/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/6/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	11/6/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/6/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 1	< 1	N/A	< 1	N/A	< 1	< 1
	3/24/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/5/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Appendix I VOC Constituents									
1,4-Dichlorobenzene, ug/L (CAS NO - 106-46-7)	3/5/2014	N/A	< 1	2.13	< 1	N/A	< 1	< 1	N/A
	10/28/2014	N/A	< 1	1.53	< 1	< 1	< 1	< 1	< 1
	4/7/2015	N/A	< 1	1.88	< 1	0.797*	< 1	< 1	< 1
	9/21/2015	N/A	< 1	< 10	< 1	< 10	< 1	N/A	N/A
	3/29/2016	N/A	N/A	2.09	< 1	< 1	< 1	< 1	N/A
	7/13/2016	N/A	< 1	< 1	N/A	N/A	N/A	< 1	< 1
	4/4/2017	N/A	N/A	2.1	< 1	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	1.88	< 1	0.668*	< 1	< 1	< 1
	3/6/2018	N/A	< 1	2.38	< 1	0.671*	< 1	< 1	< 1
	8/8/2018	N/A	< 1	1.48	< 1	0.701*	< 1	< 1	< 1
	3/19/2019	N/A	< 1	< 10	< 1	0.63*	< 1	N/A	< 1
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2019	N/A	< 1	1.62	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	< 1	2.09	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	N/A	1.99	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 1	2.45	< 1	0.672*	< 1	< 1	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/19/2021	N/A	< 1	< 10	< 1	< 10	< 1	< 1	< 10
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	9/14/2021	N/A	< 1	2.16	< 1	0.596*	< 1	< 1	< 1
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	4/27/2022	N/A	< 1	1.9	< 1	< 1	< 1	< 1	< 1
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	9/13/2022	N/A	< 1	1.56	< 1	< 1	< 1	< 1	< 1
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	3/21/2023	N/A	< 1	1.95	< 1	0.788*	< 1	< 1	< 1
	3/21/2023	N/A	N/A	1.87	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 1	2.02	< 1	0.808*	< 1	< 1	< 1
	8/16/2023	N/A	N/A	1.87	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 1	2.11	< 1	0.989*	N/A	< 1	< 1
	5/6/2024	N/A	N/A	N/A	N/A	0.849*	N/A	N/A	N/A
	11/6/2024	N/A	< 1	2.22	< 1	0.97*	< 1	< 1	< 1
	11/6/2024	N/A	N/A	2.26	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 1	1.83	N/A	0.927*	N/A	< 1	< 1
	3/24/2025	N/A	N/A	1.81	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 1	2.2	< 1	1.38	N/A	< 1	< 1
	11/5/2025	N/A	N/A	2.2	N/A	N/A	N/A	N/A	N/A
2-Butanone, ug/L (CAS NO - 78-93-3)	3/5/2014	N/A	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	10/28/2014	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	4/7/2015	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/21/2015	N/A	< 10	< 100	< 10	< 100	2.53*	N/A	N/A
	3/29/2016	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A
	7/13/2016	N/A	< 10	< 10	N/A	N/A	N/A	< 10	< 10
	4/4/2017	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10
	9/19/2017	N/A	< 10	1.52*	1.43*	< 10	< 10	2.05*	< 10
	3/6/2018	N/A	< 10	< 10	1.22*	1.75*	< 10	< 10	< 10
	8/8/2018	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/19/2019	N/A	< 10	< 100	< 10	< 10	< 10	N/A	< 10
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	8/28/2019	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2020	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2020	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	5/19/2021	N/A	< 10	< 100	< 10	< 100	< 10	< 10	< 100
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	9/14/2021	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/27/2022	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/13/2022	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/13/2022	N/A	N/A	N/A	N/A	N/A	3.49*	N/A	N/A
	3/21/2023	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/21/2023	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	8/16/2023	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	5/6/2024	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	11/6/2024	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	11/6/2024	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 10	< 10	N/A	< 10	N/A	< 10	< 10
	3/24/2025	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	11/5/2025	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Appendix I VOC Constituents 2-Hexanone, ug/L (CAS NO - 591-78-6)	3/5/2014	N/A	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	10/28/2014	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	4/7/2015	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/21/2015	N/A	< 10	< 100	< 10	< 100	< 10	N/A	N/A
	3/29/2016	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A
	7/13/2016	N/A	< 10	< 10	N/A	N/A	N/A	< 10	< 10
	4/4/2017	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10
	9/19/2017	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/6/2018	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	8/8/2018	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/19/2019	N/A	< 10	< 100	< 10	< 10	< 10	N/A	< 10
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	8/28/2019	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2020	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2020	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	5/19/2021	N/A	< 10	< 100	< 10	< 100	< 10	< 10	< 100
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	9/14/2021	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/27/2022	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/13/2022	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	3/21/2023	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/21/2023	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	8/16/2023	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	5/6/2024	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	11/6/2024	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	11/6/2024	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 10	< 10	N/A	< 10	N/A	< 10	< 10
	3/24/2025	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	11/5/2025	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
4-Methyl-2-Pentanone, ug/L (CAS NO - 108-10-1)	3/5/2014	N/A	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	10/28/2014	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	4/7/2015	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/21/2015	N/A	< 10	< 100	< 10	< 100	< 10	N/A	N/A
	3/29/2016	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A
	7/13/2016	N/A	< 10	< 10	N/A	N/A	N/A	< 10	< 10
	4/4/2017	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10
	9/19/2017	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/6/2018	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	8/8/2018	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/19/2019	N/A	< 10	< 100	< 10	< 10	< 10	N/A	< 10
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	8/28/2019	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2020	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2020	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	5/19/2021	N/A	< 10	< 100	< 10	< 100	< 10	< 10	< 100
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	9/14/2021	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/27/2022	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/13/2022	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	3/21/2023	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/21/2023	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	8/16/2023	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	5/6/2024	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	11/6/2024	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	11/6/2024	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 10	< 10	N/A	< 10	N/A	< 10	< 10
	3/24/2025	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	11/5/2025	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Appendix I VOC Constituents Acetone, ug/L (CAS NO - 67-64-1)	3/5/2014	N/A	3.73*	< 10	< 10	N/A	2.03*	< 10	N/A
	10/28/2014	N/A	< 10	< 10	< 10	5.45*	< 10	< 10	< 10
	4/7/2015	N/A	< 10	4.5*	< 10	3.5*	< 10	< 10	< 10
	9/21/2015	N/A	< 10	< 100	< 10	< 100	16.3	N/A	N/A
	3/29/2016	N/A	N/A	7.25*	3.17*	6.61*	4.79*	7.17*	N/A
	7/13/2016	N/A	2.82	5.61*	N/A	N/A	N/A	11.5	< 10
	4/4/2017	N/A	N/A	5.56*	< 10	4.36*	2.31*	6.95*	5.21*
	9/19/2017	N/A	< 10	8.38*	3.35*	4.31*	2.65*	5.18*	4.38*
	3/6/2018	N/A	2.01*	4.38*	3.52*	4.32*	2.33*	7.35*	3.29*
	8/8/2018	N/A	< 10	< 10	3.12*	16.6	< 10	3.47*	< 10
	3/19/2019	N/A	3.24*	< 100	< 10	4.64*	< 10	N/A	< 10
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	3.42	N/A
	8/28/2019	N/A	< 10	11.5	< 10	< 10	< 10	< 10	< 10
	3/3/2020	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2020	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	5/19/2021	N/A	< 10	34.2*	< 10	37.4*	< 10	< 10	< 100
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	9/14/2021	N/A	< 10	4.85*	< 10	< 10	< 10	5.3*	< 10
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/27/2022	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/13/2022	N/A	< 10	< 10	< 10	4.06*	3.33*	< 10	< 10
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	3/21/2023	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/21/2023	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 10	< 10	< 10	< 10	< 10	3.46*	< 10
	8/16/2023	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 10	5.32*	< 10	< 10	N/A	< 10	< 10
	5/6/2024	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	11/6/2024	N/A	< 10	3.94*	< 10	3.82*	< 10	< 10	< 10
	11/6/2024	N/A	N/A	4.66*	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 10	6.92*	N/A	< 10	N/A	< 10	< 10
	3/24/2025	N/A	N/A	4.79*	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 10	7.92*	< 10	9.11*	N/A	< 10	< 10
	11/5/2025	N/A	N/A	7.68*	N/A	N/A	N/A	N/A	N/A
Acrylonitrile, ug/L (CAS NO - 107-13-1)	3/5/2014	N/A	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	10/28/2014	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	4/7/2015	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/21/2015	N/A	< 10	< 100	< 10	< 100	< 10	N/A	N/A
	3/29/2016	N/A	N/A	< 10	< 10	< 10	0.584*	< 10	N/A
	7/13/2016	N/A	< 10	< 10	N/A	N/A	N/A	< 10	< 10
	4/4/2017	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10
	9/19/2017	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/6/2018	N/A	0.872*	< 10	< 10	< 10	< 10	< 10	< 10
	8/8/2018	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/19/2019	N/A	< 10	< 100	< 10	< 10	< 10	N/A	< 10
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	8/28/2019	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2020	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2020	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	5/19/2021	N/A	< 10	< 100	< 10	< 100	< 10	< 10	< 100
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	9/14/2021	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/27/2022	N/A	< 10	< 10	< 10	< 10	4.93*	< 10	< 10
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/13/2022	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	3/21/2023	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/21/2023	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	8/16/2023	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	5/6/2024	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	11/6/2024	N/A	< 10	< 5	< 10	< 10	< 10	< 5	< 5
	11/6/2024	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 10	< 10	N/A	< 10	N/A	< 10	< 10
	3/24/2025	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	11/5/2025	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Appendix I VOC Constituents									
Benzene, ug/L (CAS NO - 71-43-2)	3/5/2014	N/A	< 0.5	15	1.05	N/A	< 0.5	0.879	N/A
	10/28/2014	N/A	< 0.5	15.3	2.59	1.45	< 0.5	0.957	< 0.5
	4/7/2015	N/A	< 0.5	13.6	0.923	0.996	< 0.5	0.416*	< 0.5
	9/21/2015	N/A	< 0.5	14	0.925	1.96*	< 0.5	N/A	N/A
	3/29/2016	N/A	N/A	11.2	0.651	1.09	< 0.5	0.99	N/A
	7/13/2016	N/A	< 0.5	10.8	N/A	N/A	N/A	0.831	0.612
	4/4/2017	N/A	N/A	11.4	0.624	1.24	< 0.5	0.497*	0.436*
	9/19/2017	N/A	< 0.5	11.7	0.574	1.27	< 0.5	2	0.911
	3/6/2018	N/A	< 0.5	11.7	0.659	1.23	< 0.5	1.38	0.49*
	8/8/2018	N/A	< 0.5	10.8	0.568	1.16	< 0.5	1.74	0.629
	3/19/2019	N/A	< 0.5	12.6	0.641	0.926	< 0.5	N/A	< 0.5
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	0.566	N/A
	8/28/2019	N/A	< 0.5	11.5	0.592	1.41	< 0.5	0.269*	0.311*
	3/3/2020	N/A	< 0.5	10.2	0.614	0.382*	< 0.5	0.322*	0.498*
	3/3/2020	N/A	N/A	10.3	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 0.5	13	0.835	1.24	< 0.5	0.276*	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	0.568	N/A
	5/19/2021	N/A	< 0.5	8.39	0.638	< 5	< 0.5	< 0.5	< 5
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	0.317*	N/A
	9/14/2021	N/A	< 0.5	9.26	< 0.5	1.22	< 0.5	0.493*	0.577
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.515
	4/27/2022	N/A	< 0.5	10.4	0.463*	1.44	< 0.5	< 0.5	0.472*
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.371*
	9/13/2022	N/A	< 0.5	9.98	0.515	1.79	< 0.5	< 0.5	< 0.5
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A
	3/21/2023	N/A	< 0.5	11.3	0.375*	1.53	< 0.5	< 0.5	0.866
	3/21/2023	N/A	N/A	10	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 0.5	11.7	0.448*	1.59	< 0.5	< 0.5	0.466*
	8/16/2023	N/A	N/A	11.1	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 0.5	12.5	0.593	1.57	N/A	< 0.5	0.495*
	5/6/2024	N/A	N/A	N/A	N/A	1.6	N/A	N/A	N/A
	11/6/2024	N/A	< 0.5	12.2	0.607	1.69	< 0.5	< 0.5	0.303*
	11/6/2024	N/A	N/A	12.2	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 0.5	11.2	N/A	1.93	N/A	< 0.5	< 0.5
	3/24/2025	N/A	N/A	11.3	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 0.5	9.74	0.295*	6.39	N/A	0.237*	0.239*
	11/5/2025	N/A	N/A	10.2	N/A	N/A	N/A	N/A	N/A
Bromochloromethane, ug/L (CAS NO - 74-97-5)	3/5/2014	N/A	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/28/2014	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	4/7/2015	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/21/2015	N/A	< 5	< 50	< 5	< 50	< 5	N/A	N/A
	3/29/2016	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A
	7/13/2016	N/A	< 5	< 5	N/A	N/A	N/A	< 5	< 5
	4/4/2017	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5
	9/19/2017	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/6/2018	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	8/8/2018	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/19/2019	N/A	< 5	< 50	< 5	< 5	< 5	N/A	< 5
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/28/2019	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/3/2020	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/3/2020	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	5/19/2021	N/A	< 5	< 50	< 5	< 50	< 5	< 5	< 50
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/14/2021	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	4/27/2022	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	9/13/2022	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	3/21/2023	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/21/2023	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	8/16/2023	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	5/6/2024	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	11/6/2024	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	11/6/2024	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 5	< 5	N/A	< 5	N/A	< 5	< 5
	3/24/2025	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	11/5/2025	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Appendix I VOC Constituents									
Bromodichloromethane, ug/L (CAS NO - 75-27-4)	3/5/2014	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/28/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/7/2015	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/21/2015	N/A	< 1	< 10	< 1	< 10	< 1	N/A	N/A
	3/29/2016	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	7/13/2016	N/A	< 1	< 1	N/A	N/A	N/A	< 1	< 1
	4/4/2017	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/6/2018	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	8/8/2018	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	< 1	< 10	< 1	< 1	< 1	N/A	< 1
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2019	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/19/2021	N/A	< 1	< 10	< 1	4.35*	< 1	< 1	< 10
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	9/14/2021	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	4/27/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	9/13/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	3/21/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/21/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	8/16/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/6/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	11/6/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/6/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 1	< 1	N/A	< 1	N/A	< 1	< 1
	3/24/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/5/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
Bromoform, ug/L (CAS NO - 75-25-2)	3/5/2014	N/A	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/28/2014	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	4/7/2015	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/21/2015	N/A	< 5	< 50	< 5	< 50	< 5	N/A	N/A
	3/29/2016	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A
	7/13/2016	N/A	< 5	< 5	N/A	N/A	N/A	< 5	< 5
	4/4/2017	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5
	9/19/2017	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/6/2018	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	8/8/2018	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/19/2019	N/A	< 5	< 50	< 5	< 5	< 5	N/A	< 5
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/28/2019	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/3/2020	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/3/2020	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	5/19/2021	N/A	< 5	< 50	< 5	< 50	< 5	< 5	< 50
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/14/2021	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	4/27/2022	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	9/13/2022	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	3/21/2023	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/21/2023	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	8/16/2023	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	5/6/2024	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	11/6/2024	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	11/6/2024	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 5	< 5	N/A	< 5	N/A	< 5	< 5
	3/24/2025	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	11/5/2025	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Appendix I VOC Constituents									
Bromomethane, ug/L (CAS NO - 74-83-9)	3/5/2014	N/A	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	10/28/2014	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	4/7/2015	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	9/21/2015	N/A	< 4	< 40	< 4	< 40	< 4	N/A	N/A
	3/29/2016	N/A	N/A	< 4	< 4	< 4	0.514*	< 4	N/A
	7/13/2016	N/A	< 4	< 4	N/A	N/A	N/A	< 4	< 4
	4/4/2017	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4
	9/19/2017	N/A	0.375*	0.471*	0.662*	< 4	0.583*	0.504*	0.61*
	3/6/2018	N/A	< 4	< 4	< 4	< 4	< 4	0.348*	0.308*
	8/8/2018	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	3/19/2019	N/A	< 4	< 40	< 4	< 4	< 4	N/A	< 4
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	8/28/2019	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	3/3/2020	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	3/3/2020	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	5/19/2021	N/A	< 4	< 40	< 4	< 40	< 4	< 4	< 40
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	9/14/2021	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4
	4/27/2022	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4
	9/13/2022	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A
	3/21/2023	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	3/21/2023	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	8/16/2023	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 4	< 4	< 4	< 4	N/A	< 4	< 4
	5/6/2024	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	11/6/2024	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	11/6/2024	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 4	< 4	N/A	< 4	N/A	< 4	< 4
	3/24/2025	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 4	< 4	< 4	< 4	N/A	< 4	< 4
	11/5/2025	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
Carbon Disulfide, ug/L (CAS NO - 75-15-0)	3/5/2014	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/28/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/7/2015	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/21/2015	N/A	< 1	< 10	< 1	< 10	0.246*	N/A	N/A
	3/29/2016	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	7/13/2016	N/A	< 1	< 1	N/A	N/A	N/A	< 1	< 1
	4/4/2017	N/A	N/A	< 1	0.176*	< 1	< 1	< 1	< 1
	9/19/2017	N/A	0.918*	< 1	< 1	< 1	0.233*	< 1	< 1
	3/6/2018	N/A	< 1	< 1	0.161*	< 1	< 1	0.163*	< 1
	8/8/2018	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	< 1	< 10	< 1	< 1	< 1	N/A	< 1
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2019	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	< 1	< 1	< 1	< 1	< 1	0.612*	< 1
	3/3/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/19/2021	N/A	< 1	< 10	< 1	< 10	< 1	< 1	< 10
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	9/14/2021	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	4/27/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	9/13/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	3/21/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/21/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	8/16/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/6/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	11/6/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/6/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 1	< 1	N/A	< 1	N/A	< 1	< 1
	3/24/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/5/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Appendix I VOC Constituents									
Carbon Tetrachloride, ug/L (CAS NO - 56-23-5)	3/5/2014	N/A	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	10/28/2014	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	4/7/2015	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	9/21/2015	N/A	< 2	< 20	< 2	< 20	< 2	N/A	N/A
	3/29/2016	N/A	N/A	< 2	< 2	< 2	< 2	< 2	N/A
	7/13/2016	N/A	< 2	< 2	N/A	N/A	N/A	< 2	< 2
	4/4/2017	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2
	9/19/2017	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	3/6/2018	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	8/8/2018	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	3/19/2019	N/A	< 2	< 20	< 2	< 2	< 2	N/A	< 2
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	8/28/2019	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	3/3/2020	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	3/3/2020	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	5/19/2021	N/A	< 2	< 20	< 2	< 20	< 2	< 2	< 20
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	9/14/2021	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2
	4/27/2022	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2
	9/13/2022	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A
	3/21/2023	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	3/21/2023	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	8/16/2023	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 2	< 2	< 2	< 2	N/A	< 2	< 2
	5/6/2024	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	11/6/2024	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	11/6/2024	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 2	< 2	N/A	< 2	N/A	< 2	< 2
	3/24/2025	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 2	< 2	< 2	< 2	N/A	< 2	< 2
	11/5/2025	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
Chlorobenzene, ug/L (CAS NO - 108-90-7)	3/5/2014	N/A	< 1	8.09	< 1	N/A	< 1	< 1	N/A
	10/28/2014	N/A	< 1	8.23	< 1	2.9	< 1	0.871*	< 1
	4/7/2015	N/A	< 1	7.45	0.726*	2.55	< 1	0.504*	< 1
	9/21/2015	N/A	< 1	8.74*	0.829*	< 10	< 1	N/A	N/A
	3/29/2016	N/A	N/A	8.24	< 1	2.04	< 1	0.506*	N/A
	7/13/2016	N/A	< 1	8.15	N/A	N/A	N/A	< 1	< 1
	4/4/2017	N/A	N/A	7.62	0.871*	2.17	< 1	0.358*	0.43*
	9/19/2017	N/A	< 1	8.12	1.14	1.97	< 1	0.586*	1.09
	3/6/2018	N/A	< 1	8.28	1.28	1.92	< 1	0.512*	0.443*
	8/8/2018	N/A	< 1	7.12	1.21	2.07	< 1	< 1	< 1
	3/19/2019	N/A	< 1	< 10	1.32	1.46	< 1	N/A	< 1
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2019	N/A	< 1	10	1.23	1.56	< 1	< 1	< 1
	3/3/2020	N/A	< 1	9.32	1.65	0.8*	< 1	< 1	0.677*
	3/3/2020	N/A	N/A	9.52	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 1	11.6	1.92	1.98	< 1	< 1	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/19/2021	N/A	< 1	7.72*	< 1	< 10	< 1	< 1	< 10
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	9/14/2021	N/A	< 1	9.98	2.03	1.72	< 1	< 1	1.06
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.21
	4/27/2022	N/A	< 1	9.56	2.22	1.61	< 1	< 1	0.781*
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.75*
	9/13/2022	N/A	< 1	9.67	2.2	< 1	< 1	< 1	< 1
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	3/21/2023	N/A	< 1	9.67	2.5	1.83	< 1	< 1	0.717*
	3/21/2023	N/A	N/A	8.76	N/A	N/A	< 1	N/A	N/A
	8/16/2023	N/A	< 1	9.99	2.23	1.85	< 1	< 1	0.931*
	8/16/2023	N/A	N/A	9.2	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 1	10.6	2.73	1.99	N/A	< 1	0.856*
	5/6/2024	N/A	N/A	N/A	N/A	1.93	N/A	N/A	N/A
	11/6/2024	N/A	< 1	10.6	2.78	1.92	< 1	< 1	0.729*
	11/6/2024	N/A	N/A	10.6	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 1	8.29	N/A	1.81	N/A	< 1	< 1
	3/24/2025	N/A	N/A	8.6	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 1	10.6	1.78	< 1	N/A	< 1	< 1
	11/5/2025	N/A	N/A	10.9	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Appendix I VOC Constituents									
Chlorodibromomethane, ug/L (CAS NO - 124-48-1)	3/5/2014	N/A	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/28/2014	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	4/7/2015	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/21/2015	N/A	< 5	< 50	< 5	< 50	< 5	N/A	N/A
	3/29/2016	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A
	7/13/2016	N/A	< 5	< 5	N/A	N/A	N/A	< 5	< 5
	4/4/2017	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5
	9/19/2017	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/6/2018	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	8/8/2018	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/19/2019	N/A	< 5	< 50	< 5	< 5	< 5	N/A	< 5
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/28/2019	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/3/2020	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/3/2020	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	5/19/2021	N/A	< 5	< 50	< 5	< 50	< 5	< 5	< 50
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/14/2021	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	4/27/2022	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	9/13/2022	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	3/21/2023	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/21/2023	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	8/16/2023	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	5/6/2024	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	11/6/2024	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	11/6/2024	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 5	< 5	N/A	< 5	N/A	< 5	< 5
	3/24/2025	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	11/5/2025	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
Chloroethane, ug/L (CAS NO - 75-00-3)	3/5/2014	N/A	< 4	5.47	2.76*	N/A	< 4	< 4	N/A
	10/28/2014	N/A	< 4	4.45	< 4	< 4	< 4	< 4	< 4
	4/7/2015	N/A	< 4	3.82*	2.11*	0.918*	< 4	< 4	< 4
	9/21/2015	N/A	< 4	< 40	4.28	< 40	< 4	N/A	N/A
	3/29/2016	N/A	N/A	4.86	1.84*	0.709*	< 4	< 4	N/A
	7/13/2016	N/A	< 4	3.86*	N/A	N/A	N/A	< 4	< 4
	4/4/2017	N/A	N/A	4.34	1.4*	0.96*	< 4	< 4	< 4
	9/19/2017	N/A	< 4	4.3	2.52*	0.878*	< 4	< 4	1.08*
	3/6/2018	N/A	< 4	1.71*	1.03*	< 4	< 4	< 4	< 4
	8/8/2018	N/A	< 4	3.49*	2.17*	0.829*	< 4	< 4	< 4
	3/19/2019	N/A	< 4	< 40	2*	1.02*	< 4	N/A	< 4
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	8/28/2019	N/A	< 4	3.52*	2.3*	0.839*	< 4	< 4	< 4
	3/3/2020	N/A	< 4	3.41*	1.49*	< 4	< 4	< 4	< 4
	3/3/2020	N/A	N/A	3.37*	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 4	3.26*	1.84*	1.03*	< 4	< 4	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	5/19/2021	N/A	< 4	< 40	0.958*	< 40	< 4	< 4	< 40
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	9/14/2021	N/A	< 4	2.79*	1.59*	0.988*	< 4	< 4	< 4
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4
	4/27/2022	N/A	< 4	2*	0.823*	1.96*	< 4	< 4	< 4
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4
	9/13/2022	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A
	3/21/2023	N/A	< 4	2.04*	0.809*	1.09*	< 4	< 4	< 4
	3/21/2023	N/A	N/A	1.57*	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 4	2.16*	< 4	< 4	< 4	< 4	< 4
	8/16/2023	N/A	N/A	2.57*	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 4	1.64*	0.793*	0.939*	N/A	< 4	< 4
	5/6/2024	N/A	N/A	N/A	N/A	0.922*	N/A	N/A	N/A
	11/6/2024	N/A	< 4	1.65*	0.989*	0.855*	< 4	< 4	< 4
	11/6/2024	N/A	N/A	1.51*	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 4	1.38*	N/A	0.855*	N/A	< 4	< 4
	3/24/2025	N/A	N/A	1.52*	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 4	1.57*	< 4	< 4	N/A	< 4	< 4
	11/5/2025	N/A	N/A	1.56*	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Appendix I VOC Constituents									
Chloroform, ug/L (CAS NO - 67-66-3)	3/5/2014	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/28/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/7/2015	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/21/2015	N/A	< 1	< 10	< 1	< 10	< 1	N/A	N/A
	3/29/2016	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	7/13/2016	N/A	< 1	< 1	N/A	N/A	N/A	< 1	< 1
	4/4/2017	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/6/2018	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	8/8/2018	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	3/19/2019	N/A	< 3	< 30	< 3	< 3	< 3	N/A	< 3
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	8/28/2019	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	3/3/2020	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	3/3/2020	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	5/19/2021	N/A	< 3	< 30	< 3	< 30	< 3	< 3	< 30
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	9/14/2021	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3
	4/27/2022	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3
	9/13/2022	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A
	3/21/2023	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	3/21/2023	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	8/16/2023	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 3	< 3	< 3	< 3	N/A	< 3	< 3
	5/6/2024	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
	11/6/2024	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	11/6/2024	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 3	< 3	N/A	< 3	N/A	< 3	< 3
	3/24/2025	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 3	< 3	< 3	< 3	N/A	< 3	< 3
	11/5/2025	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
Chloromethane, ug/L (CAS NO - 74-87-3)	3/5/2014	N/A	< 3	< 3	< 3	N/A	< 3	< 3	N/A
	10/28/2014	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	4/7/2015	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	9/21/2015	N/A	< 3	< 30	< 3	< 30	< 3	N/A	N/A
	3/29/2016	N/A	N/A	< 3	< 3	< 3	< 3	< 3	N/A
	7/13/2016	N/A	< 3	< 3	N/A	N/A	N/A	< 3	< 3
	4/4/2017	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3
	9/19/2017	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	3/6/2018	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	8/8/2018	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	3/19/2019	N/A	< 3	< 30	< 3	< 3	< 3	N/A	< 3
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	8/28/2019	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	3/3/2020	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	3/3/2020	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	5/19/2021	N/A	< 3	< 30	< 3	< 30	< 3	< 3	< 30
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	9/14/2021	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3
	4/27/2022	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3
	9/13/2022	N/A	< 3	0.623*	< 3	< 3	< 3	0.879*	< 3
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A
	3/21/2023	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	3/21/2023	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	8/16/2023	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 3	< 3	< 3	< 3	N/A	< 3	< 3
	5/6/2024	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
	11/6/2024	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	11/6/2024	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 3	< 3	N/A	< 3	N/A	< 3	< 3
	3/24/2025	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 3	< 3	< 3	< 3	N/A	< 3	< 3
	11/5/2025	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Appendix I VOC Constituents									
cis-1,2-Dichloroethene, ug/L (CAS NO - 156-59-2)	3/5/2014	N/A	< 1	< 1	400	N/A	< 1	0.955*	N/A
	10/28/2014	N/A	< 1	< 1	803	< 1	< 1	0.188*	< 1
	4/7/2015	N/A	< 1	< 1	279	0.517*	< 1	< 1	< 1
	9/21/2015	N/A	< 1	< 10	264	< 10	< 1	N/A	N/A
	3/29/2016	N/A	N/A	< 1	206	0.255*	< 1	< 1	N/A
	7/13/2016	N/A	< 1	< 1	N/A	N/A	N/A	< 1	0.164*
	4/4/2017	N/A	N/A	0.291*	156	0.344*	< 1	< 1	0.141*
	9/19/2017	N/A	< 1	0.227*	126	< 1	< 1	< 1	0.283*
	3/6/2018	N/A	< 1	< 1	126	0.244*	< 1	< 1	0.165*
	8/8/2018	N/A	< 1	< 1	73.8	< 1	< 1	< 1	< 1
	3/19/2019	N/A	< 1	18.1	70.4	0.431*	< 1	N/A	< 1
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2019	N/A	< 1	< 1	48.5	0.383*	< 1	< 1	< 1
	3/3/2020	N/A	< 1	< 1	62.9	0.214*	< 1	< 1	< 1
	3/3/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 1	< 1	57.1	< 1	< 1	< 1	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/19/2021	N/A	< 1	< 10	18.3	< 10	< 1	< 1	< 10
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	9/14/2021	N/A	< 1	< 1	20.4	< 1	< 1	0.232*	0.742*
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.821*
	4/27/2022	N/A	< 1	< 1	15.1	0.305*	< 1	< 1	0.756*
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.668*
	9/13/2022	N/A	< 1	< 1	14.6	0.324*	< 1	< 1	< 1
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	3/21/2023	N/A	< 1	< 1	10.6	0.24*	< 1	< 1	0.771*
	3/21/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 1	< 1	21.3	< 1	< 1	< 1	1.02
	8/16/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 1	< 1	15	< 1	N/A	< 1	1.42
	5/6/2024	N/A	N/A	N/A	N/A	0.268*	N/A	N/A	N/A
	11/6/2024	N/A	< 1	< 1	18.2	0.28*	< 1	< 1	0.798*
	11/6/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 1	< 1	N/A	< 1	N/A	< 1	0.272*
	3/24/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 1	< 1	29.3	< 1	N/A	< 1	0.749*
	11/5/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
cis-1,3-Dichloropropene, ug/L (CAS NO - 10061-01-5)	3/5/2014	N/A	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/28/2014	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	4/7/2015	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/21/2015	N/A	< 5	< 50	< 5	< 50	< 5	N/A	N/A
	3/29/2016	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A
	7/13/2016	N/A	< 5	< 5	N/A	N/A	N/A	< 5	< 5
	4/4/2017	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5
	9/19/2017	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/6/2018	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	8/8/2018	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/19/2019	N/A	< 5	< 50	< 5	< 5	< 5	N/A	< 5
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/28/2019	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/3/2020	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/3/2020	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	5/19/2021	N/A	< 5	< 50	< 5	< 50	< 5	< 5	< 50
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/14/2021	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	4/27/2022	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	9/13/2022	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	3/21/2023	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/21/2023	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	8/16/2023	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	5/6/2024	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	11/6/2024	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	11/6/2024	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 5	< 5	N/A	< 5	N/A	< 5	< 5
	3/24/2025	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	11/5/2025	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Appendix I VOC Constituents									
Ethylbenzene, ug/L (CAS NO - 100-41-4)	3/5/2014	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/28/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/7/2015	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/21/2015	N/A	< 1	< 10	< 1	< 10	< 1	N/A	N/A
	3/29/2016	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	7/13/2016	N/A	< 1	< 1	N/A	N/A	N/A	< 1	< 1
	4/4/2017	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/6/2018	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	8/8/2018	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	< 1	< 10	< 1	< 1	< 1	N/A	< 1
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2019	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/19/2021	N/A	< 1	< 10	< 1	< 10	< 1	< 1	< 10
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	9/14/2021	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	4/27/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	9/13/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	3/21/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/21/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	8/16/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/6/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	11/6/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/6/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 1	< 1	N/A	< 1	N/A	< 1	< 1
	3/24/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 1	< 1	< 1	1.95	N/A	< 1	< 1
	11/5/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
Iodomethane, ug/L (CAS NO - 74-88-4)	3/5/2014	N/A	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	10/28/2014	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	4/7/2015	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/21/2015	N/A	< 10	< 100	< 10	< 100	< 10	N/A	N/A
	3/29/2016	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A
	7/13/2016	N/A	< 10	< 10	N/A	N/A	N/A	< 10	< 10
	4/4/2017	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10
	9/19/2017	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/6/2018	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	8/8/2018	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/19/2019	N/A	< 10	< 100	< 10	< 10	< 10	N/A	< 10
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	8/28/2019	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2020	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2020	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	5/19/2021	N/A	< 10	< 100	< 10	< 100	< 10	< 10	< 100
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	9/14/2021	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/27/2022	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/13/2022	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	3/21/2023	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/21/2023	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	8/16/2023	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	5/6/2024	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	11/6/2024	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	11/6/2024	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 10	< 10	N/A	< 10	N/A	< 10	< 10
	3/24/2025	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	11/5/2025	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Appendix I VOC Constituents									
Methylene Bromide, ug/L (CAS NO - 74-95-3)	3/5/2014	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/28/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/7/2015	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/21/2015	N/A	< 1	< 10	< 1	< 10	< 1	N/A	N/A
	3/29/2016	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	7/13/2016	N/A	< 1	< 1	N/A	N/A	N/A	< 1	< 1
	4/4/2017	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/6/2018	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	8/8/2018	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	< 1	< 10	< 1	< 1	< 1	N/A	< 1
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2019	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/19/2021	N/A	< 1	< 10	< 1	< 10	< 1	< 1	< 10
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	9/14/2021	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	4/27/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	9/13/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	3/21/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/21/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	8/16/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/6/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	11/6/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/6/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 1	< 1	N/A	< 1	N/A	< 1	< 1
	3/24/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/5/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
Methylene Chloride, ug/L (CAS NO - 75-09-2)	3/5/2014	N/A	< 5	0.208*	< 5	N/A	0.282*	< 5	N/A
	10/28/2014	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	4/7/2015	N/A	< 5	0.296*	< 5	< 5	< 5	< 5	< 5
	9/21/2015	N/A	< 5	3.94*	0.449*	2.54*	< 5	N/A	N/A
	3/29/2016	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A
	7/13/2016	N/A	0.374	0.405*	N/A	N/A	N/A	0.314*	0.405*
	4/4/2017	N/A	N/A	0.361*	0.212*	< 5	0.26*	< 5	< 5
	9/19/2017	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/6/2018	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	8/8/2018	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/19/2019	N/A	< 5	< 50	< 5	< 5	< 5	N/A	< 5
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/28/2019	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/3/2020	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/3/2020	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	5/19/2021	N/A	< 5	< 50	< 5	< 50	< 5	< 5	< 50
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/14/2021	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	4/27/2022	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	9/13/2022	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	3/21/2023	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/21/2023	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	8/16/2023	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	5/6/2024	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	11/6/2024	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	11/6/2024	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 5	< 5	N/A	< 5	N/A	< 5	< 5
	3/24/2025	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	11/5/2025	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Appendix I VOC Constituents									
Styrene, ug/L (CAS NO - 100-42-5)	3/5/2014	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	10/28/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/7/2015	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/21/2015	N/A	< 1	< 10	< 1	< 10	< 1	N/A	N/A
	3/29/2016	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	7/13/2016	N/A	< 1	< 1	N/A	N/A	N/A	< 1	< 1
	4/4/2017	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/6/2018	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	8/8/2018	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	< 1	< 10	< 1	< 1	< 1	N/A	< 1
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2019	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/19/2021	N/A	< 1	< 10	< 1	< 10	< 1	< 1	< 10
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	9/14/2021	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	4/27/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	9/13/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	3/21/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/21/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	8/16/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/6/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	11/6/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/6/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 1	< 1	N/A	< 1	N/A	< 1	< 1
	3/24/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/5/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
Tetrachloroethene, ug/L (CAS NO - 127-18-4)	3/5/2014	N/A	< 1	< 1	5.32	N/A	< 1	< 1	N/A
	10/28/2014	N/A	< 1	< 1	1.37	< 1	< 1	< 1	< 1
	4/7/2015	N/A	< 1	< 1	4.77	< 1	< 1	< 1	< 1
	9/21/2015	N/A	< 1	< 10	4.92	< 10	< 1	N/A	N/A
	3/29/2016	N/A	N/A	< 1	4.19	< 1	< 1	< 1	N/A
	7/13/2016	N/A	< 1	< 1	N/A	N/A	N/A	< 1	< 1
	4/4/2017	N/A	N/A	< 1	4.22	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	< 1	4.5	< 1	< 1	< 1	< 1
	3/6/2018	N/A	< 1	< 1	1.61	< 1	< 1	< 1	< 1
	8/8/2018	N/A	< 1	< 1	3.84	< 1	< 1	< 1	< 1
	3/19/2019	N/A	< 1	< 10	3.04	< 1	< 1	N/A	< 1
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2019	N/A	< 1	< 1	4.07	< 1	< 1	< 1	< 1
	3/3/2020	N/A	< 1	< 1	3.8	< 1	< 1	< 1	< 1
	3/3/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 1	< 1	4.83	< 1	< 1	< 1	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/19/2021	N/A	< 1	< 10	3.01	< 10	< 1	< 1	< 10
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	9/14/2021	N/A	< 1	< 1	3.34	< 1	< 1	0.933*	< 1
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	4/27/2022	N/A	< 1	< 1	2.61	< 1	< 1	< 1	< 1
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	9/13/2022	N/A	< 1	< 1	2.45	< 1	< 1	< 1	< 1
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	3/21/2023	N/A	< 1	< 1	2.18	< 1	< 1	< 1	< 1
	3/21/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 1	< 1	2.17	< 1	< 1	< 1	< 1
	8/16/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 1	< 1	1.82	< 1	N/A	< 1	< 1
	5/6/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	11/6/2024	N/A	< 1	< 1	2.26	< 1	< 1	< 1	< 1
	11/6/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 1	< 1	N/A	< 1	N/A	< 1	< 1
	3/24/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 1	< 1	0.611*	< 1	N/A	< 1	< 1
	11/5/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Appendix I VOC Constituents									
Toluene, ug/L (CAS NO - 108-88-3)	3/5/2014	N/A	< 1	0.536*	< 1	N/A	< 1	< 1	N/A
	10/28/2014	N/A	< 1	0.485*	< 1	< 1	< 1	< 1	< 1
	4/7/2015	N/A	< 1	0.476*	< 1	< 1	< 1	< 1	< 1
	9/21/2015	N/A	< 1	< 10	< 1	< 10	< 1	N/A	N/A
	3/29/2016	N/A	N/A	0.607*	< 1	< 1	< 1	< 1	N/A
	7/13/2016	N/A	< 1	0.446*	N/A	N/A	N/A	< 1	< 1
	4/4/2017	N/A	N/A	0.509*	0.215*	< 1	< 1	0.168*	< 1
	9/19/2017	N/A	< 1	0.598*	< 1	< 1	< 1	< 1	< 1
	3/6/2018	N/A	< 1	0.478*	0.202*	< 1	< 1	< 1	< 1
	8/8/2018	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/19/2019	N/A	< 1	< 10	< 1	< 1	< 1	N/A	< 1
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2019	N/A	< 1	0.437*	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/19/2021	N/A	< 1	< 10	< 1	< 10	< 1	< 1	< 10
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	9/14/2021	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	4/27/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	9/13/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	3/21/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/21/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	8/16/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/6/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	11/6/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	11/6/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 1	< 1	N/A	< 1	N/A	< 1	< 1
	3/24/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 1	< 1	< 1	1.3	N/A	< 1	< 1
	11/5/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
trans-1,2-Dichloroethene, ug/L (CAS NO - 156-60-5)	3/5/2014	N/A	< 1	< 1	9.32	N/A	< 1	< 1	N/A
	10/28/2014	N/A	< 1	< 1	17.5	< 1	< 1	< 1	< 1
	4/7/2015	N/A	< 1	< 1	7.86	< 1	< 1	< 1	< 1
	9/21/2015	N/A	< 1	< 10	7.64	< 10	< 1	N/A	N/A
	3/29/2016	N/A	N/A	< 1	5.31	< 1	< 1	< 1	N/A
	7/13/2016	N/A	< 1	< 1	N/A	N/A	N/A	< 1	< 1
	4/4/2017	N/A	N/A	< 1	4.52	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	< 1	4.06	< 1	< 1	< 1	< 1
	3/6/2018	N/A	< 1	< 1	4.4	< 1	< 1	< 1	< 1
	8/8/2018	N/A	< 1	< 1	2.66	< 1	< 1	< 1	< 1
	3/19/2019	N/A	< 1	< 10	2.29	< 1	< 1	N/A	< 1
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2019	N/A	< 1	< 1	1.88	< 1	< 1	< 1	< 1
	3/3/2020	N/A	< 1	< 1	2.3	< 1	< 1	< 1	< 1
	3/3/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 1	< 1	2.13	< 1	< 1	< 1	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/19/2021	N/A	< 1	< 10	0.792*	< 10	< 1	< 1	< 10
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	9/14/2021	N/A	< 1	< 1	0.72*	< 1	< 1	< 1	< 1
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	4/27/2022	N/A	< 1	< 1	0.656*	< 1	< 1	< 1	< 1
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	9/13/2022	N/A	< 1	< 1	0.633*	< 1	< 1	< 1	< 1
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	3/21/2023	N/A	< 1	< 1	0.451*	< 1	< 1	< 1	< 1
	3/21/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 1	< 1	0.784*	< 1	< 1	< 1	< 1
	8/16/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 1	< 1	0.453*	< 1	N/A	< 1	< 1
	5/6/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	11/6/2024	N/A	< 1	< 1	0.62*	< 1	< 1	< 1	< 1
	11/6/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 1	< 1	N/A	< 1	N/A	< 1	< 1
	3/24/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 1	< 1	0.859*	< 1	N/A	< 1	< 1
	11/5/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Appendix I VOC Constituents									
trans-1,3-Dichloropropene, ug/L (CAS NO - 10061-02-6)	3/5/2014	N/A	< 5	< 5	< 5	N/A	< 5	< 5	N/A
	10/28/2014	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	4/7/2015	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/21/2015	N/A	< 5	< 50	< 5	< 50	< 5	N/A	N/A
	3/29/2016	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A
	7/13/2016	N/A	< 5	< 5	N/A	N/A	N/A	< 5	< 5
	4/4/2017	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5
	9/19/2017	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/6/2018	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	8/8/2018	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/19/2019	N/A	< 5	< 50	< 5	< 5	< 5	N/A	< 5
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/28/2019	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/3/2020	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/3/2020	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	5/19/2021	N/A	< 5	< 50	< 5	< 50	< 5	< 5	< 50
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	9/14/2021	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	4/27/2022	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
	9/13/2022	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	3/21/2023	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	3/21/2023	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	8/16/2023	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	5/6/2024	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	11/6/2024	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	11/6/2024	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 5	< 5	N/A	< 5	N/A	< 5	< 5
	3/24/2025	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	11/5/2025	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
trans-1,4-Dichloro-2-Butene, ug/L (CAS NO - 110-57-6)	3/5/2014	N/A	< 10	< 10	< 10	N/A	< 10	< 10	N/A
	10/28/2014	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	4/7/2015	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/21/2015	N/A	< 10	< 100	< 10	< 100	< 10	N/A	N/A
	3/29/2016	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A
	7/13/2016	N/A	< 10	< 10	N/A	N/A	N/A	< 10	< 10
	4/4/2017	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10
	9/19/2017	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/6/2018	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	8/8/2018	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/19/2019	N/A	< 10	< 100	< 10	< 10	< 10	N/A	< 10
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	8/28/2019	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2020	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2020	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	5/19/2021	N/A	< 10	< 100	< 10	< 100	< 10	< 10	< 100
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	9/14/2021	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/27/2022	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/13/2022	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	3/21/2023	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/21/2023	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	8/16/2023	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	5/6/2024	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	11/6/2024	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	11/6/2024	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 10	< 10	N/A	< 10	N/A	< 10	< 10
	3/24/2025	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	11/5/2025	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Appendix I VOC Constituents									
Trichloroethene, ug/L (CAS NO - 79-01-6)	3/5/2014	N/A	< 1	< 1	80.7	N/A	< 1	< 1	N/A
	10/28/2014	N/A	< 1	< 1	99	< 1	< 1	< 1	< 1
	4/7/2015	N/A	< 1	< 1	66.9	< 1	< 1	< 1	< 1
	9/21/2015	N/A	< 1	< 10	68.1	< 10	< 1	N/A	N/A
	3/29/2016	N/A	N/A	< 1	51.9	< 1	< 1	< 1	N/A
	7/13/2016	N/A	< 1	< 1	N/A	N/A	N/A	< 1	< 1
	4/4/2017	N/A	N/A	< 1	41.2	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	< 1	43.4	< 1	< 1	< 1	< 1
	3/6/2018	N/A	< 1	< 1	46.5	< 1	< 1	< 1	< 1
	8/8/2018	N/A	< 1	< 1	27.2	< 1	< 1	< 1	< 1
	3/19/2019	N/A	< 1	6.41*	26.7	< 1	< 1	N/A	< 1
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2019	N/A	< 1	< 1	17.4	< 1	< 1	< 1	< 1
	3/3/2020	N/A	< 1	< 1	27.5	< 1	< 1	< 1	< 1
	3/3/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 1	< 1	23.8	< 1	< 1	< 1	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/19/2021	N/A	< 1	< 10	8.58	< 10	< 1	< 1	< 10
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	9/14/2021	N/A	< 1	< 1	10.9	< 1	< 1	< 1	< 1
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	4/27/2022	N/A	< 1	< 1	9.56	< 1	< 1	< 1	< 1
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	9/13/2022	N/A	< 1	< 1	7.14	< 1	< 1	< 1	< 1
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	3/21/2023	N/A	< 1	< 1	5.99	< 1	< 1	< 1	< 1
	3/21/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 1	< 1	15.9	< 1	< 1	< 1	< 1
	8/16/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 1	< 1	12	< 1	N/A	< 1	< 1
	5/6/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	11/6/2024	N/A	< 1	< 1	16	< 1	< 1	< 1	< 1
	11/6/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 1	< 1	N/A	< 1	N/A	< 1	< 1
	3/24/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 1	< 1	21.9	< 1	N/A	< 1	< 1
	11/5/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
Trichlorofluoromethane, ug/L (CAS NO - 75-69-4)	3/5/2014	N/A	< 4	< 4	< 4	N/A	< 4	< 4	N/A
	10/28/2014	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	4/7/2015	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	9/21/2015	N/A	< 4	< 40	< 4	< 40	< 4	N/A	N/A
	3/29/2016	N/A	N/A	< 4	< 4	< 4	< 4	< 4	N/A
	7/13/2016	N/A	< 4	< 4	N/A	N/A	N/A	< 4	< 4
	4/4/2017	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4
	9/19/2017	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	3/6/2018	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	8/8/2018	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	3/19/2019	N/A	< 4	< 40	< 4	< 4	< 4	N/A	< 4
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	8/28/2019	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	3/3/2020	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	3/3/2020	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	5/19/2021	N/A	< 4	< 40	< 4	< 40	< 4	< 4	< 40
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	9/14/2021	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4
	4/27/2022	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4
	9/13/2022	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A
	3/21/2023	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	3/21/2023	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	8/16/2023	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 4	< 4	< 4	< 4	N/A	< 4	< 4
	5/6/2024	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	11/6/2024	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	11/6/2024	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 4	< 4	N/A	< 4	N/A	< 4	< 4
	3/24/2025	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 4	< 4	< 4	< 4	N/A	< 4	< 4
	11/5/2025	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Appendix I VOC Constituents									
Vinyl Acetate, ug/L (CAS NO - 108-05-4)	3/5/2014	N/A	< 2	< 2	< 2	N/A	< 2	< 2	N/A
	10/28/2014	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	4/7/2015	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/21/2015	N/A	< 10	< 100	< 10	< 100	< 10	N/A	N/A
	3/29/2016	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A
	7/13/2016	N/A	< 10	< 10	N/A	N/A	N/A	< 10	< 10
	4/4/2017	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10
	9/19/2017	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/6/2018	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	8/8/2018	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/19/2019	N/A	< 10	< 100	< 10	< 10	< 10	N/A	< 10
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	8/28/2019	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2020	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2020	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	5/19/2021	N/A	< 10	< 100	< 10	< 100	< 10	< 10	< 100
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	9/14/2021	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	4/27/2022	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	9/13/2022	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	3/21/2023	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	3/21/2023	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	8/16/2023	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	5/6/2024	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	11/6/2024	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	11/6/2024	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 10	< 10	N/A	< 10	N/A	< 10	< 10
	3/24/2025	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	11/5/2025	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	3/5/2014	N/A	< 1	< 1	3.39	N/A	< 1	0.235*	N/A
	10/28/2014	N/A	< 1	< 1	7.22	< 1	< 1	< 1	< 1
	4/7/2015	N/A	< 1	< 1	2.12	< 1	< 1	< 1	< 1
	9/21/2015	N/A	< 1	< 10	1.28	< 10	< 1	N/A	N/A
	3/29/2016	N/A	N/A	< 1	0.737*	< 1	< 1	< 1	N/A
	7/13/2016	N/A	< 1	< 1	N/A	N/A	N/A	< 1	< 1
	4/4/2017	N/A	N/A	< 1	0.954*	< 1	< 1	< 1	< 1
	9/19/2017	N/A	< 1	< 1	0.37*	< 1	< 1	< 1	< 1
	3/6/2018	N/A	< 1	< 1	4.13	< 1	< 1	< 1	0.186*
	8/8/2018	N/A	< 1	< 1	0.874*	< 1	< 1	< 1	< 1
	3/19/2019	N/A	< 1	< 10	< 1	< 1	< 1	N/A	< 1
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2019	N/A	< 1	< 1	0.608*	< 1	< 1	< 1	< 1
	3/3/2020	N/A	< 1	< 1	< 1	0.18*	< 1	< 1	< 1
	3/3/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	5/19/2021	N/A	< 1	< 10	< 1	< 10	< 1	< 1	< 10
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	9/14/2021	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.269*
	4/27/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.241*
	9/13/2022	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	3/21/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	3/21/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 1	< 1	< 1	< 1	< 1	< 1	0.335*
	8/16/2023	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 1	< 1	< 1	< 1	N/A	< 1	0.234*
	5/6/2024	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	11/6/2024	N/A	< 1	< 1	< 1	< 1	< 1	< 1	0.182*
	11/6/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 1	< 1	N/A	< 1	N/A	< 1	< 1
	3/24/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/5/2025	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A



Summary of Groundwater Chemistry
Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Appendix I VOC Constituents									
Xylenes, total, ug/L (CAS NO - 1330-20-7)	3/5/2014	N/A	< 3	0.883*	< 3	N/A	< 3	< 3	N/A
	10/28/2014	N/A	< 3	1.1*	< 3	< 3	< 3	< 3	< 3
	4/7/2015	N/A	< 3	1.27*	< 3	< 3	< 3	< 3	< 3
	9/21/2015	N/A	< 3	< 30	< 3	< 30	< 3	N/A	N/A
	3/29/2016	N/A	N/A	1.06*	< 3	< 3	< 3	0.165*	N/A
	7/13/2016	N/A	< 3	0.699*	N/A	N/A	N/A	< 3	< 3
	4/4/2017	N/A	N/A	0.764*	0.164*	< 3	< 3	0.148*	< 3
	9/19/2017	N/A	0.26*	0.638*	< 3	< 3	< 3	< 3	< 3
	3/6/2018	N/A	0.134*	0.808*	< 3	< 3	< 3	0.163*	< 3
	8/8/2018	N/A	< 3	0.566*	< 3	< 3	< 3	< 3	< 3
	3/19/2019	N/A	< 3	8.75*	< 3	< 3	< 3	N/A	< 3
	3/28/2019	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	8/28/2019	N/A	< 3	0.913*	< 3	< 3	< 3	< 3	< 3
	3/3/2020	N/A	< 3	0.821*	< 3	< 3	< 3	< 3	< 3
	3/3/2020	N/A	N/A	0.724*	N/A	N/A	N/A	N/A	N/A
	9/23/2020	N/A	< 3	0.924*	< 3	< 3	< 3	< 3	N/A
	9/23/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	5/19/2021	N/A	< 3	< 30	< 3	< 30	< 3	< 3	< 30
	5/19/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	9/14/2021	N/A	< 3	0.507*	< 3	< 3	< 3	< 3	< 3
	9/14/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3
	4/27/2022	N/A	< 3	0.554*	< 3	< 3	< 3	< 3	< 3
	4/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3
	9/13/2022	N/A	< 3	0.691*	< 3	< 3	< 3	< 3	< 3
	9/13/2022	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A
	3/21/2023	N/A	< 3	0.57*	< 3	< 3	< 3	< 3	< 3
	3/21/2023	N/A	N/A	0.519*	N/A	N/A	N/A	N/A	N/A
	8/16/2023	N/A	< 3	0.572*	< 3	< 3	< 3	< 3	< 3
	8/16/2023	N/A	N/A	0.557*	N/A	N/A	N/A	N/A	N/A
	5/6/2024	N/A	< 3	0.566*	< 3	< 3	N/A	< 3	< 3
	5/6/2024	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
	11/6/2024	N/A	< 3	0.601*	< 3	< 3	< 3	< 3	< 3
	11/6/2024	N/A	N/A	0.607*	N/A	N/A	N/A	N/A	N/A
	3/24/2025	N/A	< 3	0.405*	N/A	< 3	N/A	< 3	< 3
	3/24/2025	N/A	N/A	0.432*	N/A	N/A	N/A	N/A	N/A
	11/5/2025	N/A	< 3	< 3	< 3	< 3	N/A	< 3	< 3
	11/5/2025	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.
Denotes Confirmed Outlier. Statistically Excluded.

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.

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Summary of Groundwater Chemistry

Clinton County Sanitary Landfill - 23-SDP-01-74P - East North

Other Constituents	Sample Date	MW-06-6R UPG	MW-06-7R UPG	MW-03-16 DNG	MW-90-5 DNG	MW-90-13 DNG	MW-90-15R DNG	PZ-R3 DNG	PZ-R4 DNG
Phenol, mg/L (CAS NO - 108-95-2)	10/28/2014	< 0.018	< 0.018	0.00809*	< 0.0188	< 0.02	< 0.02	< 0.0192	< 0.0196
	9/21/2015	< 0.02	< 0.0184	< 0.0196	< 0.0208	< 0.018	< 0.0184	< 0.018	< 0.0192
	7/13/2016	< 0.02	< 0.02	0.00656*	< 0.02	0.00656*	< 0.02	< 0.02	< 0.02
	4/4/2017	N/A	N/A	< 0.0188	N/A	N/A	N/A	0.0387	< 0.0188
	9/19/2017	0.0512	< 0.0196	< 0.02	< 0.0204	0.0187	< 0.0196	< 0.02	< 0.0204
	3/6/2018	N/A	N/A	< 0.0188	N/A	N/A	N/A	< 0.0184	< 0.018
	8/8/2018	< 0.02	< 0.02	< 0.0192	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Sulfide, mg/L (CAS NO - 18496-25-8)	3/5/2014	N/A	0.274*	N/A	N/A	N/A	N/A	N/A	N/A
	10/28/2014	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/7/2015	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	9/21/2015	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	7/13/2016	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.

Denotes Confirmed Outlier. Statistically Excluded.

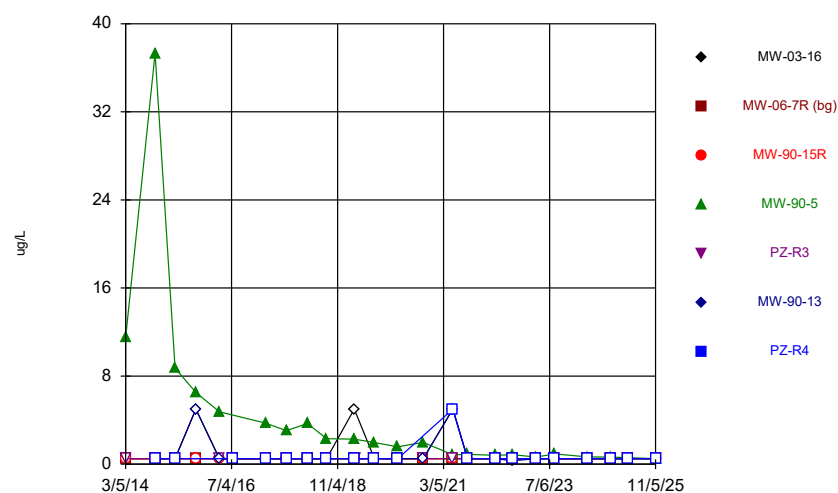
Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.



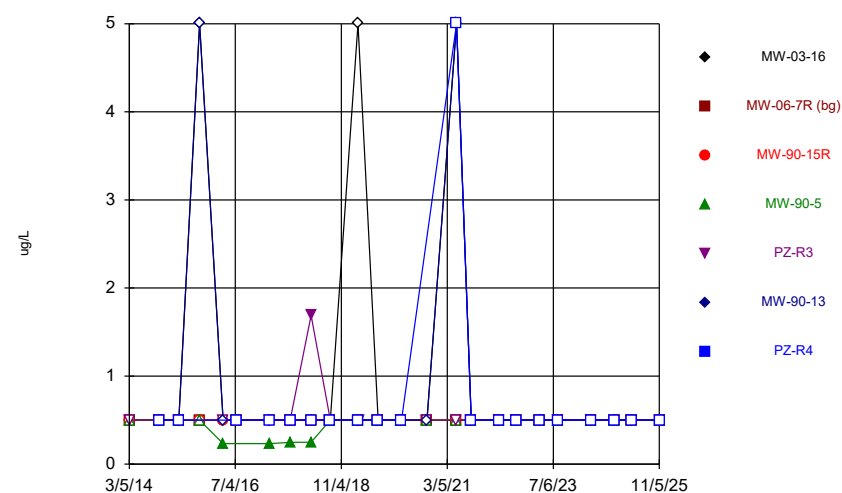
Appendix D

Time Series Graphs

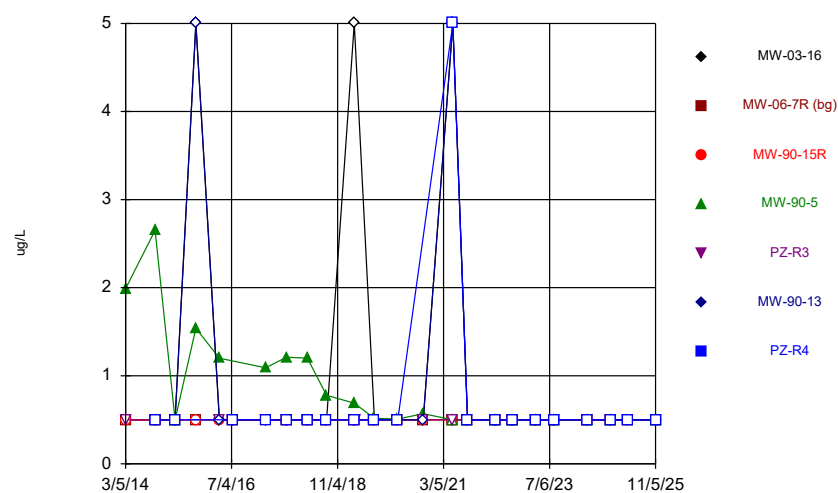
Time Series



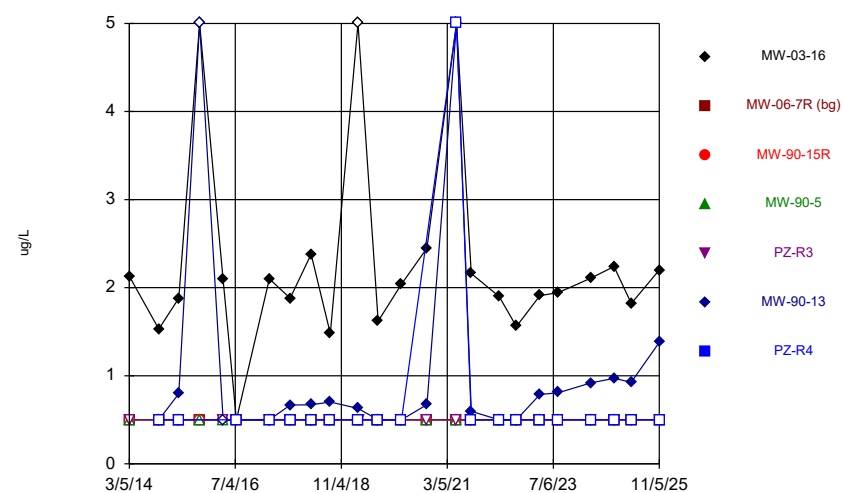
Time Series



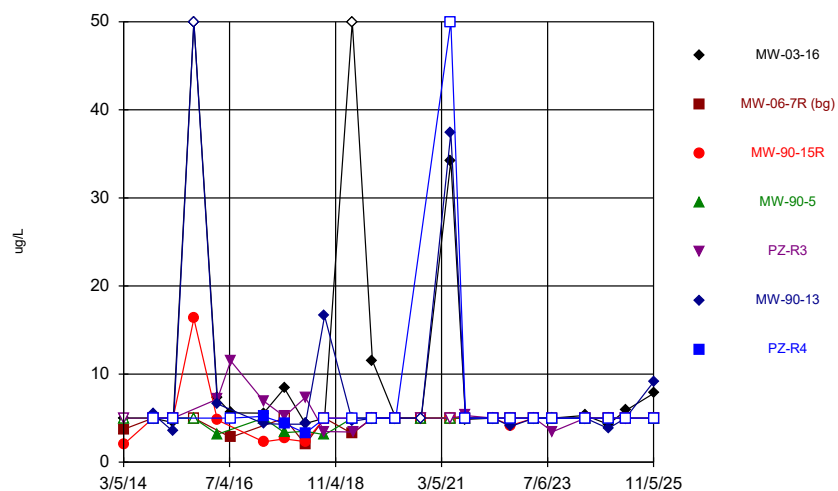
Time Series



Time Series

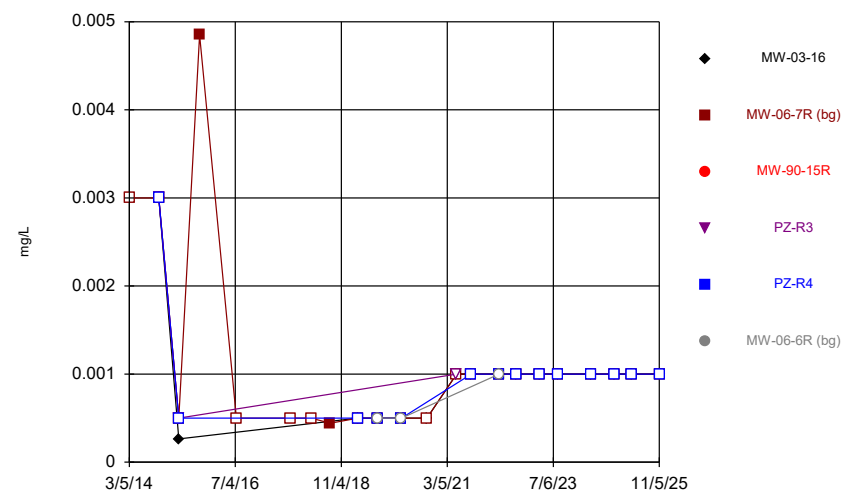


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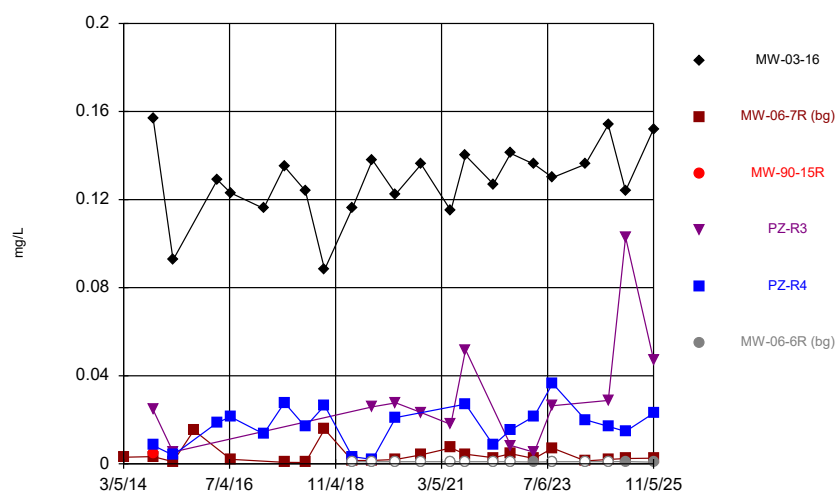
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Clinton County SLF Client: SCS Engineers Data: 23-SDP-01-74 dbo CCASW EN

Time Series



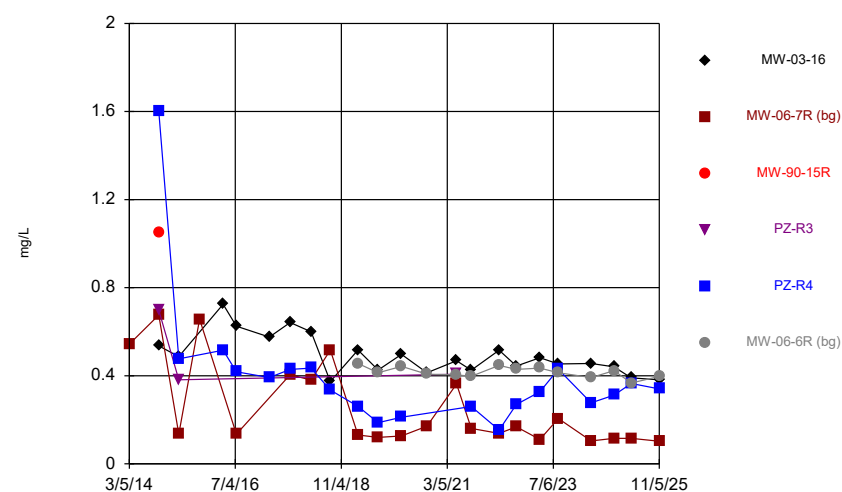
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Clinton County SLF Client: SCS Engineers Data: 23-SDP-01-74 dbo CCASW EN

Time Series



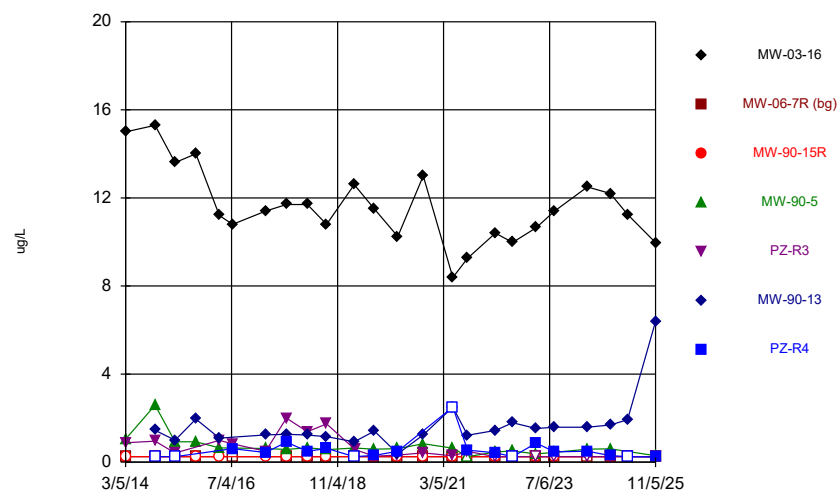
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Time Series



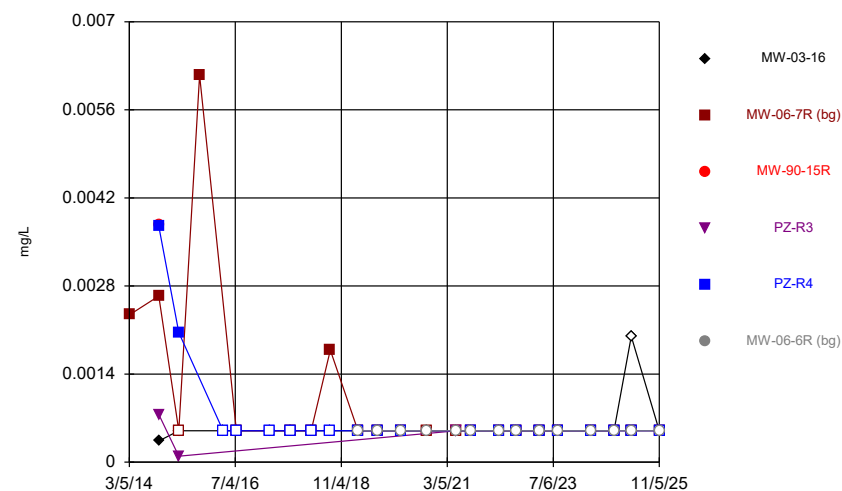
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Time Series



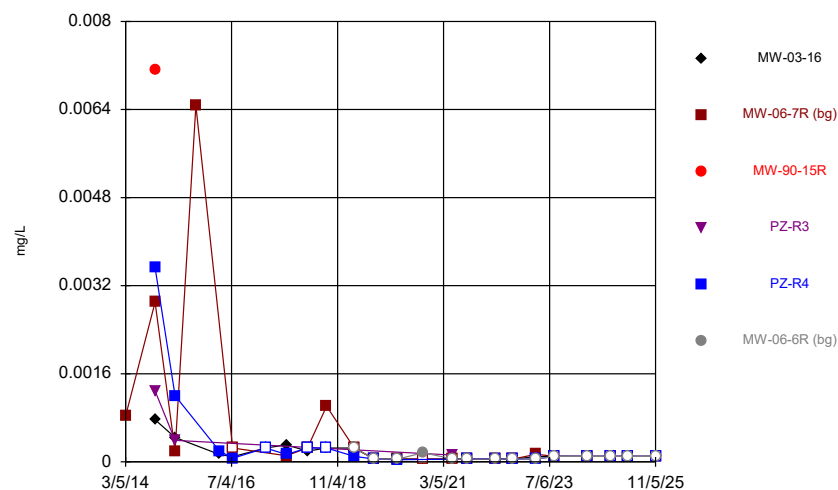
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Clinton County SLF Client: SCS Engineers Data: 23-SDP-01-74 dbo CCASW EN

Time Series



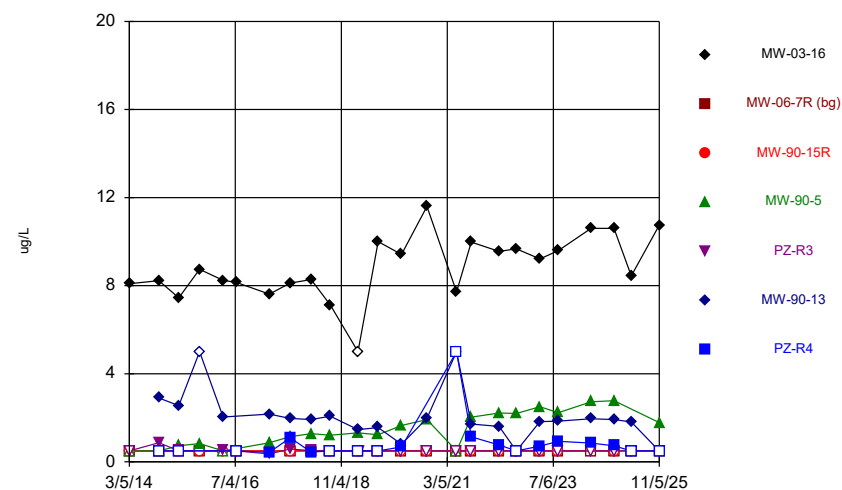
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Time Series



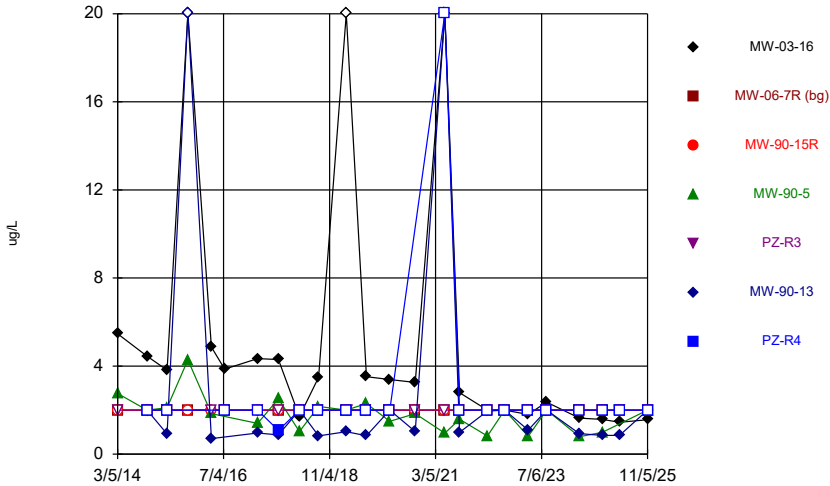
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Time Series



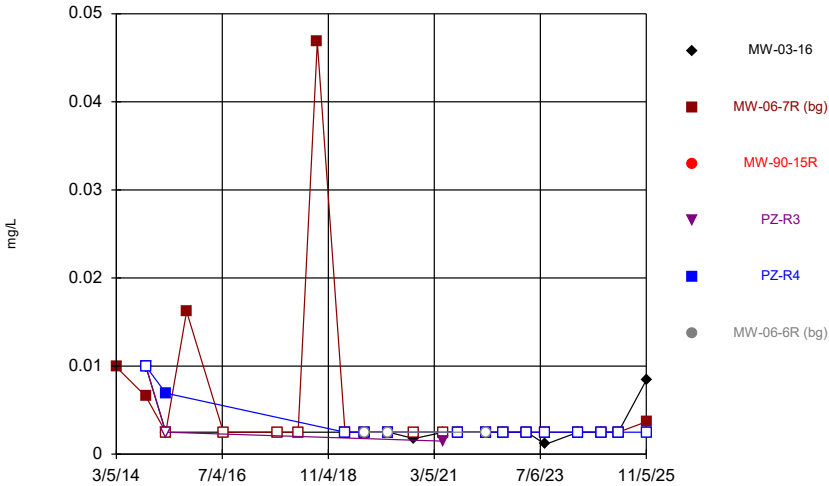
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Time Series



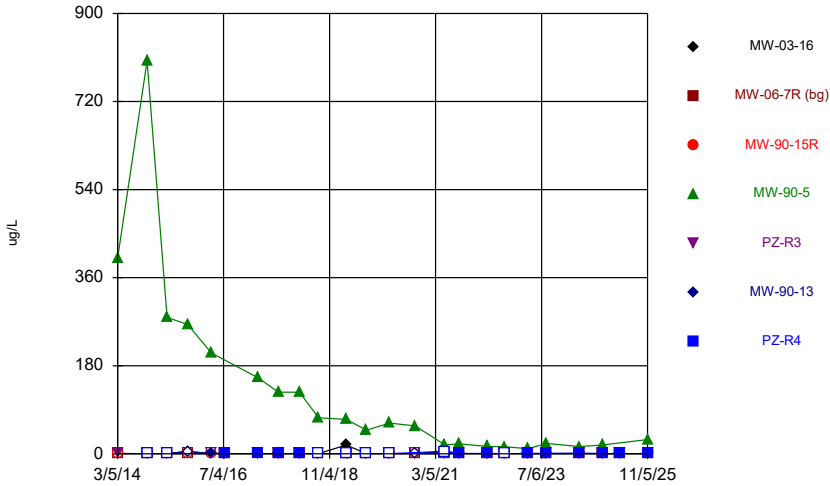
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Time Series



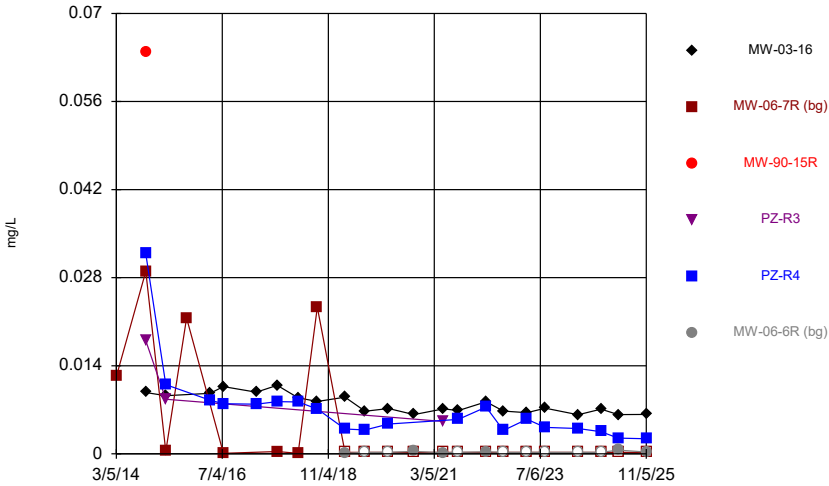
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Time Series



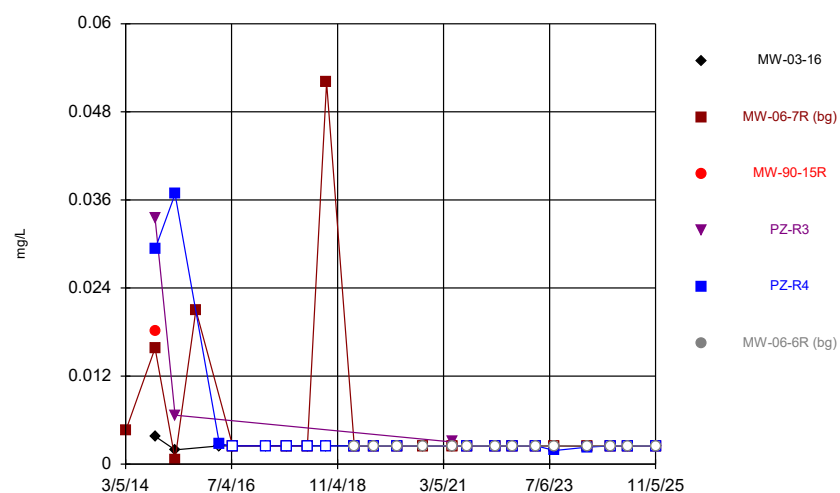
Constituent: cis-1,2-Dichloroethene Analysis Run 11/25/2025 8:50 AM View: 2025AWQR-Time_Series
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Time Series



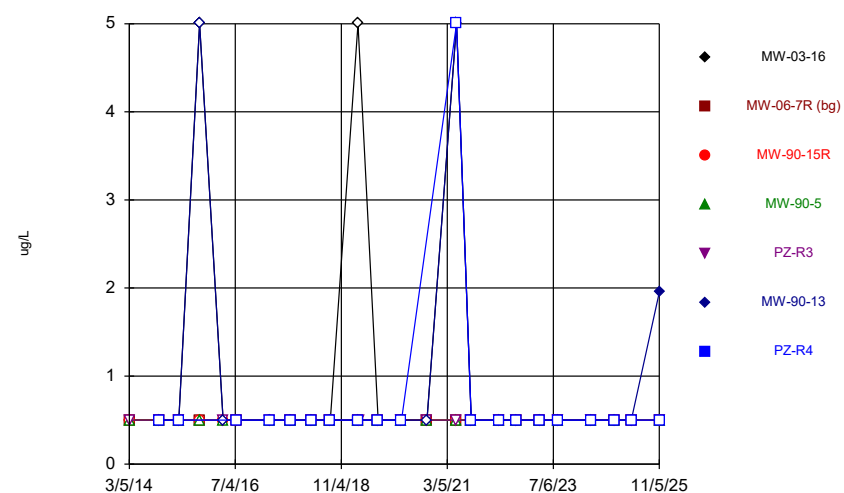
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Time Series



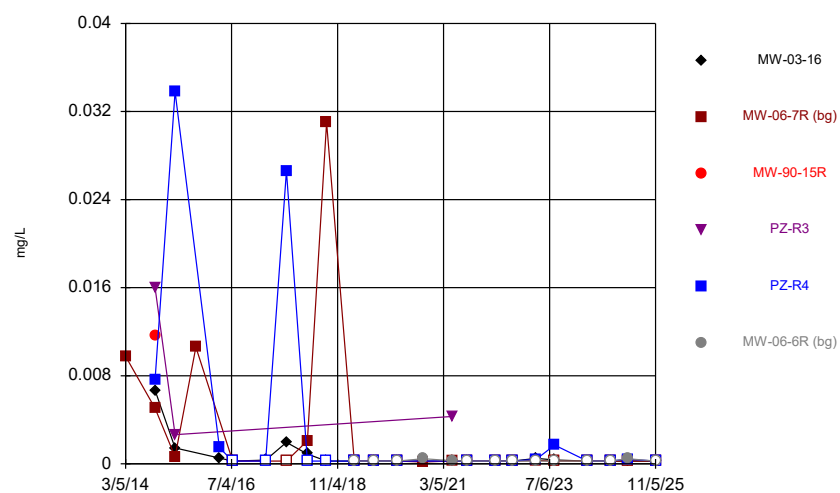
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Time Series



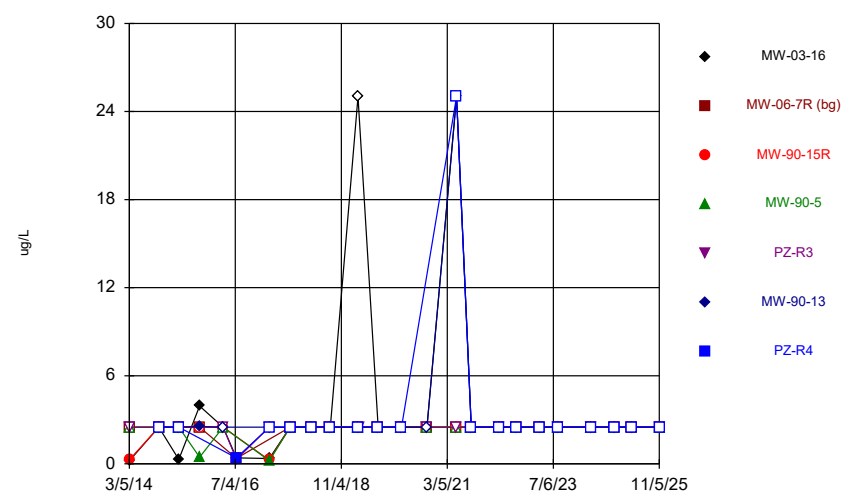
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Time Series



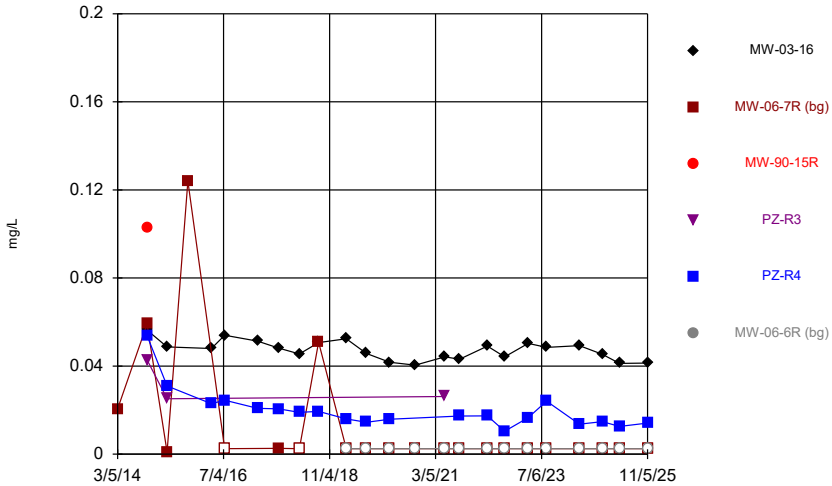
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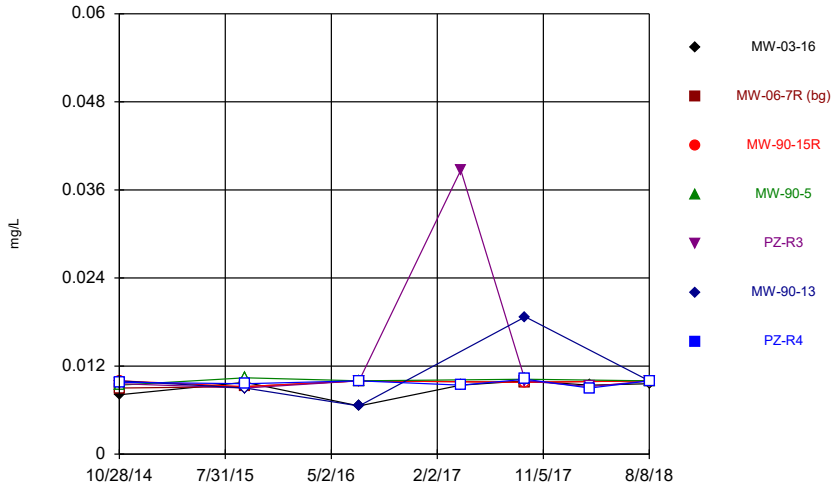
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Time Series



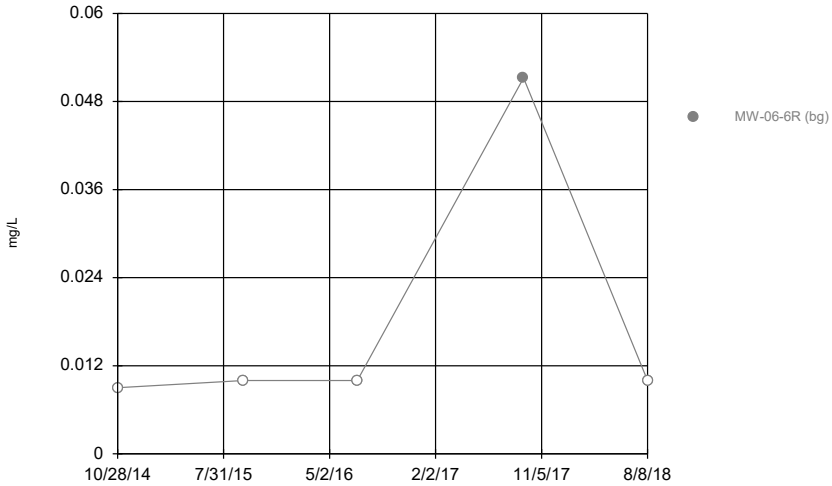
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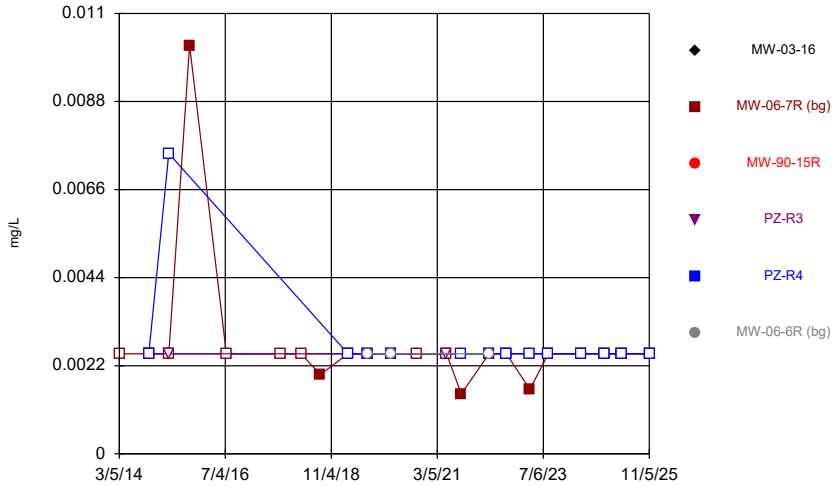
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Time Series



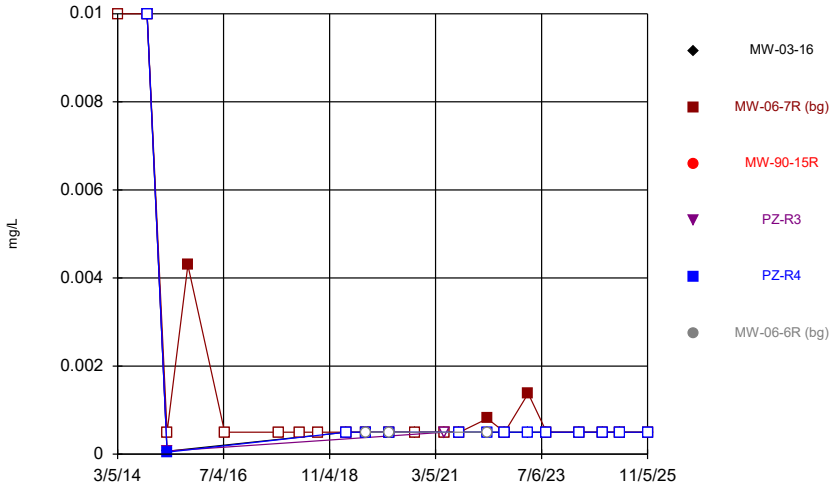
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Time Series



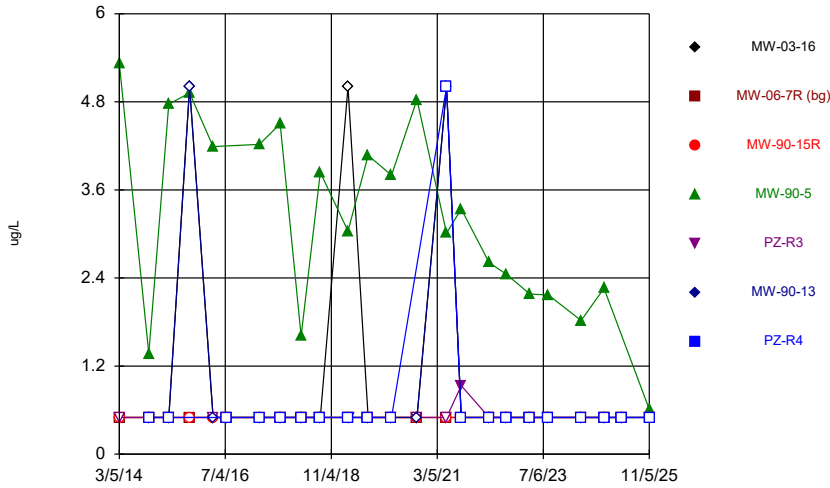
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Time Series



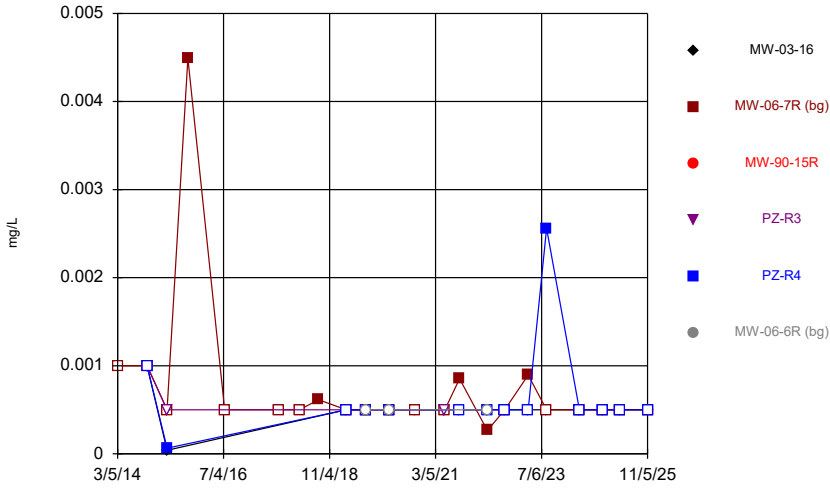
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Time Series



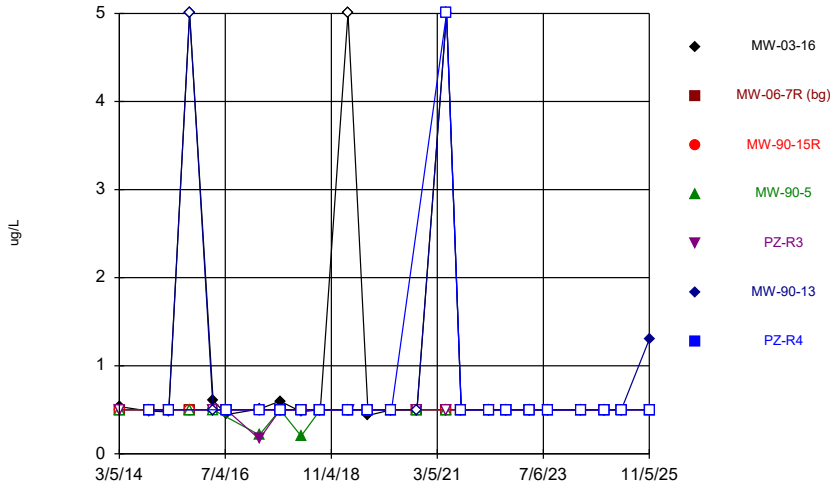
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Clinton County SLF Client: SCS Engineers Data: 23-SDP-01-74 dbo CCASW EN

Time Series



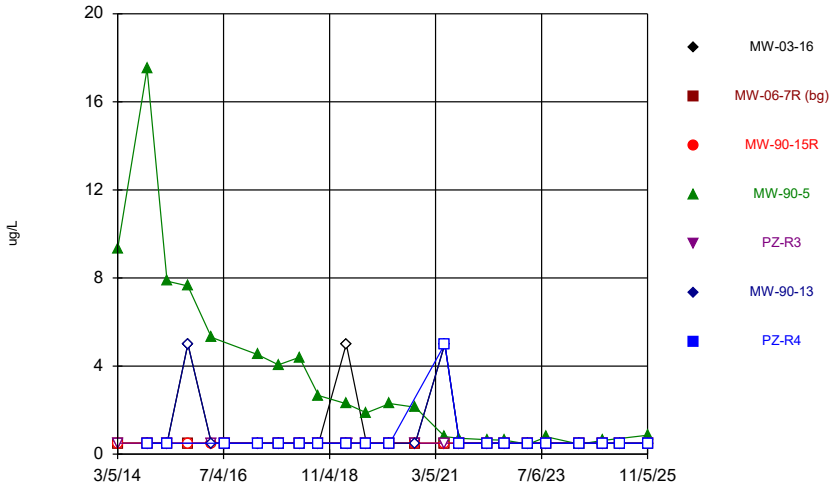
Constituent: Thallium Analysis Run 11/25/2025 8:50 AM View: 2025AWQR-Time_Series
Clinton County SLF Client: SCS Engineers Data: 23-SDP-01-74 dbo CCASW EN

Time Series

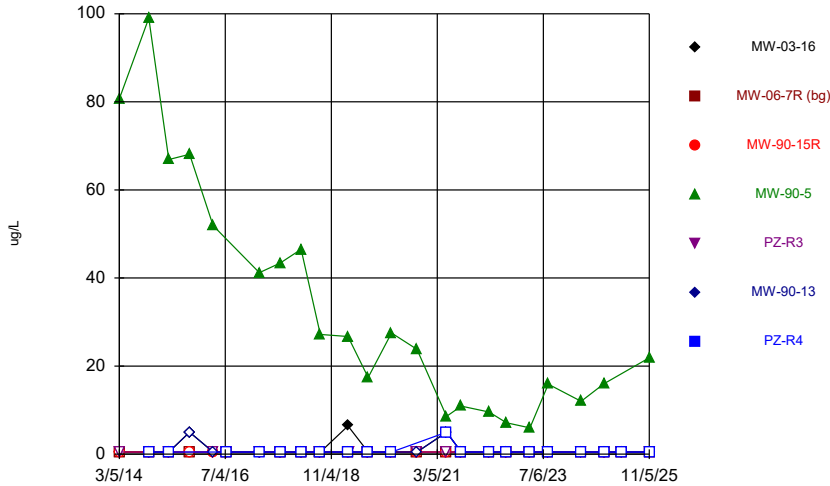


Constituent: Toluene Analysis Run 11/25/2025 8:50 AM View: 2025AWQR-Time_Series
Clinton County SLF Client: SCS Engineers Data: 23-SDP-01-74 dbo CCASW EN

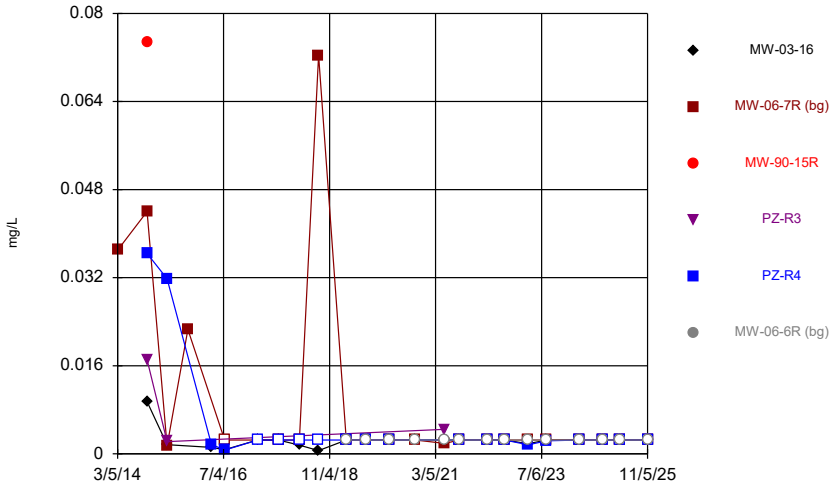
Time Series



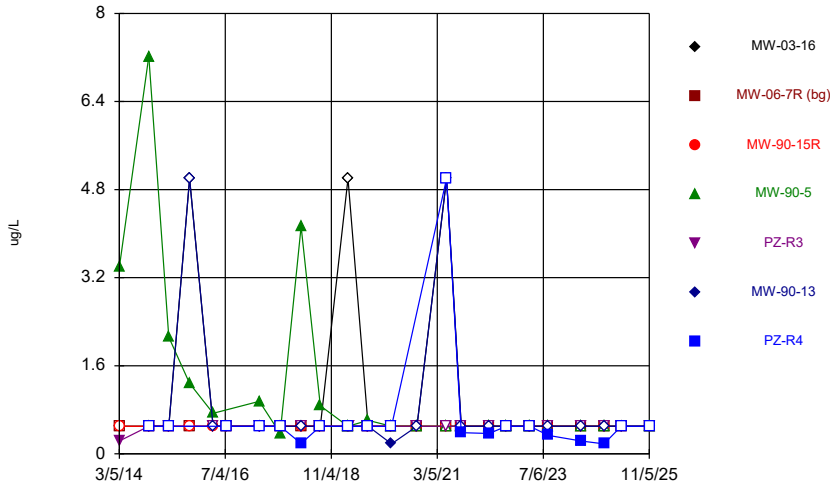
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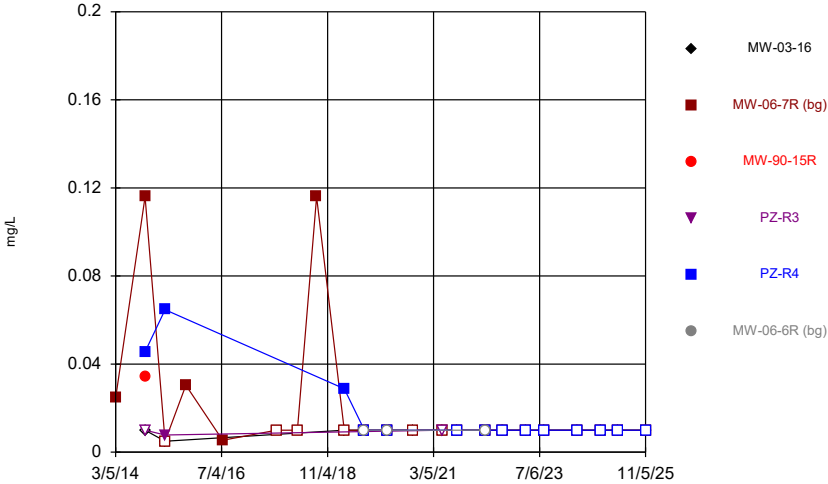
Time Series



Time Series



Time Series



Constituent: Zinc Analysis Run 11/25/2025 8:51 AM View: 2025AWQR-Time_Series
Clinton County SLF Client: SCS Engineers Data: 23-SDP-01-74 dbo CCASW EN

Appendix E

Mann-Kendall Summary Table and Graphs

Monitoring Well	Constituent Name	Calculated Statistic		
		Decreasing Trend	Stable Trend	Increasing Trend
MW-06-6R	Antimony		5	
	Barium	-18		
	Cobalt		4	
MW-06-7R	Arsenic		-6	
	Barium		-11	
	Cadmium		7	
	Silver		-9	
MW-90-5	Benzene		8	
	Chlorobenzene		10	
	cis-1,2-Dichloroethene		6	
	Tetrachloroethene	-22		
	Trichloroethene			14
MW-90-13	1,4-Dichlorobenzene			25
	Benzene			18
	Chlorobenzene		3	
	Ethylbenzene		7	
	Toluene		7	
MW-03-16	1,4-Dichlorobenzene			14
	Arsenic		5	
	Barium	-20		
	Benzene		4	
	Cadmium			13
	Chlorobenzene		9	
	Chromium		7	
	Cobalt		-12	
	Lead		-5	
	Nickel		-12	
PZ-R3	Arsenic		10	
PZ-R4	Arsenic		6	
	Barium			14
	Benzene		-11	
	cis-1,2-Dichloroethene		2	
	Cobalt	-22		
	Lead		2	
	Nickel		-6	
	Thallium		-1	

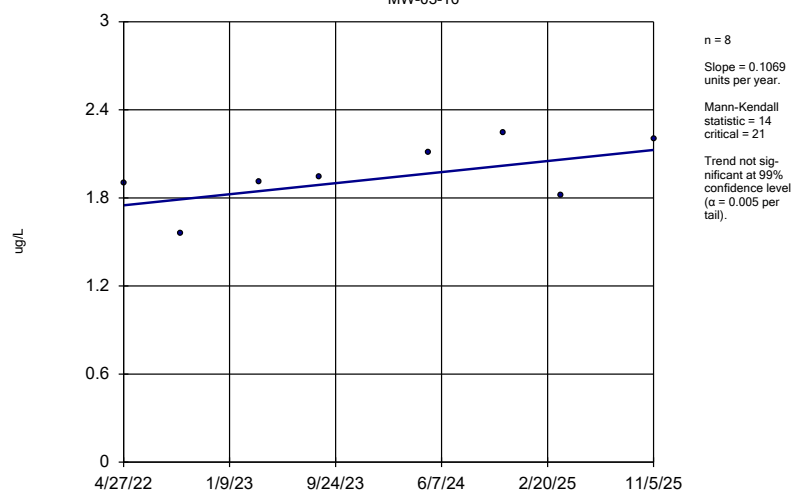
Trend Test

Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM Printed 11/25/2025, 10:29 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
1,4-Dichlorobenzene (ug/L)	MW-03-16	0.1069	14	21	No	8	0	0.01	NP
1,4-Dichlorobenzene (ug/L)	MW-90-13	0.1962	25	21	Yes	8	25	0.01	NP
Antimony (mg/L)	MW-06-6R (bg)	0.0002795	5	8	No	4	75	0.01	NP
Arsenic (mg/L)	MW-03-16	0.003967	5	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-06-7R (bg)	-0.0002027	-6	-21	No	8	0	0.01	NP
Arsenic (mg/L)	PZ-R3	0.009452	10	21	No	8	0	0.01	NP
Arsenic (mg/L)	PZ-R4	0.002071	6	21	No	8	0	0.01	NP
Barium (mg/L)	MW-03-16	-0.03167	-20	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-06-6R (bg)	-0.01936	-18	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-06-7R (bg)	-0.009304	-11	-21	No	8	0	0.01	NP
Barium (mg/L)	PZ-R4	0.03976	14	21	No	8	0	0.01	NP
Benzene (ug/L)	MW-03-16	0.2953	4	21	No	8	0	0.01	NP
Benzene (ug/L)	MW-90-5	0.05213	8	21	No	8	12.5	0.01	NP
Benzene (ug/L)	MW-90-13	0.1582	18	21	No	8	0	0.01	NP
Benzene (ug/L)	PZ-R4	-0.06156	-11	-21	No	8	25	0.01	NP
Cadmium (mg/L)	MW-03-16	0.00000487	13	21	No	8	75	0.01	NP
Cadmium (mg/L)	MW-06-7R (bg)	0	7	21	No	8	87.5	0.01	NP
Chlorobenzene (ug/L)	MW-03-16	0.313	9	21	No	8	0	0.01	NP
Chlorobenzene (ug/L)	MW-90-5	0.171	10	21	No	8	0	0.01	NP
Chlorobenzene (ug/L)	MW-90-13	0.05222	3	21	No	8	25	0.01	NP
Chromium (mg/L)	MW-03-16	0	7	21	No	8	75	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-90-5	1.449	6	21	No	8	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	PZ-R4	0.01351	2	21	No	8	12.5	0.01	NP
Cobalt (mg/L)	MW-03-16	-0.0003306	-12	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-06-6R (bg)	0	4	21	No	8	62.5	0.01	NP
Cobalt (mg/L)	PZ-R4	-0.001165	-22	-21	Yes	8	0	0.01	NP
Ethylbenzene (ug/L)	MW-90-13	0	7	21	No	8	87.5	0.01	NP
Lead (mg/L)	MW-03-16	0	-5	-21	No	8	75	0.01	NP
Lead (mg/L)	PZ-R4	0	2	21	No	8	62.5	0.01	NP
Nickel (mg/L)	MW-03-16	-0.002374	-12	-21	No	8	0	0.01	NP
Nickel (mg/L)	PZ-R4	-0.0009428	-6	-21	No	8	0	0.01	NP
Silver (mg/L)	MW-06-7R (bg)	0	-9	-21	No	8	75	0.01	NP
Tetrachloroethene (ug/L)	MW-90-5	-0.4812	-22	-21	Yes	8	0	0.01	NP
Thallium (mg/L)	PZ-R4	0	-1	-21	No	8	87.5	0.01	NP
Toluene (ug/L)	MW-90-13	0	7	21	No	8	87.5	0.01	NP
Trichloroethene (ug/L)	MW-90-5	2.675	14	21	No	8	0	0.01	NP

Sen's Slope Estimator

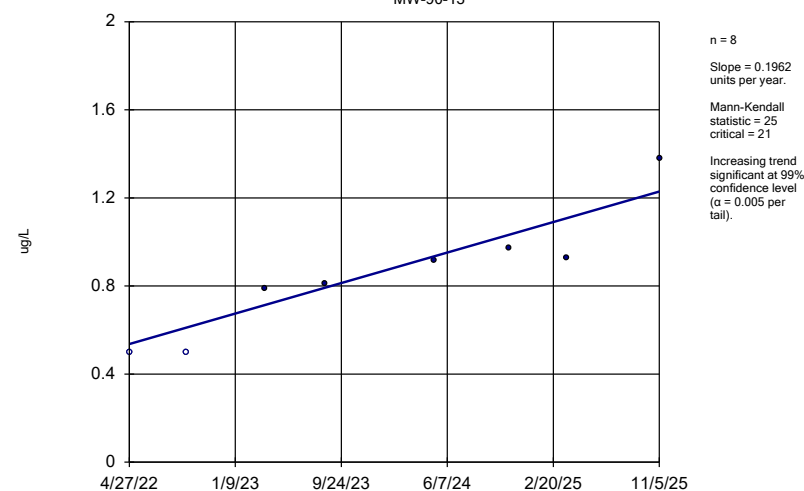
MW-03-16



Constituent: 1,4-Dichlorobenzene Analysis Run 11/25/2025 10:25 AM View: 2025_AWQR-Mann_Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM

Sen's Slope Estimator

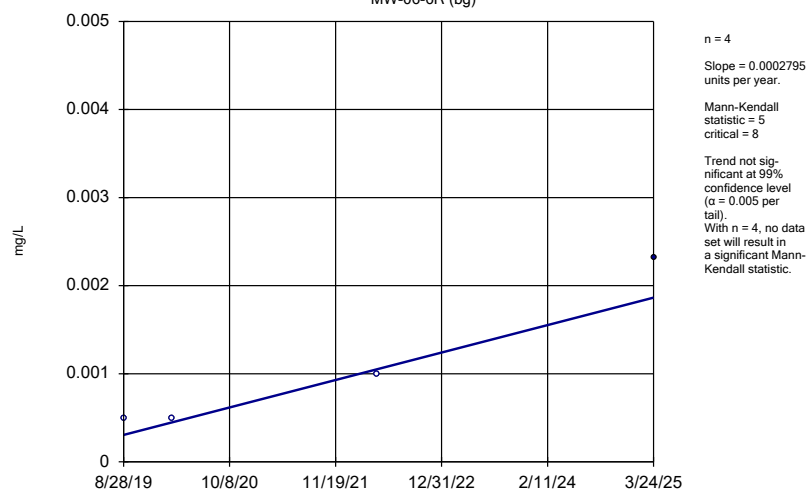
MW-90-13



Constituent: 1,4-Dichlorobenzene Analysis Run 11/25/2025 10:25 AM View: 2025_AWQR-Mann_Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM

Sen's Slope Estimator

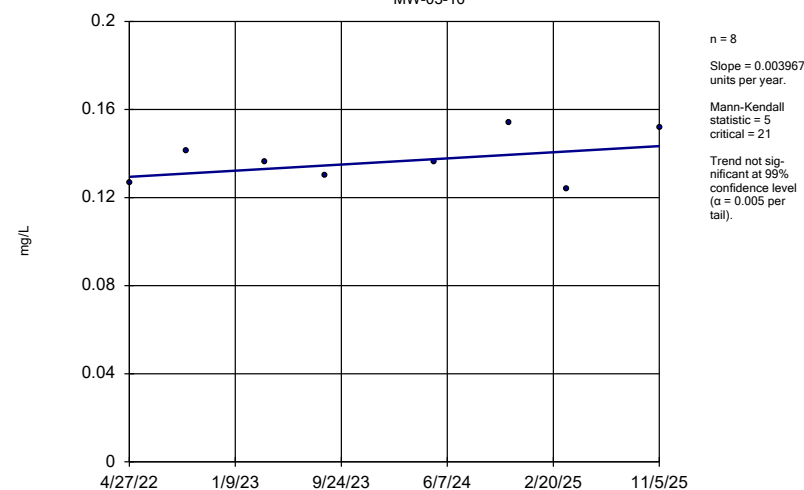
MW-06-6R (bg)



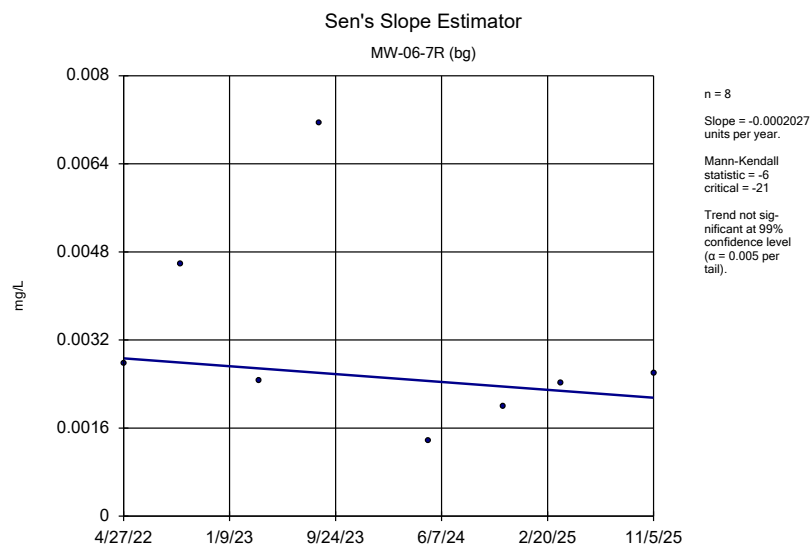
Constituent: Antimony Analysis Run 11/25/2025 10:25 AM View: 2025_AWQR-Mann_Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM

Sen's Slope Estimator

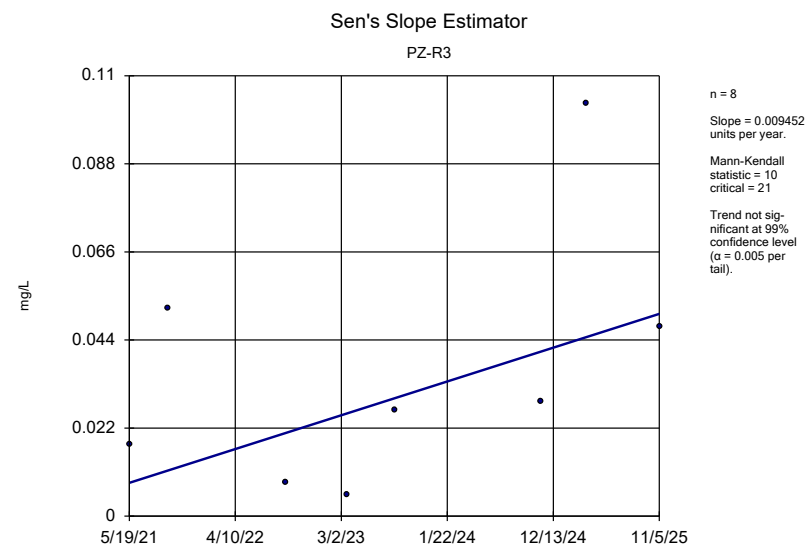
MW-03-16



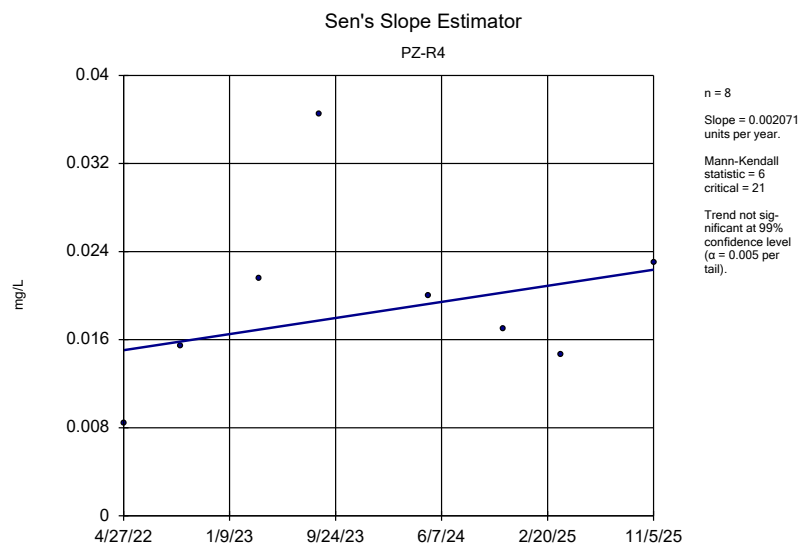
Constituent: Arsenic Analysis Run 11/25/2025 10:25 AM View: 2025_AWQR-Mann_Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM



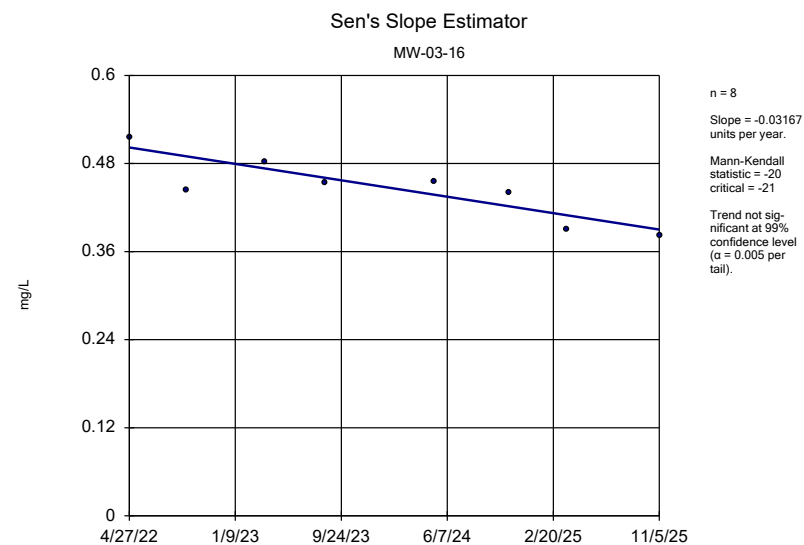
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Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM



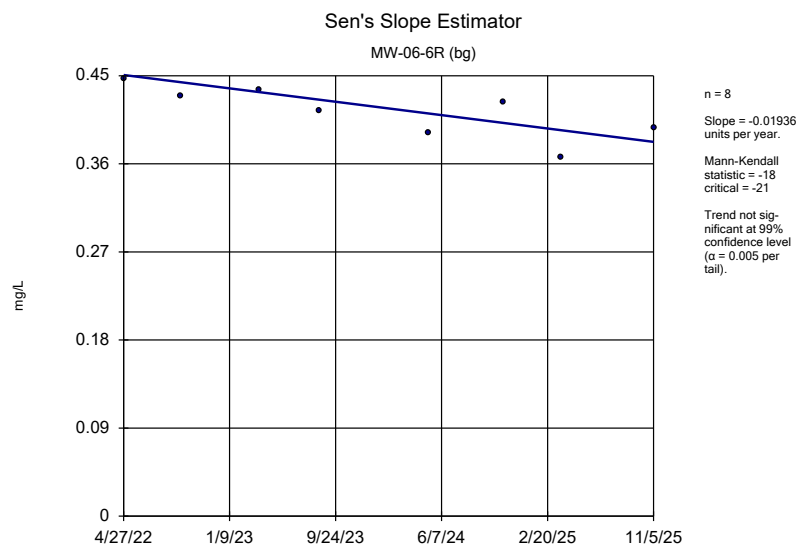
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Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM



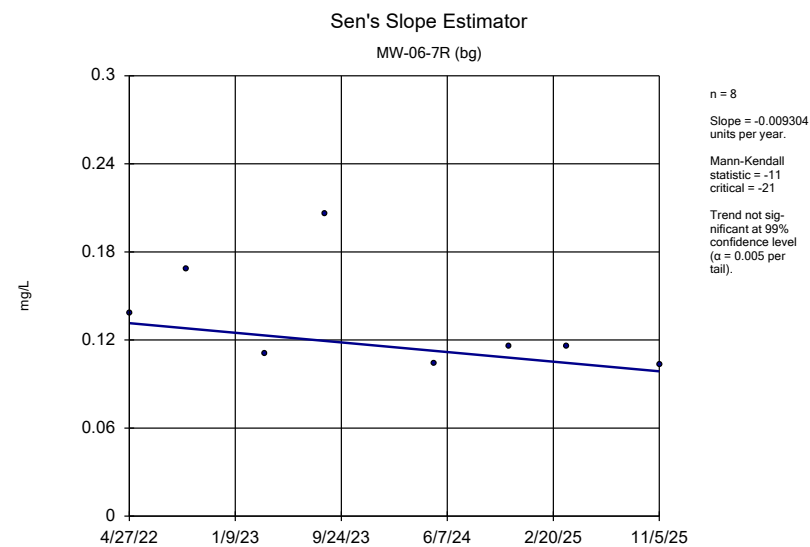
Constituent: Arsenic Analysis Run 11/25/2025 10:26 AM View: 2025_AWQR-Mann_Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM



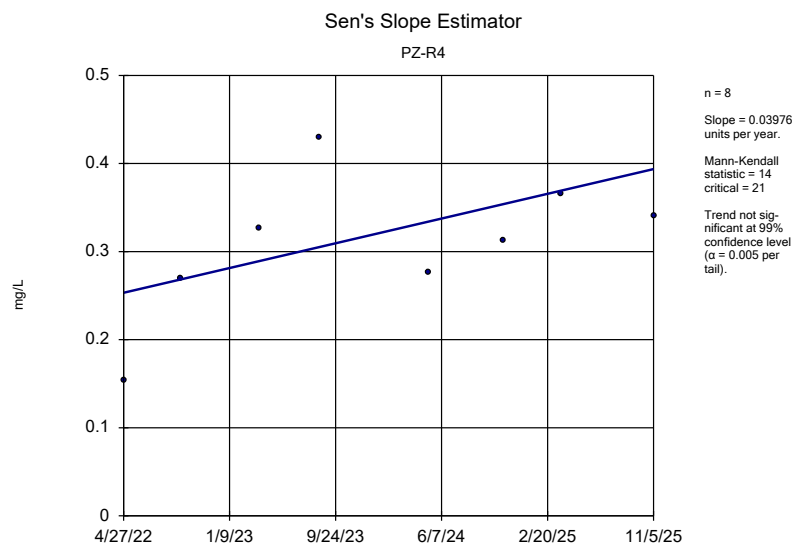
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Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM



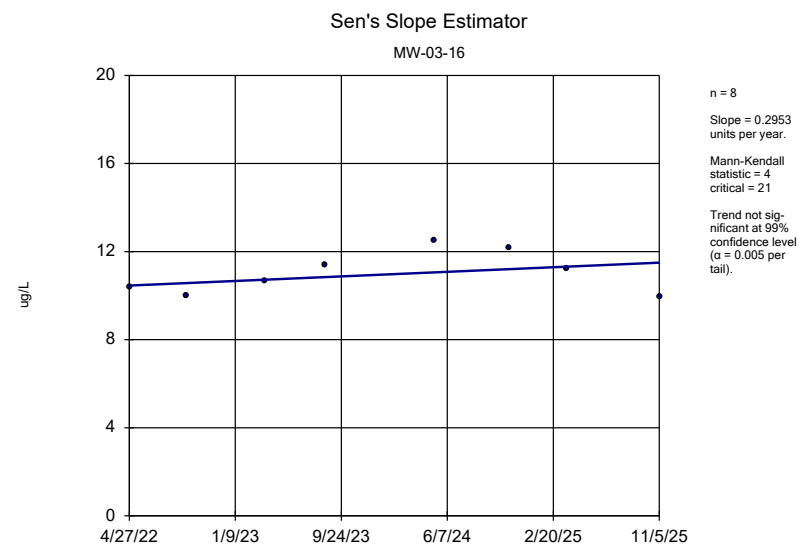
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Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM



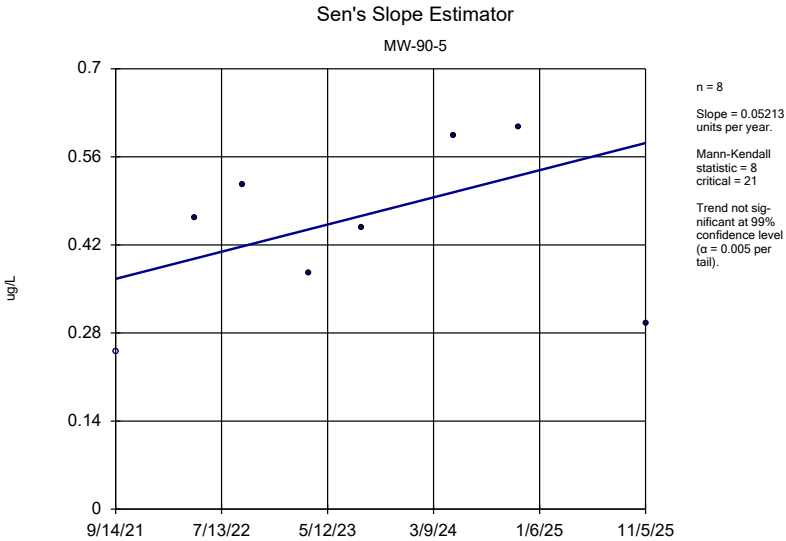
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Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM



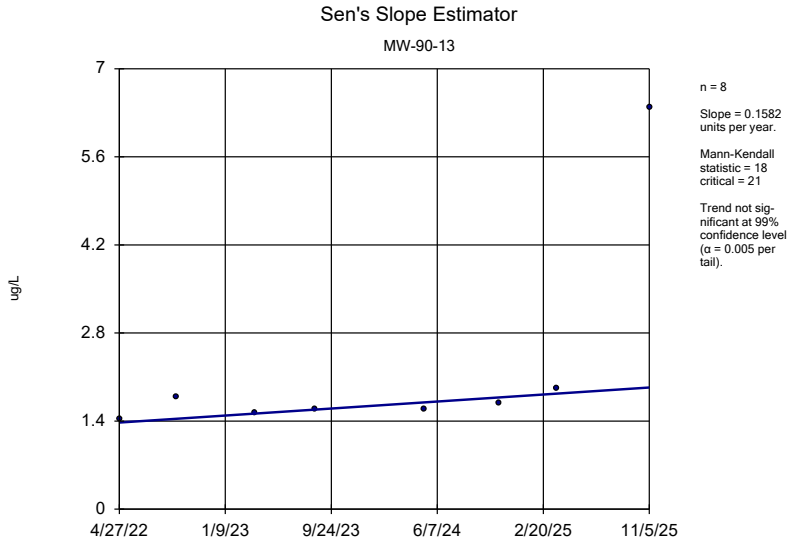
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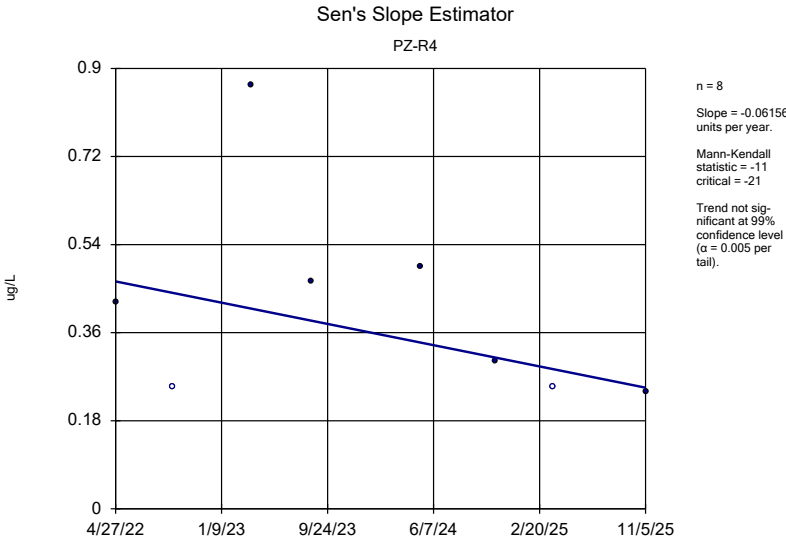
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Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM



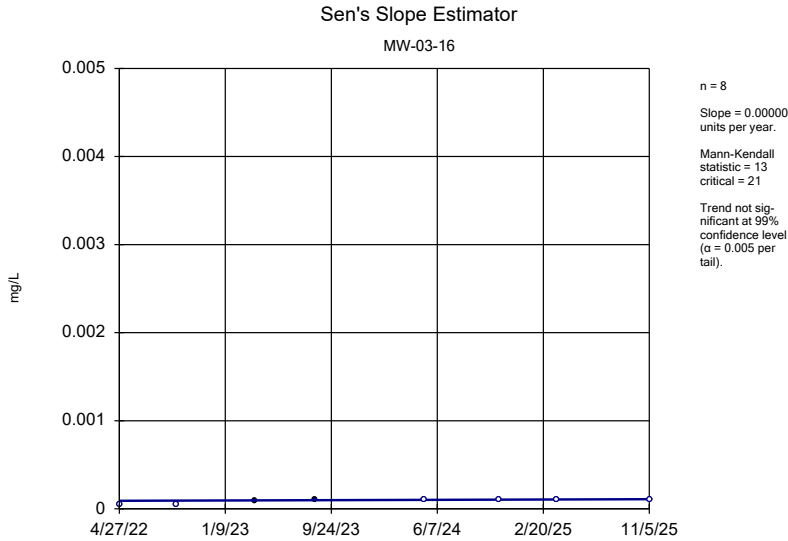
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Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM



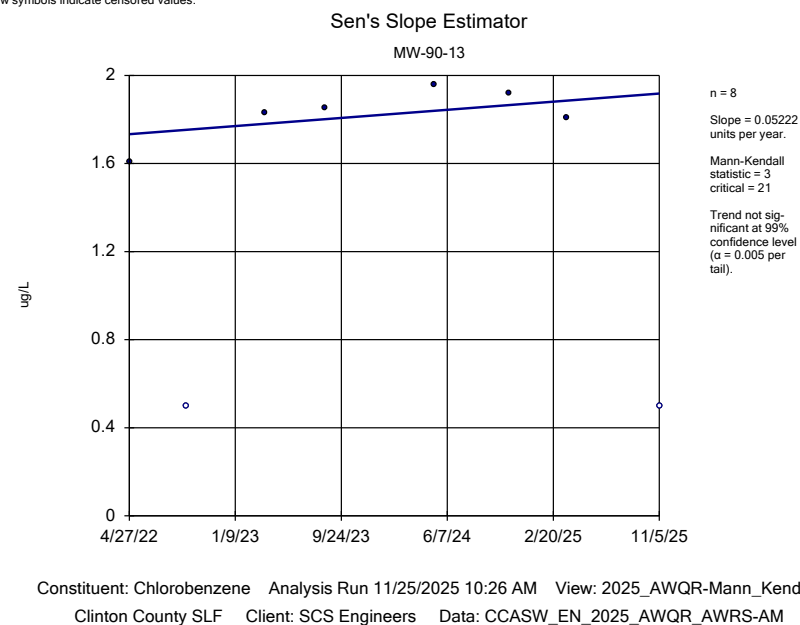
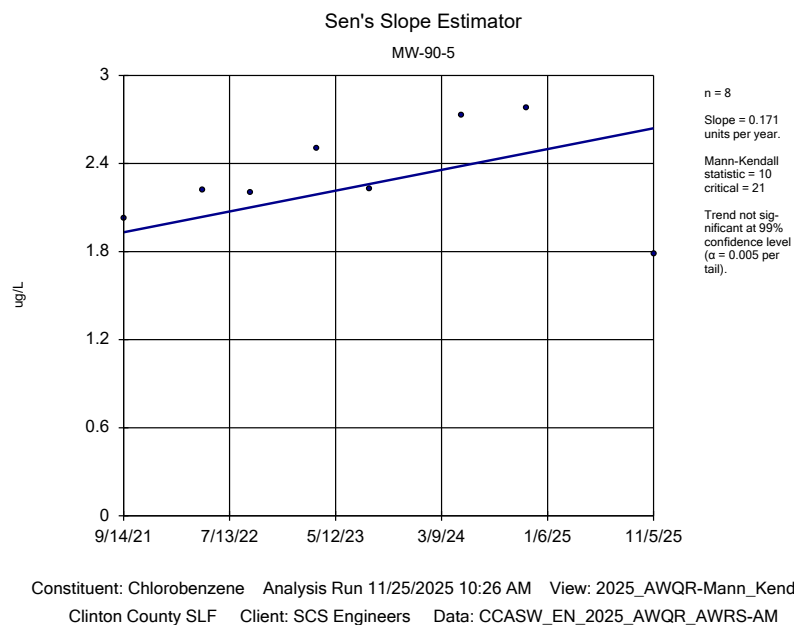
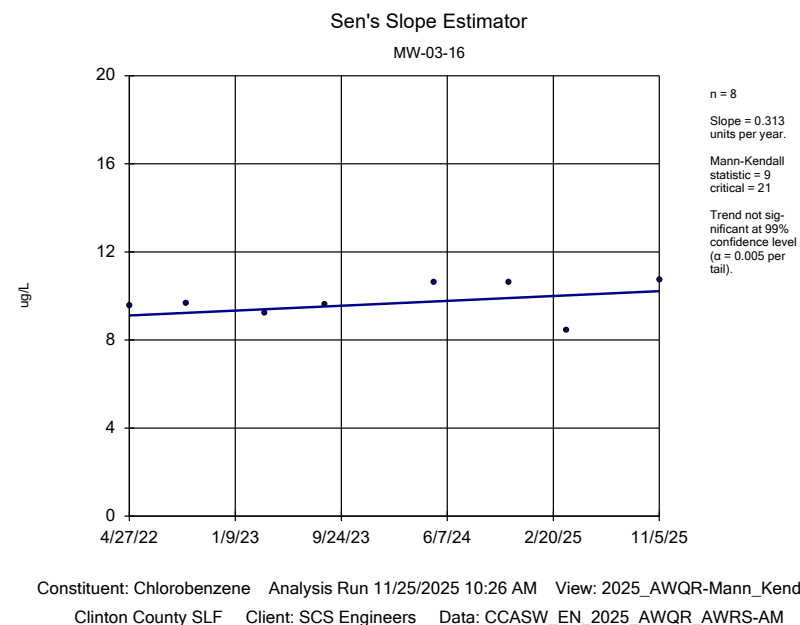
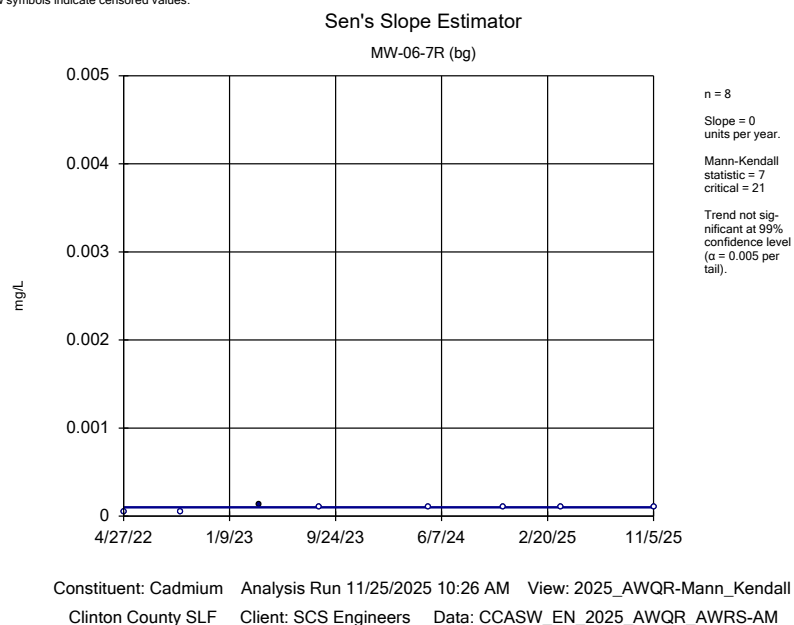
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Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM

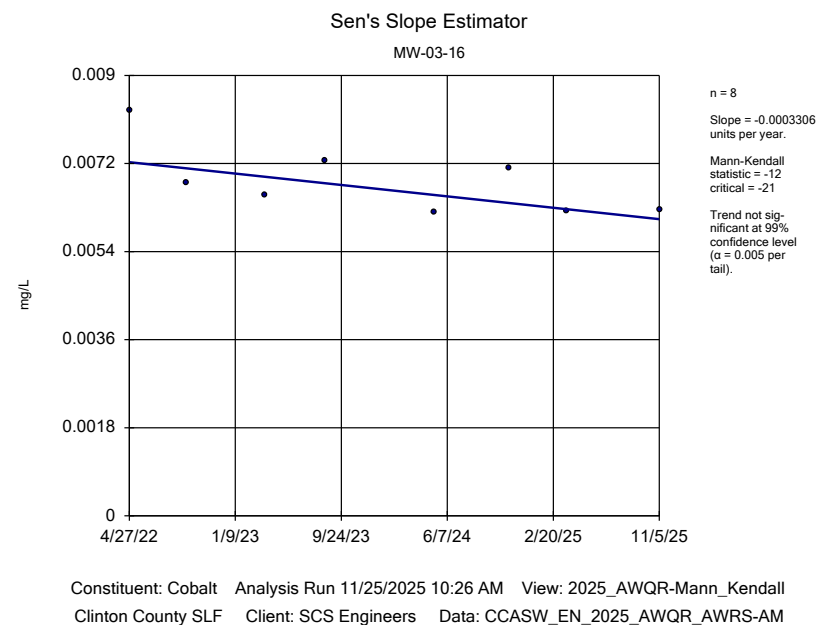
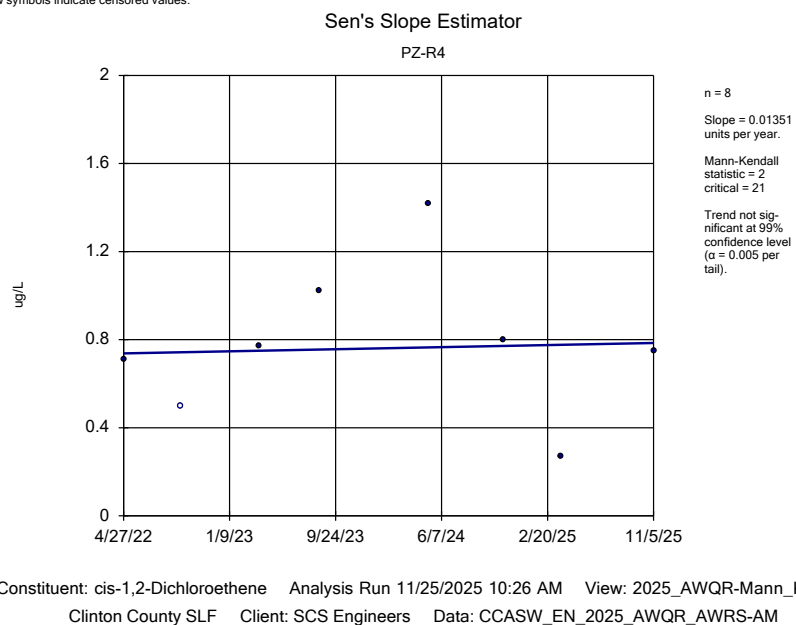
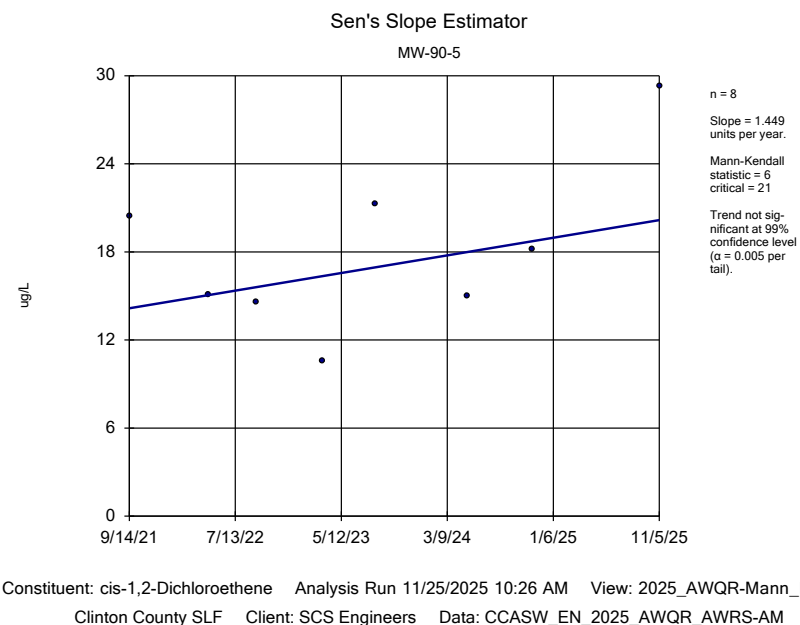
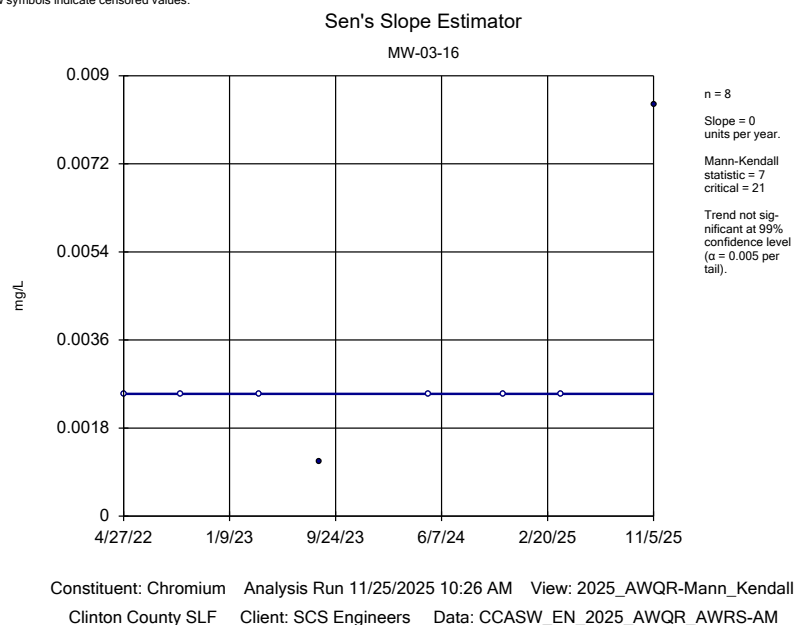


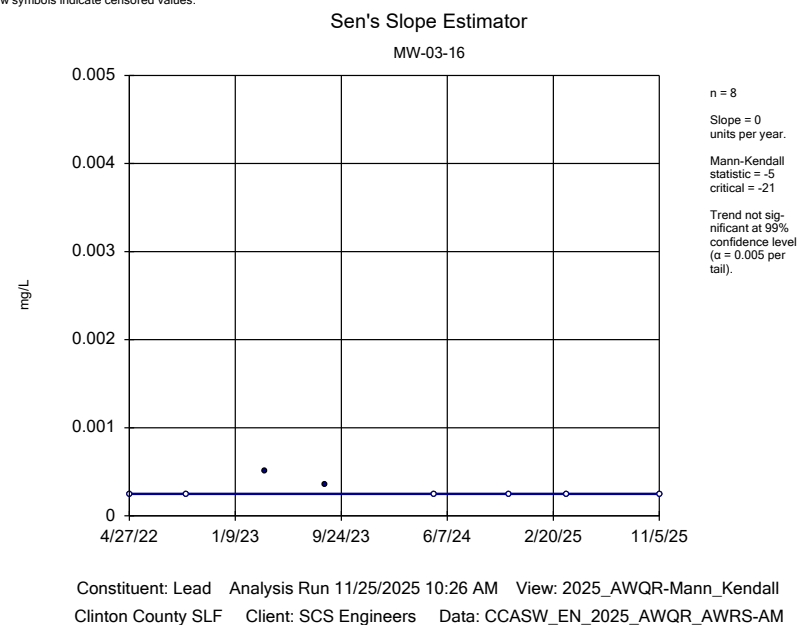
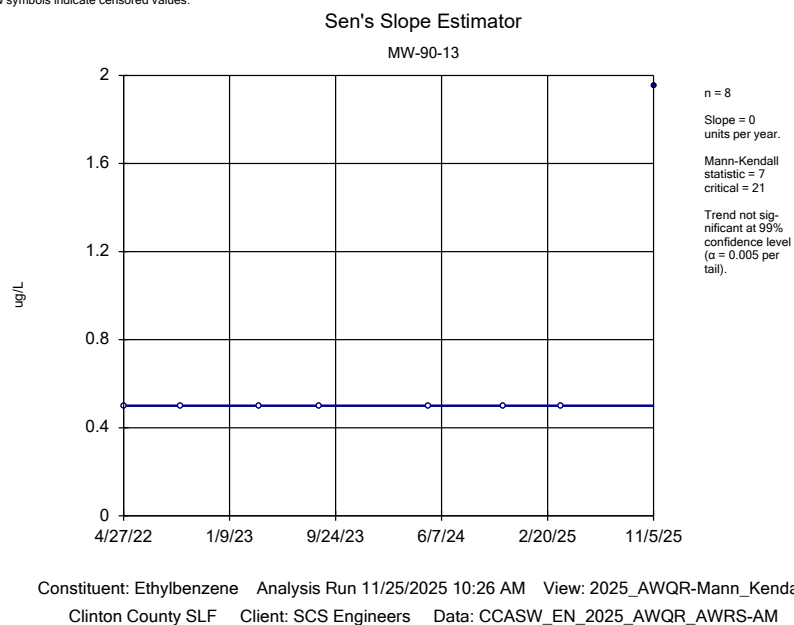
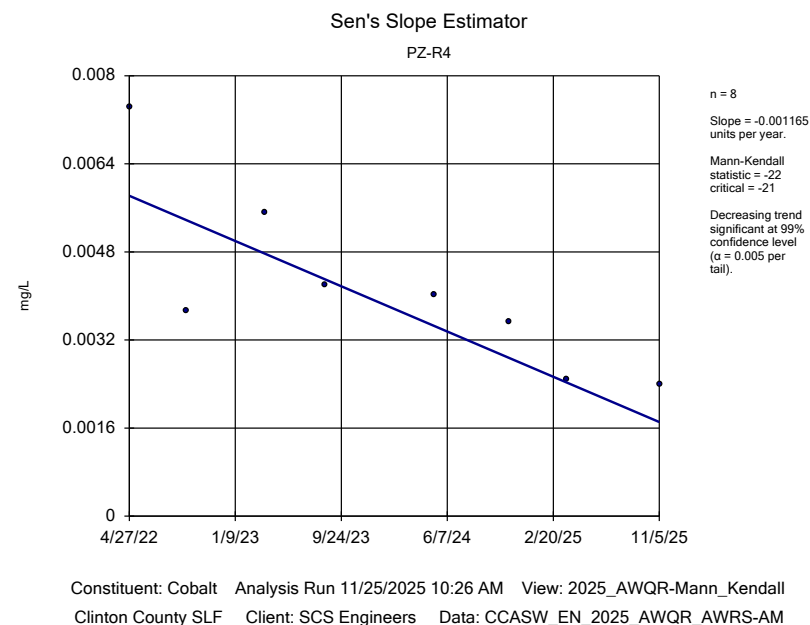
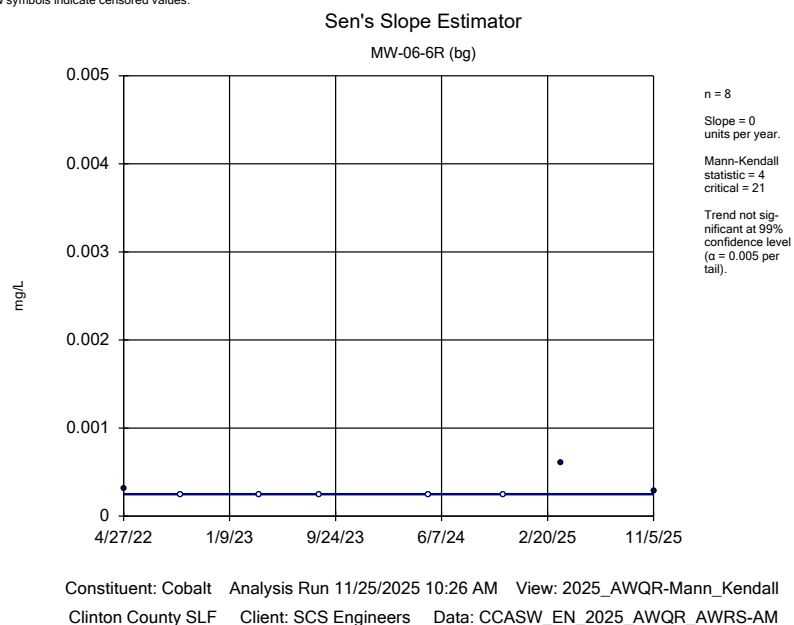
Constituent: Benzene Analysis Run 11/25/2025 10:26 AM View: 2025_AWQR-Mann_Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM

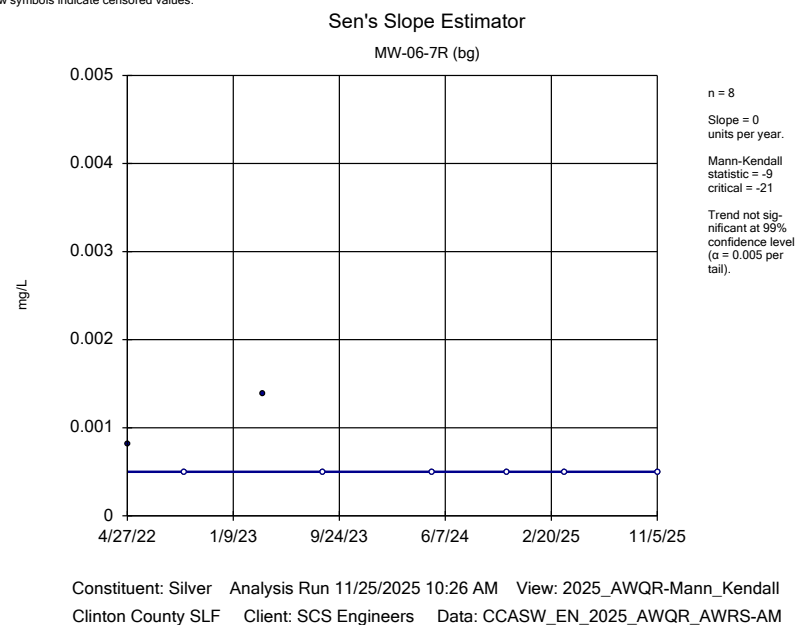
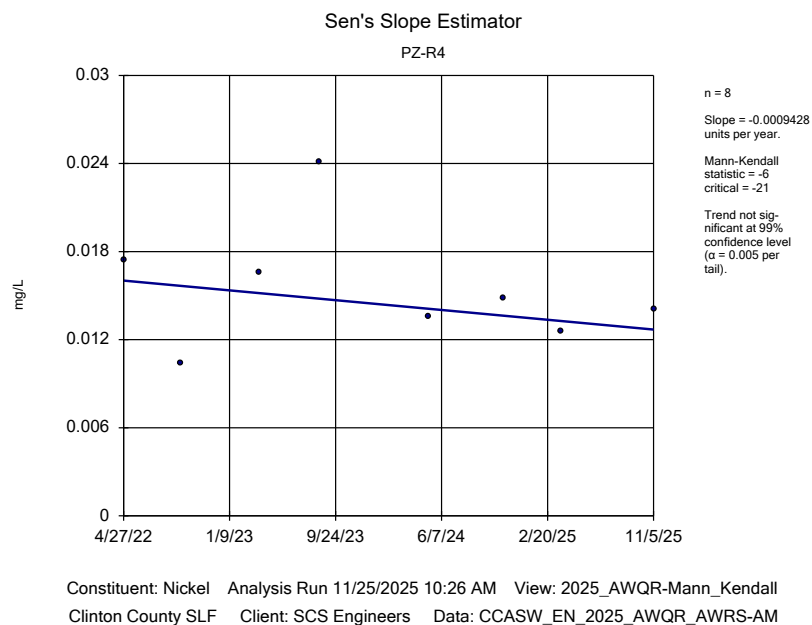
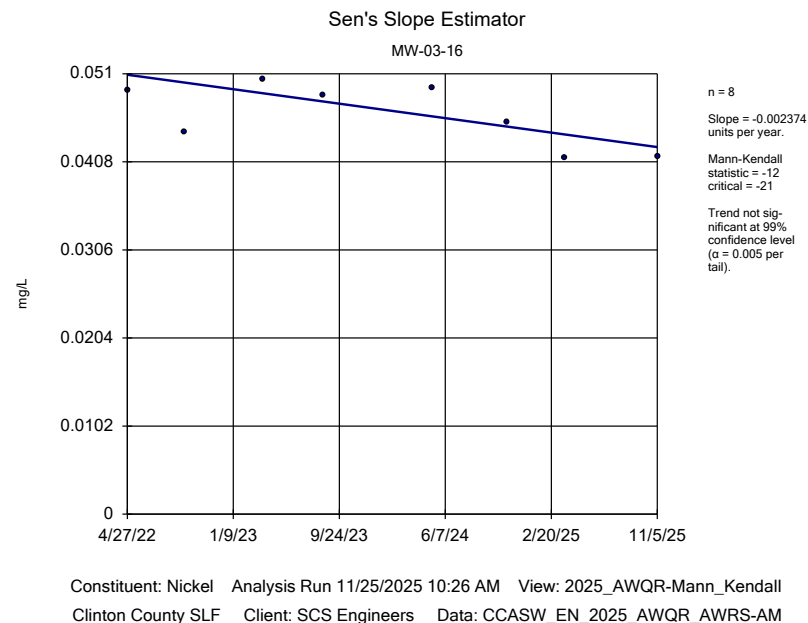
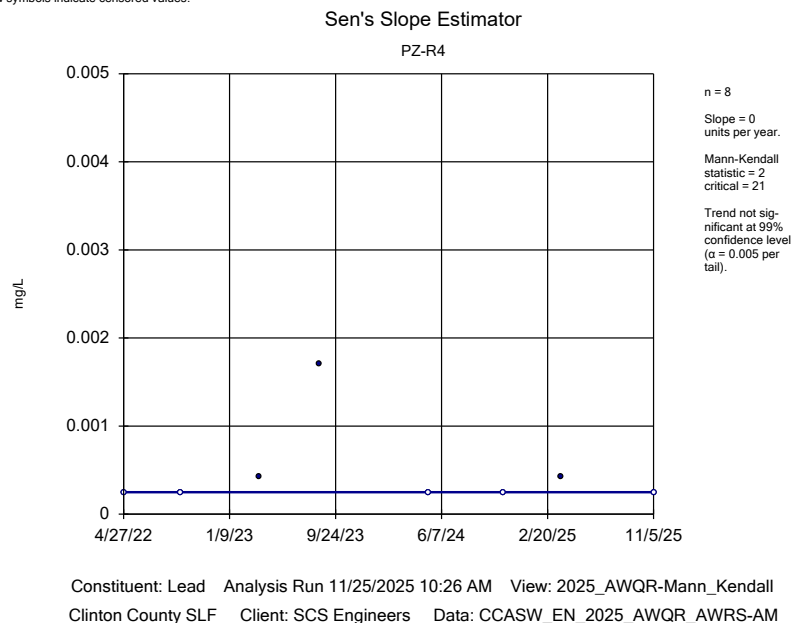


Constituent: Cadmium Analysis Run 11/25/2025 10:26 AM View: 2025_AWQR-Mann_Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM



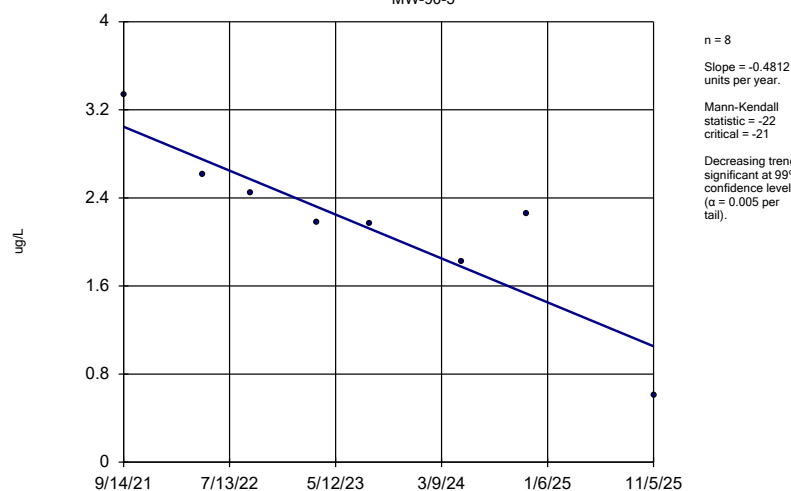






Sen's Slope Estimator

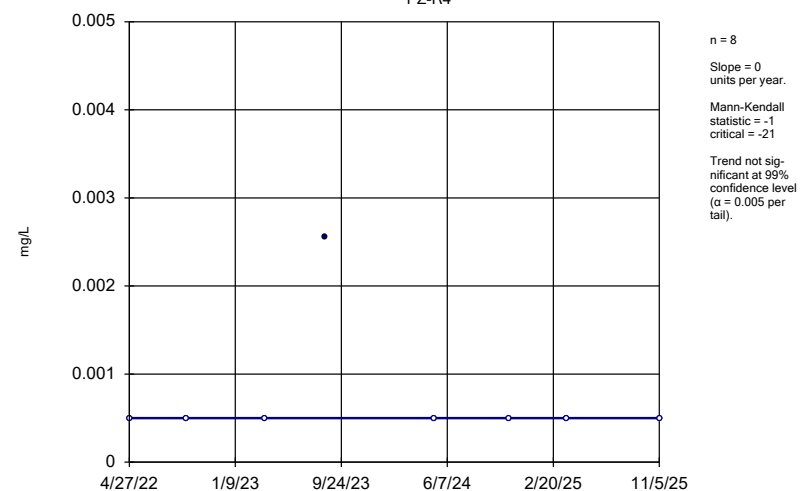
MW-90-5



Constituent: Tetrachloroethene Analysis Run 11/25/2025 10:27 AM View: 2025_AWQR-Mann_Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM

Sen's Slope Estimator

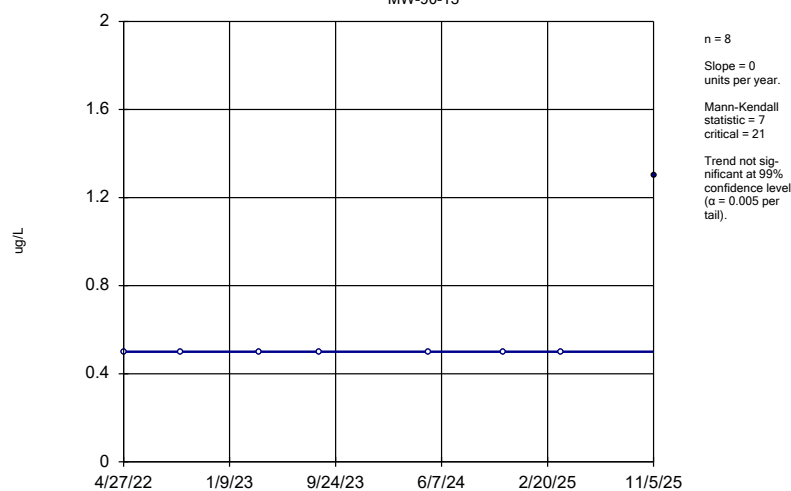
PZ-R4



Constituent: Thallium Analysis Run 11/25/2025 10:27 AM View: 2025_AWQR-Mann_Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM

Sen's Slope Estimator

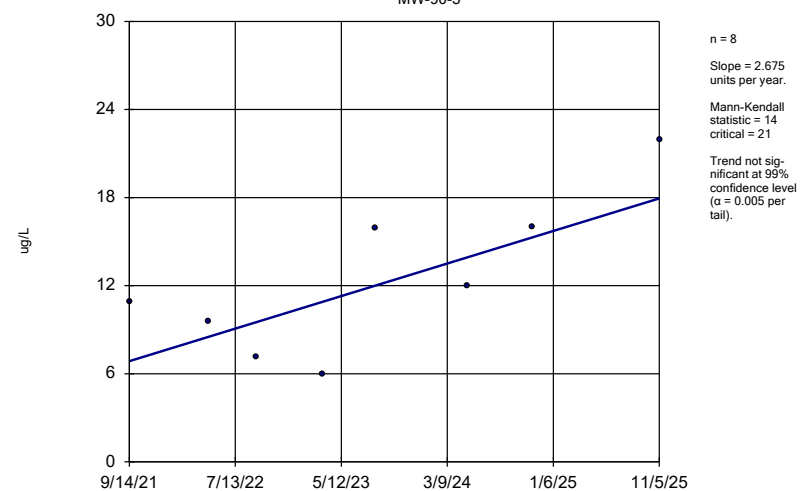
MW-90-13



Constituent: Toluene Analysis Run 11/25/2025 10:27 AM View: 2025_AWQR-Mann_Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM

Sen's Slope Estimator

MW-90-5



Constituent: Trichloroethene Analysis Run 11/25/2025 10:27 AM View: 2025_AWQR-Mann_Kendall
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM



Appendix F

Confidence Interval Summary Table and Graphs

Confidence Interval

Clinton County SLF

Client: SCS Engineers

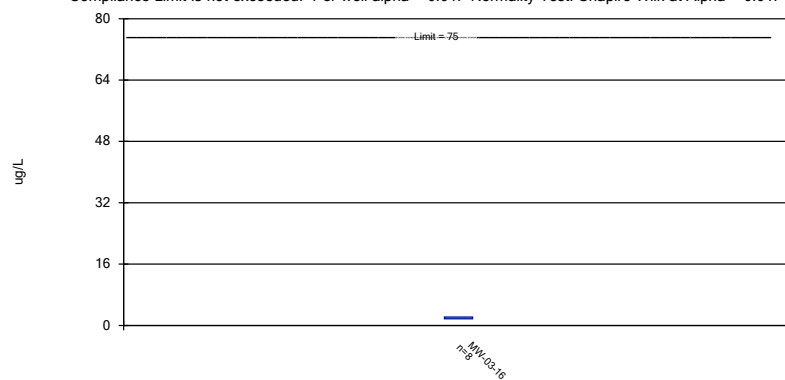
Data: CCASW_EN_2025_AWQR_AWRS-AM

Printed 11/25/2025, 11:10 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
1,4-Dichlorobenzene (ug/L)	MW-03-16	2.196	1.726	75	No	8	0	No	0.01	Param.
Antimony (mg/L)	MW-06-6R (bg)	0.00232	0.0005	0.006	No	4	75	No	0.0625	NP (NDs)
Arsenic (mg/L)	MW-03-16	0.1492	0.1258	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	MW-06-7R (bg)	0.005132	0.001208	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	PZ-R3	0.06973	0.002473	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	PZ-R4	0.0283	0.01086	0.01	Yes	8	0	No	0.01	Param.
Barium (mg/L)	MW-03-16	0.4923	0.3988	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-06-6R (bg)	0.4408	0.3852	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-06-7R (bg)	0.1716	0.09395	2	No	8	0	No	0.01	Param.
Barium (mg/L)	PZ-R4	0.395	0.2236	2	No	8	0	No	0.01	Param.
Benzene (ug/L)	MW-03-16	12.06	10.02	5	Yes	8	0	No	0.01	Param.
Benzene (ug/L)	MW-90-5	0.5813	0.3052	5	No	8	12.5	No	0.01	Param.
Benzene (ug/L)	MW-90-13	6.39	1.44	5	No	8	0	No	0.004	NP (normality)
Benzene (ug/L)	PZ-R4	0.6397	0.2504	5	No	8	25	No	0.01	Param.
Cadmium (mg/L)	MW-03-16	0.000103	0.00005	0.005	No	8	75	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-06-7R (bg)	0.000137	0.00005	0.005	No	8	87.5	No	0.004	NP (NDs)
Chlorobenzene (ug/L)	MW-03-16	10.65	8.957	100	No	8	0	No	0.01	Param.
Chlorobenzene (ug/L)	MW-90-5	2.671	1.946	100	No	8	0	No	0.01	Param.
Chlorobenzene (ug/L)	MW-90-13	1.96	0.5	100	No	8	25	No	0.004	NP (normality)
Chromium (mg/L)	MW-03-16	0.0084	0.00112	0.1	No	8	75	No	0.004	NP (NDs)
cis-1,2-Dichloroethene (ug/L)	MW-90-5	24.11	12.01	70	No	8	0	No	0.01	Param.
cis-1,2-Dichloroethene (ug/L)	PZ-R4	1.141	0.4198	70	No	8	12.5	No	0.01	Param.
Cobalt (mg/L)	MW-03-16	0.007589	0.006089	0.0021	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	MW-06-6R (bg)	0.000607	0.00025	0.0021	No	8	62.5	No	0.004	NP (NDs)
Ethylbenzene (ug/L)	MW-90-13	1.95	0.5	700	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	MW-03-16	0.000502	0.00025	0.015	No	8	75	No	0.004	NP (NDs)
Lead (mg/L)	PZ-R4	0.00171	0.00025	0.015	No	8	62.5	No	0.004	NP (NDs)
Nickel (mg/L)	MW-03-16	0.05003	0.04232	0.1	No	8	0	No	0.01	Param.
Nickel (mg/L)	PZ-R4	0.01982	0.01108	0.1	No	8	0	No	0.01	Param.
Silver (mg/L)	MW-06-7R (bg)	0.00138	0.0005	0.1	No	8	75	No	0.004	NP (NDs)
Thallium (mg/L)	PZ-R4	0.00256	0.0005	0.002	No	8	87.5	No	0.004	NP (NDs)
Toluene (ug/L)	MW-90-13	1.3	0.5	1000	No	8	87.5	No	0.004	NP (NDs)
Trichloroethene (ug/L)	MW-90-5	18.01	6.834	5	Yes	8	0	No	0.01	Param.

Parametric Confidence Interval

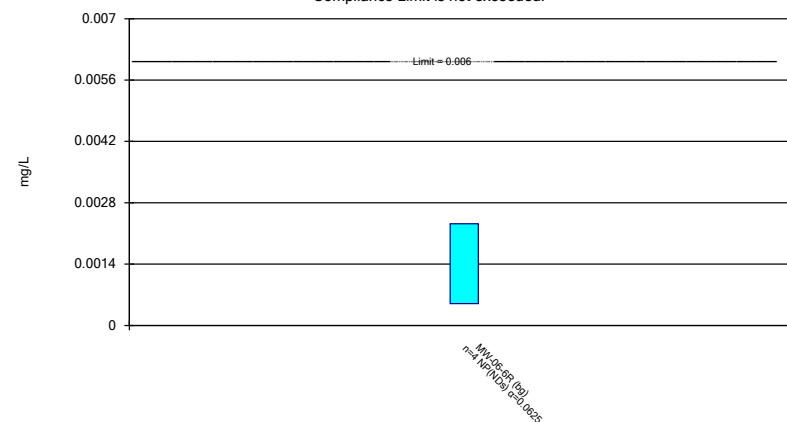
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: 1,4-Dichlorobenzene Analysis Run 11/25/2025 11:08 AM View: 2025_AWQR-Confidence_Int
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM

Non-Parametric Confidence Interval

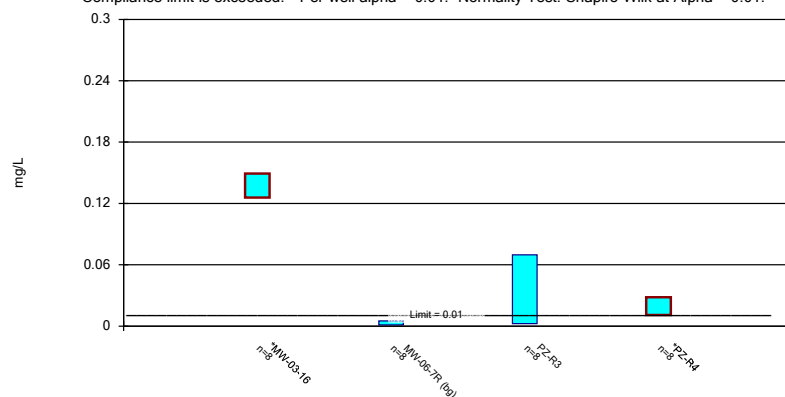
Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 11/25/2025 11:08 AM View: 2025_AWQR-Confidence_Interval
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM

Parametric Confidence Interval

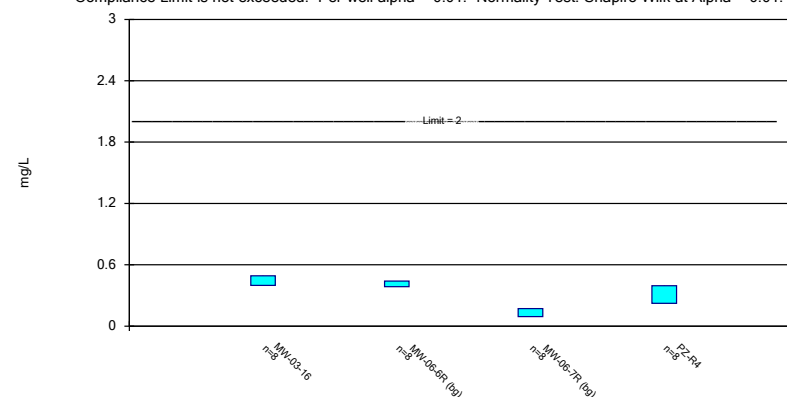
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Arsenic Analysis Run 11/25/2025 11:08 AM View: 2025_AWQR-Confidence_Interval
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM

Parametric Confidence Interval

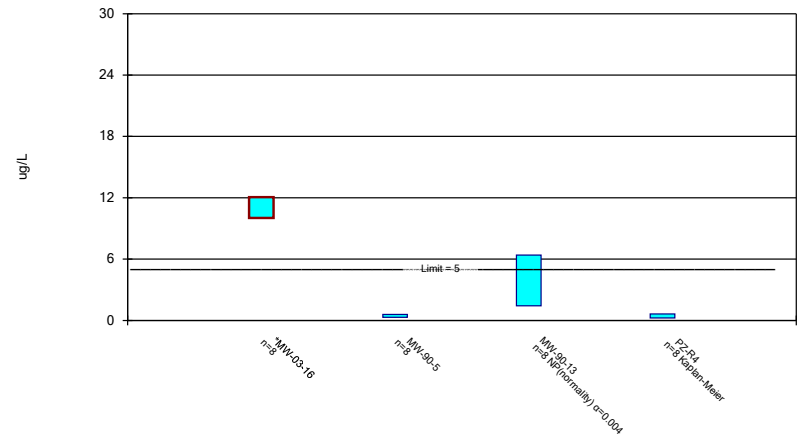
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Barium Analysis Run 11/25/2025 11:08 AM View: 2025_AWQR-Confidence_Interval
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM

Parametric and Non-Parametric (NP) Confidence Interval

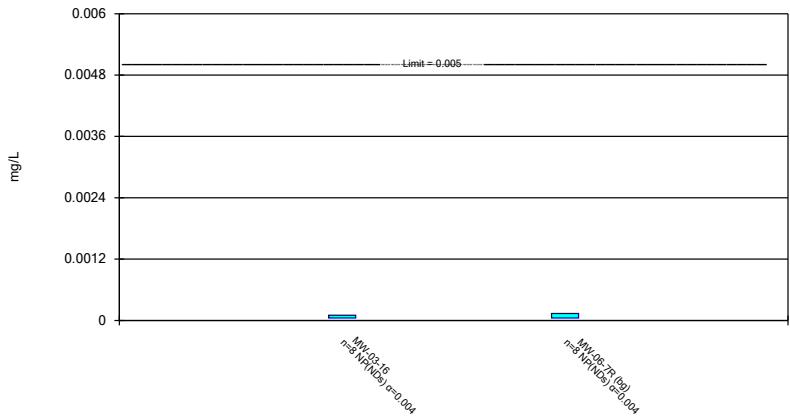
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Benzene Analysis Run 11/25/2025 11:09 AM View: 2025_AWQR-Confidence_Interval
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM

Non-Parametric Confidence Interval

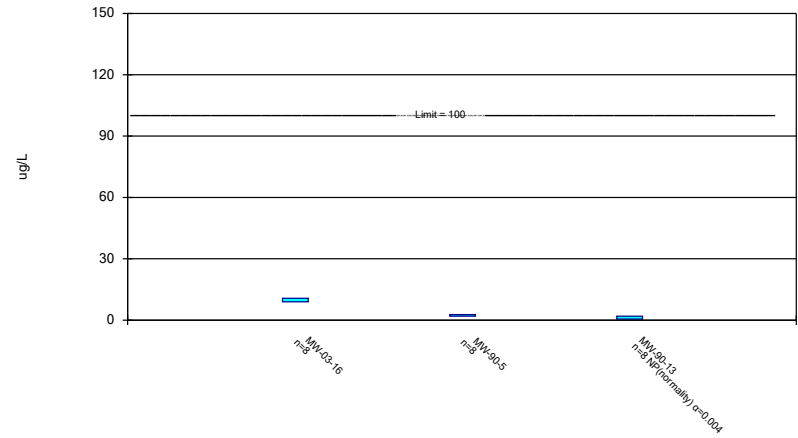
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 11/25/2025 11:09 AM View: 2025_AWQR-Confidence_Interval
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM

Parametric and Non-Parametric (NP) Confidence Interval

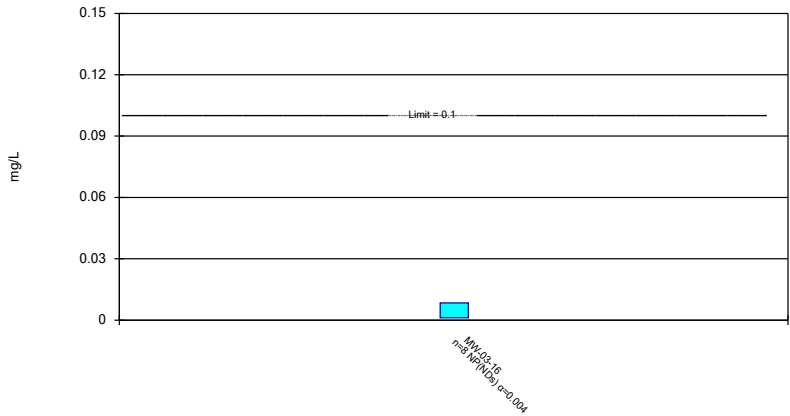
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



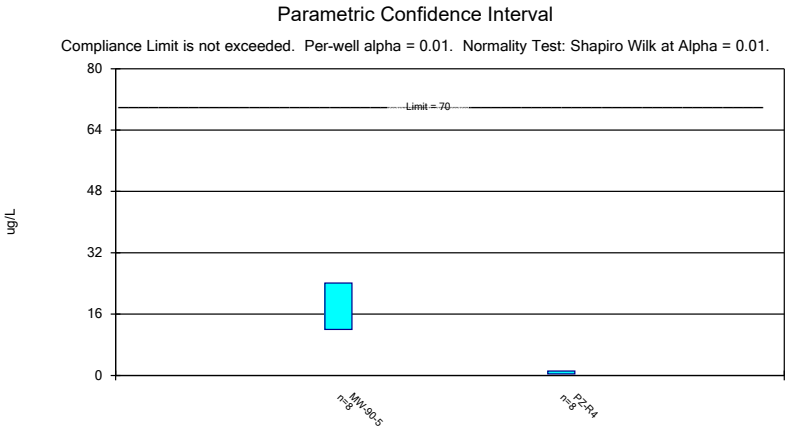
Constituent: Chlorobenzene Analysis Run 11/25/2025 11:09 AM View: 2025_AWQR-Confidence_Interval
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM

Non-Parametric Confidence Interval

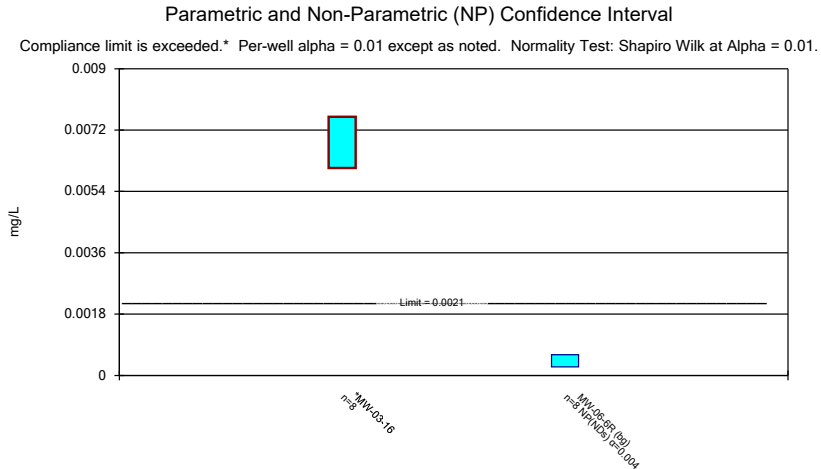
Compliance Limit is not exceeded.



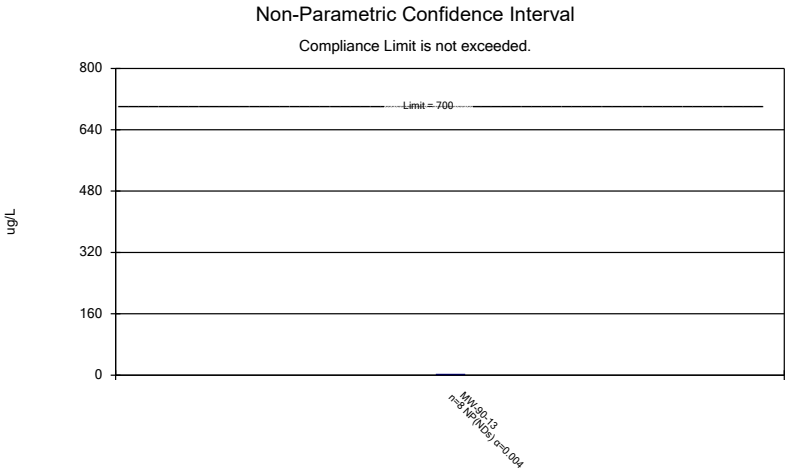
Constituent: Chromium Analysis Run 11/25/2025 11:09 AM View: 2025_AWQR-Confidence_Interval
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM



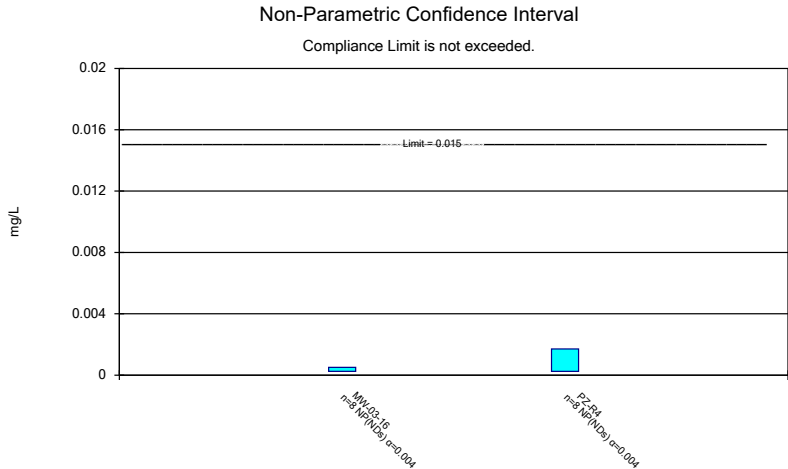
Constituent: cis-1,2-Dichloroethene Analysis Run 11/25/2025 11:09 AM View: 2025_AWQR-Confidence_I
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM



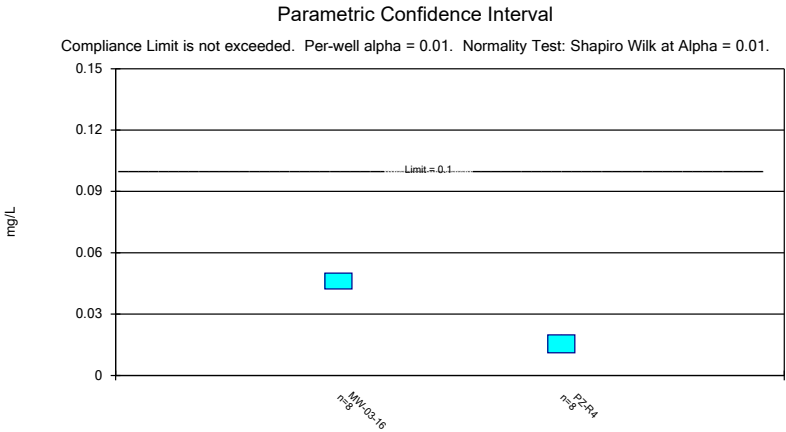
Constituent: Cobalt Analysis Run 11/25/2025 11:09 AM View: 2025_AWQR-Confidence_Interval
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM



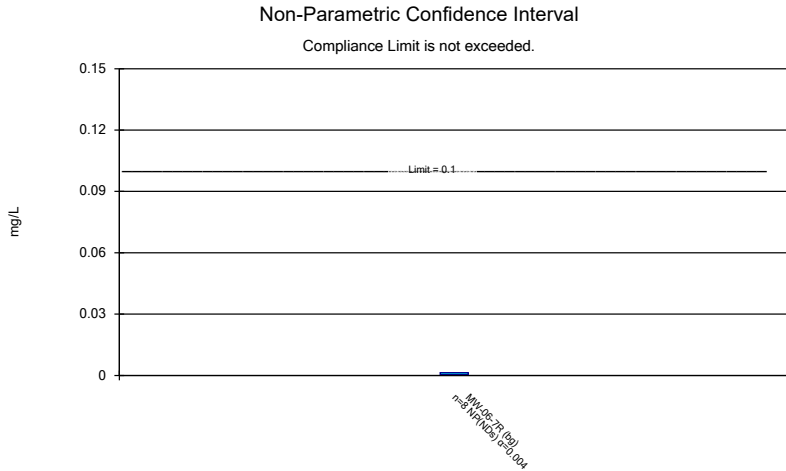
Constituent: Ethylbenzene Analysis Run 11/25/2025 11:09 AM View: 2025_AWQR-Confidence_Interval
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM



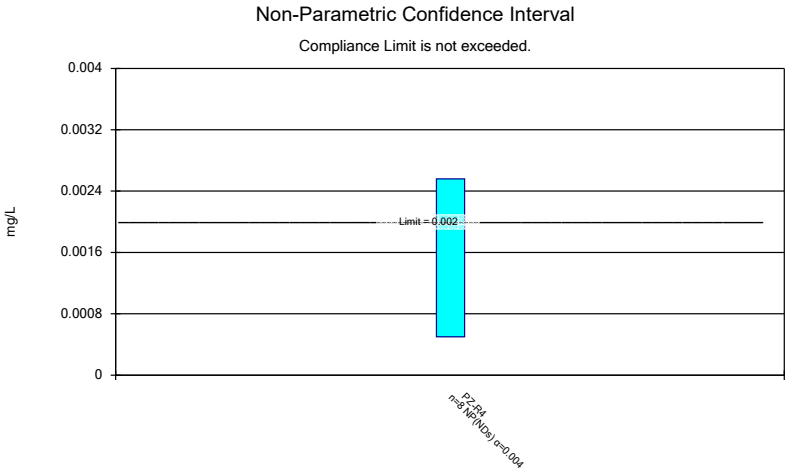
Constituent: Lead Analysis Run 11/25/2025 11:09 AM View: 2025_AWQR-Confidence_Interval
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM



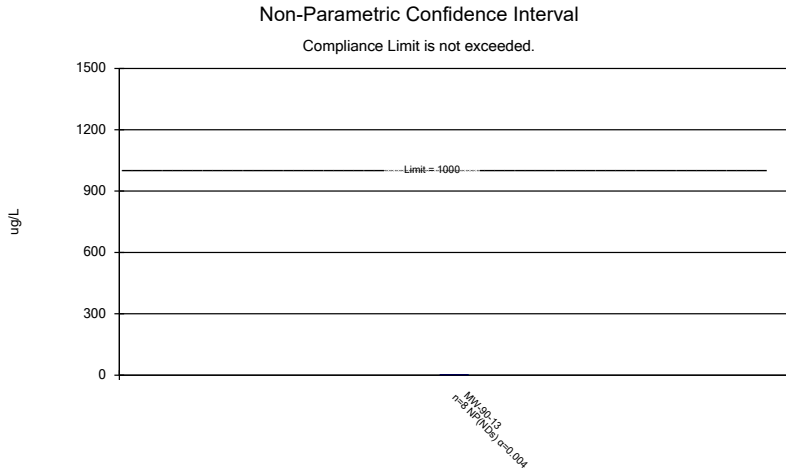
Constituent: Nickel Analysis Run 11/25/2025 11:09 AM View: 2025_AWQR-Confidence_Interval
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM



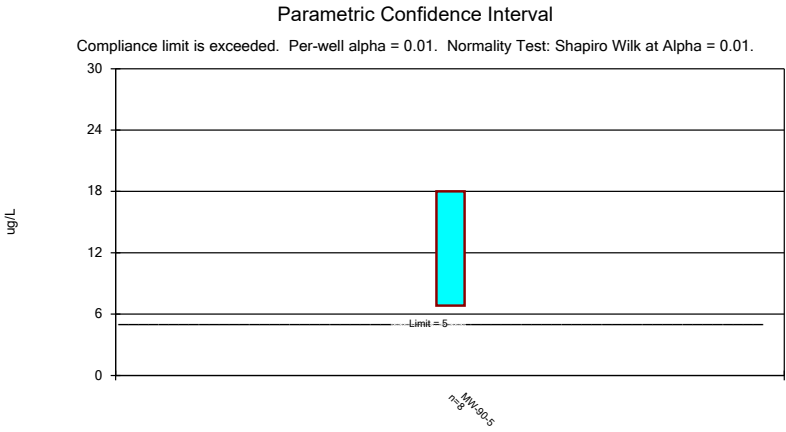
Constituent: Silver Analysis Run 11/25/2025 11:09 AM View: 2025_AWQR-Confidence_Interval
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM



Constituent: Thallium Analysis Run 11/25/2025 11:09 AM View: 2025_AWQR-Confidence_Interval
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM



Constituent: Toluene Analysis Run 11/25/2025 11:09 AM View: 2025_AWQR-Confidence_Interval
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM



Constituent: Trichloroethene Analysis Run 11/25/2025 11:09 AM View: 2025_AWQR-Confidence_Interval
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM



Appendix G

Theil-Sen Confidence Band Summary Table and Graphs

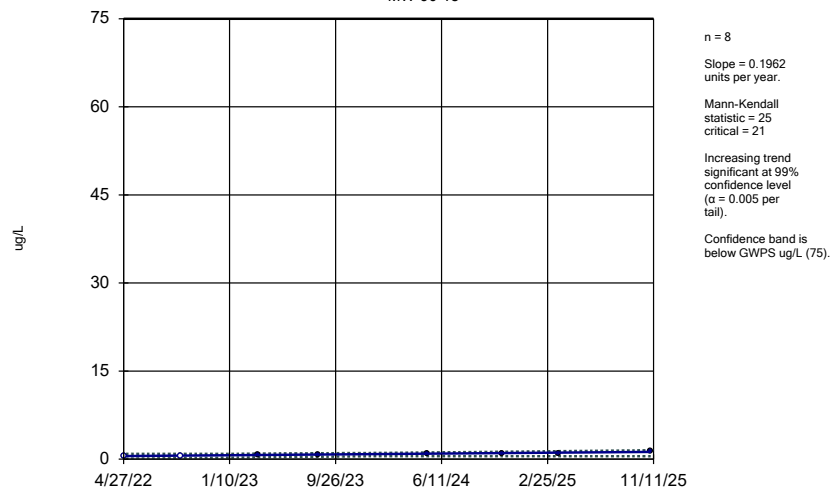
Theil Sen/Trend Test

Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM Printed 11/25/2025, 11:22 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
1,4-Dichlorobenzene (ug/L)	MW-90-13	0.1962	25	21	Yes	8	25	0.01	NP
Cobalt (mg/L)	PZ-R4	-0.001165	-22	-21	Yes	8	0	0.01	NP
Tetrachloroethene (ug/L)	MW-90-5	-0.4812	-22	-21	Yes	8	0	0.01	NP

Sen's Slope and 99% Confidence Band

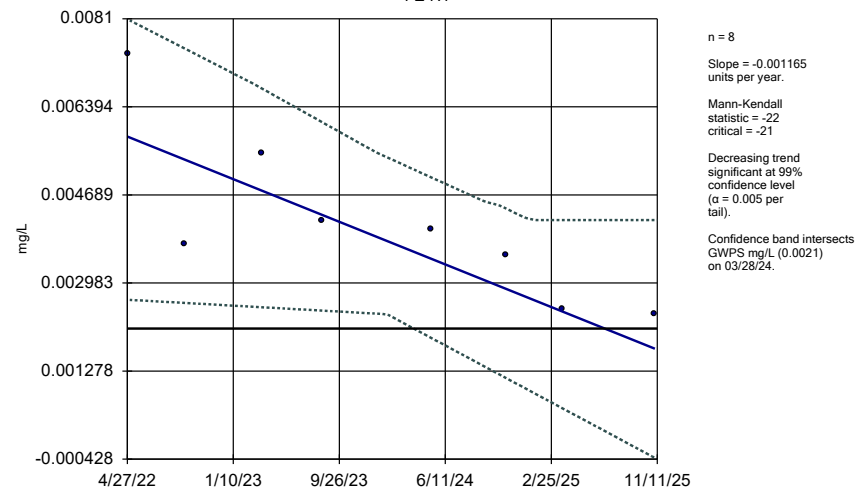
MW-90-13



Constituent: 1,4-Dichlorobenzene Analysis Run 11/25/2025 11:21 AM View: 2025_AWQR-Theil_Sen
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM

Sen's Slope and 99% Confidence Band

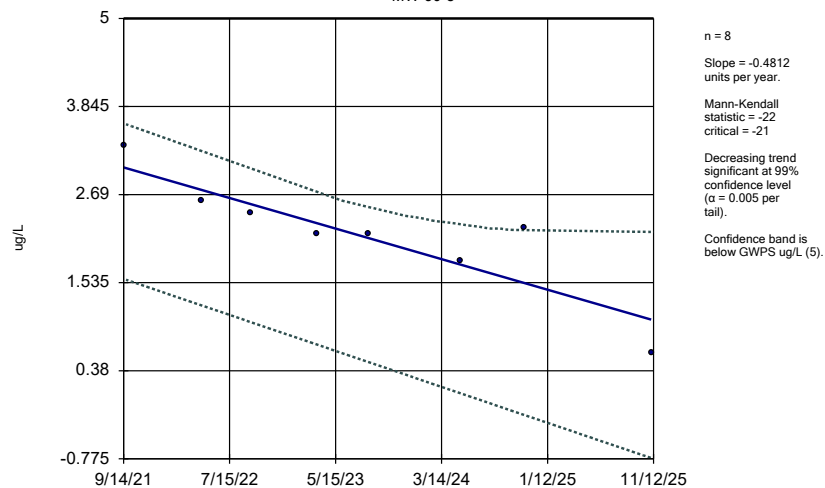
PZ-R4



Constituent: Cobalt Analysis Run 11/25/2025 11:21 AM View: 2025_AWQR-Theil_Sen
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM

Sen's Slope and 99% Confidence Band

MW-90-5



Constituent: Tetrachloroethene Analysis Run 11/25/2025 11:21 AM View: 2025_AWQR-Theil_Sen
Clinton County SLF Client: SCS Engineers Data: CCASW_EN_2025_AWQR_AWRS-AM