SCS ENGINEERS

Transmittal

West Des Moines, IA

PROJECT:	NWIASWA,FY26 Env Comp,IA 27225280.26	DATE:	2/25/2026
SUBJECT:	Northwest Iowa Area Sanitary Landfill - 84-SDP-01-74P - 2025 Annual Water Quality Report, Leachate Control System Performance Evaluation Report, and Landfill Gas Annual Report	TRANSMITTAL ID:	00001
PURPOSE:	For your approval	VIA:	Info Exchange

FROM

NAME	COMPANY	EMAIL	PHONE
Nathan Ohrt West Des Moines, IA	SCS Engineers	NOhrt@scsengineers.com	+1-515-415-9220

TO

NAME	COMPANY	EMAIL	PHONE
Mike Smith 502 East 9th Street Des Moines IA 50319-0034 United States	Iowa, State of	mike.smith@dnr.iowa.gov	515-725-8200

REMARKS:

Good morning Mike-

SCS Engineers, on behalf of the Northwest Iowa Area Solid Waste Agency, is submitting the 2025 Annual Water Quality Report, Leachate Control System Performance Evaluation Report, and Landfill Gas Annual Report for the Northwest Iowa Area Sanitary Landfill. If you have any questions or comments regarding these reports, please contact me at the number below. Thank you.

Nathan Ohrt
Senior Project Professional
SCS Engineers
West Des Moines, Iowa
319-331-9613
nohrt@scsengineers.com

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Transmittal

DATE: 2/25/2026
TRANSMITTAL ID: 00001

DESCRIPTION OF CONTENTS

QTY	DATED	TITLE	NOTES
1	2/25/2026	2026.02.25 Northwest Iowa Area Sanitary Landfill - 84-SDP-01-74P - 2025 Annual Water Quality Report, Leachate Control System Performance Evaluation Report, and Landfill Gas Annual Report.pdf	

COPIES:

Brent Kach (Northwest Iowa Area Solid Waste Agency & Recycling)
Nathan Ohrt (SCS Engineers)
Sean Marczewski (SCS Engineers)
Becky Jolly

February 25, 2026
File No. 27225280.26

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, Leachate Control System Performance Evaluation Report, and Landfill Gas Annual Report
Northwest Iowa Area Sanitary Landfill
Permit No. 84-SDP-01-74P

Dear Mike:

SCS Engineers, on behalf of the Northwest Iowa Area Solid Waste Agency, has completed the required statistical evaluation and groundwater monitoring system data review for the Northwest Iowa Area Sanitary Landfill (Landfill) for the year 2025. Services were performed in general accordance with Iowa Administrative Code (IAC) 567-113.10 and the current requirements for implementation of the Hydrologic Monitoring System Plan for the Landfill. Please find enclosed a copy of the 2025 Annual Water Quality Report.

Additionally, an evaluation of the leachate control system and gas monitoring results for the Landfill are included in accordance with IAC 567-113.7(5)"b"(14) and 113.9(2)"d", respectively. The 2025 Leachate Control System Performance Evaluation Report and 2025 Landfill Gas Annual Report for the Landfill are included as appendices to the Annual Water Quality Report.

If you have any questions regarding these reports, please contact Nathan Ohrt at (319) 331-9613.

Sincerely,

Nathan Ohrt
Senior Project Professional
SCS Engineers

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

NPO/TCB

Copies: Mr. Brent Kach, Northwest Iowa Area Sanitary Landfill

2025 Annual Water Quality Report, Leachate Control System Performance Evaluation Report, And Landfill Gas Annual Report

Northwest Iowa Area Sanitary Landfill
Sheldon, Iowa
Solid Waste Permit No. 84-SDP-01-74P

Prepared for:

Northwest Iowa Area Solid Waste Agency

SCS ENGINEERS

27225280.26 | February 2026

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CERTIFICATION

Prepared by: _____ Date: 2/25/2026

Typed: Nathan Ohrt

Reviewed by: _____ Date: 2/25/2026

Typed: Timothy C. Buelow, P.E.

Certification page (PE or ground water scientist signature) **113.10(1)"d"**

For the purposes of this rule, a "qualified groundwater scientist" means a scientist or an engineer who has received a baccalaureate or postgraduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields demonstrated by state registration, professional certifications, or completion of accredited university programs that enable that individual to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action.

EXECUTIVE SUMMARY

ES.1 Period of Report Coverage

The period of report coverage is from January through December 2025 and includes data from the sampling events summarized in Table 2.

ES.2 Report Priority

The following summarizes report priorities associated with groundwater compliance at the Northwest Iowa Area Sanitary Landfill (Landfill):

- Department review urgency: None
- Department review impact on rules schedule: None.
- Actions or activities on hold pending Department review or comment: None.
- Actions and/or permit amendments needed: None.

ES.3 Site Status and Applicable Rules

- Landfill Status: Open
- Types of waste accepted: MSW, C&D, and Special Waste
- Applicable IAC rules: 2009 567-113.10

ES.4 Comments

Site impact on groundwater is primarily located on the northeast side of the Landfill in the vicinity of monitoring well DG-1301. Trichloroethene concentrations in corrective action monitoring well DG-1301 were measured below the GWPS during the June 2025 sampling event and above the GWPS during the November 2025 sampling event. The extent of the elevated concentrations has been defined by both the shallow (horizontal) and deep (vertical) bracketing monitoring wells downgradient of monitoring well DG-1301. An assessment zone point-of-compliance (AZPOC) monitoring well may be considered for remedy evaluation.

In correspondence dated January 24, 2025 (Doc #111956), a June 23, 2026 submittal date for the assessment of corrective measures report for monitoring well DGP-1500 was requested to allow for time to characterize the area of impact. The request was approved in correspondence dated January 27, 2025 (Doc #111962).

SSIs have been indicated in recent years in groundwater underdrain discharge points GU-13, GU-14, and GU-15. Due to the underdrains being frequently dry, sampling attempts to confirm or not confirm the indicated SSIs were not successful. The table below summarizes the SSIs indicated in the groundwater underdrains. The results of the next successful sample collection will be used to confirm or not confirm the indicated SSIs. Details regarding the SSIs indicated in the groundwater underdrain discharge points are included in Section 6.0.

	GU-13	GU-14	GU-15
Acetone	X		X
Arsenic	X		
Barium	X		
Copper		X	
Zinc		X	

ACRONYMS/ABBREVIATIONS

amsl = above mean sea level
ACM = Assessment of Corrective Measures
AZPOC = Assessment Zone Point of Compliance
C&D = Construction & Demolition Waste
GWPS = Groundwater Protection Standard
HMSP = Hydrologic Monitoring System Plan
IAC = Iowa Administrative Code
MSW = Municipal Solid Waste
QA = Quality Assurance
QC = Quality Control
SCS = SCS Engineers
SSI = Statistically Significant Increase above background
SSL = Statistically Significant Level above groundwater protection standard
TSS = Total Suspended Solids
VOC = Volatile Organic Compound

1.0 SITE BACKGROUND

1.1 SITE LOCATION

The Landfill property is depicted in **Figure 1**, Approved Monitoring Network. The Landfill is located at 4540 360th Street, west of Highway 60 and approximately 4.5 miles south of Sheldon, Iowa. The Landfill property is situated in the SW ¼ of Section 14, T96N, R43W, in Sioux County, Iowa.

1.2 GEOLOGY AND HYDROGEOLOGY OF THE SITE

In the document entitled *Hydrogeological Investigation Report*, Five States Engineering Co., March 1994 (1994 HIR), the following geologic description was provided:

> *The NWIA Landfill site is comprised of two distinct areas. The upland area (generally above elevation 1,370 feet above mean sea level (ft amsl)) is an area of glacial clay till overlain by silty clay and loam soils. The glacial clay till contains a layer of sand which appears continuous in the northern half of the landfill site. The sand layer appears less continuous in the southern half of the site with wider variances in thickness and occurrence along a general grade line. The sand layer under the northern half of the site tilts generally to the east on a grade of 1%.*
>
> *The lower areas of the site (below elevation 1,370 ft amsl) are parts of the Floyd River alluvial plain. The alluvial plain is generally in the northeast area of the site. The alluvial plain is composed of detrital deposits of gravels, sand, and silty clay. Borings in the alluvial plain indicated that the base of the gravels is irregular and dips to the east. The base of gravels near the east property line is at an elevation of approximately 1,325 ft amsl.*
>
> *An interconnection between the two areas occurs at the intersection of the glacial till sand layer and alluvial deposits of sand, silty clay, and gravel.*

The 1994 HIR and revisions stated the following regarding the hydrogeology of the site:

> *The movement of groundwater through the glacial till is through a series of poorly defined fractures and intermittent sand pockets and thin layers of sand. The material analysis completed during this project and previous projects indicates an in-place permeability of 4 x 10^{-7} cm/sec to 4 x 10^{-9} cm/sec. Most of the glacial clay materials tested indicated an in-place permeability of approximately 2 x 10^{-8} cm/sec. Permeabilities indicate that the glacial clay acts as an aquitard and groundwater movement will occur horizontally along the surface of the material.*
>
> *Flow of groundwater beneath the fill sites is generally to the southeast. The flow of groundwater beneath the fill sites includes a vertically upward flow to an existing sand layer. The potentiometric of the site indicates a free static level. In field static water levels measured around the fill site indicate all upward vertical flow is isolated by the existing sand layer.*
>
> *Flow of groundwater around the existing site is along the interface of the glacial clay and surficial soils. Flow of groundwater below the existing fill site is horizontally southeast and vertically upward to the existing sand unit. Flow through the sand unit is southeast in the northern area of the site and northeast at the southern part of the site. Flow from the sand unit does not appear upward as horizontal flow velocity through the sand is approximately 600 times greater than vertical flow velocity.*

2.0 FIGURES DISCUSSION

The following figures are included in a Figures section following the Tables section of this report.

2.1 FIGURE 1 – APPROVED MONITORING NETWORK

The Landfill property, Hydrologic Monitoring System Plan (HMSP) monitoring network, and impact delineation monitoring points are depicted in **Figure 1**. **Figure 1** indicates the respective monitoring programs of the HMSP monitoring points as of the beginning of this reporting period.

2.2 FIGURE 2 – GROUNDWATER CONTOURS

A groundwater contour map based on water levels measured from the monitoring wells during the November 2025 sampling event is included in **Figure 2**. Groundwater flows generally in an easterly direction beneath the Landfill towards the Boyer River. As this flow direction is similar to previous groundwater contour maps, it does not appear that landfilling operations are affecting flow paths.

3.0 STANDARDS HISTORY GRAPHS

Standards history graphs for the Appendix I metals are included in **Appendix G**. The prediction limits were below the statewide standards for most constituents with the following exceptions:

- For antimony, the prediction limit during the 2nd 2025 statistical evaluation was 0.0139 mg/L, as it has been since 2018, so the GWPS for antimony was established as 0.0139 mg/L.
- For thallium, the prediction limit during the 2nd 2025 statistical evaluation was 0.0104 mg/L, as it has been since 2023, so the GWPS for thallium was established as 0.0104 mg/L.

More information on prediction limits and GWPSs is included in **Table 5**.

4.0 QA/QC SUMMARY

The quality assurance/quality control (QA/QC) program for the Landfill follows similar protocols as included 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 generated data, including a review of sample handling, analytical sensitivity, blanks, accuracy, and precision. A summary of the laboratory QA/QC and data validation can be found in **Appendix B-1**, Laboratory Analytical Data Sheets, and **Appendix B-2**, Data Validation Documentation, respectively. The QA review indicated the data were acceptable.

5.0 DATA EVALUATION AND SUMMARY

Detection, assessment, and corrective action monitoring statistical evaluations in accordance with the requirements of Iowa Administrative Code (IAC) 567-113.10(5) and 113.10(6) were conducted for the groundwater analytical data collected during the 2025 reporting period. The statistical evaluations for samples collected during this reporting period are located in **Appendix D**, Statistical Method and Output, of this report.

5.1 DATA EVALUATION

Groundwater monitoring for the Landfill consists of samples from monitoring wells encompassing the downgradient perimeters of the Landfill and seven groundwater underdrain discharge points. Background monitoring wells UG-90 and UG-201 are located northwest and west of the MSWLF unit, respectively. There is one surface water monitoring point, SW-101, located near the southeast corner of the Landfill in a perimeter drainage ditch located along the east side of the Landfill, which discharges into the sediment .

Acetone was detected in monitoring points GU-13 and SW-101 during the July 2024 sampling event. In correspondence dated October 2, 2024 (Doc #11100), the Iowa Department of Natural Resources (DNR) approved using the results of the 2nd 2024 semi-annual sampling event as an acetone retest rather than a standalone retesting sampling event. Monitoring point GU-13 was dry during the November 2024 and the 2025 semi-annual sampling events. The results from the next successful sample collection from GU-13 will be used to confirm or not confirm the acetone detection.

Acetone was detected in monitoring point SW-101 during the July and November 2024 sampling events. During a telephone conversation, the DNR directed that a sample from the sediment pond receiving discharge from SW-101 be collected to verify that acetone was not being released. Acetone was detected in SW-101 during a retesting sampling event in April 2025. The sample from the sediment pond during the same April 2025 sampling event showed no acetone detections. Acetone was not detected in SW-101 or the sediment pond discharge during the June 2025 sampling event. Acetone was not detected during the November 2025 sampling event (the sediment pond discharge was not sampled in November). The acetone detections in SW-101 do not warrant additional action at this time.

SSIs above background were indicated for copper and zinc in monitoring point GU-14 during the 1st 2023 statistical evaluation. The monitoring point has been dry since the May 2023 sample collection. The next successful GU-14 sampling attempt will serve as a retest for the indicated SSIs. The elevated total suspended solids (TSS) concentration of 93 mg/L in monitoring point GU-14 may have contributed to the indicated SSIs.

Indicated SSIs during the 2nd 2024 statistical evaluation for cobalt in monitoring well DG-1001 and for acetone in monitoring point GU-15 and arsenic, barium, and acetone in monitoring point GU-13 were attempted in April 2025. The retesting concentration for cobalt in monitoring well DG-1001 was a J flag, so the indicated cobalt SSI was not confirmed. Monitoring points GU-13 and GU-15 did not produce samples during the April, June, or November 2025 sampling events. The next successful sampling attempt for GU-13 and GU-15 will be used as a retest for the indicated SSIs.

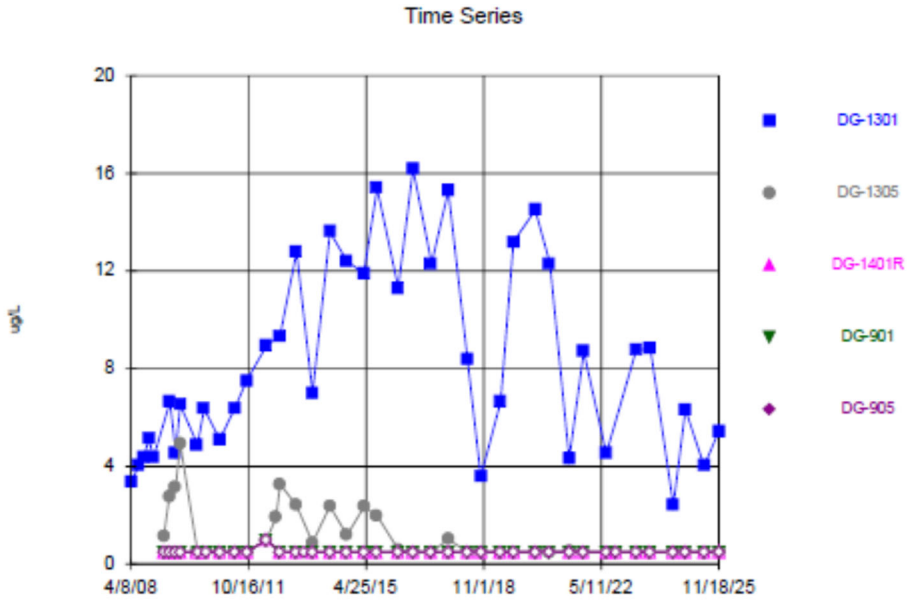
VOCs and/or semi-VOCs were detected in assessment monitoring wells DG-1205, DG-1305, and DG-1401R, monitoring point SW-101, and corrective action monitoring wells DG-1301 and DGP-1500. The only VOC that exceeded the GWPS was the SSL parameter trichloroethene in monitoring well DG-1301.

Metals GWPS exceedances included arsenic in monitoring well DGP-1500 and cobalt in background monitoring well UG-201. Although metals are occasionally measured at concentrations below the regulatory standards, the monitoring wells in the southern part of the Landfill (with the exception of DGP-1500) are generally not impacted,

5.2 CORRECTIVE ACTION

The remedy to address trichloroethene impact near monitoring well DG-1301 is passive venting of the subsurface, as landfill gas is the primary source of impact. Trichloroethene concentrations in monitoring well DG-1301 were measured below the GWPS during the June 2025 sampling event and

above the GWPS during the November 2025 sampling event. The elevated trichloroethene concentrations are bracketed to background horizontally in the upper part of the saturated zone. The deeper saturated zone flow is monitored by monitoring wells MWP-7, MW-17, and MW-18. Trichloroethene concentrations in deep monitoring well MWP-7 adjacent to DG-1301 were measured below the GWPS during the June and November 2025 sampling events. The vertical flow is bracketed to background in the direction of groundwater flow by monitoring wells MW-17 and MW-18. The impact of the subsurface venting wells on trichloroethene concentrations in monitoring well DG-1301 will continue to be evaluated during routine sampling events. The time series plot below shows that the trichloroethene concentrations in monitoring well DG-1301 remain typically above the GWPS but are lower than before the remedy was implemented in 2018, indicating the remedy is effective. The July 2024 concentration was the lowest in the period of record dating to 2008.



In correspondence dated January 24, 2025 (Doc #111956), a June 23, 2026 submittal date for the assessment of corrective measures report for monitoring well DGP-1500 was requested to allow for time to characterize the area of impact. The request was approved in correspondence dated January 27, 2025 (Doc #111962).

6.0 SUMMARY AND RECOMMENDATIONS

6.1 SITE IMPACT ON GROUNDWATER

Based on the lack of VOCs and generally low metals concentrations, the Landfill is not having a significant adverse impact on groundwater to the south of the Landfill, with the exception of monitoring well DG-1500.

Evidence of impact based on consistent detection of VOCs is located downgradient of the unlined area of the Landfill on the northeast side and is bracketed to a localized area by adjacent monitoring wells.

Evidence of arsenic impact downgradient of the leachate storage lagoon near monitoring well DGP-1500 is present. Characterization and bracketing efforts performed during this reporting period will be discussed in the ACM report by June 23, 2026.

6.2 PROPOSED MONITORING

Anticipated groundwater sampling for the 2026 reporting period is shown in the attached Table 2.

6.3 PROPOSED MONITORING WELL CHANGES

No changes to the monitoring wells are recommended at this time.

Tables

Table 1
Monitoring Program Summary Table
2025 Annual Water Quality Report
Northwest Iowa Area Sanitary Landfill
Permit No. 84-SDP-01-74P

Monitoring Well	Formation[1]	Current Monitoring Program	Change for next sampling event	Constituents with SSIs during the 2025 Reporting Period	Constituents with SSLs	Total # of Samples in each monitoring program		
						Detection	Assessment	Corrective Action
HSMP Monitoring Points								
UG-90	Glacial Clay	Background	No change	Not applicable	Not applicable	39		
UG-201	Loam/Glacial Clay	Background	No change	Not applicable	Not applicable	35		
DG-901	Loam/Glacial Clay	Assessment	No change	Arsenic	None		37	
DG-905	Loam/Glacial Clay	Assessment	No change	None	None		38	
DG-1001	Loam/Glacial Clay	Detection	No change	None	Not applicable	37		
DG-1005	Loam/Glacial Clay	Assessment	No change	None	None		36	
DG-1101	Loam/Glacial Clay	Assessment	No change	None	None		38	
DG-1105R	Loam/Glacial Clay	Detection	No change	None	Not applicable	34		
DG-1201	Loam/Glacial Clay	Assessment	No change	None	None		37	
DG-1205	Loam/Glacial Clay	Assessment	No change	1,1-Dichloroethane, 1,2-Dichloropropane, Dichlorodifluoromethane	None		38	
DG-1301	Loam/Glacial Clay	Corrective Action	No change	1,1-Dichloroethane, 1,2-Dichloropropane, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, Trichloroethene	Trichloroethene			40
DG-1305	Loam/Glacial Clay	Assessment	No change	1,1-Dichloroethane, Chlorobenzene, cis-1,2-Dichloroethene	None		38	
DG-1401R	Silty Clay/Sand/Gravel	Assessment	No change	1,1-Dichloroethane	None		36	
DGP-1500	Silty Sandy Clay	Corrective Action	Corrective Action	Arsenic, Benzene, Bis[2-ethylhexyl]phthalate, Carbon Disulfide, Sulfide	Arsenic			28
TDG-301	Glacial Clay	Detection	No change	None	Not applicable	37		
TDG-305	Glacial Clay	Detection		None	Not applicable	37		
GU-9	Not applicable	Detection	No change	Not applicable (no samples)	Not applicable	0		
GU-10	Not applicable	Detection	No change	Not applicable (no samples)	Not applicable	0		
GU-11	Not applicable	Detection	No change	Not applicable (no samples)	Not applicable	0		
GU-12	Not applicable	Detection	No change	Not applicable (no samples)	Not applicable	0		
GU-13	Not applicable	Detection	No change	Not applicable (no samples)	Not applicable	15		
GU-14	Not applicable	Detection	No change	Not applicable (no samples)	Not applicable	16		
GU-15	Not applicable	Detection	No change	Not applicable (no samples)	Not applicable	17		
SW-101	Not applicable	Detection	No change	Acetone	Not applicable	28		

Table 1
Monitoring Program Summary Table
2025 Annual Water Quality Report
Northwest Iowa Area Sanitary Landfill
Permit No. 84-SDP-01-74P

Monitoring Well	Formation[1]	Current Monitoring Program	Change for next sampling event	Constituents with SSIs during the 2025 Reporting Period	Constituents with SSLs	Total # of Samples in each monitoring program		
						Detection	Assessment	Corrective Action
Other monitoring points								
MW-15	Loam/Glacial Clay	Impact Delineation for SSL at DG-1301						
MW-16	Loam/Glacial Clay	Impact Delineation for SSL at DG-1301						
MW-17	Loam/Glacial Clay	Impact Delineation for SSL at DG-1301						
MW-18	Loam/Glacial Clay	Impact Delineation for SSL at DG-1301						
ORG-MW	Loam/Glacial Clay	Impact Delineation for SSL at DG-1301						
MWP-7	Loam/Glacial Clay	Impact Delineation for SSL at DG-1301						

Notes:
(1) Obtained from screened interval on boring logs.
SSI = Statistically Significant Increase above background.
SSL = Statistically Significant Level above groundwater protection standard.

Table 2
Monitoring Program Implementation Schedule
2025 Annual Water Quality Report
Northwest Iowa Area Sanitary Landfill
Permit No. 84-SDP-01-74P

Monitoring Well	Recent Sampling Dates and Constituents					Full Appendix II Sample Dates	
	April 2025	June 2025	November 2025	1st 2026 Semi-Annual	2nd 2026 Semi-Annual	Previously Collected	Next Event
UG-90		Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	8/11/2009	Not applicable
UG-201		Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	8/11/2009	Not applicable
TDG-301		Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
TDG-305		Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
DG-609		Geochemistry	Geochemistry, Total Organic Carbon			Not applicable	Not applicable
DG-901		Appendix I, TSS, Geochemistry	Appendix I, TSS, Geochemistry	Appendix II, TSS	Appendix I, TSS	5/20/2020, 5/25/2021	2026
DG-905		Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	3/26/2013, 3/26/2014, 5/7/2019, 7/10/2024	2029
DG-1001		Appendix I, TSS, Geochemistry	Appendix I, TSS, Geochemistry, Total Organic Carbon	Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
DG-1005		Appendix II, TSS, Geochemistry	Appendix I, TSS, Geochemistry, Total Organic Carbon	Appendix I, TSS	Appendix I, TSS	3/26/2014, 3/31/2015, 5/20/2020, 6/10/2025	2030
DG-1101	Cobalt, TSS	Appendix I, TSS, Geochemistry	Appendix II, TSS, Geochemistry	Appendix I, TSS	Appendix I, TSS	3/26/2013, 5/6/2014, 9/29/2014, 5/7/2019, 7/10/2024	2029
DG-1105R		Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
DG-1201		Appendix I, TSS	Appendix I, TSS	Appendix II, TSS	Appendix I, TSS	12/1/2015, 9/20/2016, 5/5/2021	2026
DG-1205		Appendix I, TSS, Dichlorodifluoromethane	Appendix I, TSS, Dichlorodifluoromethane	Appendix I, TSS, Dichlorodifluoromethane	Appendix I, TSS, Dichlorodifluoromethane	8/11/2009, 9/29/2009, 4/6/2010, 6/17/2010, 12/6/2010, 5/17/2011, 9/27/2011, 5/2/2012, 8/15/2012, 9/25/2012, 4/11/2017, 7/18/2022	2027
DG-1301		Appendix I, TSS, Bis [2-ethylhexyl] phthalate	Appendix I, TSS, Bis [2-ethylhexyl] phthalate	Appendix I, TSS, Bis [2-ethylhexyl] phthalate	Appendix I, TSS, Bis [2-ethylhexyl] phthalate	8/11/2009, 9/29/2009, 4/6/2010, 6/17/2010, 12/6/2010, 5/17/2011, 9/27/2011, 5/2/2012, 9/25/2012, 4/11/2017, 7/6/2022	2027
DG-1305		Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	8/11/2009, 9/29/2009, 4/6/2010, 6/17/2010, 12/6/2010, 5/17/2011, 9/27/2011, 5/2/2012, 8/15/2012, 9/25/2012, 4/11/2017, 7/11/2022	2027
DG-1401R		Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	8/11/2009, 9/29/2009, 4/6/2010, 6/17/2010, 12/6/2010, 5/17/2011, 9/27/2011, 5/2/2012, 9/25/2012, 4/11/2017, 7/7/2022	2027
DGP-1500		Appendix II, TSS, Natural Attenuation, Geochemistry, Arsenic Speciation, Sulfide	Appendix I, TSS, Natural Attenuation, Geochemistry, Arsenic Speciation, Sulfide, Total Organic Carbon, Bis [2-ethylhexyl] phthalate	Appendix I, TSS, Bis [2-ethylhexyl] phthalate	Appendix I, TSS, Bis [2-ethylhexyl] phthalate	9/29/2014, 8/25/2015, 5/20/2020, 6/11/2025	2030
GU-9		No Sample (Dry)	No Sample (Dry)	Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
GU-10		No Sample (Dry)	No Sample (Dry)	Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
GU-11		No Sample (Dry)	No Sample (Dry)	Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
GU-12		No Sample (Dry)	No Sample (Dry)	Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
GU-13	No Sample (Dry)	No Sample (Dry)	No Sample (Dry)	Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
GU-14		No Sample (Dry)	No Sample (Dry)	Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
GU-15	No Sample (Dry)	No Sample (Insufficient Water)	No Sample (Insufficient Water)	Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
SW-101	Acetone	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
Sediment Pond Discharge	Acetone	Acetone				Not applicable	Not applicable
MW-P1		Geochemistry	Geochemistry			Not applicable	Not applicable
MWP-7		Trichloroethene	Trichloroethene	Trichloroethene	Trichloroethene	Not applicable	Not applicable
MWP-14			Geochemistry, Total Organic Carbon			Not applicable	Not applicable
MW-15		Trichloroethene	Trichloroethene	Trichloroethene	Trichloroethene	Not applicable	Not applicable
MW-16		Trichloroethene	Trichloroethene	Trichloroethene	Trichloroethene	Not applicable	Not applicable
MW-17		Trichloroethene	Trichloroethene	Trichloroethene	Trichloroethene	Not applicable	Not applicable
MW-18		Trichloroethene	Trichloroethene	Trichloroethene	Trichloroethene	Not applicable	Not applicable
ORG-MW		Trichloroethene	Trichloroethene	Trichloroethene	Trichloroethene	Not applicable	Not applicable

Comments:
Geochemistry includes bicarbonate, carbonate, calcium, magnesium, potassium, chloride, sodium, and sulfate.
Natural Attenuation includes total organic carbon, nitrate, manganese, iron, and sulfate.
Arsenic Speciation includes arsenite and arsenate.

Table 3
Monitoring Well Maintenance and Performance Re-Evaluation Schedule
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Compliance with:	Monitoring Calendar Years				
	2023	2024	2025	2026	2027
567 IAC 113.10(2)"f"(1) high and low water levels (biennial)	Completed	Completed	Included[1]	Scheduled	Scheduled
567 IAC 113.10(2)"f"(2) changes in the hydrologic setting and flow paths	Completed	Completed	Included[2]	Scheduled	Scheduled
567 IAC 113.10(2)"f"(3) well depths	Completed	Completed	Included[1]	Scheduled	Scheduled
567 IAC 113.10(2)"f"(4) well recharge rates and chemistry (biennial)		Completed		Scheduled	
Waste separation from ground water 113.6(2)l	Not applicable	Not applicable	Included[1]	Scheduled	Scheduled

Notes:
(1) See Table 4.
(2) See Section 2.2.

Table 4
Monitoring Well Performance and Maintenance Summary
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Well	Top of casing	Top of Screen	Total Depth		Date of Measurements		Maximum Depth Discrepancy (ft)
					6/2025	11/2025	
UG-90	1389.83	1373.0	26.7	Groundwater Level (ft)	7.97	8.89	-0.4
				Groundwater Elevation (Ft MSL)	1381.86	1380.94	
				Measured Well Depth (ft)	26.9	27.1	
				Submerged screen	Y	Y	
UG-201	1411.23	1375.5	55.5	Groundwater Level (ft)	33.30	34.00	1.0
				Groundwater Elevation (Ft MSL)	1377.93	1377.23	
				Measured Well Depth (ft)	54.7	54.5	
				Submerged screen	Y	Y	
DG-901	1374.69	1364.2	25.5	Groundwater Level (ft)	17.20	19.07	-0.5
				Groundwater Elevation (Ft MSL)	1357.49	1355.62	
				Measured Well Depth (ft)	26.0	25.6	
				Submerged screen	N	N	
DG-905	1365.56	1354.0	20.8	Groundwater Level (ft)	12.35	11.38	-0.3
				Groundwater Elevation (Ft MSL)	1353.21	1354.18	
				Measured Well Depth (ft)	20.9	21.1	
				Submerged screen	N	Y	
DG-1001	1352.93	1345.9	16.0	Groundwater Level (ft)	7.00	8.04	-0.1
				Groundwater Elevation (Ft MSL)	1345.93	1344.89	
				Measured Well Depth (ft)	16.1	16.1	
				Submerged screen	Y	N	
DG-1005	1352.60	1342.4	20.2	Groundwater Level (ft)	5.21	6.29	4.8
				Groundwater Elevation (Ft MSL)	1347.39	1346.31	
				Measured Well Depth (ft)	15.4	15.4	
				Submerged screen	Y	Y	
DG-1101	1351.47	1348.6	20.1	Groundwater Level (ft)	7.94	10.40	5.4
				Groundwater Elevation (Ft MSL)	1343.53	1341.07	
				Measured Well Depth (ft)	14.7	14.7	
				Submerged screen	N	N	
DG-1105R	1355.21	NA	20.0	Groundwater Level (ft)	4.02	6.15	1.6
				Groundwater Elevation (Ft MSL)	1351.19	1349.06	
				Measured Well Depth (ft)	18.4	18.4	
				Submerged screen	NA	NA	
DG-1201	1357.59	1350.0	22.8	Groundwater Level (ft)	7.50	9.75	6.5
				Groundwater Elevation (Ft MSL)	1350.09	1347.84	
				Measured Well Depth (ft)	16.4	16.3	
				Submerged screen	Y	N	
DG-1205	1360.49	1353.7	21.1	Groundwater Level (ft)	8.61	11.40	-0.1
				Groundwater Elevation (Ft MSL)	1351.88	1349.09	
				Measured Well Depth (ft)	21.2	21.2	
				Submerged screen	N	N	
DG-1301	1368.75	1353.1	25.1	Groundwater Level (ft)	17.52	18.85	0.9
				Groundwater Elevation (Ft MSL)	1351.23	1349.90	
				Measured Well Depth (ft)	24.2	25.3	
				Submerged screen	N	N	
DG-1305	1365.80	1355.1	20.2	Groundwater Level (ft)	12.81	14.14	0.1
				Groundwater Elevation (Ft MSL)	1352.99	1351.66	
				Measured Well Depth (ft)	20.2	20.1	
				Submerged screen	N	N	
DG-1401R	1368.22	1357.3	20.3	Groundwater Level (ft)	15.55	16.85	0.1
				Groundwater Elevation (Ft MSL)	1352.67	1351.37	
				Measured Well Depth (ft)	20.2	20.2	
				Submerged screen	N	N	
DGP-1500	1358.94	1340.5	28.4	Groundwater Level (ft)	10.40	12.50	-0.3
				Groundwater Elevation (Ft MSL)	1348.54	1346.44	
				Measured Well Depth (ft)	28.7	28.6	
				Submerged screen	Y	Y	

Table 4
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Well	Top of casing	Top of Screen	Total Depth		Date of Measurements		Maximum Depth Discrepancy (ft)
					6/2025	11/2025	
TDG-301	1383.26	1372.4	20.3	Groundwater Level (ft)	6.75	7.97	-0.5
				Groundwater Elevation (Ft MSL)	1376.51	1375.29	
				Measured Well Depth (ft)	20.8	20.5	
				Submerged screen	Y	Y	
TDG-305	1378.08	1371.0	16.2	Groundwater Level (ft)	7.12	9.10	-0.4
				Groundwater Elevation (Ft MSL)	1370.96	1368.98	
				Measured Well Depth (ft)	16.4	16.6	
				Submerged screen	N	N	
MW-15	1366.00	1348.6	27.4	Groundwater Level (ft)	21.75	20.83	-0.7
				Groundwater Elevation (Ft MSL)	1344.25	1345.17	
				Measured Well Depth (ft)	27.8	28.1	
				Submerged screen	N	N	
MW-16	1368.86	1351.7	27.2	Groundwater Level (ft)	24.00	23.85	-0.5
				Groundwater Elevation (Ft MSL)	1344.86	1345.01	
				Measured Well Depth (ft)	27.7	27.3	
				Submerged screen	N	N	
MW-17	1366.00	1332.3	44.1	Groundwater Level (ft)	21.74	21.65	-2.1
				Groundwater Elevation (Ft MSL)	1344.26	1344.35	
				Measured Well Depth (ft)	46.1	46.0	
				Submerged screen	Y	Y	
MW-18	1365.50	1335.5	39.2	Groundwater Level (ft)	21.26	21.15	-1.8
				Groundwater Elevation (Ft MSL)	1344.24	1344.35	
				Measured Well Depth (ft)	41.0	40.9	
				Submerged screen	Y	Y	
MWP-7	1367.68	NA	NA	Groundwater Level (ft)	17.24	18.55	NA
				Groundwater Elevation (Ft MSL)	1350.44	1349.13	
				Measured Well Depth (ft)	40.3	40.3	
				Submerged screen	NA	NA	
Original North Well	NA	NA	NA	Groundwater Level (ft)	23.10	22.99	NA
				Groundwater Elevation (Ft MSL)	NA	NM	
				Measured Well Depth (ft)	32.3	32.3	
				Submerged screen	NA	NA	

Notes:

NA - Not Available.

NM - Not Measured.

1) Measured depths were within 1.8 feet of the installed depths with the following exceptions:

Monitoring wells DG-1005, DG-1101, and DG-1201 were measured significantly shallower than their installed depths during the 2025 sampling events. However, the measured depths have remained consistent over multiple years. As the monitoring wells consistently produce samples, no maintenance is considered necessary at this time.

Monitoring wells MW-17 had a measured depth deeper than the installed depth during the 2025 sampling events. The MW-17 measured depth has fluctuated over the last few years and the depth will be confirmed during the 2026 reporting period.

Groundwater/Waste Separation

The groundwater elevations measured during the 2025 semi-annual sampling events at monitoring well DG-901were 3.5 feet to 5.4 feet below the base of waste in the east-central portion of the Cells 19 & 20 Expansion. The base of waste was assumed as the liner grade from Sheet 2 of the Construction Observation Report, Cells 19 & 20 Expansion (Doc #77823) plus a one-foot sand drainage layer. In addition, groundwater underdrain discharge point GU-15, which is the discharge point for the Cells 19 & 20 and Cell 25 groundwater underdrains, had insufficient flow to produce a sample during the 2025 sampling events. Therefore, it appears the groundwater/waste separation was maintained during this reporting period.

Table 5
Background and GWPS Summary Tables
2025 Annual Water Quality Report
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Interwell Background/GWPS (UG-90 and UG-201)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	74	14	0.000227*	0.0139	0.00252	0.0139	PL (NP)	0.0139	SSS
Arsenic (As)	mg/L	74	27	0.0005 (1/2 RL)	0.00555	0.00119	0.00555	PL (NP)	0.01	MCL
Barium (Ba)	mg/L	74	74	0.0135	0.136	0.02856	0.136	PL (NP)	2	MCL
Beryllium (Be)	mg/L	74	1	0.000067*	0.0005 (1/2 RL)	0.00049	0.0005	PL (NP)	0.004	MCL
Cadmium (Cd)	mg/L	74	12	0.00005 (1/2 RL)	0.00075 (1/2 RL)	0.00021	0.00075	PL (NP)	0.005	MCL
Chromium (Cr)	mg/L	74	6	0.000443*	0.01 (1/2 RL)	0.00583	0.01	PL (NP)	0.1	MCL
Cobalt (Co)	mg/L	46	34	0.00004*	0.00566	0.00066	0.001831	PL (P)	0.0021	SWS
Copper (Cu)	mg/L	74	15	0.000894*	0.0423	0.00708	0.0423	PL (NP)	1.3	MCL
Lead (Pb)	mg/L	74	29	0.00025 (1/2 RL)	0.00535	0.00144	0.00535	PL (NP)	0.015	MCL
Nickel (Ni)	mg/L	74	19	0.001 (1/2 RL)	0.0599	0.01354	0.0599	PL (NP)	0.1	SWS
Selenium (Se)	mg/L	74	23	0.00073*	0.0117	0.00304	0.0117	PL (NP)	0.05	MCL
Silver (Ag)	mg/L	74	6	0.000052*	0.01 (1/2 RL)	0.00493	0.01	PL (NP)	0.1	SWS
Thallium (Tl)	mg/L	74	4	0.000037*	0.0104	0.00091	0.0104	PL (NP)	0.0104	SSS
Vanadium (V)	mg/L	74	14	0.000285*	0.025 (1/2 RL)	0.01264	0.025	PL (NP)	0.035	SWS
Zinc (Zn)	mg/L	74	46	0.005 (1/2 RL)	1.28	0.10031	1.28	PL (NP)	2	SWS

Intrawell Background/GWPS (GU-13)
(9/24/2014 - 5/25/2021)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	12	1	0.000317	0.003 (1/2 RL)	0.00082	0.003	PL (NP)	0.006	MCL
Arsenic (As)	mg/L	12	6	0.000684	0.00322	0.00110	0.00322	PL (NP)	0.01	MCL
Barium (Ba)	mg/L	12	12	0.0221	0.068	0.04760	0.07512	PL (P)	2	MCL
Beryllium (Be)	mg/L	12	1	0.000088	0.0005 (1/2 RL)	0.00047	0.0005	PL (NP)	0.004	MCL
Cadmium (Cd)	mg/L	12	10	0.00005 (1/2 RL)	0.00025 (1/2 RL)	0.00012	0.0002439	PL (P)	0.005	MCL
Chromium (Cr)	mg/L	12	3	0.000491	0.01 (1/2 RL)	0.00279	0.01	PL (NP)	0.1	MCL
Cobalt (Co)	mg/L	12	10	0.000108	0.00712	0.00092	0.00712	PL (NP)	0.00712	SSS
Copper (Cu)	mg/L	12	6	0.0025 (1/2 RL)	0.01 (1/2 RL)	0.00362	0.01	PL (P)	1.3	MCL
Lead (Pb)	mg/L	12	5	0.00025 (1/2 RL)	0.002 (1/2 RL)	0.00052	0.002	PL (P)	0.015	MCL
Nickel (Ni)	mg/L	12	12	0.0051	0.0283	0.01114	0.02595	PL (P)	0.1	SWS
Selenium (Se)	mg/L	12	3	0.00107	0.00406	0.00242	0.00406	PL (NP)	0.05	MCL
Silver (Ag)	mg/L	12	1	0.00025 (1/2 RL)	0.01 (1/2 RL)	0.00125	0.01	PL (NP)	0.1	SWS
Thallium (Tl)	mg/L	12	1	0.000041	0.001 (1/2 RL)	0.00055	0.001	PL (NP)	0.002	MCL
Vanadium (V)	mg/L	12	10	0.000801	0.025 (1/2 RL)	0.00377	0.025	PL (P)	0.035	SWS
Zinc (Zn)	mg/L	12	1	0.005 (1/2 RL)	0.0141	0.00951	0.0141	PL (NP)	2	SWS

Intrawell Background/GWPS (GU-14)
(9/24/2014 - 10/8/2018)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	8	2	0.000189	0.003 (1/2 RL)	0.00086	0.003	PL (NP)	0.006	MCL
Arsenic (As)	mg/L	8	8	0.000628	0.0077	0.00196	0.01066	PL (P)	0.01	MCL
Barium (Ba)	mg/L	9	9	0.0474	0.141	0.07287	0.1491	PL (P)	2	MCL
Beryllium (Be)	mg/L	8	1	0.000064	0.0005 (1/2 RL)	0.00045	0.0005	PL (NP)	0.004	MCL
Cadmium (Cd)	mg/L	8	5	0.000085	0.000273	0.00018	0.0003502	PL (P)	0.005	MCL
Chromium (Cr)	mg/L	8	4	0.000512	0.01 (1/2 RL)	0.00284	0.005728	PL (P)	0.1	MCL
Cobalt (Co)	mg/L	8	7	0.000145	0.00155	0.00079	0.00242	PL (P)	0.00242	SSS
Copper (Cu)	mg/L	8	5	0.0025 (1/2 RL)	0.0168	0.00607	0.02024	PL (P)	1.3	MCL
Lead (Pb)	mg/L	8	4	0.00025 (1/2 RL)	0.002 (1/2 RL)	0.00089	0.002518	PL (P)	0.015	MCL
Nickel (Ni)	mg/L	8	8	0.00649	0.0346	0.01616	0.05044	PL (P)	0.1	SWS
Selenium (Se)	mg/L	8	2	0.000586	0.0025 (1/2 RL)	0.00188	0.0025	PL (NP)	0.05	MCL
Silver (Ag)	mg/L	8	1	0.000073	0.01 (1/2 RL)	0.00160	0.01	PL (NP)	0.1	SWS
Thallium (Tl)	mg/L	8	1	0.000043	0.001 (1/2 RL)	0.00057	0.001	PL (NP)	0.002	MCL
Vanadium (V)	mg/L	8	7	0.000892	0.00633	0.00260	0.007693	PL (P)	0.035	SWS
Zinc (Zn)	mg/L	8	4	0.00541	0.0173	0.01025	0.02446	PL (P)	2	SWS

Table 5
Background and GWPS Summary Tables
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Intrawell Background/GWPS (GU-15)
(7/9/2014 -11/1/2021)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	16	1	0.000402*	0.003 (1/2 RL)	0.00109	0.003	PL (NP)	0.006	MCL
Arsenic (As)	mg/L	16	10	0.0005 (1/2 RL)	0.005 (1/2 RL)	0.00148	0.004132	PL (P)	0.01	MCL
Barium (Ba)	mg/L	19	19	0.0296	0.116	0.05564	0.1373	PL (P)	2	MCL
Beryllium (Be)	mg/L	16	2	0.000075*	0.000762*	0.00049	0.000762	PL (NP)	0.004	MCL
Cadmium (Cd)	mg/L	16	3	0.00005 (1/2 RL)	0.000865	0.00023	0.000865	PL (NP)	0.005	MCL
Chromium (Cr)	mg/L	16	3	0.00111*	0.0125 (1/2 RL)	0.00435	0.0125	PL (NP)	0.1	MCL
Cobalt (Co)	mg/L	17	13	0.000192*	0.00834	0.00170	0.02104	PL (P)	0.02104	SSS
Copper (Cu)	mg/L	16	8	0.00127*	0.02	0.00448	0.02	PL (NP)	1.3	MCL
Lead (Pb)	mg/L	16	8	0.000136*	0.0096	0.00116	0.0096	PL (NP)	0.015	MCL
Nickel (Ni)	mg/L	18	17	0.00183*	0.0485	0.01876	0.1002	PL (P)	0.1002	SSS
Selenium (Se)	mg/L	16	2	0.000646*	0.0125 (1/2 RL)	0.00284	0.0125	PL (NP)	0.05	MCL
Silver (Ag)	mg/L	16	1	0.00025 (1/2 RL)	0.01 (1/2 RL)	0.00184	0.01	PL (NP)	0.1	SWS
Thallium (Tl)	mg/L	16	2	0.000033*	0.0025 (1/2 RL)	0.00069	0.0025	PL (NP)	0.0025	SSS
Vanadium (V)	mg/L	16	9	0.000514*	0.025 (1/2 RL)	0.00577	0.025	PL (NP)	0.035	SWS
Zinc (Zn)	mg/L	16	4	0.005 (1/2 RL)	0.0567	0.01223	0.0567	PL (NP)	2	SWS

Notes:
Background levels based on calculated prediction limits or reporting limits, as applicable.
* - Indicates a J flag. The concentration is above the method detection limit but below the reporting limit and the concentration is estimated.

Acronyms/Abbreviations:
RL = Reporting Limit
PL = Prediction Limit
DQR = Double Quantification Rule
MCL = EPA Maximum Contaminant Level
SSS = Site-Specific GWPS
NP = Non-Parametric
SWS = Statewide Standard
P = Parametric
GWPS = Groundwater Protection Standard (mg/L)

1) Water quality results and effectiveness of the statistical data evaluation criteria: Statistical evaluations consist of prediction limits, double quantification rule, and confidence intervals/confidence bands, as appropriate. Data from the background wells is not used for development of the confidence intervals or confidence bands.

2) Changes to the previous statistical method during reporting period: None

3) Re-sampling strategy: Retesting is performed on a 1-of-3 scheme for monitoring wells and a 1-of-2 scheme for groundwater underdrain monitoring points.

4) Justification for data exclusion: Laboratory methodology and instrumentation achieved a cobalt reporting limit of 0.02 mg/L prior to and including the September 2012 sampling event. Beginning in 2013, improved laboratory instrumentation provided an increased concentration sensitivity and lower cobalt reporting limit. Due to analytical improvements, cobalt data prior to 2013 is no longer considered representative of groundwater quality at the Landfill and non-detect values of <0.02 mg/L in HMSP monitoring points were removed from the statistical evaluation.

Table 6
Summary of Well/Detected Constituent Pairs With No Previous SSIs
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Well	Constituent	Units	Most recent result	Background Standard
DGP-1500	Bis[2-ethylhexyl] phthalate	µg/L	13.5	<10
	Carbon Disulfide	µg/L	4.03	<1
	Sulfide	mg/L	6.23	<1

Notes:

1) This table represents constituent/well pairs with SSIs indicated during the 2025 reporting period that did not have SSIs indicated during the 2024 reporting period.

Comments:

1) Problems with the current detection network: None.

2) Schedule to implement remedies: None.

3) Alternative constituent or sample frequency changes: None.

4) Significant changes to calculated prediction limits: None.

5) Resampling strategy: Retesting is performed on a 1-of-3 retesting scheme for monitoring wells and a 1-of-2 scheme for groundwater underdrain monitoring points.

Table 7
Summary Table of Ongoing and Newly Identified SSIs
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Well	Constituent	Units	Most recent result	Background Standard	Lower Confidence Limit	GWPS	Sample Dates		
							Initial Exceedance	Resample(s)	5th background sample
DG-901	Arsenic	mg/L	0.00851	0.00555	0	0.01	7/9/2024	NA	4/12/2010
DG-905	None								
DG-1001	None								
DG-1005	None								
DG-1101	None								
DG-1105R	None								
DG-1201	None								
DG-1205	1,1-Dichloroethane	µg/L	2.8	<1	2.008	140	4/3/2009	NA	4/6/2010
	1,2-Dichloropropane	µg/L	1.11	<1	0.7607	5	7/9/2024	NA	4/6/2010
	Dichlorodifluoromethane	µg/L	5.74	<3	4.146	1000	8/11/2009	NA	12/6/2010
DG-1301	1,1-Dichloroethane	µg/L	12.1	<1	4.84	140	4/8/2008	NA	12/9/2008
	1,2-Dichloropropane	µg/L	1	<1	0.5466	5	11/18/2024	NA	12/9/2008
	cis-1,2-Dichloroethene	µg/L	31.7	<1	8.711	70	6/10/2009	NA	12/9/2008
	trans-1,2-Dichloroethene	µg/L	1.06	<1	0.4722	100	5/30/2023	NA	12/9/2008
	Trichloroethene	µg/L	5.44	<1	3.527	5	4/8/2008	NA	12/9/2008
DG-1305	1,1-Dichloroethane	µg/L	3.01	<1	0.5029	140	4/3/2009	NA	4/6/2010
	Chlorobenzene	µg/L	3.72	<1	0	100	6/3/2009	NA	4/6/2010
	cis-1,2-Dichloroethene	µg/L	1.35	<1	0	70	4/3/2009	NA	4/6/2010
DG-1401R	1,1-Dichloroethane	µg/L	2.59	<1	0.913	140	4/3/2009	NA	4/6/2010
DGP-1500	Arsenic	mg/L	0.0123	0.00555	0.01059	0.01	7/9/2024	NA	3/26/2014
	Benzene	µg/L	0.755	<0.5	0.4861	5	5/30/2023	NA	3/26/2014
	Bis[2-ethylhexyl] phthalate	µg/L	13.5	<10	5	6	6/9/2025	NA	4/11/2017
	Carbon Disulfide	µg/L	4.03	<1	0.5	700	11/8/2025	NA	3/26/2014
	Sulfide	mg/L	6.23	<1	0.5	1	6/9/2025	NA	11/18/2025
TDG-301	None								
TDG-305	None								
GU-13	None (no samples)**							Pending	
GU-14	None (no samples)**								
GU-15	None (no samples)**							Pending	
SW-101	Acetone	µg/L	<10	<10	Detection	6300	11/18/2024	NA	9/25/2012

Notes:

1) Shaded rows denote constituent/well pairs with indicated SSIs in 2025 that were not indicated in 2024. Unshaded rows denote constituent/well pairs with indicated SSIs during both the 2024 and 2025 reporting periods.

2) NA - Not Applicable. Resampling does not apply for monitoring points in the assessment and corrective action monitoring programs.

** Pending results from retest. Monitoring points were dry during the 2025 reporting period. The results from the next successful sample collection will be used to verify previously indicated SSIs.

Comments:

1) Problems with the current assessment network: None.

2) Proposed remedies: Not applicable.

4) Plume delineation strategies: TCE is monitored in monitoring wells downgradient of DG-1301.

5) Property owner notifications: Not applicable.

Table 8
Summary Table of Ongoing and Newly Identified SSLs
2025 Annual Water Quality Report
Northwest Iowa Area Sanitary Landfill
Permit No. 84-SDP-01-74P

Well	Constituent	Unit	Most recent result	Upper Confidence Limit	GWPS	Initial Exceedance	Upper Confidence Limit Below GWPS					
							1st Year		2nd Year		3rd Year	
DG-1301	Trichloroethene	µg/L	5.44	8.731	5	2012	NA	NA	NA	NA	NA	NA
DGP-1500	Arsenic	mg/L	0.0123	0.02371	0.01	2024	NA	NA	NA	NA	NA	NA

1) The SSLs in this table were previously reported.

NA indicates that the constituent-monitoring point dataset has not satisfied the statistical requirements of IAC 567-113.10(9)"e"(2), which is identified by the entire confidence interval or any portion of the upper confidence band, as appropriate, being below the GWPS.

Table 9
Summary of Groundwater Chemistry
2025 Annual Water Quality Report
Northwest Iowa Area Sanitary Landfill
Permit No. 84-SDP-01-74P

The Summary of Groundwater Chemistry for this reporting period is located in Appendix C.

Analytical data prior to 2025 is located in the 2024 Annual Water Quality Report, dated March 12, 2025 (Doc #112506).

Table 10
Historical SSI and SSL
2025 Annual Water Quality Report
Northwest Iowa Area Sanitary Landfill
Permit No. 84-SDP-01-74P

Key

SSI - Statistically Significant Increase above background

SSL - Statistically Significant Level above the groundwater protection standard

		Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
Well	**Constituent**	2018	2018	2019	2019	2020	2020	2021	2021	2022	2022	2023	2023	2024	2024	2025	2025
DG-901	Arsenic																
	Cobalt																
	Thallium																
	Acetone																
	Benzene																
DG-905	None																
DG-1001	Cobalt																
	Acetone													*			
DG-1005	Chromium																
	Cobalt																
	Vanadium																
DG-1101	Cobalt																
DG-1105R	None																
DG-1201	1,1-Dichloroethane														NS		
	1,2-Dichloropropane														NS		
DG-1205	1,1-Dichloroethane																
	1,2-Dichloropropane																
	Chloromethane																
	Dichlorodifluoromethane														NS		
DG-1301	Lead																
	1,1-Dichloroethane										NS						
	1,2-Dichloropropane										NS						
	cis-1,2-Dichloroethene										NS						
	Tetrachloroethene										NS						
	Trichloroethene																
	trans-1,2-Dichloroethene																
	Vinyl Chloride										NS						
	Bis [2-ethylhexyl] phthalate										NS						
DG-1305	Barium																
	1,1-Dichloroethane																
	1,2-Dichloropropane																
	1,4-Dichlorobenzene																
	Chlorobenzene																
	cis-1,2-Dichloroethene																
	Vinyl Chloride																
DG-1401R	1,1-Dichloroethane						NS										
DG-1500	Arsenic																
	Benzene																
	Bis[2-ethylhexyl]phthalate																
	Carbon Disulfide																
	Sulfide																
	Toluene																
TDG-301	Cobalt													**			
	Carbon Disulfide																
TDG-305	2,4-D																

Table 10
Historical SSI and SSL
2025 Annual Water Quality Report
Northwest Iowa Area Sanitary Landfill
Permit No. 84-SDP-01-74P

Key

SSI - Statistically Significant Increase above background

SSL - Statistically Significant Level above the groundwater protection standard

		Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
Well	**Constituent**	2018	2018	2019	2019	2020	2020	2021	2021	2022	2022	2023	2023	2024	2024	2025	2025
GU-13	Arsenic						NS	NS	NS	NS	NS		NS		NS	NS	NS
	Barium						NS	NS	NS	NS	NS		NS		NS	NS	NS
	Acetone						NS	NS	NS	NS	NS		NS	***	NS	NS	NS
	Chloroform						NS	NS	NS	NS	NS		NS		NS	NS	NS
GU-14	Copper						NS			NS	NS	***	NS	NS	NS	NS	NS
	Zinc						NS			NS	NS	***	NS	NS	NS	NS	NS
	Acetone						NS			NS	NS		NS	NS	NS	NS	NS
	Bromodichloromethane						NS			NS	NS		NS	NS	NS	NS	NS
	Chloroform						NS			NS	NS		NS	NS	NS	NS	NS
	Toluene						NS			NS	NS		NS	NS	NS	NS	NS
GU-15	Acetone									NS	NS	NS	NS	NS	***	NS	NS
SW-101	Acetone						NS				NS						

Comments:

1) For the 2022 reporting period and earlier, only initial confirmed SSIs were recorded on this table for inorganic compounds. Beginning in the 2023 reporting period, indicated inorganic SSIs are included in this table.

2) SSIs recorded on this table for monitoring points in the assessment and corrective action monitoring programs are not confirmed.

3) A detection of an organic compound or sulfide is recorded as an SSI for this table.

4) Evaluation for SSIs using intrawell statistical methods for the GUs began with the 1st 2019 statistical evaluation.

5) NS - Not Sampled - The monitoring point was dry during the sampling event. In accordance with the statistical method, SSIs were not calculated as no samples were collected.

* - Not confirmed by retesting.

** - Not confirmed by alternative retesting schedule (Doc #111000) or DNR verbal approval (October 18, 2024).

*** - Not confirmed pending retesting. GU-13, GU-14 and GU-15 have been dry since the indicated SSIs so the retests are still pending.

Table 11
Corrective Action Trend Analysis
2025 Annual Water Quality Report
Northwest Iowa Area Sanitary Landfill
Permit No. 84-SDP-01-74P

Well	Current SSL	Trend	Calculated S	Critical S	Total N	Projected Date to Completion*
DG-1301	Trichloroethene	Decreasing	-6	-21	8	2032
DGP-1500	Arsenic	Stable	0	21	8	NA

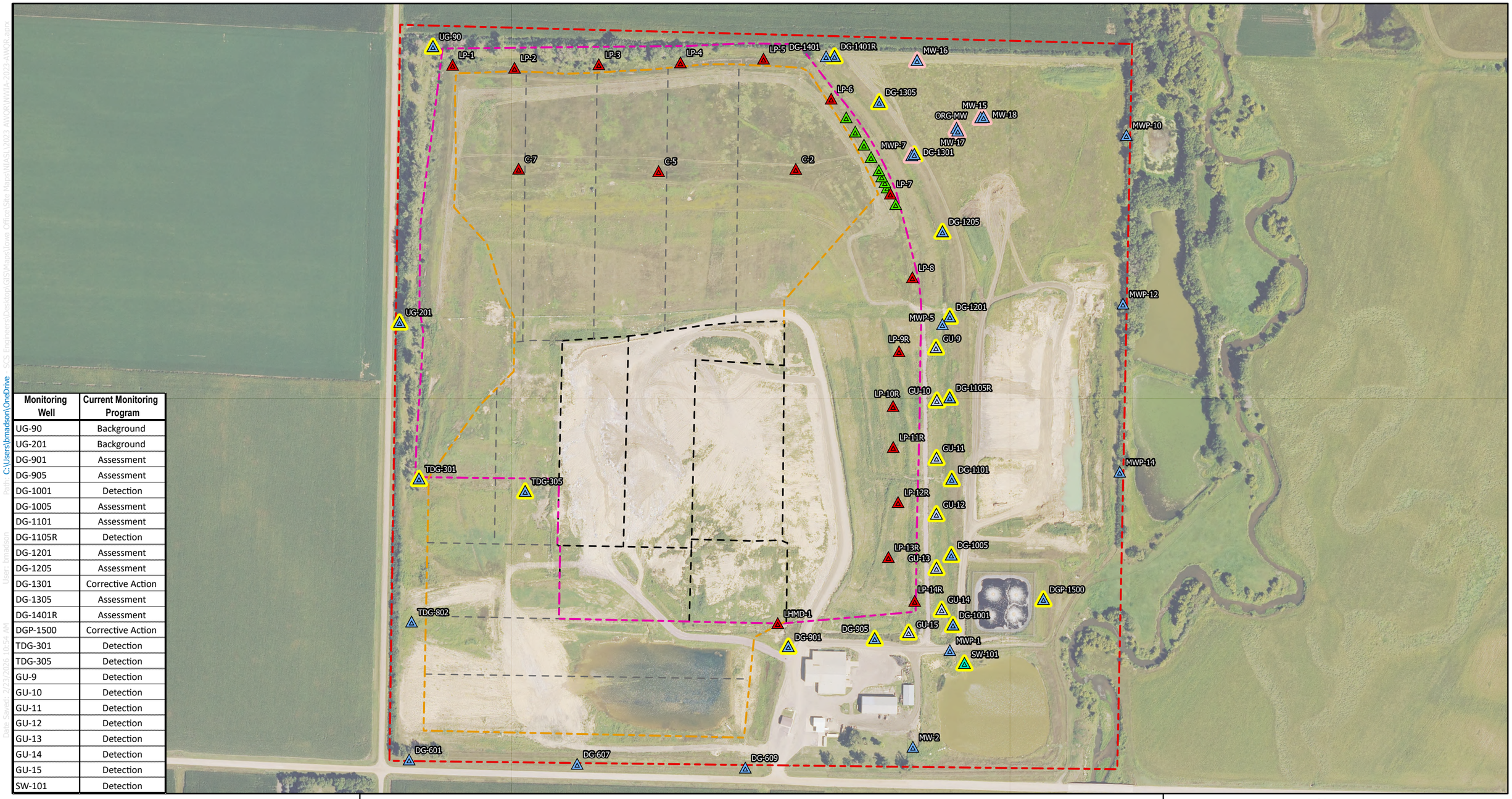
Notes:
N - Number of Samples
S - Mann-Kendall Statistic
NA - Not applicable. A completion date cannot be calculated with a stable trend.
* - To satisfy IAC 113.10(9)"e"; Projected Year of Completion was based on utilizing the Sen's slope calculation to determine when the concentration would be below the GWPS for eight sampling events and remain there for three consecutive years.

Comments:
1) An ACM was submitted to the DNR on March 28, 2017 (Doc #88848) and was approved in DNR correspondence dated April 20, 2017 (Doc #89172).
2) Subsurface venting wells were installed near DG-1301 to vent the subsurface in an effort to reduce trichloroethene concentrations. The trichloroethene concentrations were below the GWPS during the June 2025 sampling event and above the GWPS during the November 2025 sampling event. Sampling will continue to evaluate the effectiveness of the remedy.

Figures

Path: C:\Users\bmadson\OneDrive - SCS Engineers\Desktop\GIS\Maps\Iowa Office\Site Maps\NIAS\2023 AWOR\NWIA-2023-AWOR.aprx
User: bmadson
Date Saved: 2/23/2026 10:54 AM

Monitoring Well	Current Monitoring Program
UG-90	Background
UG-201	Background
DG-901	Assessment
DG-905	Assessment
DG-1001	Detection
DG-1005	Assessment
DG-1101	Assessment
DG-1105R	Detection
DG-1201	Assessment
DG-1205	Assessment
DG-1301	Corrective Action
DG-1305	Assessment
DG-1401R	Assessment
DGP-1500	Corrective Action
TDG-301	Detection
TDG-305	Detection
GU-9	Detection
GU-10	Detection
GU-11	Detection
GU-12	Detection
GU-13	Detection
GU-14	Detection
GU-15	Detection
SW-101	Detection



SCS ENGINEERS
environmental consultants and contractors

Approved Monitoring Network

Legend

- HMSP Monitoring Point
- HMSP Groundwater Underdrain
- HMSP Surface Water Monitoring Point
- Impact Delineation Monitoring Point
- Monitoring Well
- Leachate Piezometers
- Gas Vent
- Approximate Future Waste/Expansion Boundary
- Approximate Waste Boundary
- Approximate Location of Existing Cell Boundary
- Approximate Location of Future Cell Boundary
- Approximate Property Boundary

Northwest Iowa Area Sanitary Landfill
Sheldon, Iowa
Project No: 27225280.26
Drawing Date: February 2026

N W E S

0 265 530 1,060 Feet

Figure 1

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri, CGIAR, USGS, USDA NAIP, Iowa State University GIS Facility

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SCS ENGINEERS
environmental consultants and contractors

Groundwater Contours

Legend

- Approximate Groundwater Contour Based on Field Measurments Taken November 18-20, 2025
- Monitoring Well
- Groundwater Underdrain
- Surface Water Monitoring Point
- Leachate Piezometers
- Gas Vent
- Approximate Future Waste/ Expansion Boundary
- Approximate Waste Boundary
- Approximate Location of Existing Cell Boundary
- Approximate Location of Future Cell Boundary
- Approximate Property Boundary

Northwest Iowa Area Sanitary Landfill
Sheldon, Iowa
Project No: 27225280.26
Drawing Date: February 2026

N
W
E
S

0 265 530 1,060 Feet

Figure 2

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri, CGIAR, USGS, USDA NAIP, Iowa State University GIS Facility

Appendix A
Field Sampling Forms

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DG-1001**	Date:	**4/17/2025**
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):	16.1
Initial Static Water Level (feet):	7.55
Initial Groundwater Elevation (ft-amsl):	1345.38
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
2:53 PM	Purging start time.						
2:56 PM	10.2	0.6	1842.8	6.90	204.4	7.0	
2:59 PM	10.0	0.4	1812.1	6.94	205.7	6.0	
3:02 PM	10.0	0.2	1796.7	6.95	205.6	5.9	
3:05 PM	10.2	0.2	1791.0	6.96	205.1	7.6	
	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-None

FORM FOR SURFACE WATER SAMPLING

Site Name	Northwest Iowa Area Landfill	Permit No.	84-SDP-01-74P
Surface Monitoring Point No.	GU-13	Date	4-17-25
Name of Person Sampling	Konner Roth		

A. TYPE OF MOINITORING POINT

Stream		Open Tile	X
Road Ditch		Tile with Riser	
Drainage Ditch		Other	

B. PURPOSE OF MONITORING POINT

Upstream		Downstream	
Within Landfill	X	Other	

C. MONITORING POINT CONDITIONS/LOCATION

Was monitoring point dry?	Yes
Was water flowing?	NO
Standing Water?	NO
Was water discolored?	X
Does water have odor?	
Was ground discolored?	NO
Litter present?	NO

D. FIELD MEASUREMENTS

Weather Conditions:

Time:

Field Measurements:

Temperature		Units	Celsius
Equipment Used			
pH		Units	Standard units
Equipment Used			
Spec.Conductance		Units	uS/cm
Equipment Used			

COMMENTS Dry

IDNR Form 542-1324

FORM FOR SURFACE WATER SAMPLING

Site Name	Northwest Iowa Area Landfill	Permit No.	84-SDP-01-74P
Surface Monitoring Point No.	GU-15	Date	4-17-25
Name of Person Sampling	Konner Roth		

A. TYPE OF MOINITORING POINT

Stream		Open Tile	X
Road Ditch		Tile with Riser	
Drainage Ditch		Other	

B. PURPOSE OF MONITORING POINT

Upstream		Downstream	
Within Landfill	X	Other	

C. MONITORING POINT CONDITIONS/LOCATION

Was monitoring point dry?	NO
Was water flowing?	NO
Standing Water?	very little
Was water discolored?	NO
Does water have odor?	NO
Was ground discolored?	NO
Litter present?	yes

D. FIELD MEASUREMENTS

Weather Conditions:

Time:

Field Measurements:

Temperature		Units	Celsius
Equipment Used			
pH		Units	Standard units
Equipment Used			
Spec.Conductance		Units	uS/cm
Equipment Used			

COMMENTS To little of water to sample

IDNR Form 542-1324

FORM FOR SURFACE WATER SAMPLING

Site Name	Northwest Iowa Area Landfill	Permit No.	84-SDP-01-74P
Surface Monitoring Point No.	SW-101	Date	4-17-25

Name of Person Sampling: Konner Roth

A. TYPE OF MOINITORING POINT

Stream		Open Tile	X
Road Ditch		Tile with Riser	
Drainage Ditch		Other	

B. PURPOSE OF MONITORING POINT

Upstream		Downstream	
Within Landfill	X	Other	

C. MONITORING POINT CONDITIONS/LOCATION

Was monitoring point dry?	NO
Was water flowing?	NO
Standing Water?	yes
Was water discolored?	yes
Does water have odor?	swampy
Was ground discolored?	NO
Litter present?	NO

D. FIELD MEASUREMENTS

Weather Conditions: 72°F, Cloudy, 15-20mph wind

Time: 15:36

Field Measurements:

Temperature	18.4		Units	Celsius
Equipment Used		ProDSS		
pH	7.88		Units	Standard units
Equipment Used		ProDSS		
Spec.Conductance	2072		Units	uS/cm
Equipment Used		ProDSS		

COMMENTS

IDNR Form 542-1324

FORM FOR SURFACE WATER SAMPLING

Site Name	Northwest Iowa Area Landfill	Permit No.	84-SDP-01-74P
Surface Monitoring Point No.	~~SW-101~~ Sediment Pond	Date	4-17-25
Name of Person Sampling	Konner Roth		

A. TYPE OF MOINITORING POINT

Stream		Open Tile	X
Road Ditch		Tile with Riser	
Drainage Ditch		Other	

B. PURPOSE OF MONITORING POINT

Upstream		Downstream	
Within Landfill	X	Other	

C. MONITORING POINT CONDITIONS/LOCATION

Was monitoring point dry?	NO
Was water flowing?	NO
Standing Water?	yes
Was water discolored?	NO
Does water have odor?	NO
Was ground discolored?	NO
Litter present?	NO

D. FIELD MEASUREMENTS

Weather Conditions: ~~72~~ 72°F, cloudy, 15-20 mph wind

Time: 17:31

Field Measurements:

Temperature	17.9	Units	Celsius
Equipment Used			
pH	~~7~~ 8.01	Units	Standard units
Equipment Used			
Spec.Conductance	2084	Units	uS/cm
Equipment Used			

COMMENTS

IDNR Form 542-1324

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DG-609**	Date:	**6/11/2025**
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):	26.3
Initial Static Water Level (feet):	16.00
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
9:30 AM	Purging start time.						
9:33 AM	13.4	5.0	821.9	7.07	198.6	8.7	
9:36 AM	13.2	4.8	821.3	7.06	199.3	10.9	
9:39 AM	13.2	4.6	819.9	7.05	200.0	17.3	
9:42 AM	13.4	4.5	818.5	7.04	200.4	22.6	
	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-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DG-901**	Date:	**6/11/2025**
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):	26.0
Initial Static Water Level (feet):	17.20
Initial Groundwater Elevation (ft-amsl):	1357.49
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
12:16 PM	Purging start time.						
12:19 PM	16.3	1.2	1468.3	6.67	71.8	38.1	
12:22 PM	15.8	1.0	1458.7	6.68	70.5	32.4	
12:25 PM	15.6	0.9	1453.5	6.68	70.0	22.3	
12:28 PM	15.8	1.1	1452.9	6.68	70.3	19.7	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.3
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	191.67

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DG-905**	Date:	**6/11/2025**
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):	20.9
Initial Static Water Level (feet):	12.35
Initial Groundwater Elevation (ft-amsl):	1353.21
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
12:47 PM	Purging start time.						
12:50 PM	14.9	0.3	1293.8	6.82	46.9	27.7	
12:53 PM	14.7	0.2	1288.3	6.82	31.7	30.1	
12:56 PM	14.7	0.3	1259.9	6.83	23.1	30.5	
12:59 PM	14.6	0.8	1230.3	6.86	20.4	34.6	
	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- Slight sulfur Duplicate 1

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DG-1001**	Date:	**6/10/2025**
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):	16.1
Initial Static Water Level (feet):	7.00
Initial Groundwater Elevation (ft-amsl):	1345.93
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
9:30 AM	Purging start time.						
9:33 AM	13.1	0.4	1976.8	6.86	171.3	4.5	
9:36 AM	13.2	0.3	1927.1	6.87	164.9	4.8	
9:39 AM	13.4	0.2	1916.2	6.87	160.1	6.7	
9:42 AM	14.0	0.2	1909.5	6.87	156.0	11.1	
	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?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DG-1005**	Date:	**6/10/2025**
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):	15.4
Initial Static Water Level (feet):	5.21
Initial Groundwater Elevation (ft-amsl):	1347.39
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
10:01 AM	Purging start time.						
10:04 AM	12.3	0.6	926.7	7.24	-75.5	44.2	
10:07 AM	12.1	0.3	894.9	7.20	-63.3	29.4	
10:10 AM	12.1	0.2	892.3	7.18	-60.0	36.3	
10:13 AM	12.3	0.2	892.0	7.17	-58.7	47.0	
	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-Clear Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DG-1101**	Date:	**6/10/2025**
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):	14.7
Initial Static Water Level (feet):	7.94
Initial Groundwater Elevation (ft-amsl):	1343.53
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
10:47 AM	Purging start time.						
10:50 AM	13.3	0.7	1313.6	6.92	78.5	48.7	
10:53 AM	13.4	0.7	1273.1	6.94	77.2	40.6	
10:56 AM	13.6	1.1	1177.1	6.98	81.5	26.8	
10:59 AM	13.4	1.8	1116.0	7.03	82.3	26.4	
11:02 AM	13.6	2.6	1099.4	7.06	80.9	22.3	
11:05 AM	13.4	3.5	1095.9	7.07	83.5	18.2	
	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):	18:00
Average Purge Rate (mL/min):	116.67

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DG-1105R**	Date:	**6/10/2025**
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):	18.4
Initial Static Water Level (feet):	4.02
Initial Groundwater Elevation (ft-amsl):	1353.88
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
11:29 AM	Purging start time.						
11:32 AM	12.3	0.6	1512.4	7.07	-88.7	27.9	
11:35 AM	12.2	0.3	1506.2	7.09	-113.9	44.2	
11:38 AM	12.3	0.2	1504.0	7.09	-130.9	31.6	
11:41 AM	12.4	0.2	1504.7	7.10	-146.0	34.8	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.2
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	183.33

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear with black particles Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DG-1201**	Date:	**6/10/2025**
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):	16.4
Initial Static Water Level (feet):	7.50
Initial Groundwater Elevation (ft-amsl):	1350.09
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
12:00 PM	Purging start time.						
12:03 PM	14.1	0.5	2158.2	6.59	-7.7	121.3	
12:06 PM	13.4	0.3	2164.8	6.60	0.0	71.0	
12:09 PM	13.4	0.2	2130.7	6.60	-3.9	53.4	
12:12 PM	13.3	0.2	2054.6	6.60	-17.5	37.4	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.2
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	183.33

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Cloudy Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DG-1205**	Date:	**6/10/2025**
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):	21.2
Initial Static Water Level (feet):	8.61
Initial Groundwater Elevation (ft-amsl):	1351.88
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
12:34 PM	Purging start time.						
12:37 PM	13.5	0.4	2943.1	6.65	-35.6	27.2	
12:40 PM	13.8	0.2	2926.8	6.66	-43.4	29.3	
12:43 PM	13.4	0.2	2927.2	6.66	-52.3	29.2	
12:46 PM	13.8	0.2	2842.2	6.67	-62.8	31.1	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.2
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	183.33

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:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DG-1301**	Date:	**6/10/2025**
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):	24.2
Initial Static Water Level (feet):	17.52
Initial Groundwater Elevation (ft-amsl):	1351.23
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
1:25 PM	Purging start time.						
1:28 PM	12.9	0.5	1620.1	6.54	65.5	28.3	
1:31 PM	12.4	0.3	1568.8	6.61	61.5	18.9	
1:34 PM	12.3	0.6	1521.3	6.65	58.4	55.7	
1:37 PM	12.3	1.6	1475.0	6.73	60.3	36.6	
	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:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DG-1305**	Date:	**6/10/2025**
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):	20.2
Initial Static Water Level (feet):	12.81
Initial Groundwater Elevation (ft-amsl):	1352.99
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
2:26 PM	Purging start time.						
2:29 PM	13.9	0.4	967.7	6.85	-47.4	16.1	
2:32 PM	13.7	0.3	779.4	7.01	-81.1	30.5	
2:35 PM	14.0	1.8	633.0	7.10	-80.6	34.4	
2:38 PM	13.9	6.0	548.3	7.20	-58.6	27.5	
2:41 PM	13.6	7.2	540.9	7.24	-30.4	19.3	
2:44 PM	14.3	7.0	548.4	7.24	-7.7	13.7	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	3.1
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	18:00
Average Purge Rate (mL/min):	172.22

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-Sulfur Duplicate 2 Peri tubing added.

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DG-1401R**	Date:	**6/10/2025**
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):	20.2
Initial Static Water Level (feet):	15.55
Initial Groundwater Elevation (ft-amsl):	1352.67
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
3:29 PM	Purging start time.						
3:32 PM	13.9	4.3	1247.2	6.75	73.7	87.8	
3:35 PM	13.5	4.3	1235.4	6.80	66.1	79.4	
3:38 PM	12.9	4.3	1247.6	6.79	70.3	43.9	
3:41 PM	13.9	4.2	1251.5	6.78	80.9	24.0	
	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-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DGP-1500**	Date:	**6/11/2025**
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):	28.7
Initial Static Water Level (feet):	10.40
Initial Groundwater Elevation (ft-amsl):	1348.54
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
1:22 PM	Purging start time.						
1:25 PM	15.8	0.4	744.0	7.38	-190.5	29.8	
1:28 PM	16.7	0.3	740.1	7.41	-227.5	41.6	
1:31 PM	16.1	0.2	744.1	7.42	-242.5	11.1	
1:34 PM	15.9	0.1	740.2	7.44	-252.6	16.7	
	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-Clear with black particles Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-15**	Date:	**6/10/2025**
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):	27.8
Initial Static Water Level (feet):	21.75
Initial Groundwater Elevation (ft-amsl):	1344.25
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
5:30 PM	Purging start time.						
5:33 PM	16.5	4.5	1053.6	6.97	74.2	20.5	
5:36 PM	15.6	4.3	1031.6	6.97	89.7	15.8	
5:39 PM	15.4	4.4	1018.4	6.97	100.9	19.4	
5:42 PM	15.0	4.4	1019.9	6.96	109.4	21.1	
	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-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-16**	Date:	**6/10/2025**
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):	27.7
Initial Static Water Level (feet):	24.00
Initial Groundwater Elevation (ft-amsl):	1344.86
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
4:06 PM	Purging start time.						
4:09 PM	15.5	9.2	666.6	7.08	135.5	65.2	
4:12 PM	15.8	9.4	653.7	7.09	146.4	97.1	
4:15 PM	15.8	9.4	653.0	7.09	154.2	83.7	
4:18 PM	15.5	9.3	654.3	7.08	160.2	55.3	
	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-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-17**	Date:	**6/10/2025**
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):	46.1
Initial Static Water Level (feet):	21.74
Initial Groundwater Elevation (ft-amsl):	1344.26
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
4:57 PM	Purging start time.						
5:00 PM	16.1	0.7	1700.3	6.80	-9.3	4.0	
5:03 PM	15.5	0.4	1705.1	6.81	-19.5	3.7	
5:06 PM	15.8	0.3	1695.5	6.81	-22.8	4.3	
5:09 PM	15.4	0.2	1706.0	6.81	-25.3	3.9	
	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?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-Slight Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-18**	Date:	**6/10/2025**
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):	41.0
Initial Static Water Level (feet):	21.26
Initial Groundwater Elevation (ft-amsl):	1344.24
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
5:51 PM	Purging start time.						
5:54 PM	15.5	3.0	1055.3	7.10	125.6	14.4	
5:57 PM	15.5	2.8	1048.4	7.10	124.8	11.7	
6:00 PM	15.4	2.8	1051.0	7.09	124.4	8.3	
6:03 PM	15.1	2.4	1047.2	7.08	124.4	11.3	
	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-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MWP-1**	Date:	**6/10/2025**
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):	29.8
Initial Static Water Level (feet):	10.60
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
9:07 AM	Purging start time.						
9:10 AM	14.9	6.3	995.7	7.42	136.8	38.8	
9:13 AM	13.0	5.8	982.4	7.33	140.4	46.2	
9:16 AM	12.5	4.0	972.9	7.28	144.1	29.1	
9:19 AM	12.9	4.4	971.9	7.28	147.5	30.4	
	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?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MWP-7**	Date:	**6/10/2025**
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):	40.3
Initial Static Water Level (feet):	17.24
Initial Groundwater Elevation (ft-amsl):	1350.44
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
1:54 PM	Purging start time.						
1:57 PM	16.8	1.9	1625.3	6.69	127.2	5.0	
2:00 PM	16.6	1.7	1616.3	6.70	122.3	3.7	
2:03 PM	16.4	1.6	1617.2	6.71	119.5	4.3	
2:06 PM	16.0	1.6	1618.7	6.71	117.5	4.1	
	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-None Peri tubing added.

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MWP-14**	Date:	**6/11/2025**
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):	29.5
Initial Static Water Level (feet):	17.05
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
8:52 AM	Purging start time.						
8:55 AM	13.1	3.3	769.3	7.34	165.9	4.4	
8:58 AM	12.9	2.8	763.0	7.29	167.5	5.3	
9:01 AM	13.0	1.8	756.7	7.25	167.6	5.4	
9:04 AM	13.0	1.2	748.2	7.22	166.5	5.5	
	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-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**ORG-MW**	Date:	**6/10/2025**
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):	32.3
Initial Static Water Level (feet):	23.10
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
4:36 PM	Purging start time.						
4:39 PM	15.8	7.0	844.7	7.01	148.3	6.9	
4:42 PM	15.0	6.6	874.6	7.02	154.3	10.3	
4:45 PM	15.4	6.3	885.6	7.02	157.8	5.5	
4:48 PM	14.8	6.2	894.5	7.02	159.9	6.6	
	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?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**TDG-301**	Date:	**6/11/2025**
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):	20.8
Initial Static Water Level (feet):	6.75
Initial Groundwater Elevation (ft-amsl):	1376.51
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
11:09 AM	Purging start time.						
11:12 AM	14.9	0.5	3057.6	6.79	-29.4	28.6	
11:15 AM	14.7	0.3	3043.7	6.79	-37.6	22.8	
11:18 AM	14.7	0.2	3031.7	6.79	-48.4	9.1	
11:21 AM	14.9	0.2	3024.2	6.79	-56.2	8.9	
	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-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**TDG-305**	Date:	**6/11/2025**
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):	16.4
Initial Static Water Level (feet):	7.12
Initial Groundwater Elevation (ft-amsl):	1370.96
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
11:39 AM	Purging start time.						
11:42 AM	15.4	0.5	2840.4	6.86	-62.6	183.8	
11:45 AM	15.1	0.3	2811.9	6.86	-76.8	169.2	
11:48 AM	15.1	0.2	2704.5	6.88	-90.4	148.6	
11:51 AM	15.0	0.2	2629.5	6.90	-100.0	141.2	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.2
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	183.33

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear/Cloudy Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**UG-90**	Date:	**6/11/2025**
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):	26.9
Initial Static Water Level (feet):	7.97
Initial Groundwater Elevation (ft-amsl):	1381.86
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
10:40 AM	Purging start time.						
10:43 AM	12.4	0.5	3324.3	6.81	-96.1	7.2	
10:46 AM	12.4	0.3	3328.2	6.80	-101.2	10.4	
10:49 AM	12.2	0.3	3331.9	6.80	-104.6	11.1	
10:52 AM	12.0	0.2	3333.5	6.80	-107.0	14.2	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.2
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	183.33

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**UG-201**	Date:	**6/11/2025**
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):	54.7
Initial Static Water Level (feet):	33.30
Initial Groundwater Elevation (ft-amsl):	1377.93
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
10:05 AM	Purging start time.						
10:08 AM	15.0	1.0	1674.8	7.03	-143.7	32.0	
10:11 AM	13.8	0.6	2088.9	7.02	-142.2	32.4	
10:14 AM	13.5	0.4	2126.9	7.01	-139.2	33.8	
10:17 AM	13.2	0.3	2138.5	7.00	-137.9	30.2	
	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-Sulfur

FORM FOR SURFACE WATER SAMPLING

Site Name: Northwest Iowa Area Landfill
Permit No.: 84-SDP-01-74P
Surface Monitoring Point No.: GU-9
Date: 6-19-25

Name of Person Sampling: Homer Rath

A. TYPE OF MOINITORING POINT

Stream		Open Tile	X
Road Ditch		Tile with Riser	
Drainage Ditch		Other	

B. PURPOSE OF MONITORING POINT

Upstream		Downstream	
Within Landfill	X	Other	

C. MONITORING POINT CONDITIONS/LOCATION

Typically dry.

Was monitoring point dry?	YES
Was water flowing?	NO
Standing Water?	NO
Was water discolored?	N/A
Does water have odor?	N/A
Was ground discolored?	NO
Litter present?	NO

D. FIELD MEASUREMENTS

Weather Conditions: 65°F, Cloudy

Time:

Field Measurements:

Temperature		Units: Celsius
Equipment Used		
pH		Units: Standard units
Equipment Used		
Spec.Conductance		Units: uS/cm
Equipment Used		

COMMENTS: Dry

IDNR Form 542-1324

FORM FOR SURFACE WATER SAMPLING

Site Name: Northwest Iowa Area Landfill
Permit No.: 84-SDP-01-74P
Surface Monitoring Point No.: GU-10
Date: 6-9-25

Name of Person Sampling: Konner Roth

A. TYPE OF MOINITORING POINT

Stream		Open Tile	X
Road Ditch		Tile with Riser	
Drainage Ditch		Other	

B. PURPOSE OF MONITORING POINT

Upstream		Downstream	
Within Landfill	X	Other	

C. MONITORING POINT CONDITIONS/LOCATION

Typically dry.

Was monitoring point dry?	Yes
Was water flowing?	No
Standing Water?	No
Was water discolored?	N/A
Does water have odor?	N/A
Was ground discolored?	No
Litter present?	No

D. FIELD MEASUREMENTS

Weather Conditions: 65° F, Cloudy

Time:

Field Measurements:

Temperature		Units: Celsius
Equipment Used		
pH		Units: Standard units
Equipment Used		
Spec.Conductance		Units: uS/cm
Equipment Used		

COMMENTS: Dry

IDNR Form 542-1324

FORM FOR SURFACE WATER SAMPLING

Site Name: Northwest Iowa Area Landfill
Permit No.: 84-SDP-01-74P
Surface Monitoring Point No.: GU-11
Date: 6-9-25

Name of Person Sampling: Honner Roth

A. TYPE OF MOINITORING POINT

Stream		Open Tile	X
Road Ditch		Tile with Riser	
Drainage Ditch		Other	

B. PURPOSE OF MONITORING POINT

Upstream		Downstream	
Within Landfill	X	Other	

C. MONITORING POINT CONDITIONS/LOCATION

Typically dry.

Was monitoring point dry?	Yes
Was water flowing?	No
Standing Water?	No
Was water discolored?	N/A
Does water have odor?	N/A
Was ground discolored?	No
Litter present?	No

D. FIELD MEASUREMENTS

Weather Conditions: 65°F, Cloudy

Time:

Field Measurements:

Temperature — Units: Celsius
Equipment Used:

pH — Units: Standard units
Equipment Used:

Spec.Conductance — Units: uS/cm
Equipment Used:

COMMENTS: Dry

IDNR Form 542-1324

FORM FOR SURFACE WATER SAMPLING

Site Name	Northwest Iowa Area Landfill	Permit No.	84-SDP-01-74P
Surface Monitoring Point No.	GU-12	Date	6-9-25

Name of Person Sampling: Vhonner Roth

A. TYPE OF MOINITORING POINT

Stream		Open Tile	X
Road Ditch		Tile with Riser	
Drainage Ditch		Other	

B. PURPOSE OF MONITORING POINT

Upstream		Downstream	
Within Landfill	X	Other	

C. MONITORING POINT CONDITIONS/LOCATION

Typically dry.

Was monitoring point dry?	Yes
Was water flowing?	No
Standing Water?	No
Was water discolored?	N/A
Does water have odor?	N/A
Was ground discolored?	No
Litter present?	No

D. FIELD MEASUREMENTS

Weather Conditions: 65°F, Cloudy

Time:

Field Measurements:

Temperature		Units	Celsius
Equipment Used			
pH		Units	Standard units
Equipment Used			
Spec.Conductance		Units	uS/cm
Equipment Used			

COMMENTS: Dry

FORM FOR SURFACE WATER SAMPLING

Site Name: Northwest Iowa Area Landfill
Permit No.: 84-SDP-01-74P
Surface Monitoring Point No.: GU-13
Date: 6-9-25

Name of Person Sampling: Konner Roth

A. TYPE OF MOINITORING POINT

Stream		Open Tile	X
Road Ditch		Tile with Riser	
Drainage Ditch		Other	

B. PURPOSE OF MONITORING POINT

Upstream		Downstream	
Within Landfill	X	Other	

C. MONITORING POINT CONDITIONS/LOCATION

Was monitoring point dry?	Yes
Was water flowing?	No
Standing Water?	No
Was water discolored?	N/A
Does water have odor?	N/A
Was ground discolored?	No
Litter present?	No

D. FIELD MEASUREMENTS

Weather Conditions: 65°F, Cloudy

Time:

Field Measurements:

Temperature		Units: Celsius
Equipment Used		
pH		Units: Standard units
Equipment Used		
Spec.Conductance		Units: uS/cm
Equipment Used		

COMMENTS: Dry

IDNR Form 542-1324

FORM FOR SURFACE WATER SAMPLING

Site Name: Northwest Iowa Area Landfill
Permit No.: 84-SDP-01-74P
Surface Monitoring Point No.: GU-14
Date: 6-9-25

Name of Person Sampling: Honor Roth

A. TYPE OF MOINITORING POINT

Stream		Open Tile	X
Road Ditch		Tile with Riser	
Drainage Ditch		Other	

B. PURPOSE OF MONITORING POINT

Upstream		Downstream	
Within Landfill	X	Other	

C. MONITORING POINT CONDITIONS/LOCATION

Was monitoring point dry? ~~N/O~~ Yes
Was water flowing? ~~Yes~~ NO
Standing Water? ~~Yes~~ NO

Was water discolored? NO
Does water have odor? NO
Was ground discolored? NO
Litter present? Yes

D. FIELD MEASUREMENTS

Weather Conditions: Cloudy, 65°F
Time: 16:04
Field Measurements:

Temperature		Units	Celsius
Equipment Used			
pH		Units	Standard units
Equipment Used			
Spec.Conductance		Units	uS/cm
Equipment Used			

COMMENTS: To little water to get sample

IDNR Form 542-1324

FORM FOR SURFACE WATER SAMPLING

Site Name	Northwest Iowa Area Landfill	Permit No.	84-SDP-01-74P
Surface Monitoring Point No.	GU-15	Date	6-9-25
Name of Person Sampling	Konner Roth		

A. TYPE OF MOINITORING POINT

Stream		Open Tile	X
Road Ditch		Tile with Riser	
Drainage Ditch		Other	

B. PURPOSE OF MONITORING POINT

Upstream		Downstream	
Within Landfill	X	Other	

C. MONITORING POINT CONDITIONS/LOCATION

Was monitoring point dry?	NO
Was water flowing?	yes
Standing Water?	yes
Was water discolored?	NO
Does water have odor?	NO
Was ground discolored?	NO
Litter present?	yes

D. FIELD MEASUREMENTS

Weather Conditions: 65°F, Cloud

Time: 16:00

Field Measurements:

Temperature		Units	Celsius
Equipment Used			
pH		Units	Standard units
Equipment Used			
Spec.Conductance		Units	uS/cm
Equipment Used			

COMMENTS To little water to get sample

IDNR Form 542-1324

FORM FOR SURFACE WATER SAMPLING

Site Name	Northwest Iowa Area Landfill	Permit No.	84-SDP-01-74P
Surface Monitoring Point No.	SW-101	Date	6-9-25

Name of Person Sampling: Konner Roth

A. TYPE OF MOINITORING POINT

Stream		Open Tile	X
Road Ditch		Tile with Riser	
Drainage Ditch		Other	

B. PURPOSE OF MONITORING POINT

Upstream		Downstream	
Within Landfill	X	Other	

C. MONITORING POINT CONDITIONS/LOCATION

Was monitoring point dry?	NO
Was water flowing?	Yes
Standing Water?	Yes
Was water discolored?	NO
Does water have odor?	NO
Was ground discolored?	NO
Litter present?	Yes

D. FIELD MEASUREMENTS

Weather Conditions: 65°F, Cloudy

Time: 17:10

Field Measurements:

Temperature	20.8	Units	Celsius
Equipment Used			
pH	7.95	Units	Standard units
Equipment Used			
Spec.Conductance	1359	Units	uS/cm
Equipment Used			

COMMENTS

FORM FOR SURFACE WATER SAMPLING

Site Name: Northwest Iowa Area Landfill
Surface Monitoring Point No.: Sediment Pond Discharge
Permit No.: 84-SDP-01-74P
Date: 6-4-25

Name of Person Sampling: Konner Roth

A. TYPE OF MOINITORING POINT

Stream		Open Tile	X
Road Ditch		Tile with Riser	
Drainage Ditch		Other	

B. PURPOSE OF MONITORING POINT

Upstream		Downstream	
Within Landfill	X	Other	

C. MONITORING POINT CONDITIONS/LOCATION

Was monitoring point dry? NO
Was water flowing? NO
Standing Water? YES

Was water discolored? NO
Does water have odor? NO
Was ground discolored? NO
Litter present? YES

D. FIELD MEASUREMENTS

Weather Conditions: 65°F, Cloudy
Time: 16:52
Field Measurements:

Temperature: 20.8 Units: Celsius
Equipment Used:

pH: 8.17 Units: Standard units
Equipment Used:

Spec.Conductance: 733 Units: uS/cm
Equipment Used:

COMMENTS

IDNR Form 542-1324

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DG-609**	Date:	**11/20/2025**
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):	26.5
Initial Static Water Level (feet):	18.51
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
8:39 AM	Purging start time.						
8:42 AM	9.3	5.9	730.6	7.19	143.5	7.3	
8:45 AM	9.0	5.4	749.0	7.14	150.0	5.0	
8:48 AM	9.5	3.4	759.4	7.09	152.0	3.4	
8:51 AM	9.8	2.8	766.4	7.07	151.5	3.1	
	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?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DG-901**	Date:	**11/18/2025**
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):	25.6
Initial Static Water Level (feet):	19.07
Initial Groundwater Elevation (ft-amsl):	1355.62
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
4:08 PM	Purging start time.						
4:11 PM	11.6	3.8	1364.0	6.86	-73.2	24.0	
4:14 PM	11.7	3.7	1368.0	6.86	-73.9	23.5	
4:17 PM	11.5	3.6	1358.0	6.88	-74.5	22.2	
4:20 PM	11.4	3.5	1357.0	6.88	-75.1	20.9	
	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-Clear Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DG-905**	Date:	**11/18/2025**
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):	21.1
Initial Static Water Level (feet):	11.38
Initial Groundwater Elevation (ft-amsl):	1354.18
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
2:09 PM	Purging start time.						
2:12 PM	10.8	0.8	1212.5	6.84	156.0	27.1	
2:15 PM	11.0	0.4	1184.2	6.85	119.9	30.2	
2:18 PM	10.9	1.2	1136.2	6.88	102.2	48.4	
2:21 PM	11.1	1.6	1123.0	6.89	102.6	40.9	
	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:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DG-1001**	Date:	**11/19/2025**
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):	16.1
Initial Static Water Level (feet):	8.04
Initial Groundwater Elevation (ft-amsl):	1344.89
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
9:29 AM	Purging start time.						
9:32 AM	10.4	1.9	1713.9	6.92	198.6	7.2	
9:35 AM	10.3	1.5	1721.0	6.91	196.1	5.9	
9:38 AM	10.2	1.4	1720.1	6.93	192.5	5.4	
9:41 AM	10.1	1.2	1723.7	6.93	189.0	4.8	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.2
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	183.33

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DG-1005**	Date:	**11/19/2025**
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):	15.4
Initial Static Water Level (feet):	6.29
Initial Groundwater Elevation (ft-amsl):	1346.31
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
10:11 AM	Purging start time.						
10:14 AM	11.1	1.0	889.4	7.27	165.3	29.7	
10:17 AM	11.3	0.5	869.1	7.24	154.2	62.2	
10:20 AM	11.2	0.4	868.2	7.22	143.5	89.2	
10:23 AM	11.1	0.4	866.7	7.21	135.2	106.7	
	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-Cloudy Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DG-1101**	Date:	**11/19/2025**
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):	14.7
Initial Static Water Level (feet):	10.40
Initial Groundwater Elevation (ft-amsl):	1341.07
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
10:58 AM	Purging start time.						
11:01 AM	11.2	1.2	1219.8	7.00	144.9	66.3	
11:04 AM	11.2	1.1	1217.6	6.98	137.2	60.4	
11:07 AM	11.2	1.1	1230.6	6.96	135.6	71.2	
11:10 AM	11.3	0.9	1239.5	6.96	131.6	75.0	
	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-Cloudy Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DG-1105R**	Date:	**11/19/2025**
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):	18.4
Initial Static Water Level (feet):	6.15
Initial Groundwater Elevation (ft-amsl):	1351.75
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
11:29 AM	Purging start time.						
11:32 AM	10.6	1.1	1410.3	7.30	-98.8	3.6	
11:35 AM	10.8	0.4	1403.2	7.41	-173.8	3.3	
11:38 AM	10.6	0.2	1405.9	7.43	-210.8	3.1	
11:41 AM	10.7	0.1	1401.0	7.47	-233.4	4.2	
	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-Clear with black particles Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DG-1201**	Date:	**11/19/2025**
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):	16.3
Initial Static Water Level (feet):	9.75
Initial Groundwater Elevation (ft-amsl):	1347.84
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
12:12 PM	Purging start time.						
12:15 PM	10.7	0.9	2046.2	6.79	-77.9	36.9	
12:18 PM	10.5	0.6	2042.4	6.76	-69.8	75.5	
12:21 PM	10.5	0.6	2036.7	6.76	-66.0	79.9	
12:24 PM	10.5	0.5	2035.2	6.76	-62.7	67.2	
	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-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DG-1205**	Date:	**11/19/2025**
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):	21.2
Initial Static Water Level (feet):	11.40
Initial Groundwater Elevation (ft-amsl):	1349.09
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
12:51 PM	Purging start time.						
12:54 PM	10.3	0.8	2837.6	6.76	-36.5	11.3	
12:57 PM	10.6	0.4	2831.1	6.75	-57.0	7.3	
1:00 PM	10.6	0.2	2774.5	6.74	-77.4	5.3	
1:03 PM	10.6	0.2	2705.3	6.75	-98.6	5.0	
	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:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DG-1301**	Date:	**11/19/2025**
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):	25.3
Initial Static Water Level (feet):	18.85
Initial Groundwater Elevation (ft-amsl):	1349.90
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
1:30 PM	Purging start time.						
1:33 PM	11.0	1.0	1552.6	6.65	-51.8	9.1	
1:36 PM	11.4	0.4	1440.6	6.68	-43.0	8.4	
1:39 PM	11.5	0.4	1404.3	6.72	-44.2	7.8	
1:42 PM	11.7	0.6	1405.2	6.72	-44.6	6.1	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.2
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	183.33

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:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DG-1305**	Date:	**11/19/2025**
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):	20.1
Initial Static Water Level (feet):	14.14
Initial Groundwater Elevation (ft-amsl):	1351.66
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
2:31 PM	Purging start time.						
2:34 PM	10.4	0.8	1190.2	6.79	-0.8	5.3	
2:37 PM	10.3	0.4	1087.1	6.83	-11.9	7.0	
2:40 PM	10.5	0.2	1005.0	6.88	-28.8	8.3	
2:43 PM	10.3	0.2	903.4	6.97	-56.2	16.7	
	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-Clear Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DG-1401R**	Date:	**11/19/2025**
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):	20.2
Initial Static Water Level (feet):	16.85
Initial Groundwater Elevation (ft-amsl):	1351.37
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
3:08 PM	Purging start time.						
3:11 PM	9.9	2.5	1204.2	6.81	-40.6	67.2	
3:14 PM	10.2	2.4	1201.4	6.80	-30.6	78.1	
3:17 PM	9.9	2.1	1221.2	6.79	-25.8	43.3	
3:20 PM	10.1	1.8	1235.9	6.77	-20.2	20.1	
	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:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**DGP-1500**	Date:	**11/20/2025**
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):	28.6
Initial Static Water Level (feet):	12.50
Initial Groundwater Elevation (ft-amsl):	1346.44
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
10:49 AM	Purging start time.						
10:52 AM	11.0	3.5	831.0	7.62	-122.8	26.6	
10:55 AM	10.9	5.0	828.4	7.69	-149.9	26.3	
10:58 AM	10.9	6.1	826.9	7.78	-155.7	28.7	
11:01 AM	12.1	0.8	712.6	7.61	-174.5	6.0	
11:04 AM	12.1	0.3	705.2	7.62	-212.5	15.6	
11:07 AM	12.3	0.2	701.9	7.62	-234.4	12.8	
	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):	18:00
Average Purge Rate (mL/min):	166.67

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear with black particles Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-15**	Date:	**11/18/2025**
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):	28.1
Initial Static Water Level (feet):	20.83
Initial Groundwater Elevation (ft-amsl):	1345.17
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
11:37 AM	Purging start time.						
11:40 AM	9.2	3.6	959.6	7.13	121.4	21.7	
11:43 AM	9.3	3.2	944.3	7.11	123.3	20.4	
11:46 AM	9.4	3.2	944.3	7.10	126.9	13.7	
11:49 AM	9.3	3.1	943.3	7.10	131.6	12.9	
	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-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-16**	Date:	**11/18/2025**
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):	27.3
Initial Static Water Level (feet):	23.85
Initial Groundwater Elevation (ft-amsl):	1345.01
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
12:24 PM	Purging start time.						
12:27 PM	9.1	8.4	592.3	7.19	172.1	106.0	
12:30 PM	9.1	8.6	576.7	7.17	177.2	85.9	
12:33 PM	9.3	8.7	570.6	7.16	181.0	81.1	
12:36 PM	9.4	8.6	569.1	7.15	184.3	95.0	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.2
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	183.33

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Cloudy Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-17**	Date:	**11/18/2025**
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):	46.0
Initial Static Water Level (feet):	21.65
Initial Groundwater Elevation (ft-amsl):	1344.35
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
11:14 AM	Purging start time.						
11:17 AM	9.2	2.6	1539.5	6.96	191.3	4.3	
11:20 AM	9.4	0.8	1598.7	6.87	190.1	3.2	
11:23 AM	9.2	0.4	1615.1	6.85	181.3	2.9	
11:26 AM	9.1	0.2	1617.0	6.85	157.2	3.0	
	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?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MWP-1**	Date:	**11/18/2025**
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):	29.6
Initial Static Water Level (feet):	14.02
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
1:32 PM	Purging start time.						
1:35 PM	10.0	4.7	852.4	7.39	189.2	35.9	
1:38 PM	9.3	6.6	853.6	7.50	183.0	29.4	
1:41 PM	8.7	7.0	873.0	7.58	181.6	18.3	
1:44 PM	11.3	1.9	926.3	7.27	181.7	6.9	
1:47 PM	11.4	1.5	929.0	7.25	172.3	9.8	
1:50 PM	11.1	4.3	923.8	7.27	170.2	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):	18:00
Average Purge Rate (mL/min):	105.56

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-18**	Date:	**11/18/2025**
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):	40.9
Initial Static Water Level (feet):	21.15
Initial Groundwater Elevation (ft-amsl):	1344.35
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
11:59 AM	Purging start time.						
12:02 PM	9.0	1.5	972.0	7.14	153.2	8.8	
12:05 PM	8.9	1.1	974.3	7.12	150.2	7.2	
12:08 PM	8.9	1.0	975.8	7.11	148.0	7.5	
12:11 PM	8.9	0.3	1006.4	7.09	146.6	7.2	
	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-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MWP-7**	Date:	**11/19/2025**
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):	40.3
Initial Static Water Level (feet):	18.55
Initial Groundwater Elevation (ft-amsl):	1349.13
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
2:04 PM	Purging start time.						
2:07 PM	9.2	1.0	1519.7	6.82	-13.7	3.3	
2:10 PM	9.4	0.4	1515.9	6.79	-7.9	2.8	
2:13 PM	9.5	0.3	1511.2	6.79	-5.4	3.2	
2:16 PM	9.5	0.2	1510.4	6.79	-4.2	2.9	
	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-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MWP-14**	Date:	**11/19/2025**
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):	29.8
Initial Static Water Level (feet):	17.58
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
3:42 PM	Purging start time.						
3:45 PM	10.8	1.2	629.2	7.35	-12.7	5.7	
3:48 PM	11.0	0.6	629.9	7.29	-12.8	3.6	
3:51 PM	11.0	0.4	630.9	7.27	-13.6	3.4	
3:54 PM	11.1	0.3	633.2	7.26	-14.4	3.4	
	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?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**ORG-MW**	Date:	**11/18/2025**
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):	32.3
Initial Static Water Level (feet):	22.99
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
10:51 AM	Purging start time.						
10:54 AM	9.3	7.9	690.7	7.15	189.4	4.7	
10:57 AM	9.5	7.6	682.7	7.10	194.7	4.6	
11:00 AM	9.5	7.4	683.5	7.08	196.6	4.1	
11:03 AM	9.3	7.3	684.8	7.08	197.8	3.8	
	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-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**TDG-301**	Date:	**11/18/2025**
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):	20.5
Initial Static Water Level (feet):	7.97
Initial Groundwater Elevation (ft-amsl):	1370.11
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
2:45 PM	Purging start time.						
2:48 PM	10.1	0.9	3065.0	6.72	31.0	71.6	
2:51 PM	10.9	0.4	3020.7	6.72	-10.6	94.9	
2:54 PM	11.3	0.2	3011.2	6.74	-29.5	94.1	
2:57 PM	11.1	0.2	2978.4	6.75	-40.6	104.8	
	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-Cloudy Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**TDG-305**	Date:	**11/18/2025**
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):	16.6
Initial Static Water Level (feet):	9.10
Initial Groundwater Elevation (ft-amsl):	1368.98
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
2:45 PM	Purging start time.						
2:48 PM	10.1	0.9	3065.0	6.72	31.0	71.6	
2:51 PM	10.9	0.4	3020.7	6.72	-10.6	94.9	
2:54 PM	11.3	0.2	3011.2	6.74	-29.5	94.1	
2:57 PM	11.1	0.2	2978.4	6.75	-40.6	104.8	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.2
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	183.33

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Cloudy Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**UG-90**	Date:	**11/20/2025**
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):	27.1
Initial Static Water Level (feet):	8.89
Initial Groundwater Elevation (ft-amsl):	1380.94
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 Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
9:25 AM	Purging start time.						
9:28 AM	11.8	1.0	3086.2	7.18	2.9	11.5	
9:31 AM	11.7	1.0	3116.3	7.23	-34.4	14.2	
9:34 AM	11.6	2.0	3123.0	7.27	-53.5	15.2	
9:37 AM	11.1	4.9	3126.0	7.39	-62.0	13.8	
	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?	No	
If yes, explain:		

Additional Comments:	Color-Clear with black particles Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Northwest Iowa Area Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**UG-201**	Date:	**11/20/2025**
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):	54.5
Initial Static Water Level (feet):	34.00
Initial Groundwater Elevation (ft-amsl):	1377.23
Equipment Used:	Other

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
10:05 AM	Purging start time.						
10:08 AM	9.6	1.1	1981.4	7.07	-38.7	16.5	
10:11 AM	10.0	0.4	2009.7	7.04	-54.9	18.0	
10:14 AM	10.3	0.9	1999.8	7.06	-63.8	16.8	
10:17 AM	10.3	0.2	1966.2	7.02	-74.0	17.8	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.3
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	191.67

D. WELL MAINTENANCE

Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear with black particles Odor-Sulfur

FORM FOR SURFACE WATER SAMPLING

Site Name: Northwest Iowa Area Landfill
Permit No.: 84-SDP-01-74P
Surface Monitoring Point No.: GU-9
Date: 11-20-25

Name of Person Sampling: Thonner Roth

A. TYPE OF MOINITORING POINT

Stream		Open Tile	X
Road Ditch		Tile with Riser	
Drainage Ditch		Other	

B. PURPOSE OF MONITORING POINT

Upstream		Downstream	
Within Landfill	X	Other	

C. MONITORING POINT CONDITIONS/LOCATION

Typically dry.

Was monitoring point dry?	Yes
Was water flowing?	No
Standing Water?	No
Was water discolored?	
Does water have odor?	
Was ground discolored?	No
Litter present?	No

D. FIELD MEASUREMENTS

Weather Conditions:

Time:

Field Measurements:

Temperature		Units	Celsius
Equipment Used			
pH		Units	Standard units
Equipment Used			
Spec Conductance		Units	uS/cm
Equipment Used			

COMMENTS: DRY

IDNR Form 542-1324

FORM FOR SURFACE WATER SAMPLING

Site Name: Northwest Iowa Area Landfill
Permit No: 84-SDP-01-74P
Surface Monitoring Point No: GU-10
Date: 11-20-25

Name of Person Sampling: Khonner Roth

A. TYPE OF MOINITORING POINT

Stream		Open Tile	X
Road Ditch		Tile with Riser	
Drainage Ditch		Other	

B. PURPOSE OF MONITORING POINT

Upstream		Downstream	
Within Landfill	X	Other	

C. MONITORING POINT CONDITIONS/LOCATION

Typically dry.

Was monitoring point dry?	Yes
Was water flowing?	No
Standing Water?	No
Was water discolored?	
Does water have odor?	
Was ground discolored?	No
Litter present?	No

D. FIELD MEASUREMENTS

Weather Conditions:

Time:

Field Measurements:

Temperature		Units	Celsius
Equipment Used			
pH		Units	Standard units
Equipment Used			
Spec.Conductance		Units	uS/cm
Equipment Used			

COMMENTS Dry

IDNR Form 542-1324

FORM FOR SURFACE WATER SAMPLING

Site Name: Northwest Iowa Area Landfill
Permit No.: 84-SDP-01-74P
Surface Monitoring Point No.: GU-11
Date: 11-20-25

Name of Person Sampling: Konner Roth

A. TYPE OF MOINITORING POINT

Stream		Open Tile	X
Road Ditch		Tile with Riser	
Drainage Ditch		Other	

B. PURPOSE OF MONITORING POINT

Upstream		Downstream	
Within Landfill	X	Other	

C. MONITORING POINT CONDITIONS/LOCATION

Typically dry.

Was monitoring point dry?	Yes
Was water flowing?	No
Standing Water?	No
Was water discolored?	
Does water have odor?	
Was ground discolored?	No
Litter present?	No

D. FIELD MEASUREMENTS

Weather Conditions:

Time:

Field Measurements:

Temperature		Units	Celsius
Equipment Used			
pH		Units	Standard units
Equipment Used			
Spec Conductance		Units	uS/cm
Equipment Used			

COMMENTS Dry

IDNR Form 542-1324

FORM FOR SURFACE WATER SAMPLING

Site Name: Northwest Iowa Area Landfill
Permit No.: 84-SDP-01-74P
Surface Monitoring Point No.: GU-12
Date: 11-20-25

Name of Person Sampling: Thanner Roth

A. TYPE OF MOINITORING POINT

Stream		Open Tile	X
Road Ditch		Tile with Riser	
Drainage Ditch		Other	

B. PURPOSE OF MONITORING POINT

Upstream		Downstream	
Within Landfill	X	Other	

C. MONITORING POINT CONDITIONS/LOCATION

Typically dry.

Was monitoring point dry?	Yes
Was water flowing?	No
Standing Water?	No
Was water discolored?	
Does water have odor?	
Was ground discolored?	No
Litter present?	No

D. FIELD MEASUREMENTS

Weather Conditions:

Time:

Field Measurements:

Temperature		Units	Celsius
Equipment Used			
pH		Units	Standard units
Equipment Used			
Spec Conductance		Units	uS/cm
Equipment Used			

COMMENTS Dry

IDNR Form 542-1324

FORM FOR SURFACE WATER SAMPLING

Site Name: Northwest Iowa Area Landfill
Permit No: 84-SDP-01-74P
Surface Monitoring Point No: GU-13
Date: 11-20-25

Name of Person Sampling: Thomas Roth

A. TYPE OF MOINITORING POINT

Stream		Open Tile	X
Road Ditch		Tile with Riser	
Drainage Ditch		Other	

B. PURPOSE OF MONITORING POINT

Upstream		Downstream	
Within Landfill	X	Other	

C. MONITORING POINT CONDITIONS/LOCATION

Was monitoring point dry? Yes
Was water flowing? No
Standing Water? No

Was water discolored?
Does water have odor?
Was ground discolored? No
Litter present? No

D. FIELD MEASUREMENTS

Weather Conditions:
Time:
Field Measurements:

Temperature — Units: Celsius
Equipment Used

pH — Units: Standard units
Equipment Used

Spec Conductance — Units: uS/cm
Equipment Used

COMMENTS: Dry

IDNR Form 542-1324

FORM FOR SURFACE WATER SAMPLING

Site Name: Northwest Iowa Area Landfill
Permit No.: 84-SDP-01-74P
Surface Monitoring Point No.: GU-14
Date: 11-20-25
Name of Person Sampling: [illegible]

A. TYPE OF MOINITORING POINT

Stream		Open Tile	X
Road Ditch		Tile with Riser	
Drainage Ditch		Other	

B. PURPOSE OF MONITORING POINT

Upstream		Downstream	
Within Landfill	X	Other	

C. MONITORING POINT CONDITIONS/LOCATION

Was monitoring point dry? Yes
Was water flowing? No
Standing Water? No

Was water discolored?
Does water have odor?
Was ground discolored? No
Litter present? No

D. FIELD MEASUREMENTS

Weather Conditions:
Time:
Field Measurements:

Temperature — Units: Celsius
Equipment Used

pH — Units: Standard units
Equipment Used

Spec Conductance — Units: uS/cm
Equipment Used

COMMENTS: Dry

IDNR Form 542-1324

FORM FOR SURFACE WATER SAMPLING

Site Name: Northwest Iowa Area Landfill
Surface Monitoring Point No.: GU-15
Permit No.: 84-SDP-01-74P
Date: 11-20-25

Name of Person Sampling: Shanner Roth

A. TYPE OF MOINITORING POINT

Stream		Open Tile	X
Road Ditch		Tile with Riser	
Drainage Ditch		Other	

B. PURPOSE OF MONITORING POINT

Upstream		Downstream	
Within Landfill	X	Other	

C. MONITORING POINT CONDITIONS/LOCATION

Was monitoring point dry?	NO
Was water flowing?	NO
Standing Water?	yes — 2"
Was water discolored?	NO
Does water have odor?	NO
Was ground discolored?	NO
Litter present?	yes

D. FIELD MEASUREMENTS

Weather Conditions:

Time:

Field Measurements:

Temperature		Units	Celsius
Equipment Used			
pH		Units	Standard units
Equipment Used			
Spec Conductance		Units	uS/cm
Equipment Used			

COMMENTS: Not enough water to sample

Appendix B-1
Laboratory Analytical Data Sheets

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/4/2025 9:28:30 PM

JOB DESCRIPTION

NWIA Spring 2025 Retest Event
NWIA Sanitary Landfill

JOB NUMBER

310-304691-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

myEOL

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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5/4/2025 9:28:30 PM

Authorized for release by
Samuel Miller, Project Management Assistant I
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Job Narrative
310-304691-1

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 4/21/2025 4:15 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 0.2°C.

GC/MS VOA
Method 8260D: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container: Trip Blank (310-304691-4).

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.

Sample Summary

Client: SCS Engineers
Project/Site: NWIA Spring 2025 Retest Event

Job ID: 310-304691-1
SDG: NWIA Sanitary Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-304691-1	DG-1001	Water	04/17/25 15:14	04/21/25 16:15
310-304691-2	SW-101	Water	04/17/25 15:36	04/21/25 16:15
310-304691-3	Sediment Pond Discharge	Water	04/17/25 17:31	04/21/25 16:15
310-304691-4	Trip Blank	Water	04/17/25 00:00	04/21/25 16:15

Detection Summary

Client: SCS Engineers
Project/Site: NWIA Spring 2025 Retest Event

Job ID: 310-304691-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-1001 — Lab Sample ID: 310-304691-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.000205	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Total Suspended Solids	3.13		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: SW-101 — Lab Sample ID: 310-304691-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	10.4		10.0	3.10	ug/L	1		8260D	Total/NA

Client Sample ID: Sediment Pond Discharge — Lab Sample ID: 310-304691-3

No Detections.

Client Sample ID: Trip Blank — Lab Sample ID: 310-304691-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.56	J	10.0	3.10	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: SCS Engineers
Project/Site: NWIA Spring 2025 Retest Event

Job ID: 310-304691-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-1001
Date Collected: 04/17/25 15:14
Date Received: 04/21/25 16:15

Lab Sample ID: 310-304691-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.000205	J	0.000500	0.000170	mg/L		04/24/25 09:00	04/25/25 14:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	3.13		1.88	1.31	mg/L			04/23/25 09:51	1

Client: SCS Engineers
Project/Site: NWIA Spring 2025 Retest Event

Job ID: 310-304691-1
SDG: NWIA Sanitary Landfill

Client Sample ID: SW-101
Date Collected: 04/17/25 15:36
Date Received: 04/21/25 16:15

Lab Sample ID: 310-304691-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10.4		10.0	3.10	ug/L			04/23/25 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*04/23/25 17:30*	*1*
Dibromofluoromethane (Surr)	*112*		*73 - 130*		*04/23/25 17:30*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*04/23/25 17:30*	*1*

Client: SCS Engineers
Project/Site: NWIA Spring 2025 Retest Event

Job ID: 310-304691-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Sediment Pond Discharge
Date Collected: 04/17/25 17:31
Date Received: 04/21/25 16:15

Lab Sample ID: 310-304691-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			04/23/25 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*04/23/25 17:53*	*1*
Dibromofluoromethane (Surr)	*109*		*73 - 130*		*04/23/25 17:53*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*04/23/25 17:53*	*1*

Client: SCS Engineers
Project/Site: NWIA Spring 2025 Retest Event

Job ID: 310-304691-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Trip Blank
Date Collected: 04/17/25 00:00
Date Received: 04/21/25 16:15

Lab Sample ID: 310-304691-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	4.56	J	10.0	3.10	ug/L			04/29/25 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*04/29/25 21:38*	*1*
Dibromofluoromethane (Surr)	*115*		*73 - 130*		*04/29/25 21:38*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*04/29/25 21:38*	*1*

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
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: NWIA Spring 2025 Retest Event

Job ID: 310-304691-1
SDG: NWIA Sanitary Landfill

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		BFB	DBFM	TOL						
Lab Sample ID	Client Sample ID	(80-120)	(73-130)	(80-120)						
310-304691-2	SW-101	103	112	96						
310-304691-3	Sediment Pond Discharge	108	109	95						
310-304691-4	Trip Blank	103	115	92						
LCS 310-452291/7	Lab Control Sample	99	101	98						
LCS 310-453027/7	Lab Control Sample	99	103	96						
MB 310-452291/6	Method Blank	108	109	97						
MB 310-453027/6	Method Blank	103	118	91						

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Lab Sample ID: MB 310-452291/6
Matrix: Water
Analysis Batch: 452291

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	3.10	ug/L			04/23/25 10:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*04/23/25 10:00*	*1*
Dibromofluoromethane (Surr)	*109*		*73 - 130*		*04/23/25 10:00*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*04/23/25 10:00*	*1*

Lab Sample ID: LCS 310-452291/7
Matrix: Water
Analysis Batch: 452291

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acetone			40.0	34.78		ug/L		87	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*73 - 130*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: MB 310-453027/6
Matrix: Water
Analysis Batch: 453027

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	3.10	ug/L			04/29/25 20:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*04/29/25 20:31*	*1*
Dibromofluoromethane (Surr)	*118*		*73 - 130*		*04/29/25 20:31*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*04/29/25 20:31*	*1*

Lab Sample ID: LCS 310-453027/7
Matrix: Water
Analysis Batch: 453027

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acetone			40.0	37.18		ug/L		93	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*73 - 130*
Toluene-d8 (Surr)	*96*		*80 - 120*

QC Sample Results

Client: SCS Engineers
Project/Site: NWIA Spring 2025 Retest Event

Job ID: 310-304691-1
SDG: NWIA Sanitary Landfill

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-452476/1-A
Matrix: Water
Analysis Batch: 452834

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 452476

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.000500		0.000500	0.000170	mg/L		04/24/25 09:00	04/25/25 13:53	1

Lab Sample ID: LCS 310-452476/2-A
Matrix: Water
Analysis Batch: 452834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 452476

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.100	0.09518		mg/L		95	80 - 120

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

Lab Sample ID: MB 310-452431/1
Matrix: Water
Analysis Batch: 452431

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			04/23/25 09:51	1

Lab Sample ID: LCS 310-452431/2
Matrix: Water
Analysis Batch: 452431

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	112.0		mg/L		112	81 - 116

QC Association Summary

Client: SCS Engineers
Project/Site: NWIA Spring 2025 Retest Event

Job ID: 310-304691-1
SDG: NWIA Sanitary Landfill

GC/MS VOA

Analysis Batch: 452291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304691-2	SW-101	Total/NA	Water	8260D	
310-304691-3	Sediment Pond Discharge	Total/NA	Water	8260D	
MB 310-452291/6	Method Blank	Total/NA	Water	8260D	
LCS 310-452291/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 453027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304691-4	Trip Blank	Total/NA	Water	8260D	
MB 310-453027/6	Method Blank	Total/NA	Water	8260D	
LCS 310-453027/7	Lab Control Sample	Total/NA	Water	8260D	

Metals

Prep Batch: 452476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304691-1	DG-1001	Total/NA	Water	3005A	
MB 310-452476/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-452476/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 452834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304691-1	DG-1001	Total/NA	Water	6020B	452476
MB 310-452476/1-A	Method Blank	Total/NA	Water	6020B	452476
LCS 310-452476/2-A	Lab Control Sample	Total/NA	Water	6020B	452476

General Chemistry

Analysis Batch: 452431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304691-1	DG-1001	Total/NA	Water	I-3765-85	
MB 310-452431/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-452431/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Lab Chronicle

Client: SCS Engineers
Project/Site: NWIA Spring 2025 Retest Event

Job ID: 310-304691-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-1001
Lab Sample ID: 310-304691-1
Date Collected: 04/17/25 15:14
Matrix: Water
Date Received: 04/21/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			452476	QTZ5	EET CF	04/24/25 09:00
Total/NA	Analysis	6020B		1	452834	NFT2	EET CF	04/25/25 14:20
Total/NA	Analysis	I-3765-85		1	452431	HE7K	EET CF	04/23/25 09:51

Client Sample ID: SW-101
Lab Sample ID: 310-304691-2
Date Collected: 04/17/25 15:36
Matrix: Water
Date Received: 04/21/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	452291	WSE8	EET CF	04/23/25 17:30

Client Sample ID: Sediment Pond Discharge
Lab Sample ID: 310-304691-3
Date Collected: 04/17/25 17:31
Matrix: Water
Date Received: 04/21/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	452291	WSE8	EET CF	04/23/25 17:53

Client Sample ID: Trip Blank
Lab Sample ID: 310-304691-4
Date Collected: 04/17/25 00:00
Matrix: Water
Date Received: 04/21/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	453027	WSE8	EET CF	04/29/25 21:38

Laboratory References:

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

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 310-304691-1
Project/Site: NWIA Spring 2025 Retest Event
SDG: NWIA Sanitary Landfill

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

Method Summary

Client: SCS Engineers
Project/Site: NWIA Spring 2025 Retest Event

Job ID: 310-304691-1
SDG: NWIA Sanitary Landfill

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

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310-304691 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State. CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 4-21-25 | TIME 1615 | Received By: CC

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? ↓

All

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE

Thermometer ID. 2 | Correction Factor (°C): 0

• **Temp Blank Temperature** – *If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature*

Uncorrected Temp (°C): 0.2 | Corrected Temp (°C): 0.2

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
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

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Cedar Falls, IA 50613-6907
phone 319.277 2401 fax 319.277 2425

TestAmerica Des Moines SC

Chain of Custody Record

eurofins

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other

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

Client Contact	Project Manager: Sean Marczewski	Site Contact: Brent Kach	Date:	COC No
SCS Engineers	Email. smarczewski@scsengineers com	Lab Contact: Sam Miller	Carrier:	_____ of _____ COCs
1690 All-State Court, Suite 100	Cell 712-661-9682			Sampler
West Des Moines, IA 50265	**Analysis Turnaround Time**			**For Lab Use Only:**
515-631-6160	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client:
	Other:_____			Lab Sampling
Project Name NWIA Spring 2025 Retest Event	☐ 2 weeks			
Site NWIA Sanitary Landfill	☐ 1 week			Job / SDG No
P O # 27223095.25	☐ 2 days			
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Cobalt	Total Suspended Solids	Acetone	Trip Blank	Arsenic	Barium	Sample Specific Notes
DG-1001	4-17-25	15:14	G	H_2O				X	X					
GU-13									X	X		X	X	
GU-15										X				
SW-101	4-17-25	15:36	G	H_2O						X				
Sediment Pond Discharge	4-17-25	17:31	G	H_2O						X				
Trip Blank											X			Please include trip blanks every cooler containing VOC sample containers

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

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please include trip blank. in every cooler containing VOC sample containers

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Konner Roth	SCS	4-21-25/1400			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by: CC 4-21-25 1615	Company	Date/Time

Form No. CA-C-WI-002, Rev. 4.23, dated 4/16/2019

5/4/2025

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-304691-1
SDG Number: NWIA Sanitary Landfill

Login Number: 304691
List Number: 1
Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/30/2025 3:30:55 PM

JOB DESCRIPTION

NWIA - Spring 2025 - HMSP
NWIA Sanitary Landfill

JOB NUMBER

310-308642-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

my EOL

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

Generated
6/30/2025 3:30:55 PM

Authorized for release by
Samuel Miller, Project Management Assistant I
Samuel.Miller@et.eurofinsus.com
(319)595-2008

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Job Narrative
310-308642-1

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 6/12/2025 4:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were -0.2°C, 0.0°C, 1.1°C, 1.3°C, 1.4°C and 1.5°C.

Receipt Exceptions
GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 310-457548 recovered above the upper control limit for Trichlorofluoromethane (-20.8%D). The LCS associated with this CCV passes CCV criteria for the affected analytes; therefore, the data have been reported. The associated sample is:(CCV 310-457548/4).

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-457529 recovered outside of the control limits for trans-1,3-Dichloropropene (-22.6%D). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The associated sample is impacted: (CCV 310-457529/3).

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-457531 recovered outside of the control limits for trans-1,3-Dichloropropene (-24.7%) and Chlorodibromomethane (-20.7%D). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 310-457531/3).

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

GC/MS Semi VOA
Method 8270E: The laboratory control sample (LCS) for preparation batch 310-457705 and analytical batch 310-458666 recovered outside control limits for the following analytes: Famphur. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 310-457705 and analytical batch 310-458666 recovered outside control limits for the following analyte(s): Methapyrilene. Methapyrilene has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

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

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

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

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

Job ID: 310-308642-1 (Continued) Eurofins Cedar Falls

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

HPLC/IC
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.

Sample Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-308642-1	UG-90	Water	06/11/25 11:02	06/12/25 16:15
310-308642-2	UG-201	Water	06/11/25 10:29	06/12/25 16:15
310-308642-3	TDG-301	Water	06/11/25 11:32	06/12/25 16:15
310-308642-4	TDG-305	Water	06/11/25 12:01	06/12/25 16:15
310-308642-5	DG-609	Water	06/11/25 09:51	06/12/25 16:15
310-308642-6	DG-901	Water	06/11/25 12:44	06/12/25 16:15
310-308642-7	DG-905	Water	06/11/25 13:18	06/12/25 16:15
310-308642-8	DG-1001	Water	06/10/25 09:57	06/12/25 16:15
310-308642-9	DG-1005	Water	06/10/25 10:44	06/12/25 16:15
310-308642-10	MW-D1	Water	06/11/25 13:18	06/12/25 16:15
310-308642-11	DG-1101	Water	06/10/25 11:22	06/12/25 16:15
310-308642-12	DG-1105R	Water	06/10/25 11:50	06/12/25 16:15
310-308642-13	DG-1201	Water	06/10/25 12:22	06/12/25 16:15
310-308642-14	DG-1205	Water	06/10/25 12:57	06/12/25 16:15
310-308642-15	DG-1301	Water	06/10/25 13:52	06/12/25 16:15
310-308642-16	DG-1305	Water	06/10/25 15:04	06/12/25 16:15
310-308642-17	DG-1401R	Water	06/10/25 15:52	06/12/25 16:15
310-308642-18	DGP-1500	Water	06/11/25 14:06	06/12/25 16:15
310-308642-19	MW-D2	Water	06/10/25 15:04	06/12/25 16:15
310-308642-20	SW-101	Water	06/09/25 17:10	06/12/25 16:15
310-308642-21	Sediment Pond Discharge	Water	06/09/25 16:52	06/12/25 16:15
310-308642-22	MW-P7	Water	06/10/25 14:08	06/12/25 16:15
310-308642-23	MWP-14	Water	06/11/25 09:10	06/12/25 16:15
310-308642-24	Trip Blank 1	Water	06/11/25 00:00	06/12/25 16:15
310-308642-25	Trip Blank 2	Water	06/11/25 00:00	06/12/25 16:15
310-308642-26	Trip Blank 3	Water	06/11/25 00:00	06/12/25 16:15
310-308642-27	Trip Blank 4	Water	06/11/25 00:00	06/12/25 16:15
310-308642-28	Trip Blank 5	Water	06/11/25 00:00	06/12/25 16:15
310-308642-29	Trip Blank 6	Water	06/11/25 00:00	06/12/25 16:15

Detection Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: UG-90 — Lab Sample ID: 310-308642-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.000821	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0192		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000253	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.00155		0.000500	0.000330	mg/L	1		6020B	Total/NA
Total Suspended Solids	13.7		5.00	3.50	mg/L	1		I-3765-85	Total/NA

Client Sample ID: UG-201 — Lab Sample ID: 310-308642-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.000638	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0590		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000129	J B	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.00222		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.00108		0.000500	0.000330	mg/L	1		6020B	Total/NA
Nickel	0.00235	J	0.00500	0.00230	mg/L	1		6020B	Total/NA
Selenium	0.00144	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Zinc	0.668		0.0200	0.0130	mg/L	1		6020B	Total/NA
Total Suspended Solids	12.3		3.75	2.63	mg/L	1		I-3765-85	Total/NA

Client Sample ID: TDG-301 — Lab Sample ID: 310-308642-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0181		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00132		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00338	J	0.00500	0.00320	mg/L	1		6020B	Total/NA
Nickel	0.00361	J	0.00500	0.00230	mg/L	1		6020B	Total/NA
Total Suspended Solids	4.50		3.75	2.63	mg/L	1		I-3765-85	Total/NA

Client Sample ID: TDG-305 — Lab Sample ID: 310-308642-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00350		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0596		0.00200	0.000660	mg/L	1		6020B	Total/NA
Beryllium	0.000555	J	0.00100	0.000330	mg/L	1		6020B	Total/NA
Cadmium	0.000165	J B	0.000200	0.000100	mg/L	1		6020B	Total/NA
Chromium	0.00859		0.00500	0.00180	mg/L	1		6020B	Total/NA
Cobalt	0.00264		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.0115		0.00500	0.00320	mg/L	1		6020B	Total/NA
Lead	0.00495		0.000500	0.000330	mg/L	1		6020B	Total/NA
Nickel	0.0194		0.00500	0.00230	mg/L	1		6020B	Total/NA
Thallium	0.000772	J	0.00100	0.000570	mg/L	1		6020B	Total/NA
Vanadium	0.0136		0.00500	0.00170	mg/L	1		6020B	Total/NA
Zinc	0.0229		0.0200	0.0130	mg/L	1		6020B	Total/NA
Total Suspended Solids	229		15.0	10.5	mg/L	1		I-3765-85	Total/NA

Client Sample ID: DG-609 — Lab Sample ID: 310-308642-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11.1		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	51.5		5.00	2.10	mg/L	5		9056A	Total/NA
Calcium	97.7		1.00	0.170	mg/L	1		6010D	Total/NA
Magnesium	36.3		1.00	0.120	mg/L	1		6010D	Total/NA
Potassium	1.77	J	2.00	1.10	mg/L	1		6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-609 (Continued) — Lab Sample ID: 310-308642-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	13.7		2.00	1.00	mg/L	1		6010D	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	375		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	375		5.00	2.50	mg/L	1		SM 2320B	Total/NA

Client Sample ID: DG-901 — Lab Sample ID: 310-308642-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.92		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	328		5.00	2.10	mg/L	5		9056A	Total/NA
Calcium	187		1.00	0.170	mg/L	1		6010D	Total/NA
Magnesium	59.9		1.00	0.120	mg/L	1		6010D	Total/NA
Potassium	3.35		2.00	1.10	mg/L	1		6010D	Total/NA
Sodium	17.1		2.00	1.00	mg/L	1		6010D	Total/NA
Arsenic	0.00369		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0215		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000518		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00357	J	0.00500	0.00230	mg/L	1		6020B	Total/NA
Vanadium	0.00239	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	5.25		3.75	2.63	mg/L	1		I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	495		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	495		5.00	2.50	mg/L	1		SM 2320B	Total/NA

Client Sample ID: DG-905 — Lab Sample ID: 310-308642-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.000933	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0340		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000519		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00312	J	0.00500	0.00230	mg/L	1		6020B	Total/NA
Vanadium	0.00189	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	22.5		3.75	2.63	mg/L	1		I-3765-85	Total/NA

Client Sample ID: DG-1001 — Lab Sample ID: 310-308642-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	330		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	85.6		5.00	2.10	mg/L	5		9056A	Total/NA
Calcium	191		1.00	0.170	mg/L	1		6010D	Total/NA
Magnesium	78.4		1.00	0.120	mg/L	1		6010D	Total/NA
Potassium	3.04		2.00	1.10	mg/L	1		6010D	Total/NA
Sodium	18.2		2.00	1.00	mg/L	1		6010D	Total/NA
Barium	0.0515		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000226	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.88		1.88	1.31	mg/L	1		I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	301		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	301		5.00	2.50	mg/L	1		SM 2320B	Total/NA

Client Sample ID: DG-1005 — Lab Sample ID: 310-308642-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.46		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	123		5.00	2.10	mg/L	5		9056A	Total/NA
Calcium	109		1.00	0.170	mg/L	1		6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-1005 (Continued) — Lab Sample ID: 310-308642-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	39.7		1.00	0.120	mg/L	1		6010D	Total/NA
Potassium	2.76		2.00	1.10	mg/L	1		6010D	Total/NA
Sodium	13.2		2.00	1.00	mg/L	1		6010D	Total/NA
Arsenic	0.00219		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0410		0.00200	0.000660	mg/L	1		6020B	Total/NA
Chromium	0.00226	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Cobalt	0.000950		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000404	J	0.000500	0.000330	mg/L	1		6020B	Total/NA
Nickel	0.00296	J	0.00500	0.00230	mg/L	1		6020B	Total/NA
Vanadium	0.00751		0.00500	0.00170	mg/L	1		6020B	Total/NA
Sulfide	0.758	J	1.00	0.231	mg/L	1		9034	Total/NA
Total Suspended Solids	23.5		3.75	2.63	mg/L	1		I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	362		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	362		5.00	2.50	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-D1 — Lab Sample ID: 310-308642-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.823	J	1.00	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	0.614	J	1.00	0.400	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.367	J	1.00	0.210	ug/L	1		8260D	Total/NA
Arsenic	0.000829	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0712		0.00200	0.000660	mg/L	1		6020B	Total/NA
Selenium	0.00153	J	0.00500	0.00140	mg/L	1		6020B	Total/NA

Client Sample ID: DG-1101 — Lab Sample ID: 310-308642-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	33.1		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	217		5.00	2.10	mg/L	5		9056A	Total/NA
Calcium	136		1.00	0.170	mg/L	1		6010D	Total/NA
Magnesium	44.0		1.00	0.120	mg/L	1		6010D	Total/NA
Potassium	2.07		2.00	1.10	mg/L	1		6010D	Total/NA
Sodium	15.3		2.00	1.00	mg/L	1		6010D	Total/NA
Arsenic	0.000617	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0409		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000469	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.00109		0.000500	0.000330	mg/L	1		6020B	Total/NA
Selenium	0.00216	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Vanadium	0.00270	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	18.1		1.88	1.31	mg/L	1		I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	356		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	356		5.00	2.50	mg/L	1		SM 2320B	Total/NA

Client Sample ID: DG-1105R — Lab Sample ID: 310-308642-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.460	J	1.00	0.450	ug/L	1		8260D	Total/NA
Arsenic	0.00407		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0232		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000392	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Total Suspended Solids	6.00		1.88	1.31	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-1201 — Lab Sample ID: 310-308642-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.264	J	1.00	0.220	ug/L	1		8260D	Total/NA
Arsenic	0.000606	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0251		0.00200	0.000660	mg/L	1		6020B	Total/NA
Chromium	0.00242	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Cobalt	0.000723		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00437	J	0.00500	0.00320	mg/L	1		6020B	Total/NA
Lead	0.000885		0.000500	0.000330	mg/L	1		6020B	Total/NA
Nickel	0.00250	J	0.00500	0.00230	mg/L	1		6020B	Total/NA
Vanadium	0.00336	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	36.3		3.75	2.63	mg/L	1		I-3765-85	Total/NA

Client Sample ID: DG-1205 — Lab Sample ID: 310-308642-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.56		1.00	0.220	ug/L	1		8260D	Total/NA
1,2-Dichloropropane	0.891	J	1.00	0.270	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.730	J	1.00	0.210	ug/L	1		8260D	Total/NA
Dichlorodifluoromethane	4.62		3.00	0.250	ug/L	1		8260D	Total/NA
Trichloroethene	0.448	J	1.00	0.430	ug/L	1		8260D	Total/NA
Arsenic	0.00348		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0112		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000470	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000352	J	0.000500	0.000330	mg/L	1		6020B	Total/NA
Nickel	0.00289	J	0.00500	0.00230	mg/L	1		6020B	Total/NA
Vanadium	0.00384	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	33.3		5.00	3.50	mg/L	1		I-3765-85	Total/NA

Client Sample ID: DG-1301 — Lab Sample ID: 310-308642-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	8.98		1.00	0.220	ug/L	1		8260D	Total/NA
1,2-Dichloropropane	0.710	J	1.00	0.270	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	24.7		1.00	0.210	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.868	J	1.00	0.480	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.735	J	1.00	0.270	ug/L	1		8260D	Total/NA
Trichloroethene	4.02		1.00	0.430	ug/L	1		8260D	Total/NA
Vinyl chloride	0.392	J	1.00	0.180	ug/L	1		8260D	Total/NA
Arsenic	0.000591	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0486		0.00200	0.000660	mg/L	1		6020B	Total/NA
Chromium	0.00266	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Cobalt	0.000596		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00440	J	0.00500	0.00320	mg/L	1		6020B	Total/NA
Lead	0.000749		0.000500	0.000330	mg/L	1		6020B	Total/NA
Nickel	0.00353	J	0.00500	0.00230	mg/L	1		6020B	Total/NA
Vanadium	0.00464	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	29.0		5.00	3.50	mg/L	1		I-3765-85	Total/NA

Client Sample ID: DG-1305 — Lab Sample ID: 310-308642-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.655	J	1.00	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	0.523	J	1.00	0.400	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-1305 (Continued) — Lab Sample ID: 310-308642-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.299	J	1.00	0.210	ug/L	1		8260D	Total/NA
Arsenic	0.000893	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0792		0.00200	0.000660	mg/L	1		6020B	Total/NA
Selenium	0.00149	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.50		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: DG-1401R — Lab Sample ID: 310-308642-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.45		1.00	0.220	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.551	J	1.00	0.210	ug/L	1		8260D	Total/NA
Arsenic	0.000948	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0470		0.00200	0.000660	mg/L	1		6020B	Total/NA
Chromium	0.00260	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Cobalt	0.000681		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000465	J	0.000500	0.000330	mg/L	1		6020B	Total/NA
Nickel	0.00361	J	0.00500	0.00230	mg/L	1		6020B	Total/NA
Vanadium	0.00446	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	30.0		3.75	2.63	mg/L	1		I-3765-85	Total/NA

Client Sample ID: DGP-1500 — Lab Sample ID: 310-308642-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.569		0.500	0.220	ug/L	1		8260D	Total/NA
Bis(2-ethylhexyl) phthalate	10.1		10.0	5.50	ug/L	1		8270E	Total/NA
Chloride	4.79	J	5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	61.3		5.00	2.10	mg/L	5		9056A	Total/NA
Calcium	93.5		1.00	0.170	mg/L	1		6010D	Total/NA
Iron	0.388	J	0.500	0.0790	mg/L	1		6010D	Total/NA
Magnesium	26.3		1.00	0.120	mg/L	1		6010D	Total/NA
Manganese	0.552		0.0100	0.00410	mg/L	1		6010D	Total/NA
Potassium	2.29		2.00	1.10	mg/L	1		6010D	Total/NA
Sodium	13.9		2.00	1.00	mg/L	1		6010D	Total/NA
Arsenic	0.0180		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0518		0.00200	0.000660	mg/L	1		6020B	Total/NA
Selenium	0.00154	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Nitrate as N	0.178		0.100	0.0800	mg/L	1		353.2	Total/NA
Sulfide	5.64		1.00	0.231	mg/L	1		9034	Total/NA
Total Organic Carbon	6.98		1.00	0.500	mg/L	1		9060A	Total/NA
Total Suspended Solids	16.7		5.00	3.50	mg/L	1		I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	346		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	346		5.00	2.50	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-D2 — Lab Sample ID: 310-308642-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00118	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0391		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000707		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00339	J	0.00500	0.00230	mg/L	1		6020B	Total/NA
Vanadium	0.00241	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	8.88		1.88	1.31	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: SW-101 — Lab Sample ID: 310-308642-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00982		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.232		0.00200	0.000660	mg/L	1		6020B	Total/NA
Chromium	0.00861		0.00500	0.00180	mg/L	1		6020B	Total/NA
Cobalt	0.00516		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00614		0.00500	0.00320	mg/L	1		6020B	Total/NA
Lead	0.000535		0.000500	0.000330	mg/L	1		6020B	Total/NA
Nickel	0.0335		0.00500	0.00230	mg/L	1		6020B	Total/NA
Selenium	0.00239	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Vanadium	0.00842		0.00500	0.00170	mg/L	1		6020B	Total/NA
Zinc	0.0240		0.0200	0.0130	mg/L	1		6020B	Total/NA
Total Suspended Solids	26.0		15.0	10.5	mg/L	1		I-3765-85	Total/NA

Client Sample ID: Sediment Pond Discharge — Lab Sample ID: 310-308642-21

No Detections.

Client Sample ID: MW-P7 — Lab Sample ID: 310-308642-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	3.29		1.00	0.430	ug/L	1		8260D	Total/NA

Client Sample ID: MWP-14 — Lab Sample ID: 310-308642-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10.2		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	81.1		5.00	2.10	mg/L	5		9056A	Total/NA
Calcium	91.6		1.00	0.170	mg/L	1		6010D	Total/NA
Magnesium	27.0		1.00	0.120	mg/L	1		6010D	Total/NA
Potassium	1.87	J	2.00	1.10	mg/L	1		6010D	Total/NA
Sodium	11.4		2.00	1.00	mg/L	1		6010D	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	312		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	312		5.00	2.50	mg/L	1		SM 2320B	Total/NA

Client Sample ID: Trip Blank 1 — Lab Sample ID: 310-308642-24

No Detections.

Client Sample ID: Trip Blank 2 — Lab Sample ID: 310-308642-25

No Detections.

Client Sample ID: Trip Blank 3 — Lab Sample ID: 310-308642-26

No Detections.

Client Sample ID: Trip Blank 4 — Lab Sample ID: 310-308642-27

No Detections.

Client Sample ID: Trip Blank 5 — Lab Sample ID: 310-308642-28

No Detections.

Client Sample ID: Trip Blank 6 — Lab Sample ID: 310-308642-29

No Detections.

This Detection Summary does not include radiochemical test results.

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: UG-90
Date Collected: 06/11/25 11:02
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-1
Matrix: Water

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			06/14/25 05:35	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/14/25 05:35	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/14/25 05:35	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/14/25 05:35	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/14/25 05:35	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/14/25 05:35	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/14/25 05:35	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/14/25 05:35	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/14/25 05:35	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/14/25 05:35	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/14/25 05:35	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/14/25 05:35	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/14/25 05:35	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/14/25 05:35	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/14/25 05:35	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/14/25 05:35	1
Acetone	<10.0		10.0	3.10	ug/L			06/14/25 05:35	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/14/25 05:35	1
Benzene	<0.500		0.500	0.220	ug/L			06/14/25 05:35	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/14/25 05:35	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/14/25 05:35	1
Bromoform	<5.00		5.00	0.780	ug/L			06/14/25 05:35	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/14/25 05:35	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/14/25 05:35	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/14/25 05:35	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/14/25 05:35	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/14/25 05:35	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/14/25 05:35	1
Chloroform	<3.00		3.00	1.30	ug/L			06/14/25 05:35	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/14/25 05:35	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/14/25 05:35	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/14/25 05:35	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/14/25 05:35	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/14/25 05:35	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/14/25 05:35	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/14/25 05:35	1
Styrene	<1.00		1.00	0.370	ug/L			06/14/25 05:35	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/14/25 05:35	1
Toluene	<1.00		1.00	0.430	ug/L			06/14/25 05:35	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/14/25 05:35	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/14/25 05:35	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/14/25 05:35	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/14/25 05:35	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/14/25 05:35	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/14/25 05:35	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/14/25 05:35	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/14/25 05:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*76 - 130*		*06/14/25 05:35*	*1*

Client Sample ID: UG-90
Date Collected: 06/11/25 11:02
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-1
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*06/14/25 05:35*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*06/14/25 05:35*	*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		06/17/25 09:10	06/26/25 15:49	1
Arsenic	**0.000821**	**J**	0.00200	0.000530	mg/L		06/17/25 09:10	06/26/25 14:37	1
Barium	**0.0192**		0.00200	0.000660	mg/L		06/17/25 09:10	06/26/25 14:37	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/17/25 09:10	06/26/25 14:37	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/17/25 09:10	06/26/25 14:37	1
Chromium	<0.00500		0.00500	0.00180	mg/L		06/17/25 09:10	06/26/25 14:37	1
Cobalt	**0.000253**	**J**	0.000500	0.000170	mg/L		06/17/25 09:10	06/26/25 14:37	1
Copper	<0.00500		0.00500	0.00320	mg/L		06/17/25 09:10	06/26/25 14:37	1
Lead	**0.00155**		0.000500	0.000330	mg/L		06/17/25 09:10	06/26/25 14:37	1
Nickel	<0.00500		0.00500	0.00230	mg/L		06/17/25 09:10	06/26/25 14:37	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/17/25 09:10	06/26/25 14:37	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/17/25 09:10	06/26/25 14:37	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/27/25 09:00	06/27/25 14:52	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		06/17/25 09:10	06/26/25 14:37	1
Zinc	<0.0200		0.0200	0.0130	mg/L		06/17/25 09:10	06/26/25 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**13.7**		5.00	3.50	mg/L			06/13/25 14:04	1

Client Sample ID: UG-201
Date Collected: 06/11/25 10:29
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-2
Matrix: Water

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			06/14/25 05:57	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/14/25 05:57	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/14/25 05:57	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/14/25 05:57	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/14/25 05:57	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/14/25 05:57	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/14/25 05:57	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/14/25 05:57	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/14/25 05:57	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/14/25 05:57	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/14/25 05:57	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/14/25 05:57	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/14/25 05:57	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/14/25 05:57	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/14/25 05:57	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/14/25 05:57	1
Acetone	<10.0		10.0	3.10	ug/L			06/14/25 05:57	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/14/25 05:57	1
Benzene	<0.500		0.500	0.220	ug/L			06/14/25 05:57	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/14/25 05:57	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/14/25 05:57	1
Bromoform	<5.00		5.00	0.780	ug/L			06/14/25 05:57	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/14/25 05:57	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/14/25 05:57	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/14/25 05:57	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/14/25 05:57	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/14/25 05:57	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/14/25 05:57	1
Chloroform	<3.00		3.00	1.30	ug/L			06/14/25 05:57	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/14/25 05:57	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/14/25 05:57	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/14/25 05:57	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/14/25 05:57	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/14/25 05:57	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/14/25 05:57	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/14/25 05:57	1
Styrene	<1.00		1.00	0.370	ug/L			06/14/25 05:57	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/14/25 05:57	1
Toluene	<1.00		1.00	0.430	ug/L			06/14/25 05:57	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/14/25 05:57	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/14/25 05:57	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/14/25 05:57	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/14/25 05:57	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/14/25 05:57	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/14/25 05:57	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/14/25 05:57	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/14/25 05:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*76 - 130*		*06/14/25 05:57*	*1*

Client Sample ID: UG-201
Date Collected: 06/11/25 10:29
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-2
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*06/14/25 05:57*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*06/14/25 05:57*	*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		06/17/25 09:10	06/26/25 16:01	1
Arsenic	**0.000638**	**J**	0.00200	0.000530	mg/L		06/17/25 09:10	06/26/25 14:44	1
Barium	**0.0590**		0.00200	0.000660	mg/L		06/17/25 09:10	06/26/25 14:44	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/17/25 09:10	06/26/25 14:44	1
Cadmium	**0.000129**	**J B**	0.000200	0.000100	mg/L		06/17/25 09:10	06/26/25 14:44	1
Chromium	<0.00500		0.00500	0.00180	mg/L		06/17/25 09:10	06/26/25 14:44	1
Cobalt	**0.00222**		0.000500	0.000170	mg/L		06/17/25 09:10	06/26/25 14:44	1
Copper	<0.00500		0.00500	0.00320	mg/L		06/17/25 09:10	06/26/25 14:44	1
Lead	**0.00108**		0.000500	0.000330	mg/L		06/17/25 09:10	06/26/25 14:44	1
Nickel	**0.00235**	**J**	0.00500	0.00230	mg/L		06/17/25 09:10	06/26/25 14:44	1
Selenium	**0.00144**	**J**	0.00500	0.00140	mg/L		06/17/25 09:10	06/26/25 14:44	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/17/25 09:10	06/26/25 14:44	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/27/25 09:00	06/27/25 14:55	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		06/17/25 09:10	06/26/25 14:44	1
Zinc	**0.668**		0.0200	0.0130	mg/L		06/17/25 09:10	06/26/25 14:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**12.3**		3.75	2.63	mg/L			06/13/25 09:30	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: TDG-301
Date Collected: 06/11/25 11:32
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-3
Matrix: Water

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			06/14/25 06:20	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/14/25 06:20	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/14/25 06:20	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/14/25 06:20	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/14/25 06:20	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/14/25 06:20	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/14/25 06:20	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/14/25 06:20	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/14/25 06:20	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/14/25 06:20	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/14/25 06:20	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/14/25 06:20	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/14/25 06:20	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/14/25 06:20	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/14/25 06:20	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/14/25 06:20	1
Acetone	<10.0		10.0	3.10	ug/L			06/14/25 06:20	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/14/25 06:20	1
Benzene	<0.500		0.500	0.220	ug/L			06/14/25 06:20	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/14/25 06:20	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/14/25 06:20	1
Bromoform	<5.00		5.00	0.780	ug/L			06/14/25 06:20	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/14/25 06:20	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/14/25 06:20	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/14/25 06:20	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/14/25 06:20	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/14/25 06:20	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/14/25 06:20	1
Chloroform	<3.00		3.00	1.30	ug/L			06/14/25 06:20	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/14/25 06:20	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/14/25 06:20	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/14/25 06:20	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/14/25 06:20	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/14/25 06:20	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/14/25 06:20	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/14/25 06:20	1
Styrene	<1.00		1.00	0.370	ug/L			06/14/25 06:20	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/14/25 06:20	1
Toluene	<1.00		1.00	0.430	ug/L			06/14/25 06:20	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/14/25 06:20	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/14/25 06:20	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/14/25 06:20	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/14/25 06:20	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/14/25 06:20	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/14/25 06:20	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/14/25 06:20	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/14/25 06:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*76 - 130*		*06/14/25 06:20*	*1*

Client Sample ID: TDG-301

Date Collected: 06/11/25 11:32
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-3

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*06/14/25 06:20*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*06/14/25 06:20*	*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		06/17/25 09:10	06/27/25 14:28	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		06/17/25 09:10	06/26/25 14:52	1
Barium	**0.0181**		0.00200	0.000660	mg/L		06/17/25 09:10	06/26/25 14:52	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/17/25 09:10	06/26/25 14:52	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/17/25 09:10	06/26/25 14:52	1
Chromium	<0.00500		0.00500	0.00180	mg/L		06/17/25 09:10	06/26/25 14:52	1
Cobalt	**0.00132**		0.000500	0.000170	mg/L		06/17/25 09:10	06/26/25 14:52	1
Copper	**0.00338**	**J**	0.00500	0.00320	mg/L		06/17/25 09:10	06/26/25 14:52	1
Lead	<0.000500		0.000500	0.000330	mg/L		06/17/25 09:10	06/26/25 14:52	1
Nickel	**0.00361**	**J**	0.00500	0.00230	mg/L		06/17/25 09:10	06/26/25 14:52	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/17/25 09:10	06/26/25 14:52	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/17/25 09:10	06/26/25 14:52	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/27/25 09:00	06/27/25 14:57	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		06/17/25 09:10	06/26/25 14:52	1
Zinc	<0.0200		0.0200	0.0130	mg/L		06/17/25 09:10	06/26/25 14:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**4.50**		3.75	2.63	mg/L			06/13/25 09:30	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: TDG-305
Date Collected: 06/11/25 12:01
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-4
Matrix: Water

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			06/14/25 06:43	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/14/25 06:43	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/14/25 06:43	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/14/25 06:43	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/14/25 06:43	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/14/25 06:43	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/14/25 06:43	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/14/25 06:43	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/14/25 06:43	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/14/25 06:43	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/14/25 06:43	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/14/25 06:43	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/14/25 06:43	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/14/25 06:43	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/14/25 06:43	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/14/25 06:43	1
Acetone	<10.0		10.0	3.10	ug/L			06/14/25 06:43	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/14/25 06:43	1
Benzene	<0.500		0.500	0.220	ug/L			06/14/25 06:43	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/14/25 06:43	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/14/25 06:43	1
Bromoform	<5.00		5.00	0.780	ug/L			06/14/25 06:43	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/14/25 06:43	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/14/25 06:43	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/14/25 06:43	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/14/25 06:43	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/14/25 06:43	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/14/25 06:43	1
Chloroform	<3.00		3.00	1.30	ug/L			06/14/25 06:43	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/14/25 06:43	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/14/25 06:43	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/14/25 06:43	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/14/25 06:43	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/14/25 06:43	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/14/25 06:43	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/14/25 06:43	1
Styrene	<1.00		1.00	0.370	ug/L			06/14/25 06:43	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/14/25 06:43	1
Toluene	<1.00		1.00	0.430	ug/L			06/14/25 06:43	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/14/25 06:43	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/14/25 06:43	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/14/25 06:43	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/14/25 06:43	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/14/25 06:43	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/14/25 06:43	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/14/25 06:43	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/14/25 06:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*76 - 130*		*06/14/25 06:43*	*1*

Client Sample ID: TDG-305
Date Collected: 06/11/25 12:01
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-4
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*06/14/25 06:43*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*06/14/25 06:43*	*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		06/17/25 09:10	06/26/25 16:07	1
Arsenic	**0.00350**		0.00200	0.000530	mg/L		06/17/25 09:10	06/26/25 14:55	1
Barium	**0.0596**		0.00200	0.000660	mg/L		06/17/25 09:10	06/26/25 14:55	1
Beryllium	**0.000555**	**J**	0.00100	0.000330	mg/L		06/17/25 09:10	06/26/25 14:55	1
Cadmium	**0.000165**	**J B**	0.000200	0.000100	mg/L		06/17/25 09:10	06/26/25 14:55	1
Chromium	**0.00859**		0.00500	0.00180	mg/L		06/17/25 09:10	06/26/25 14:55	1
Cobalt	**0.00264**		0.000500	0.000170	mg/L		06/17/25 09:10	06/26/25 14:55	1
Copper	**0.0115**		0.00500	0.00320	mg/L		06/17/25 09:10	06/26/25 14:55	1
Lead	**0.00495**		0.000500	0.000330	mg/L		06/17/25 09:10	06/26/25 14:55	1
Nickel	**0.0194**		0.00500	0.00230	mg/L		06/17/25 09:10	06/26/25 14:55	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/17/25 09:10	06/26/25 14:55	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/17/25 09:10	06/26/25 14:55	1
Thallium	**0.000772**	**J**	0.00100	0.000570	mg/L		06/27/25 09:00	06/27/25 15:05	1
Vanadium	**0.0136**		0.00500	0.00170	mg/L		06/17/25 09:10	06/26/25 14:55	1
Zinc	**0.0229**		0.0200	0.0130	mg/L		06/17/25 09:10	06/26/25 14:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**229**		15.0	10.5	mg/L			06/13/25 09:30	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-609
Date Collected: 06/11/25 09:51
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-5
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.1		5.00	2.25	mg/L			06/18/25 15:09	5
Sulfate	51.5		5.00	2.10	mg/L			06/18/25 15:09	5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	97.7		1.00	0.170	mg/L		06/18/25 09:00	06/19/25 15:10	1
Magnesium	36.3		1.00	0.120	mg/L		06/18/25 09:00	06/19/25 15:10	1
Potassium	1.77	J	2.00	1.10	mg/L		06/18/25 09:00	06/19/25 15:10	1
Sodium	13.7		2.00	1.00	mg/L		06/18/25 09:00	06/19/25 15:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	375		5.00	2.50	mg/L			06/14/25 17:03	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	375		5.00	2.50	mg/L			06/14/25 17:03	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			06/14/25 17:03	1

Client Sample ID: DG-901
Date Collected: 06/11/25 12:44
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-6
Matrix: Water

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			06/14/25 07:05	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/14/25 07:05	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/14/25 07:05	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/14/25 07:05	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/14/25 07:05	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/14/25 07:05	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/14/25 07:05	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/14/25 07:05	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/14/25 07:05	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/14/25 07:05	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/14/25 07:05	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/14/25 07:05	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/14/25 07:05	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/14/25 07:05	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/14/25 07:05	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/14/25 07:05	1
Acetone	<10.0		10.0	3.10	ug/L			06/14/25 07:05	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/14/25 07:05	1
Benzene	<0.500		0.500	0.220	ug/L			06/14/25 07:05	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/14/25 07:05	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/14/25 07:05	1
Bromoform	<5.00		5.00	0.780	ug/L			06/14/25 07:05	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/14/25 07:05	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/14/25 07:05	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/14/25 07:05	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/14/25 07:05	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/14/25 07:05	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/14/25 07:05	1
Chloroform	<3.00		3.00	1.30	ug/L			06/14/25 07:05	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/14/25 07:05	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/14/25 07:05	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/14/25 07:05	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/14/25 07:05	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/14/25 07:05	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/14/25 07:05	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/14/25 07:05	1
Styrene	<1.00		1.00	0.370	ug/L			06/14/25 07:05	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/14/25 07:05	1
Toluene	<1.00		1.00	0.430	ug/L			06/14/25 07:05	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/14/25 07:05	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/14/25 07:05	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/14/25 07:05	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/14/25 07:05	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/14/25 07:05	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/14/25 07:05	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/14/25 07:05	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/14/25 07:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*76 - 130*		*06/14/25 07:05*	*1*

Client Sample ID: DG-901
Date Collected: 06/11/25 12:44
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-6
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*06/14/25 07:05*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/14/25 07:05*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.92**		5.00	2.25	mg/L			06/18/25 15:21	5
Sulfate	**328**		5.00	2.10	mg/L			06/18/25 15:21	5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**187**		1.00	0.170	mg/L		06/23/25 09:00	06/23/25 15:47	1
Magnesium	**59.9**		1.00	0.120	mg/L		06/23/25 09:00	06/23/25 15:47	1
Potassium	**3.35**		2.00	1.10	mg/L		06/23/25 09:00	06/23/25 15:47	1
Sodium	**17.1**		2.00	1.00	mg/L		06/23/25 09:00	06/23/25 15:47	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		06/17/25 09:10	06/26/25 16:10	1
Arsenic	**0.00369**		0.00200	0.000530	mg/L		06/17/25 09:10	06/26/25 14:57	1
Barium	**0.0215**		0.00200	0.000660	mg/L		06/17/25 09:10	06/26/25 14:57	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/17/25 09:10	06/26/25 14:57	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/17/25 09:10	06/26/25 14:57	1
Chromium	<0.00500		0.00500	0.00180	mg/L		06/17/25 09:10	06/26/25 14:57	1
Cobalt	**0.000518**		0.000500	0.000170	mg/L		06/17/25 09:10	06/26/25 14:57	1
Copper	<0.00500		0.00500	0.00320	mg/L		06/17/25 09:10	06/26/25 14:57	1
Lead	<0.000500		0.000500	0.000330	mg/L		06/17/25 09:10	06/26/25 14:57	1
Nickel	**0.00357**	**J**	0.00500	0.00230	mg/L		06/17/25 09:10	06/26/25 14:57	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/17/25 09:10	06/26/25 14:57	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/17/25 09:10	06/26/25 14:57	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/27/25 09:00	06/27/25 15:07	1
Vanadium	**0.00239**	**J**	0.00500	0.00170	mg/L		06/17/25 09:10	06/26/25 14:57	1
Zinc	<0.0200		0.0200	0.0130	mg/L		06/17/25 09:10	06/26/25 14:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**5.25**		3.75	2.63	mg/L			06/13/25 09:30	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	**495**		5.00	2.50	mg/L			06/14/25 17:14	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**495**		5.00	2.50	mg/L			06/14/25 17:14	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			06/14/25 17:14	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-905
Date Collected: 06/11/25 13:18
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-7
Matrix: Water

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			06/14/25 07:28	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/14/25 07:28	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/14/25 07:28	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/14/25 07:28	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/14/25 07:28	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/14/25 07:28	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/14/25 07:28	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/14/25 07:28	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/14/25 07:28	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/14/25 07:28	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/14/25 07:28	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/14/25 07:28	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/14/25 07:28	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/14/25 07:28	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/14/25 07:28	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/14/25 07:28	1
Acetone	<10.0		10.0	3.10	ug/L			06/14/25 07:28	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/14/25 07:28	1
Benzene	<0.500		0.500	0.220	ug/L			06/14/25 07:28	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/14/25 07:28	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/14/25 07:28	1
Bromoform	<5.00		5.00	0.780	ug/L			06/14/25 07:28	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/14/25 07:28	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/14/25 07:28	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/14/25 07:28	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/14/25 07:28	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/14/25 07:28	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/14/25 07:28	1
Chloroform	<3.00		3.00	1.30	ug/L			06/14/25 07:28	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/14/25 07:28	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/14/25 07:28	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/14/25 07:28	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/14/25 07:28	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/14/25 07:28	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/14/25 07:28	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/14/25 07:28	1
Styrene	<1.00		1.00	0.370	ug/L			06/14/25 07:28	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/14/25 07:28	1
Toluene	<1.00		1.00	0.430	ug/L			06/14/25 07:28	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/14/25 07:28	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/14/25 07:28	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/14/25 07:28	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/14/25 07:28	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/14/25 07:28	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/14/25 07:28	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/14/25 07:28	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/14/25 07:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*76 - 130*		*06/14/25 07:28*	*1*

Client Sample ID: DG-905
Date Collected: 06/11/25 13:18
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-7
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*06/14/25 07:28*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*06/14/25 07:28*	*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		06/17/25 09:10	06/27/25 14:31	1
Arsenic	**0.000933**	**J**	0.00200	0.000530	mg/L		06/17/25 09:10	06/26/25 15:00	1
Barium	**0.0340**		0.00200	0.000660	mg/L		06/17/25 09:10	06/26/25 15:00	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/17/25 09:10	06/26/25 15:00	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/17/25 09:10	06/26/25 15:00	1
Chromium	<0.00500		0.00500	0.00180	mg/L		06/17/25 09:10	06/26/25 15:00	1
Cobalt	**0.000519**		0.000500	0.000170	mg/L		06/17/25 09:10	06/26/25 15:00	1
Copper	<0.00500		0.00500	0.00320	mg/L		06/17/25 09:10	06/26/25 15:00	1
Lead	<0.000500		0.000500	0.000330	mg/L		06/17/25 09:10	06/26/25 15:00	1
Nickel	**0.00312**	**J**	0.00500	0.00230	mg/L		06/17/25 09:10	06/26/25 15:00	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/17/25 09:10	06/26/25 15:00	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/17/25 09:10	06/26/25 15:00	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/27/25 09:00	06/27/25 15:10	1
Vanadium	**0.00189**	**J**	0.00500	0.00170	mg/L		06/17/25 09:10	06/26/25 15:00	1
Zinc	<0.0200		0.0200	0.0130	mg/L		06/17/25 09:10	06/26/25 15:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**22.5**		3.75	2.63	mg/L			06/13/25 09:30	1

Client Sample ID: DG-1001
Date Collected: 06/10/25 09:57
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-8
Matrix: Water

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			06/14/25 07:50	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/14/25 07:50	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/14/25 07:50	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/14/25 07:50	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/14/25 07:50	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/14/25 07:50	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/14/25 07:50	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/14/25 07:50	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/14/25 07:50	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/14/25 07:50	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/14/25 07:50	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/14/25 07:50	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/14/25 07:50	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/14/25 07:50	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/14/25 07:50	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/14/25 07:50	1
Acetone	<10.0		10.0	3.10	ug/L			06/14/25 07:50	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/14/25 07:50	1
Benzene	<0.500		0.500	0.220	ug/L			06/14/25 07:50	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/14/25 07:50	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/14/25 07:50	1
Bromoform	<5.00		5.00	0.780	ug/L			06/14/25 07:50	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/14/25 07:50	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/14/25 07:50	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/14/25 07:50	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/14/25 07:50	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/14/25 07:50	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/14/25 07:50	1
Chloroform	<3.00		3.00	1.30	ug/L			06/14/25 07:50	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/14/25 07:50	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/14/25 07:50	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/14/25 07:50	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/14/25 07:50	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/14/25 07:50	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/14/25 07:50	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/14/25 07:50	1
Styrene	<1.00		1.00	0.370	ug/L			06/14/25 07:50	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/14/25 07:50	1
Toluene	<1.00		1.00	0.430	ug/L			06/14/25 07:50	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/14/25 07:50	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/14/25 07:50	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/14/25 07:50	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/14/25 07:50	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/14/25 07:50	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/14/25 07:50	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/14/25 07:50	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/14/25 07:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*76 - 130*		*06/14/25 07:50*	*1*

Client Sample ID: DG-1001
Date Collected: 06/10/25 09:57
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-8
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*06/14/25 07:50*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*06/14/25 07:50*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**330**		5.00	2.25	mg/L			06/18/25 15:58	5
Sulfate	**85.6**		5.00	2.10	mg/L			06/18/25 15:58	5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**191**		1.00	0.170	mg/L		06/23/25 09:00	06/23/25 15:48	1
Magnesium	**78.4**		1.00	0.120	mg/L		06/23/25 09:00	06/23/25 15:48	1
Potassium	**3.04**		2.00	1.10	mg/L		06/23/25 09:00	06/23/25 15:48	1
Sodium	**18.2**		2.00	1.00	mg/L		06/23/25 09:00	06/23/25 15:48	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		06/17/25 09:10	06/27/25 14:34	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		06/17/25 09:10	06/26/25 15:02	1
Barium	**0.0515**		0.00200	0.000660	mg/L		06/17/25 09:10	06/26/25 15:02	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/17/25 09:10	06/26/25 15:02	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/17/25 09:10	06/26/25 15:02	1
Chromium	<0.00500		0.00500	0.00180	mg/L		06/17/25 09:10	06/26/25 15:02	1
Cobalt	**0.000226**	**J**	0.000500	0.000170	mg/L		06/17/25 09:10	06/26/25 15:02	1
Copper	<0.00500		0.00500	0.00320	mg/L		06/17/25 09:10	06/26/25 15:02	1
Lead	<0.000500		0.000500	0.000330	mg/L		06/17/25 09:10	06/26/25 15:02	1
Nickel	<0.00500		0.00500	0.00230	mg/L		06/17/25 09:10	06/26/25 15:02	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/17/25 09:10	06/26/25 15:02	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/17/25 09:10	06/26/25 15:02	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/27/25 09:00	06/27/25 15:13	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		06/17/25 09:10	06/26/25 15:02	1
Zinc	<0.0200		0.0200	0.0130	mg/L		06/17/25 09:10	06/26/25 15:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**2.88**		1.88	1.31	mg/L			06/13/25 09:30	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	**301**		5.00	2.50	mg/L			06/14/25 17:25	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**301**		5.00	2.50	mg/L			06/14/25 17:25	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			06/14/25 17:25	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-1005
Date Collected: 06/10/25 10:44
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-9
Matrix: Water

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			06/14/25 08:13	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/14/25 08:13	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/14/25 08:13	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/14/25 08:13	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/14/25 08:13	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/14/25 08:13	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			06/14/25 08:13	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/14/25 08:13	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			06/14/25 08:13	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/14/25 08:13	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/14/25 08:13	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/14/25 08:13	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/14/25 08:13	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/14/25 08:13	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			06/14/25 08:13	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			06/14/25 08:13	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/14/25 08:13	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			06/14/25 08:13	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/14/25 08:13	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/14/25 08:13	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/14/25 08:13	1
Acetone	<10.0		10.0	3.10	ug/L			06/14/25 08:13	1
Acrolein	<10.0		10.0	3.60	ug/L			06/14/25 08:13	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/14/25 08:13	1
Allyl chloride	<2.00		2.00	0.700	ug/L			06/14/25 08:13	1
Benzene	<0.500		0.500	0.220	ug/L			06/14/25 08:13	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/14/25 08:13	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/14/25 08:13	1
Bromoform	<5.00		5.00	0.780	ug/L			06/14/25 08:13	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/14/25 08:13	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/14/25 08:13	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/14/25 08:13	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/14/25 08:13	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/14/25 08:13	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/14/25 08:13	1
Chloroform	<3.00		3.00	1.30	ug/L			06/14/25 08:13	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/14/25 08:13	1
Chloroprene	<1.00		1.00	0.230	ug/L			06/14/25 08:13	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/14/25 08:13	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/14/25 08:13	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/14/25 08:13	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			06/14/25 08:13	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			06/14/25 08:13	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/14/25 08:13	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/14/25 08:13	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			06/14/25 08:13	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			06/14/25 08:13	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/14/25 08:13	1
Naphthalene	<5.00		5.00	3.00	ug/L			06/14/25 08:13	1

Client Sample ID: DG-1005
Date Collected: 06/10/25 10:44
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	<10.0		10.0	3.40	ug/L			06/14/25 08:13	1
Styrene	<1.00		1.00	0.370	ug/L			06/14/25 08:13	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/14/25 08:13	1
Toluene	<1.00		1.00	0.430	ug/L			06/14/25 08:13	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/14/25 08:13	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/14/25 08:13	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/14/25 08:13	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/14/25 08:13	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/14/25 08:13	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/14/25 08:13	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/14/25 08:13	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/14/25 08:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*76 - 130*		*06/14/25 08:13*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*06/14/25 08:13*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*06/14/25 08:13*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<10.0		10.0	0.640	ug/L		06/16/25 11:56	06/25/25 11:46	1
Acenaphthylene	<10.0		10.0	0.720	ug/L		06/16/25 11:56	06/25/25 11:46	1
Acetophenone	<10.0		10.0	0.690	ug/L		06/16/25 11:56	06/25/25 11:46	1
2-Acetylaminofluorene	<10.0		10.0	2.70	ug/L		06/16/25 11:56	06/25/25 11:46	1
4-Aminobiphenyl	<10.0		10.0	2.20	ug/L		06/16/25 11:56	06/25/25 11:46	1
Anthracene	<10.0		10.0	0.870	ug/L		06/16/25 11:56	06/25/25 11:46	1
Benzo[a]anthracene	<10.0		10.0	0.850	ug/L		06/16/25 11:56	06/25/25 11:46	1
Benzo[a]pyrene	<10.0		10.0	8.10	ug/L		06/16/25 11:56	06/25/25 11:46	1
Benzo(b)fluoranthene	<10.0		10.0	4.90	ug/L		06/16/25 11:56	06/25/25 11:46	1
Benzo[g,h,i]perylene	<10.0		10.0	6.30	ug/L		06/16/25 11:56	06/25/25 11:46	1
Benzo[k]fluoranthene	<10.0		10.0	2.20	ug/L		06/16/25 11:56	06/25/25 11:46	1
Benzyl alcohol	<10.0		10.0	1.30	ug/L		06/16/25 11:56	06/25/25 11:46	1
Bis(2-chloroethoxy)methane	<10.0		10.0	0.760	ug/L		06/16/25 11:56	06/25/25 11:46	1
Bis(2-chloroethyl)ether	<10.0		10.0	0.820	ug/L		06/16/25 11:56	06/25/25 11:46	1
bis (2-chloroisopropyl) ether	<10.0		10.0	0.540	ug/L		06/16/25 11:56	06/25/25 11:46	1
Bis(2-ethylhexyl) phthalate	<10.0		10.0	5.50	ug/L		06/16/25 11:56	06/25/25 11:46	1
4-Bromophenyl phenyl ether	<10.0		10.0	0.700	ug/L		06/16/25 11:56	06/25/25 11:46	1
Butyl benzyl phthalate	<10.0		10.0	5.40	ug/L		06/16/25 11:56	06/25/25 11:46	1
4-Chloroaniline	<10.0		10.0	0.620	ug/L		06/16/25 11:56	06/25/25 11:46	1
Chlorobenzilate	<10.0		10.0	3.60	ug/L		06/16/25 11:56	06/25/25 11:46	1
4-Chloro-3-methylphenol	<10.0		10.0	0.840	ug/L		06/16/25 11:56	06/25/25 11:46	1
2-Chloronaphthalene	<10.0		10.0	0.640	ug/L		06/16/25 11:56	06/25/25 11:46	1
2-Chlorophenol	<10.0		10.0	0.540	ug/L		06/16/25 11:56	06/25/25 11:46	1
4-Chlorophenyl phenyl ether	<10.0		10.0	0.690	ug/L		06/16/25 11:56	06/25/25 11:46	1
Chrysene	<10.0		10.0	0.870	ug/L		06/16/25 11:56	06/25/25 11:46	1
Diallate	<10.0		10.0	4.00	ug/L		06/16/25 11:56	06/25/25 11:46	1
Dibenz(a,h)anthracene	<10.0		10.0	3.90	ug/L		06/16/25 11:56	06/25/25 11:46	1
Dibenzofuran	<10.0		10.0	0.740	ug/L		06/16/25 11:56	06/25/25 11:46	1
3,3'-Dichlorobenzidine	<10.0		10.0	1.40	ug/L		06/16/25 11:56	06/25/25 11:46	1
2,4-Dichlorophenol	<10.0		10.0	0.850	ug/L		06/16/25 11:56	06/25/25 11:46	1

Client Sample ID: DG-1005
Date Collected: 06/10/25 10:44
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-9
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dichlorophenol	<10.0		10.0	0.690	ug/L		06/16/25 11:56	06/25/25 11:46	1
Diethyl phthalate	<10.0		10.0	1.70	ug/L		06/16/25 11:56	06/25/25 11:46	1
Dimethoate	<10.0		10.0	3.60	ug/L		06/16/25 11:56	06/25/25 11:46	1
7,12-Dimethylbenz(a)anthracene	<10.0		10.0	1.90	ug/L		06/16/25 11:56	06/25/25 11:46	1
3,3'-Dimethylbenzidine	<10.0		10.0	1.50	ug/L		06/16/25 11:56	06/25/25 11:46	1
2,4-Dimethylphenol	<10.0		10.0	0.580	ug/L		06/16/25 11:56	06/25/25 11:46	1
Dimethyl phthalate	<10.0		10.0	1.00	ug/L		06/16/25 11:56	06/25/25 11:46	1
Di-n-butyl phthalate	<10.0		10.0	5.60	ug/L		06/16/25 11:56	06/25/25 11:46	1
1,3-Dinitrobenzene	<10.0		10.0	3.20	ug/L		06/16/25 11:56	06/25/25 11:46	1
4,6-Dinitro-2-methylphenol	<10.0		10.0	6.90	ug/L		06/16/25 11:56	06/25/25 11:46	1
2,4-Dinitrophenol	<20.0		20.0	13.0	ug/L		06/16/25 11:56	06/25/25 11:46	1
2,4-Dinitrotoluene	<10.0		10.0	6.40	ug/L		06/16/25 11:56	06/25/25 11:46	1
2,6-Dinitrotoluene	<10.0		10.0	0.520	ug/L		06/16/25 11:56	06/25/25 11:46	1
Di-n-octyl phthalate	<20.0		20.0	7.00	ug/L		06/16/25 11:56	06/25/25 11:46	1
Dinoseb	<10.0		10.0	2.40	ug/L		06/16/25 11:56	06/25/25 11:46	1
Diphenylamine	<10.0		10.0	6.00	ug/L		06/16/25 11:56	06/25/25 11:46	1
Disulfoton	<10.0		10.0	2.40	ug/L		06/16/25 11:56	06/25/25 11:46	1
Ethyl methanesulfonate	<10.0		10.0	3.60	ug/L		06/16/25 11:56	06/25/25 11:46	1
Ethyl Parathion	<10.0		10.0	2.20	ug/L		06/16/25 11:56	06/25/25 11:46	1
Famphur	<10.0	*+	10.0	3.80	ug/L		06/16/25 11:56	06/25/25 11:46	1
Fluoranthene	<10.0		10.0	1.70	ug/L		06/16/25 11:56	06/25/25 11:46	1
Fluorene	<10.0		10.0	0.790	ug/L		06/16/25 11:56	06/25/25 11:46	1
Hexachlorobenzene	<10.0		10.0	0.700	ug/L		06/16/25 11:56	06/25/25 11:46	1
Hexachlorobutadiene	<10.0		10.0	0.860	ug/L		06/16/25 11:56	06/25/25 11:46	1
Hexachlorocyclopentadiene	<10.0		10.0	5.10	ug/L		06/16/25 11:56	06/25/25 11:46	1
Hexachloroethane	<10.0		10.0	0.970	ug/L		06/16/25 11:56	06/25/25 11:46	1
Hexachloropropene	<10.0		10.0	2.60	ug/L		06/16/25 11:56	06/25/25 11:46	1
Indeno[1,2,3-cd]pyrene	<10.0		10.0	4.20	ug/L		06/16/25 11:56	06/25/25 11:46	1
Isodrin	<10.0		10.0	4.70	ug/L		06/16/25 11:56	06/25/25 11:46	1
Isophorone	<10.0		10.0	0.930	ug/L		06/16/25 11:56	06/25/25 11:46	1
Isosafrole	<10.0		10.0	2.30	ug/L		06/16/25 11:56	06/25/25 11:46	1
Kepone	<10.0		10.0	1.00	ug/L		06/16/25 11:56	06/26/25 18:00	1
Methapyrilene	<10.0	*-	10.0	0.760	ug/L		06/16/25 11:56	06/25/25 11:46	1
3-Methylcholanthrene	<10.0		10.0	0.320	ug/L		06/16/25 11:56	06/25/25 11:46	1
Methyl methanesulfonate	<10.0		10.0	3.30	ug/L		06/16/25 11:56	06/25/25 11:46	1
2-Methylnaphthalene	<10.0		10.0	0.590	ug/L		06/16/25 11:56	06/25/25 11:46	1
Methyl parathion	<10.0		10.0	2.30	ug/L		06/16/25 11:56	06/25/25 11:46	1
2-Methylphenol	<10.0		10.0	0.650	ug/L		06/16/25 11:56	06/25/25 11:46	1
4-Methylphenol (and/or 3-Methylphenol)	<10.0		10.0	0.700	ug/L		06/16/25 11:56	06/25/25 11:46	1
1,4-Naphthoquinone	<10.0		10.0	3.60	ug/L		06/16/25 11:56	06/25/25 11:46	1
1-Naphthylamine	<10.0		10.0	2.50	ug/L		06/16/25 11:56	06/25/25 11:46	1
2-Naphthylamine	<10.0		10.0	2.10	ug/L		06/16/25 11:56	06/25/25 11:46	1
2-Nitroaniline	<10.0		10.0	5.90	ug/L		06/16/25 11:56	06/25/25 11:46	1
3-Nitroaniline	<10.0		10.0	2.70	ug/L		06/16/25 11:56	06/25/25 11:46	1
4-Nitroaniline	<10.0		10.0	1.30	ug/L		06/16/25 11:56	06/25/25 11:46	1
Nitrobenzene	<10.0		10.0	0.800	ug/L		06/16/25 11:56	06/25/25 11:46	1
5-Nitro-o-toluidine	<10.0		10.0	2.80	ug/L		06/16/25 11:56	06/25/25 11:46	1
2-Nitrophenol	<10.0		10.0	6.80	ug/L		06/16/25 11:56	06/25/25 11:46	1
4-Nitrophenol	<10.0		10.0	7.60	ug/L		06/16/25 11:56	06/25/25 11:46	1

Client Sample ID: DG-1005
Date Collected: 06/10/25 10:44
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-9
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiethylamine	<10.0		10.0	3.40	ug/L		06/16/25 11:56	06/25/25 11:46	1
N-Nitrosodimethylamine	<10.0		10.0	0.720	ug/L		06/16/25 11:56	06/25/25 11:46	1
N-Nitrosodi-n-butylamine	<10.0		10.0	3.90	ug/L		06/16/25 11:56	06/25/25 11:46	1
N-Nitrosodi-n-propylamine	<10.0		10.0	0.920	ug/L		06/16/25 11:56	06/25/25 11:46	1
N-Nitrosodiphenylamine	<10.0		10.0	0.750	ug/L		06/16/25 11:56	06/25/25 11:46	1
N-Nitrosomethylethylamine	<10.0		10.0	4.90	ug/L		06/16/25 11:56	06/25/25 11:46	1
N-Nitrosopiperidine	<10.0		10.0	2.70	ug/L		06/16/25 11:56	06/25/25 11:46	1
N-Nitrosopyrrolidine	<10.0		10.0	3.60	ug/L		06/16/25 11:56	06/25/25 11:46	1
o,o',o''-Triethylphosphorothioate	<10.0		10.0	3.20	ug/L		06/16/25 11:56	06/25/25 11:46	1
o-Toluidine	<10.0		10.0	2.90	ug/L		06/16/25 11:56	06/25/25 11:46	1
p-Dimethylamino azobenzene	<10.0		10.0	2.20	ug/L		06/16/25 11:56	06/25/25 11:46	1
Pentachlorobenzene	<10.0		10.0	2.80	ug/L		06/16/25 11:56	06/25/25 11:46	1
Pentachloronitrobenzene	<10.0		10.0	5.80	ug/L		06/16/25 11:56	06/25/25 11:46	1
Pentachlorophenol	<10.0		10.0	9.60	ug/L		06/16/25 11:56	06/25/25 11:46	1
Phenacetin	<10.0		10.0	1.90	ug/L		06/16/25 11:56	06/25/25 11:46	1
Phenanthrene	<10.0		10.0	0.790	ug/L		06/16/25 11:56	06/25/25 11:46	1
Phenol	<10.0		10.0	1.10	ug/L		06/16/25 11:56	06/25/25 11:46	1
1,4-Phenylenediamine	<10.0	*-	10.0	1.90	ug/L		06/16/25 11:56	06/30/25 01:07	1
Phorate	<10.0		10.0	3.20	ug/L		06/16/25 11:56	06/25/25 11:46	1
Pronamide	<10.0		10.0	2.70	ug/L		06/16/25 11:56	06/25/25 11:46	1
Pyrene	<10.0		10.0	0.790	ug/L		06/16/25 11:56	06/25/25 11:46	1
Safrole	<10.0		10.0	2.80	ug/L		06/16/25 11:56	06/25/25 11:46	1
1,2,4,5-Tetrachlorobenzene	<10.0		10.0	0.540	ug/L		06/16/25 11:56	06/25/25 11:46	1
2,3,4,6-Tetrachlorophenol	<10.0		10.0	5.30	ug/L		06/16/25 11:56	06/25/25 11:46	1
Thionazin	<10.0		10.0	3.50	ug/L		06/16/25 11:56	06/25/25 11:46	1
2,4,5-Trichlorophenol	<10.0		10.0	5.30	ug/L		06/16/25 11:56	06/25/25 11:46	1
2,4,6-Trichlorophenol	<10.0		10.0	5.00	ug/L		06/16/25 11:56	06/25/25 11:46	1
1,3,5-Trinitrobenzene	<10.0		10.0	2.30	ug/L		06/16/25 11:56	06/25/25 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*33 - 126*	*06/16/25 11:56*	*06/25/25 11:46*	*1*
2-Fluorophenol (Surr)	*64*		*21 - 110*	*06/16/25 11:56*	*06/25/25 11:46*	*1*
Nitrobenzene-d5 (Surr)	*93*		*39 - 140*	*06/16/25 11:56*	*06/25/25 11:46*	*1*
Phenol-d5 (Surr)	*58*		*21 - 110*	*06/16/25 11:56*	*06/25/25 11:46*	*1*
Terphenyl-d14 (Surr)	*116*		*13 - 150*	*06/16/25 11:56*	*06/25/25 11:46*	*1*
2,4,6-Tribromophenol (Surr)	*88*		*20 - 144*	*06/16/25 11:56*	*06/25/25 11:46*	*1*

Method: SW846 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetonitrile	<10.0		10.0	2.60	mg/L			06/17/25 12:24	1
Isobutanol	<10.0		10.0	2.40	mg/L			06/17/25 12:24	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0897		0.0897	0.0224	ug/L		06/16/25 07:02	06/16/25 13:34	1
4,4'-DDE	<0.0897		0.0897	0.0269	ug/L		06/16/25 07:02	06/16/25 13:34	1
4,4'-DDT	<0.0897		0.0897	0.0179	ug/L		06/16/25 07:02	06/16/25 13:34	1
Aldrin	<0.0897		0.0897	0.0197	ug/L		06/16/25 07:02	06/16/25 13:34	1
alpha-BHC	<0.0897		0.0897	0.00897	ug/L		06/16/25 07:02	06/16/25 13:34	1
beta-BHC	<0.0897		0.0897	0.0377	ug/L		06/16/25 07:02	06/16/25 13:34	1

Client Sample ID: DG-1005

Date Collected: 06/10/25 10:44
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-9

Matrix: Water

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	<1.79		1.79	0.350	ug/L		06/16/25 07:02	06/16/25 13:34	1
delta-BHC	<0.0897		0.0897	0.0287	ug/L		06/16/25 07:02	06/16/25 13:34	1
Dieldrin	<0.0897		0.0897	0.0188	ug/L		06/16/25 07:02	06/16/25 13:34	1
Endosulfan I	<0.0897		0.0897	0.0251	ug/L		06/16/25 07:02	06/16/25 13:34	1
Endosulfan II	<0.0897		0.0897	0.0233	ug/L		06/16/25 07:02	06/16/25 13:34	1
Endosulfan sulfate	<0.0897		0.0897	0.0162	ug/L		06/16/25 07:02	06/16/25 13:34	1
Endrin	<0.0897		0.0897	0.0251	ug/L		06/16/25 07:02	06/16/25 13:34	1
Endrin aldehyde	<0.0897		0.0897	0.0242	ug/L		06/16/25 07:02	06/16/25 13:34	1
gamma-BHC (Lindane)	<0.0897		0.0897	0.00897	ug/L		06/16/25 07:02	06/16/25 13:34	1
Heptachlor	<0.0897		0.0897	0.0206	ug/L		06/16/25 07:02	06/16/25 13:34	1
Heptachlor epoxide	<0.0897		0.0897	0.0287	ug/L		06/16/25 07:02	06/16/25 13:34	1
Methoxychlor	<0.0897		0.0897	0.0287	ug/L		06/16/25 07:02	06/16/25 13:34	1
Toxaphene	<1.79		1.79	0.897	ug/L		06/16/25 07:02	06/16/25 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*94*		*10 - 150*	*06/16/25 07:02*	*06/16/25 13:34*	*1*
Tetrachloro-m-xylene	*58*		*17 - 150*	*06/16/25 07:02*	*06/16/25 13:34*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<1.79		1.79	0.736	ug/L		06/16/25 07:02	06/16/25 13:34	1
PCB-1221	<1.79		1.79	0.736	ug/L		06/16/25 07:02	06/16/25 13:34	1
PCB-1232	<1.79		1.79	0.736	ug/L		06/16/25 07:02	06/16/25 13:34	1
PCB-1242	<1.79		1.79	0.736	ug/L		06/16/25 07:02	06/16/25 13:34	1
PCB-1248	<1.79		1.79	0.619	ug/L		06/16/25 07:02	06/16/25 13:34	1
PCB-1254	<1.79		1.79	0.619	ug/L		06/16/25 07:02	06/16/25 13:34	1
PCB-1260	<1.79		1.79	0.619	ug/L		06/16/25 07:02	06/16/25 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*10 - 150*	*06/16/25 07:02*	*06/16/25 13:34*	*1*
Tetrachloro-m-xylene	*58*		*17 - 150*	*06/16/25 07:02*	*06/16/25 13:34*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<1.00		1.00	0.126	ug/L		06/17/25 07:15	06/17/25 18:41	1
Silvex (2,4,5-TP)	<1.00		1.00	0.105	ug/L		06/17/25 07:15	06/17/25 18:41	1
2,4,5-T	<1.00		1.00	0.140	ug/L		06/17/25 07:15	06/17/25 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*82*		*25 - 130*	*06/17/25 07:15*	*06/17/25 18:41*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.46**		5.00	2.25	mg/L			06/18/25 16:10	5
Sulfate	**123**		5.00	2.10	mg/L			06/18/25 16:10	5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**109**		1.00	0.170	mg/L		06/23/25 09:00	06/23/25 15:50	1
Magnesium	**39.7**		1.00	0.120	mg/L		06/23/25 09:00	06/23/25 15:50	1
Potassium	**2.76**		2.00	1.10	mg/L		06/23/25 09:00	06/23/25 15:50	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-1005
Date Collected: 06/10/25 10:44
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-9
Matrix: Water

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**13.2**		2.00	1.00	mg/L		06/23/25 09:00	06/23/25 15:50	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		06/17/25 09:10	06/27/25 14:37	1
Arsenic	**0.00219**		0.00200	0.000530	mg/L		06/17/25 09:10	06/26/25 15:05	1
Barium	**0.0410**		0.00200	0.000660	mg/L		06/17/25 09:10	06/26/25 15:05	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/17/25 09:10	06/26/25 15:05	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/17/25 09:10	06/26/25 15:05	1
Chromium	**0.00226**	**J**	0.00500	0.00180	mg/L		06/17/25 09:10	06/26/25 15:05	1
Cobalt	**0.000950**		0.000500	0.000170	mg/L		06/17/25 09:10	06/26/25 15:05	1
Copper	<0.00500		0.00500	0.00320	mg/L		06/17/25 09:10	06/26/25 15:05	1
Lead	**0.000404**	**J**	0.000500	0.000330	mg/L		06/17/25 09:10	06/26/25 15:05	1
Nickel	**0.00296**	**J**	0.00500	0.00230	mg/L		06/17/25 09:10	06/26/25 15:05	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/17/25 09:10	06/26/25 15:05	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/17/25 09:10	06/26/25 15:05	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/27/25 09:00	06/27/25 15:20	1
Vanadium	**0.00751**		0.00500	0.00170	mg/L		06/17/25 09:10	06/26/25 15:05	1
Zinc	<0.0200		0.0200	0.0130	mg/L		06/17/25 09:10	06/26/25 15:05	1
Tin	<0.00500		0.00500	0.00250	mg/L		06/17/25 09:10	06/26/25 15:05	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000110	mg/L		06/18/25 11:21	06/19/25 11:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.0100		0.0100	0.00350	mg/L		06/17/25 09:43	06/18/25 01:38	1
Sulfide (SW846 9034)	**0.758**	**J**	1.00	0.231	mg/L		06/16/25 18:15	06/16/25 23:42	1
Total Suspended Solids (USGS I-3765-85)	**23.5**		3.75	2.63	mg/L			06/13/25 11:47	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	**362**		5.00	2.50	mg/L			06/14/25 17:45	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**362**		5.00	2.50	mg/L			06/14/25 17:45	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			06/14/25 17:45	1

Client Sample ID: MW-D1
Date Collected: 06/11/25 13:18
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-10
Matrix: Water

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			06/14/25 08:36	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/14/25 08:36	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/14/25 08:36	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/14/25 08:36	1
1,1-Dichloroethane	**0.823**	**J**	1.00	0.220	ug/L			06/14/25 08:36	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/14/25 08:36	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/14/25 08:36	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/14/25 08:36	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/14/25 08:36	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/14/25 08:36	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/14/25 08:36	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/14/25 08:36	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/14/25 08:36	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/14/25 08:36	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/14/25 08:36	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/14/25 08:36	1
Acetone	<10.0		10.0	3.10	ug/L			06/14/25 08:36	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/14/25 08:36	1
Benzene	<0.500		0.500	0.220	ug/L			06/14/25 08:36	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/14/25 08:36	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/14/25 08:36	1
Bromoform	<5.00		5.00	0.780	ug/L			06/14/25 08:36	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/14/25 08:36	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/14/25 08:36	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/14/25 08:36	1
Chlorobenzene	**0.614**	**J**	1.00	0.400	ug/L			06/14/25 08:36	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/14/25 08:36	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/14/25 08:36	1
Chloroform	<3.00		3.00	1.30	ug/L			06/14/25 08:36	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/14/25 08:36	1
cis-1,2-Dichloroethene	**0.367**	**J**	1.00	0.210	ug/L			06/14/25 08:36	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/14/25 08:36	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/14/25 08:36	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/14/25 08:36	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/14/25 08:36	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/14/25 08:36	1
Styrene	<1.00		1.00	0.370	ug/L			06/14/25 08:36	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/14/25 08:36	1
Toluene	<1.00		1.00	0.430	ug/L			06/14/25 08:36	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/14/25 08:36	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/14/25 08:36	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/14/25 08:36	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/14/25 08:36	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/14/25 08:36	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/14/25 08:36	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/14/25 08:36	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/14/25 08:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*76 - 130*		*06/14/25 08:36*	*1*

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: MW-D1
Date Collected: 06/11/25 13:18
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-10
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*06/14/25 08:36*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/14/25 08:36*	*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		06/17/25 09:10	06/27/25 14:40	1
Arsenic	**0.000829**	**J**	0.00200	0.000530	mg/L		06/17/25 09:10	06/26/25 15:07	1
Barium	**0.0712**		0.00200	0.000660	mg/L		06/17/25 09:10	06/26/25 15:07	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/17/25 09:10	06/26/25 15:07	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/17/25 09:10	06/26/25 15:07	1
Chromium	<0.00500		0.00500	0.00180	mg/L		06/17/25 09:10	06/26/25 15:07	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		06/17/25 09:10	06/26/25 15:07	1
Copper	<0.00500		0.00500	0.00320	mg/L		06/17/25 09:10	06/26/25 15:07	1
Lead	<0.000500		0.000500	0.000330	mg/L		06/17/25 09:10	06/26/25 15:07	1
Nickel	<0.00500		0.00500	0.00230	mg/L		06/17/25 09:10	06/26/25 15:07	1
Selenium	**0.00153**	**J**	0.00500	0.00140	mg/L		06/17/25 09:10	06/26/25 15:07	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/17/25 09:10	06/26/25 15:07	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/27/25 09:00	06/27/25 15:23	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		06/17/25 09:10	06/26/25 15:07	1
Zinc	<0.0200		0.0200	0.0130	mg/L		06/17/25 09:10	06/26/25 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.31	mg/L			06/13/25 11:47	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-1101
Date Collected: 06/10/25 11:22
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-11
Matrix: Water

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			06/13/25 17:11	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/13/25 17:11	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/13/25 17:11	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/13/25 17:11	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/13/25 17:11	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/13/25 17:11	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/13/25 17:11	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/13/25 17:11	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/13/25 17:11	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/13/25 17:11	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/13/25 17:11	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/13/25 17:11	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/13/25 17:11	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/13/25 17:11	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/13/25 17:11	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/13/25 17:11	1
Acetone	<10.0		10.0	3.10	ug/L			06/13/25 17:11	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/13/25 17:11	1
Benzene	<0.500		0.500	0.220	ug/L			06/13/25 17:11	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/13/25 17:11	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/13/25 17:11	1
Bromoform	<5.00		5.00	0.780	ug/L			06/13/25 17:11	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/13/25 17:11	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/13/25 17:11	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/13/25 17:11	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/13/25 17:11	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/13/25 17:11	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/13/25 17:11	1
Chloroform	<3.00		3.00	1.30	ug/L			06/13/25 17:11	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/13/25 17:11	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/13/25 17:11	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/13/25 17:11	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/13/25 17:11	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/13/25 17:11	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/13/25 17:11	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/13/25 17:11	1
Styrene	<1.00		1.00	0.370	ug/L			06/13/25 17:11	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/13/25 17:11	1
Toluene	<1.00		1.00	0.430	ug/L			06/13/25 17:11	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/13/25 17:11	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/13/25 17:11	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/13/25 17:11	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/13/25 17:11	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/13/25 17:11	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/13/25 17:11	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/13/25 17:11	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/13/25 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*76 - 130*		*06/13/25 17:11*	*1*

Client Sample ID: DG-1101

Date Collected: 06/10/25 11:22
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-11

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*06/13/25 17:11*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/13/25 17:11*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**33.1**		5.00	2.25	mg/L			06/18/25 16:22	5
Sulfate	**217**		5.00	2.10	mg/L			06/18/25 16:22	5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**136**		1.00	0.170	mg/L		06/23/25 09:00	06/23/25 15:51	1
Magnesium	**44.0**		1.00	0.120	mg/L		06/23/25 09:00	06/23/25 15:51	1
Potassium	**2.07**		2.00	1.10	mg/L		06/23/25 09:00	06/23/25 15:51	1
Sodium	**15.3**		2.00	1.00	mg/L		06/23/25 09:00	06/23/25 15:51	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		06/17/25 09:10	06/27/25 14:43	1
Arsenic	**0.000617**	**J**	0.00200	0.000530	mg/L		06/17/25 09:10	06/26/25 15:10	1
Barium	**0.0409**		0.00200	0.000660	mg/L		06/17/25 09:10	06/26/25 15:10	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/17/25 09:10	06/26/25 15:10	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/17/25 09:10	06/26/25 15:10	1
Chromium	<0.00500		0.00500	0.00180	mg/L		06/17/25 09:10	06/26/25 15:10	1
Cobalt	**0.000469**	**J**	0.000500	0.000170	mg/L		06/17/25 09:10	06/26/25 15:10	1
Copper	<0.00500		0.00500	0.00320	mg/L		06/17/25 09:10	06/26/25 15:10	1
Lead	**0.00109**		0.000500	0.000330	mg/L		06/17/25 09:10	06/26/25 15:10	1
Nickel	<0.00500		0.00500	0.00230	mg/L		06/17/25 09:10	06/26/25 15:10	1
Selenium	**0.00216**	**J**	0.00500	0.00140	mg/L		06/17/25 09:10	06/26/25 15:10	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/17/25 09:10	06/26/25 15:10	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/27/25 09:00	06/27/25 15:25	1
Vanadium	**0.00270**	**J**	0.00500	0.00170	mg/L		06/17/25 09:10	06/26/25 15:10	1
Zinc	<0.0200		0.0200	0.0130	mg/L		06/17/25 09:10	06/26/25 15:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**18.1**		1.88	1.31	mg/L			06/13/25 11:47	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	**356**		5.00	2.50	mg/L			06/14/25 17:55	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**356**		5.00	2.50	mg/L			06/14/25 17:55	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			06/14/25 17:55	1

Client Sample ID: DG-1105R
Date Collected: 06/10/25 11:50
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-12
Matrix: Water

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			06/13/25 17:34	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/13/25 17:34	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/13/25 17:34	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/13/25 17:34	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/13/25 17:34	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/13/25 17:34	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/13/25 17:34	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/13/25 17:34	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/13/25 17:34	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/13/25 17:34	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/13/25 17:34	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/13/25 17:34	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/13/25 17:34	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/13/25 17:34	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/13/25 17:34	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/13/25 17:34	1
Acetone	<10.0		10.0	3.10	ug/L			06/13/25 17:34	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/13/25 17:34	1
Benzene	<0.500		0.500	0.220	ug/L			06/13/25 17:34	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/13/25 17:34	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/13/25 17:34	1
Bromoform	<5.00		5.00	0.780	ug/L			06/13/25 17:34	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/13/25 17:34	1
Carbon disulfide	**0.460**	**J**	1.00	0.450	ug/L			06/13/25 17:34	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/13/25 17:34	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/13/25 17:34	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/13/25 17:34	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/13/25 17:34	1
Chloroform	<3.00		3.00	1.30	ug/L			06/13/25 17:34	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/13/25 17:34	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/13/25 17:34	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/13/25 17:34	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/13/25 17:34	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/13/25 17:34	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/13/25 17:34	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/13/25 17:34	1
Styrene	<1.00		1.00	0.370	ug/L			06/13/25 17:34	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/13/25 17:34	1
Toluene	<1.00		1.00	0.430	ug/L			06/13/25 17:34	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/13/25 17:34	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/13/25 17:34	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/13/25 17:34	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/13/25 17:34	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/13/25 17:34	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/13/25 17:34	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/13/25 17:34	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/13/25 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*76 - 130*		*06/13/25 17:34*	*1*

Client Sample ID: DG-1105R
Date Collected: 06/10/25 11:50
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-12
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*06/13/25 17:34*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*06/13/25 17:34*	*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		06/17/25 09:10	06/27/25 14:52	1
Arsenic	**0.00407**		0.00200	0.000530	mg/L		06/17/25 09:10	06/26/25 15:12	1
Barium	**0.0232**		0.00200	0.000660	mg/L		06/17/25 09:10	06/26/25 15:12	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/17/25 09:10	06/26/25 15:12	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/17/25 09:10	06/26/25 15:12	1
Chromium	<0.00500		0.00500	0.00180	mg/L		06/17/25 09:10	06/26/25 15:12	1
Cobalt	**0.000392**	**J**	0.000500	0.000170	mg/L		06/17/25 09:10	06/26/25 15:12	1
Copper	<0.00500		0.00500	0.00320	mg/L		06/17/25 09:10	06/26/25 15:12	1
Lead	<0.000500		0.000500	0.000330	mg/L		06/17/25 09:10	06/26/25 15:12	1
Nickel	<0.00500		0.00500	0.00230	mg/L		06/17/25 09:10	06/26/25 15:12	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/17/25 09:10	06/26/25 15:12	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/17/25 09:10	06/26/25 15:12	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/27/25 09:00	06/27/25 15:28	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		06/17/25 09:10	06/26/25 15:12	1
Zinc	<0.0200		0.0200	0.0130	mg/L		06/17/25 09:10	06/26/25 15:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**6.00**		1.88	1.31	mg/L			06/13/25 11:47	1

Client Sample ID: DG-1201

Date Collected: 06/10/25 12:22
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-13

Matrix: Water

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			06/13/25 17:57	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/13/25 17:57	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/13/25 17:57	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/13/25 17:57	1
1,1-Dichloroethane	**0.264**	**J**	1.00	0.220	ug/L			06/13/25 17:57	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/13/25 17:57	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/13/25 17:57	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/13/25 17:57	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/13/25 17:57	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/13/25 17:57	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/13/25 17:57	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/13/25 17:57	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/13/25 17:57	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/13/25 17:57	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/13/25 17:57	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/13/25 17:57	1
Acetone	<10.0		10.0	3.10	ug/L			06/13/25 17:57	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/13/25 17:57	1
Benzene	<0.500		0.500	0.220	ug/L			06/13/25 17:57	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/13/25 17:57	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/13/25 17:57	1
Bromoform	<5.00		5.00	0.780	ug/L			06/13/25 17:57	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/13/25 17:57	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/13/25 17:57	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/13/25 17:57	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/13/25 17:57	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/13/25 17:57	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/13/25 17:57	1
Chloroform	<3.00		3.00	1.30	ug/L			06/13/25 17:57	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/13/25 17:57	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/13/25 17:57	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/13/25 17:57	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/13/25 17:57	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/13/25 17:57	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/13/25 17:57	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/13/25 17:57	1
Styrene	<1.00		1.00	0.370	ug/L			06/13/25 17:57	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/13/25 17:57	1
Toluene	<1.00		1.00	0.430	ug/L			06/13/25 17:57	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/13/25 17:57	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/13/25 17:57	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/13/25 17:57	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/13/25 17:57	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/13/25 17:57	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/13/25 17:57	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/13/25 17:57	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/13/25 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*76 - 130*		*06/13/25 17:57*	*1*

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-1201
Date Collected: 06/10/25 12:22
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-13
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*06/13/25 17:57*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/13/25 17:57*	*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		06/17/25 09:10	06/27/25 14:57	1
Arsenic	**0.000606**	**J**	0.00200	0.000530	mg/L		06/17/25 09:10	06/26/25 15:22	1
Barium	**0.0251**		0.00200	0.000660	mg/L		06/17/25 09:10	06/26/25 15:22	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/17/25 09:10	06/26/25 15:22	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/17/25 09:10	06/26/25 15:22	1
Chromium	**0.00242**	**J**	0.00500	0.00180	mg/L		06/17/25 09:10	06/26/25 15:22	1
Cobalt	**0.000723**		0.000500	0.000170	mg/L		06/17/25 09:10	06/26/25 15:22	1
Copper	**0.00437**	**J**	0.00500	0.00320	mg/L		06/17/25 09:10	06/26/25 15:22	1
Lead	**0.000885**		0.000500	0.000330	mg/L		06/17/25 09:10	06/26/25 15:22	1
Nickel	**0.00250**	**J**	0.00500	0.00230	mg/L		06/17/25 09:10	06/26/25 15:22	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/17/25 09:10	06/26/25 15:22	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/17/25 09:10	06/26/25 15:22	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/27/25 09:00	06/27/25 15:33	1
Vanadium	**0.00336**	**J**	0.00500	0.00170	mg/L		06/17/25 09:10	06/26/25 15:22	1
Zinc	<0.0200		0.0200	0.0130	mg/L		06/17/25 09:10	06/26/25 15:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**36.3**		3.75	2.63	mg/L			06/13/25 11:47	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-1205
Date Collected: 06/10/25 12:57
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-14
Matrix: Water

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			06/13/25 18:19	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/13/25 18:19	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/13/25 18:19	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/13/25 18:19	1
1,1-Dichloroethane	**2.56**		1.00	0.220	ug/L			06/13/25 18:19	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/13/25 18:19	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/13/25 18:19	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/13/25 18:19	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/13/25 18:19	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/13/25 18:19	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/13/25 18:19	1
1,2-Dichloropropane	**0.891**	**J**	1.00	0.270	ug/L			06/13/25 18:19	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/13/25 18:19	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/13/25 18:19	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/13/25 18:19	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/13/25 18:19	1
Acetone	<10.0		10.0	3.10	ug/L			06/13/25 18:19	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/13/25 18:19	1
Benzene	<0.500		0.500	0.220	ug/L			06/13/25 18:19	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/13/25 18:19	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/13/25 18:19	1
Bromoform	<5.00		5.00	0.780	ug/L			06/13/25 18:19	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/13/25 18:19	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/13/25 18:19	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/13/25 18:19	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/13/25 18:19	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/13/25 18:19	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/13/25 18:19	1
Chloroform	<3.00		3.00	1.30	ug/L			06/13/25 18:19	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/13/25 18:19	1
cis-1,2-Dichloroethene	**0.730**	**J**	1.00	0.210	ug/L			06/13/25 18:19	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/13/25 18:19	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/13/25 18:19	1
Dichlorodifluoromethane	**4.62**		3.00	0.250	ug/L			06/13/25 18:19	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/13/25 18:19	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/13/25 18:19	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/13/25 18:19	1
Styrene	<1.00		1.00	0.370	ug/L			06/13/25 18:19	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/13/25 18:19	1
Toluene	<1.00		1.00	0.430	ug/L			06/13/25 18:19	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/13/25 18:19	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/13/25 18:19	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/13/25 18:19	1
Trichloroethene	**0.448**	**J**	1.00	0.430	ug/L			06/13/25 18:19	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/13/25 18:19	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/13/25 18:19	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/13/25 18:19	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/13/25 18:19	1

Client Sample ID: DG-1205
Date Collected: 06/10/25 12:57
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-14
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*76 - 130*		*06/13/25 18:19*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*06/13/25 18:19*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*06/13/25 18:19*	*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		06/17/25 09:10	06/27/25 15:00	1
Arsenic	**0.00348**		0.00200	0.000530	mg/L		06/17/25 09:10	06/26/25 15:25	1
Barium	**0.0112**		0.00200	0.000660	mg/L		06/17/25 09:10	06/26/25 15:25	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/17/25 09:10	06/26/25 15:25	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/17/25 09:10	06/26/25 15:25	1
Chromium	<0.00500		0.00500	0.00180	mg/L		06/17/25 09:10	06/26/25 15:25	1
Cobalt	**0.000470**	**J**	0.000500	0.000170	mg/L		06/17/25 09:10	06/26/25 15:25	1
Copper	<0.00500		0.00500	0.00320	mg/L		06/17/25 09:10	06/26/25 15:25	1
Lead	**0.000352**	**J**	0.000500	0.000330	mg/L		06/17/25 09:10	06/26/25 15:25	1
Nickel	**0.00289**	**J**	0.00500	0.00230	mg/L		06/17/25 09:10	06/26/25 15:25	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/17/25 09:10	06/26/25 15:25	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/17/25 09:10	06/26/25 15:25	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/27/25 09:00	06/27/25 15:35	1
Vanadium	**0.00384**	**J**	0.00500	0.00170	mg/L		06/17/25 09:10	06/26/25 15:25	1
Zinc	<0.0200		0.0200	0.0130	mg/L		06/17/25 09:10	06/26/25 15:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**33.3**		5.00	3.50	mg/L			06/13/25 11:47	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-1301
Date Collected: 06/10/25 13:52
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-15
Matrix: Water

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			06/13/25 18:42	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/13/25 18:42	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/13/25 18:42	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/13/25 18:42	1
1,1-Dichloroethane	**8.98**		1.00	0.220	ug/L			06/13/25 18:42	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/13/25 18:42	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/13/25 18:42	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/13/25 18:42	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/13/25 18:42	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/13/25 18:42	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/13/25 18:42	1
1,2-Dichloropropane	**0.710**	**J**	1.00	0.270	ug/L			06/13/25 18:42	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/13/25 18:42	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/13/25 18:42	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/13/25 18:42	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/13/25 18:42	1
Acetone	<10.0		10.0	3.10	ug/L			06/13/25 18:42	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/13/25 18:42	1
Benzene	<0.500		0.500	0.220	ug/L			06/13/25 18:42	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/13/25 18:42	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/13/25 18:42	1
Bromoform	<5.00		5.00	0.780	ug/L			06/13/25 18:42	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/13/25 18:42	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/13/25 18:42	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/13/25 18:42	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/13/25 18:42	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/13/25 18:42	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/13/25 18:42	1
Chloroform	<3.00		3.00	1.30	ug/L			06/13/25 18:42	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/13/25 18:42	1
cis-1,2-Dichloroethene	**24.7**		1.00	0.210	ug/L			06/13/25 18:42	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/13/25 18:42	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/13/25 18:42	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/13/25 18:42	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/13/25 18:42	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/13/25 18:42	1
Styrene	<1.00		1.00	0.370	ug/L			06/13/25 18:42	1
Tetrachloroethene	**0.868**	**J**	1.00	0.480	ug/L			06/13/25 18:42	1
Toluene	<1.00		1.00	0.430	ug/L			06/13/25 18:42	1
trans-1,2-Dichloroethene	**0.735**	**J**	1.00	0.270	ug/L			06/13/25 18:42	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/13/25 18:42	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/13/25 18:42	1
Trichloroethene	**4.02**		1.00	0.430	ug/L			06/13/25 18:42	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/13/25 18:42	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/13/25 18:42	1
Vinyl chloride	**0.392**	**J**	1.00	0.180	ug/L			06/13/25 18:42	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/13/25 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*76 - 130*		*06/13/25 18:42*	*1*

Client Sample ID: DG-1301

Date Collected: 06/10/25 13:52
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-15

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*06/13/25 18:42*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/13/25 18:42*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<10.0		10.0	5.50	ug/L		06/16/25 11:56	06/25/25 12:39	1
Di-n-butyl phthalate	<10.0		10.0	5.60	ug/L		06/16/25 11:56	06/25/25 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*88*		*39 - 140*	*06/16/25 11:56*	*06/25/25 12:39*	*1*
2-Fluorobiphenyl (Surr)	*77*		*33 - 126*	*06/16/25 11:56*	*06/25/25 12:39*	*1*
Terphenyl-d14 (Surr)	*112*		*13 - 150*	*06/16/25 11:56*	*06/25/25 12:39*	*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		06/17/25 09:10	06/27/25 15:03	1
Arsenic	**0.000591**	**J**	0.00200	0.000530	mg/L		06/17/25 09:10	06/26/25 15:28	1
Barium	**0.0486**		0.00200	0.000660	mg/L		06/17/25 09:10	06/26/25 15:28	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/17/25 09:10	06/26/25 15:28	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/17/25 09:10	06/26/25 15:28	1
Chromium	**0.00266**	**J**	0.00500	0.00180	mg/L		06/17/25 09:10	06/26/25 15:28	1
Cobalt	**0.000596**		0.000500	0.000170	mg/L		06/17/25 09:10	06/26/25 15:28	1
Copper	**0.00440**	**J**	0.00500	0.00320	mg/L		06/17/25 09:10	06/26/25 15:28	1
Lead	**0.000749**		0.000500	0.000330	mg/L		06/17/25 09:10	06/26/25 15:28	1
Nickel	**0.00353**	**J**	0.00500	0.00230	mg/L		06/17/25 09:10	06/26/25 15:28	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/17/25 09:10	06/26/25 15:28	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/17/25 09:10	06/26/25 15:28	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/27/25 09:00	06/27/25 15:38	1
Vanadium	**0.00464**	**J**	0.00500	0.00170	mg/L		06/17/25 09:10	06/26/25 15:28	1
Zinc	<0.0200		0.0200	0.0130	mg/L		06/17/25 09:10	06/26/25 15:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**29.0**		5.00	3.50	mg/L			06/13/25 11:47	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-1305
Date Collected: 06/10/25 15:04
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-16
Matrix: Water

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			06/13/25 19:04	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/13/25 19:04	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/13/25 19:04	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/13/25 19:04	1
1,1-Dichloroethane	**0.655**	**J**	1.00	0.220	ug/L			06/13/25 19:04	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/13/25 19:04	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/13/25 19:04	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/13/25 19:04	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/13/25 19:04	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/13/25 19:04	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/13/25 19:04	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/13/25 19:04	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/13/25 19:04	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/13/25 19:04	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/13/25 19:04	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/13/25 19:04	1
Acetone	<10.0		10.0	3.10	ug/L			06/13/25 19:04	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/13/25 19:04	1
Benzene	<0.500		0.500	0.220	ug/L			06/13/25 19:04	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/13/25 19:04	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/13/25 19:04	1
Bromoform	<5.00		5.00	0.780	ug/L			06/13/25 19:04	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/13/25 19:04	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/13/25 19:04	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/13/25 19:04	1
Chlorobenzene	**0.523**	**J**	1.00	0.400	ug/L			06/13/25 19:04	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/13/25 19:04	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/13/25 19:04	1
Chloroform	<3.00		3.00	1.30	ug/L			06/13/25 19:04	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/13/25 19:04	1
cis-1,2-Dichloroethene	**0.299**	**J**	1.00	0.210	ug/L			06/13/25 19:04	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/13/25 19:04	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/13/25 19:04	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/13/25 19:04	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/13/25 19:04	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/13/25 19:04	1
Styrene	<1.00		1.00	0.370	ug/L			06/13/25 19:04	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/13/25 19:04	1
Toluene	<1.00		1.00	0.430	ug/L			06/13/25 19:04	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/13/25 19:04	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/13/25 19:04	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/13/25 19:04	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/13/25 19:04	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/13/25 19:04	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/13/25 19:04	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/13/25 19:04	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/13/25 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*76 - 130*		*06/13/25 19:04*	*1*

Client Sample ID: DG-1305
Date Collected: 06/10/25 15:04
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-16
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*06/13/25 19:04*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/13/25 19:04*	*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		06/17/25 09:10	06/27/25 15:06	1
Arsenic	**0.000893**	**J**	0.00200	0.000530	mg/L		06/17/25 09:10	06/26/25 15:30	1
Barium	**0.0792**		0.00200	0.000660	mg/L		06/17/25 09:10	06/26/25 15:30	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/17/25 09:10	06/26/25 15:30	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/17/25 09:10	06/26/25 15:30	1
Chromium	<0.00500		0.00500	0.00180	mg/L		06/17/25 09:10	06/26/25 15:30	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		06/17/25 09:10	06/26/25 15:30	1
Copper	<0.00500		0.00500	0.00320	mg/L		06/17/25 09:10	06/26/25 15:30	1
Lead	<0.000500		0.000500	0.000330	mg/L		06/17/25 09:10	06/26/25 15:30	1
Nickel	<0.00500		0.00500	0.00230	mg/L		06/17/25 09:10	06/26/25 15:30	1
Selenium	**0.00149**	**J**	0.00500	0.00140	mg/L		06/17/25 09:10	06/26/25 15:30	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/17/25 09:10	06/26/25 15:30	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/27/25 09:00	06/27/25 15:41	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		06/17/25 09:10	06/26/25 15:30	1
Zinc	<0.0200		0.0200	0.0130	mg/L		06/17/25 09:10	06/26/25 15:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**2.50**		1.88	1.31	mg/L			06/13/25 14:04	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-1401R
Date Collected: 06/10/25 15:52
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-17
Matrix: Water

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			06/13/25 19:26	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/13/25 19:26	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/13/25 19:26	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/13/25 19:26	1
1,1-Dichloroethane	**2.45**		1.00	0.220	ug/L			06/13/25 19:26	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/13/25 19:26	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/13/25 19:26	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/13/25 19:26	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/13/25 19:26	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/13/25 19:26	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/13/25 19:26	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/13/25 19:26	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/13/25 19:26	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/13/25 19:26	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/13/25 19:26	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/13/25 19:26	1
Acetone	<10.0		10.0	3.10	ug/L			06/13/25 19:26	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/13/25 19:26	1
Benzene	<0.500		0.500	0.220	ug/L			06/13/25 19:26	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/13/25 19:26	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/13/25 19:26	1
Bromoform	<5.00		5.00	0.780	ug/L			06/13/25 19:26	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/13/25 19:26	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/13/25 19:26	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/13/25 19:26	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/13/25 19:26	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/13/25 19:26	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/13/25 19:26	1
Chloroform	<3.00		3.00	1.30	ug/L			06/13/25 19:26	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/13/25 19:26	1
cis-1,2-Dichloroethene	**0.551**	**J**	1.00	0.210	ug/L			06/13/25 19:26	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/13/25 19:26	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/13/25 19:26	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/13/25 19:26	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/13/25 19:26	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/13/25 19:26	1
Styrene	<1.00		1.00	0.370	ug/L			06/13/25 19:26	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/13/25 19:26	1
Toluene	<1.00		1.00	0.430	ug/L			06/13/25 19:26	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/13/25 19:26	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/13/25 19:26	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/13/25 19:26	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/13/25 19:26	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/13/25 19:26	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/13/25 19:26	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/13/25 19:26	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/13/25 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*76 - 130*		*06/13/25 19:26*	*1*

Client Sample ID: DG-1401R
Date Collected: 06/10/25 15:52
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-17
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*80 - 120*		*06/13/25 19:26*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/13/25 19:26*	*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		06/17/25 09:10	06/27/25 15:09	1
Arsenic	**0.000948**	**J**	0.00200	0.000530	mg/L		06/17/25 09:10	06/26/25 15:33	1
Barium	**0.0470**		0.00200	0.000660	mg/L		06/17/25 09:10	06/26/25 15:33	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/17/25 09:10	06/26/25 15:33	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/17/25 09:10	06/26/25 15:33	1
Chromium	**0.00260**	**J**	0.00500	0.00180	mg/L		06/17/25 09:10	06/26/25 15:33	1
Cobalt	**0.000681**		0.000500	0.000170	mg/L		06/17/25 09:10	06/26/25 15:33	1
Copper	<0.00500		0.00500	0.00320	mg/L		06/17/25 09:10	06/26/25 15:33	1
Lead	**0.000465**	**J**	0.000500	0.000330	mg/L		06/17/25 09:10	06/26/25 15:33	1
Nickel	**0.00361**	**J**	0.00500	0.00230	mg/L		06/17/25 09:10	06/26/25 15:33	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/17/25 09:10	06/26/25 15:33	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/17/25 09:10	06/26/25 15:33	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/27/25 09:00	06/27/25 15:43	1
Vanadium	**0.00446**	**J**	0.00500	0.00170	mg/L		06/17/25 09:10	06/26/25 15:33	1
Zinc	<0.0200		0.0200	0.0130	mg/L		06/17/25 09:10	06/26/25 15:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**30.0**		3.75	2.63	mg/L			06/13/25 11:47	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DGP-1500
Date Collected: 06/11/25 14:06
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-18
Matrix: Water

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			06/13/25 19:49	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/13/25 19:49	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/13/25 19:49	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/13/25 19:49	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/13/25 19:49	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/13/25 19:49	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			06/13/25 19:49	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/13/25 19:49	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			06/13/25 19:49	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/13/25 19:49	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/13/25 19:49	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/13/25 19:49	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/13/25 19:49	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/13/25 19:49	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			06/13/25 19:49	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			06/13/25 19:49	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/13/25 19:49	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			06/13/25 19:49	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/13/25 19:49	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/13/25 19:49	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/13/25 19:49	1
Acetone	<10.0		10.0	3.10	ug/L			06/13/25 19:49	1
Acrolein	<10.0		10.0	3.60	ug/L			06/13/25 19:49	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/13/25 19:49	1
Allyl chloride	<2.00		2.00	0.700	ug/L			06/13/25 19:49	1
Benzene	**0.569**		0.500	0.220	ug/L			06/13/25 19:49	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/13/25 19:49	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/13/25 19:49	1
Bromoform	<5.00		5.00	0.780	ug/L			06/13/25 19:49	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/13/25 19:49	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/13/25 19:49	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/13/25 19:49	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/13/25 19:49	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/13/25 19:49	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/13/25 19:49	1
Chloroform	<3.00		3.00	1.30	ug/L			06/13/25 19:49	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/13/25 19:49	1
Chloroprene	<1.00		1.00	0.230	ug/L			06/13/25 19:49	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/13/25 19:49	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/13/25 19:49	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/13/25 19:49	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			06/13/25 19:49	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			06/13/25 19:49	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/13/25 19:49	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/13/25 19:49	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			06/13/25 19:49	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			06/13/25 19:49	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/13/25 19:49	1
Naphthalene	<5.00		5.00	3.00	ug/L			06/13/25 19:49	1

Client Sample ID: DGP-1500

Date Collected: 06/11/25 14:06
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-18

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	<10.0		10.0	3.40	ug/L			06/13/25 19:49	1
Styrene	<1.00		1.00	0.370	ug/L			06/13/25 19:49	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/13/25 19:49	1
Toluene	<1.00		1.00	0.430	ug/L			06/13/25 19:49	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/13/25 19:49	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/13/25 19:49	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/13/25 19:49	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/13/25 19:49	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/13/25 19:49	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/13/25 19:49	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/13/25 19:49	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/13/25 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*117*		*76 - 130*		*06/13/25 19:49*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*06/13/25 19:49*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*06/13/25 19:49*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<10.0		10.0	0.640	ug/L		06/16/25 11:56	06/25/25 13:06	1
Acenaphthylene	<10.0		10.0	0.720	ug/L		06/16/25 11:56	06/25/25 13:06	1
Acetophenone	<10.0		10.0	0.690	ug/L		06/16/25 11:56	06/25/25 13:06	1
2-Acetylaminofluorene	<10.0		10.0	2.70	ug/L		06/16/25 11:56	06/25/25 13:06	1
4-Aminobiphenyl	<10.0		10.0	2.20	ug/L		06/16/25 11:56	06/25/25 13:06	1
Anthracene	<10.0		10.0	0.870	ug/L		06/16/25 11:56	06/25/25 13:06	1
Benzo[a]anthracene	<10.0		10.0	0.850	ug/L		06/16/25 11:56	06/25/25 13:06	1
Benzo[a]pyrene	<10.0		10.0	8.10	ug/L		06/16/25 11:56	06/25/25 13:06	1
Benzo(b)fluoranthene	<10.0		10.0	4.90	ug/L		06/16/25 11:56	06/25/25 13:06	1
Benzo[g,h,i]perylene	<10.0		10.0	6.30	ug/L		06/16/25 11:56	06/25/25 13:06	1
Benzo[k]fluoranthene	<10.0		10.0	2.20	ug/L		06/16/25 11:56	06/25/25 13:06	1
Benzyl alcohol	<10.0		10.0	1.30	ug/L		06/16/25 11:56	06/25/25 13:06	1
Bis(2-chloroethoxy)methane	<10.0		10.0	0.760	ug/L		06/16/25 11:56	06/25/25 13:06	1
Bis(2-chloroethyl)ether	<10.0		10.0	0.820	ug/L		06/16/25 11:56	06/25/25 13:06	1
bis (2-chloroisopropyl) ether	<10.0		10.0	0.540	ug/L		06/16/25 11:56	06/25/25 13:06	1
Bis(2-ethylhexyl) phthalate	**10.1**		10.0	5.50	ug/L		06/16/25 11:56	06/25/25 13:06	1
4-Bromophenyl phenyl ether	<10.0		10.0	0.700	ug/L		06/16/25 11:56	06/25/25 13:06	1
Butyl benzyl phthalate	<10.0		10.0	5.40	ug/L		06/16/25 11:56	06/25/25 13:06	1
4-Chloroaniline	<10.0		10.0	0.620	ug/L		06/16/25 11:56	06/25/25 13:06	1
Chlorobenzilate	<10.0		10.0	3.60	ug/L		06/16/25 11:56	06/25/25 13:06	1
4-Chloro-3-methylphenol	<10.0		10.0	0.840	ug/L		06/16/25 11:56	06/25/25 13:06	1
2-Chloronaphthalene	<10.0		10.0	0.640	ug/L		06/16/25 11:56	06/25/25 13:06	1
2-Chlorophenol	<10.0		10.0	0.540	ug/L		06/16/25 11:56	06/25/25 13:06	1
4-Chlorophenyl phenyl ether	<10.0		10.0	0.690	ug/L		06/16/25 11:56	06/25/25 13:06	1
Chrysene	<10.0		10.0	0.870	ug/L		06/16/25 11:56	06/25/25 13:06	1
Diallate	<10.0		10.0	4.00	ug/L		06/16/25 11:56	06/25/25 13:06	1
Dibenz(a,h)anthracene	<10.0		10.0	3.90	ug/L		06/16/25 11:56	06/25/25 13:06	1
Dibenzofuran	<10.0		10.0	0.740	ug/L		06/16/25 11:56	06/25/25 13:06	1
3,3'-Dichlorobenzidine	<10.0		10.0	1.40	ug/L		06/16/25 11:56	06/25/25 13:06	1
2,4-Dichlorophenol	<10.0		10.0	0.850	ug/L		06/16/25 11:56	06/25/25 13:06	1

Client Sample ID: DGP-1500
Date Collected: 06/11/25 14:06
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-18
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dichlorophenol	<10.0		10.0	0.690	ug/L		06/16/25 11:56	06/25/25 13:06	1
Diethyl phthalate	<10.0		10.0	1.70	ug/L		06/16/25 11:56	06/25/25 13:06	1
Dimethoate	<10.0		10.0	3.60	ug/L		06/16/25 11:56	06/25/25 13:06	1
7,12-Dimethylbenz(a)anthracene	<10.0		10.0	1.90	ug/L		06/16/25 11:56	06/25/25 13:06	1
3,3'-Dimethylbenzidine	<10.0		10.0	1.50	ug/L		06/16/25 11:56	06/25/25 13:06	1
2,4-Dimethylphenol	<10.0		10.0	0.580	ug/L		06/16/25 11:56	06/25/25 13:06	1
Dimethyl phthalate	<10.0		10.0	1.00	ug/L		06/16/25 11:56	06/25/25 13:06	1
Di-n-butyl phthalate	<10.0		10.0	5.60	ug/L		06/16/25 11:56	06/25/25 13:06	1
1,3-Dinitrobenzene	<10.0		10.0	3.20	ug/L		06/16/25 11:56	06/25/25 13:06	1
4,6-Dinitro-2-methylphenol	<10.0		10.0	6.90	ug/L		06/16/25 11:56	06/25/25 13:06	1
2,4-Dinitrophenol	<20.0		20.0	13.0	ug/L		06/16/25 11:56	06/25/25 13:06	1
2,4-Dinitrotoluene	<10.0		10.0	6.40	ug/L		06/16/25 11:56	06/25/25 13:06	1
2,6-Dinitrotoluene	<10.0		10.0	0.520	ug/L		06/16/25 11:56	06/25/25 13:06	1
Di-n-octyl phthalate	<20.0		20.0	7.00	ug/L		06/16/25 11:56	06/25/25 13:06	1
Dinoseb	<10.0		10.0	2.40	ug/L		06/16/25 11:56	06/25/25 13:06	1
Diphenylamine	<10.0		10.0	6.00	ug/L		06/16/25 11:56	06/25/25 13:06	1
Disulfoton	<10.0		10.0	2.40	ug/L		06/16/25 11:56	06/25/25 13:06	1
Ethyl methanesulfonate	<10.0		10.0	3.60	ug/L		06/16/25 11:56	06/25/25 13:06	1
Ethyl Parathion	<10.0		10.0	2.20	ug/L		06/16/25 11:56	06/25/25 13:06	1
Famphur	<10.0	*+	10.0	3.80	ug/L		06/16/25 11:56	06/25/25 13:06	1
Fluoranthene	<10.0		10.0	1.70	ug/L		06/16/25 11:56	06/25/25 13:06	1
Fluorene	<10.0		10.0	0.790	ug/L		06/16/25 11:56	06/25/25 13:06	1
Hexachlorobenzene	<10.0		10.0	0.700	ug/L		06/16/25 11:56	06/25/25 13:06	1
Hexachlorobutadiene	<10.0		10.0	0.860	ug/L		06/16/25 11:56	06/25/25 13:06	1
Hexachlorocyclopentadiene	<10.0		10.0	5.10	ug/L		06/16/25 11:56	06/25/25 13:06	1
Hexachloroethane	<10.0		10.0	0.970	ug/L		06/16/25 11:56	06/25/25 13:06	1
Hexachloropropene	<10.0		10.0	2.60	ug/L		06/16/25 11:56	06/25/25 13:06	1
Indeno[1,2,3-cd]pyrene	<10.0		10.0	4.20	ug/L		06/16/25 11:56	06/25/25 13:06	1
Isodrin	<10.0		10.0	4.70	ug/L		06/16/25 11:56	06/25/25 13:06	1
Isophorone	<10.0		10.0	0.930	ug/L		06/16/25 11:56	06/25/25 13:06	1
Isosafrole	<10.0		10.0	2.30	ug/L		06/16/25 11:56	06/25/25 13:06	1
Kepone	<10.0		10.0	1.00	ug/L		06/16/25 11:56	06/26/25 18:26	1
Methapyrilene	<10.0	*-	10.0	0.760	ug/L		06/16/25 11:56	06/25/25 13:06	1
3-Methylcholanthrene	<10.0		10.0	0.320	ug/L		06/16/25 11:56	06/25/25 13:06	1
Methyl methanesulfonate	<10.0		10.0	3.30	ug/L		06/16/25 11:56	06/25/25 13:06	1
2-Methylnaphthalene	<10.0		10.0	0.590	ug/L		06/16/25 11:56	06/25/25 13:06	1
Methyl parathion	<10.0		10.0	2.30	ug/L		06/16/25 11:56	06/25/25 13:06	1
2-Methylphenol	<10.0		10.0	0.650	ug/L		06/16/25 11:56	06/25/25 13:06	1
4-Methylphenol (and/or 3-Methylphenol)	<10.0		10.0	0.700	ug/L		06/16/25 11:56	06/25/25 13:06	1
1,4-Naphthoquinone	<10.0		10.0	3.60	ug/L		06/16/25 11:56	06/25/25 13:06	1
1-Naphthylamine	<10.0		10.0	2.50	ug/L		06/16/25 11:56	06/25/25 13:06	1
2-Naphthylamine	<10.0		10.0	2.10	ug/L		06/16/25 11:56	06/25/25 13:06	1
2-Nitroaniline	<10.0		10.0	5.90	ug/L		06/16/25 11:56	06/25/25 13:06	1
3-Nitroaniline	<10.0		10.0	2.70	ug/L		06/16/25 11:56	06/25/25 13:06	1
4-Nitroaniline	<10.0		10.0	1.30	ug/L		06/16/25 11:56	06/25/25 13:06	1
Nitrobenzene	<10.0		10.0	0.800	ug/L		06/16/25 11:56	06/25/25 13:06	1
5-Nitro-o-toluidine	<10.0		10.0	2.80	ug/L		06/16/25 11:56	06/25/25 13:06	1
2-Nitrophenol	<10.0		10.0	6.80	ug/L		06/16/25 11:56	06/25/25 13:06	1
4-Nitrophenol	<10.0		10.0	7.60	ug/L		06/16/25 11:56	06/25/25 13:06	1

Client Sample ID: DGP-1500
Date Collected: 06/11/25 14:06
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-18
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiethylamine	<10.0		10.0	3.40	ug/L		06/16/25 11:56	06/25/25 13:06	1
N-Nitrosodimethylamine	<10.0		10.0	0.720	ug/L		06/16/25 11:56	06/25/25 13:06	1
N-Nitrosodi-n-butylamine	<10.0		10.0	3.90	ug/L		06/16/25 11:56	06/25/25 13:06	1
N-Nitrosodi-n-propylamine	<10.0		10.0	0.920	ug/L		06/16/25 11:56	06/25/25 13:06	1
N-Nitrosodiphenylamine	<10.0		10.0	0.750	ug/L		06/16/25 11:56	06/25/25 13:06	1
N-Nitrosomethylethylamine	<10.0		10.0	4.90	ug/L		06/16/25 11:56	06/25/25 13:06	1
N-Nitrosopiperidine	<10.0		10.0	2.70	ug/L		06/16/25 11:56	06/25/25 13:06	1
N-Nitrosopyrrolidine	<10.0		10.0	3.60	ug/L		06/16/25 11:56	06/25/25 13:06	1
o,o',o''-Triethylphosphorothioate	<10.0		10.0	3.20	ug/L		06/16/25 11:56	06/25/25 13:06	1
o-Toluidine	<10.0		10.0	2.90	ug/L		06/16/25 11:56	06/25/25 13:06	1
p-Dimethylamino azobenzene	<10.0		10.0	2.20	ug/L		06/16/25 11:56	06/25/25 13:06	1
Pentachlorobenzene	<10.0		10.0	2.80	ug/L		06/16/25 11:56	06/25/25 13:06	1
Pentachloronitrobenzene	<10.0		10.0	5.80	ug/L		06/16/25 11:56	06/25/25 13:06	1
Pentachlorophenol	<10.0		10.0	9.60	ug/L		06/16/25 11:56	06/25/25 13:06	1
Phenacetin	<10.0		10.0	1.90	ug/L		06/16/25 11:56	06/25/25 13:06	1
Phenanthrene	<10.0		10.0	0.790	ug/L		06/16/25 11:56	06/25/25 13:06	1
Phenol	<10.0		10.0	1.10	ug/L		06/16/25 11:56	06/25/25 13:06	1
1,4-Phenylenediamine	<10.0	*-	10.0	1.90	ug/L		06/16/25 11:56	06/30/25 01:33	1
Phorate	<10.0		10.0	3.20	ug/L		06/16/25 11:56	06/25/25 13:06	1
Pronamide	<10.0		10.0	2.70	ug/L		06/16/25 11:56	06/25/25 13:06	1
Pyrene	<10.0		10.0	0.790	ug/L		06/16/25 11:56	06/25/25 13:06	1
Safrole	<10.0		10.0	2.80	ug/L		06/16/25 11:56	06/25/25 13:06	1
1,2,4,5-Tetrachlorobenzene	<10.0		10.0	0.540	ug/L		06/16/25 11:56	06/25/25 13:06	1
2,3,4,6-Tetrachlorophenol	<10.0		10.0	5.30	ug/L		06/16/25 11:56	06/25/25 13:06	1
Thionazin	<10.0		10.0	3.50	ug/L		06/16/25 11:56	06/25/25 13:06	1
2,4,5-Trichlorophenol	<10.0		10.0	5.30	ug/L		06/16/25 11:56	06/25/25 13:06	1
2,4,6-Trichlorophenol	<10.0		10.0	5.00	ug/L		06/16/25 11:56	06/25/25 13:06	1
1,3,5-Trinitrobenzene	<10.0		10.0	2.30	ug/L		06/16/25 11:56	06/25/25 13:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*33 - 126*	*06/16/25 11:56*	*06/25/25 13:06*	*1*
2-Fluorophenol (Surr)	*67*		*21 - 110*	*06/16/25 11:56*	*06/25/25 13:06*	*1*
Nitrobenzene-d5 (Surr)	*97*		*39 - 140*	*06/16/25 11:56*	*06/25/25 13:06*	*1*
Phenol-d5 (Surr)	*61*		*21 - 110*	*06/16/25 11:56*	*06/25/25 13:06*	*1*
Terphenyl-d14 (Surr)	*109*		*13 - 150*	*06/16/25 11:56*	*06/25/25 13:06*	*1*
2,4,6-Tribromophenol (Surr)	*87*		*20 - 144*	*06/16/25 11:56*	*06/25/25 13:06*	*1*

Method: SW846 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetonitrile	<10.0		10.0	2.60	mg/L			06/17/25 12:42	1
Isobutanol	<10.0		10.0	2.40	mg/L			06/17/25 12:42	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0891		0.0891	0.0223	ug/L		06/16/25 07:15	06/18/25 15:29	1
4,4'-DDE	<0.0891		0.0891	0.0267	ug/L		06/16/25 07:15	06/18/25 15:29	1
4,4'-DDT	<0.0891		0.0891	0.0178	ug/L		06/16/25 07:15	06/18/25 15:29	1
Aldrin	<0.0891		0.0891	0.0196	ug/L		06/16/25 07:15	06/18/25 15:29	1
alpha-BHC	<0.0891		0.0891	0.00891	ug/L		06/16/25 07:15	06/18/25 15:29	1
beta-BHC	<0.0891		0.0891	0.0374	ug/L		06/16/25 07:15	06/18/25 15:29	1

Client Sample ID: DGP-1500
Date Collected: 06/11/25 14:06
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-18
Matrix: Water

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	<1.78		1.78	0.347	ug/L		06/16/25 07:15	06/18/25 15:29	1
delta-BHC	<0.0891		0.0891	0.0285	ug/L		06/16/25 07:15	06/18/25 15:29	1
Dieldrin	<0.0891		0.0891	0.0187	ug/L		06/16/25 07:15	06/18/25 15:29	1
Endosulfan I	<0.0891		0.0891	0.0249	ug/L		06/16/25 07:15	06/18/25 15:29	1
Endosulfan II	<0.0891		0.0891	0.0232	ug/L		06/16/25 07:15	06/18/25 15:29	1
Endosulfan sulfate	<0.0891		0.0891	0.0160	ug/L		06/16/25 07:15	06/18/25 15:29	1
Endrin	<0.0891		0.0891	0.0249	ug/L		06/16/25 07:15	06/18/25 15:29	1
Endrin aldehyde	<0.0891		0.0891	0.0240	ug/L		06/16/25 07:15	06/18/25 15:29	1
gamma-BHC (Lindane)	<0.0891		0.0891	0.00891	ug/L		06/16/25 07:15	06/18/25 15:29	1
Heptachlor	<0.0891		0.0891	0.0205	ug/L		06/16/25 07:15	06/18/25 15:29	1
Heptachlor epoxide	<0.0891		0.0891	0.0285	ug/L		06/16/25 07:15	06/18/25 15:29	1
Methoxychlor	<0.0891		0.0891	0.0285	ug/L		06/16/25 07:15	06/18/25 15:29	1
Toxaphene	<1.78		1.78	0.891	ug/L		06/16/25 07:15	06/18/25 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*40*		*10 - 150*	*06/16/25 07:15*	*06/18/25 15:29*	*1*
Tetrachloro-m-xylene	*59*		*17 - 150*	*06/16/25 07:15*	*06/18/25 15:29*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<1.78		1.78	0.730	ug/L		06/16/25 07:15	06/18/25 15:29	1
PCB-1221	<1.78		1.78	0.730	ug/L		06/16/25 07:15	06/18/25 15:29	1
PCB-1232	<1.78		1.78	0.730	ug/L		06/16/25 07:15	06/18/25 15:29	1
PCB-1242	<1.78		1.78	0.730	ug/L		06/16/25 07:15	06/18/25 15:29	1
PCB-1248	<1.78		1.78	0.615	ug/L		06/16/25 07:15	06/18/25 15:29	1
PCB-1254	<1.78		1.78	0.615	ug/L		06/16/25 07:15	06/18/25 15:29	1
PCB-1260	<1.78		1.78	0.615	ug/L		06/16/25 07:15	06/18/25 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*40*		*10 - 150*	*06/16/25 07:15*	*06/18/25 15:29*	*1*
Tetrachloro-m-xylene	*59*		*17 - 150*	*06/16/25 07:15*	*06/18/25 15:29*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<1.00		1.00	0.126	ug/L		06/17/25 07:15	06/17/25 18:58	1
Silvex (2,4,5-TP)	<1.00		1.00	0.105	ug/L		06/17/25 07:15	06/17/25 18:58	1
2,4,5-T	<1.00		1.00	0.140	ug/L		06/17/25 07:15	06/17/25 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*112*		*25 - 130*	*06/17/25 07:15*	*06/17/25 18:58*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.79**	**J**	5.00	2.25	mg/L			06/18/25 16:34	5
Sulfate	**61.3**		5.00	2.10	mg/L			06/18/25 16:34	5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**93.5**		1.00	0.170	mg/L		06/23/25 09:00	06/23/25 16:33	1
Iron	**0.388**	**J**	0.500	0.0790	mg/L		06/23/25 09:00	06/23/25 16:33	1
Magnesium	**26.3**		1.00	0.120	mg/L		06/23/25 09:00	06/23/25 16:33	1

Client Sample ID: DGP-1500

Date Collected: 06/11/25 14:06
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-18

Matrix: Water

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.552**		0.0100	0.00410	mg/L		06/23/25 09:00	06/23/25 16:33	1
Potassium	**2.29**		2.00	1.10	mg/L		06/23/25 09:00	06/23/25 16:33	1
Sodium	**13.9**		2.00	1.00	mg/L		06/23/25 09:00	06/23/25 16:33	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		06/17/25 09:10	06/27/25 15:12	1
Arsenic	**0.0180**		0.00200	0.000530	mg/L		06/17/25 09:10	06/26/25 15:35	1
Barium	**0.0518**		0.00200	0.000660	mg/L		06/17/25 09:10	06/26/25 15:35	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/17/25 09:10	06/26/25 15:35	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/17/25 09:10	06/26/25 15:35	1
Chromium	<0.00500		0.00500	0.00180	mg/L		06/17/25 09:10	06/26/25 15:35	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		06/17/25 09:10	06/26/25 15:35	1
Copper	<0.00500		0.00500	0.00320	mg/L		06/17/25 09:10	06/26/25 15:35	1
Lead	<0.000500		0.000500	0.000330	mg/L		06/17/25 09:10	06/26/25 15:35	1
Nickel	<0.00500		0.00500	0.00230	mg/L		06/17/25 09:10	06/26/25 15:35	1
Selenium	**0.00154**	**J**	0.00500	0.00140	mg/L		06/17/25 09:10	06/26/25 15:35	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/17/25 09:10	06/26/25 15:35	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/27/25 09:00	06/27/25 15:51	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		06/17/25 09:10	06/26/25 15:35	1
Zinc	<0.0200		0.0200	0.0130	mg/L		06/17/25 09:10	06/26/25 15:35	1
Tin	<0.00500		0.00500	0.00250	mg/L		06/17/25 09:10	06/26/25 15:35	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000110	mg/L		06/18/25 11:21	06/19/25 11:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 353.2)	**0.178**		0.100	0.0800	mg/L			06/17/25 02:08	1
Cyanide, Total (SW846 9012B)	<0.0100		0.0100	0.00350	mg/L		06/17/25 09:43	06/18/25 08:09	1
Sulfide (SW846 9034)	**5.64**		1.00	0.231	mg/L		06/16/25 18:22	06/17/25 00:04	1
Total Organic Carbon (SW846 9060A)	**6.98**		1.00	0.500	mg/L			06/20/25 14:02	1
Total Suspended Solids (USGS I-3765-85)	**16.7**		5.00	3.50	mg/L			06/13/25 11:47	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	**346**		5.00	2.50	mg/L			06/14/25 18:04	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**346**		5.00	2.50	mg/L			06/14/25 18:04	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			06/14/25 18:04	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: MW-D2
Date Collected: 06/10/25 15:04
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-19
Matrix: Water

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			06/13/25 20:11	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/13/25 20:11	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/13/25 20:11	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/13/25 20:11	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/13/25 20:11	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/13/25 20:11	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/13/25 20:11	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/13/25 20:11	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/13/25 20:11	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/13/25 20:11	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/13/25 20:11	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/13/25 20:11	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/13/25 20:11	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/13/25 20:11	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/13/25 20:11	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/13/25 20:11	1
Acetone	<10.0		10.0	3.10	ug/L			06/13/25 20:11	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/13/25 20:11	1
Benzene	<0.500		0.500	0.220	ug/L			06/13/25 20:11	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/13/25 20:11	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/13/25 20:11	1
Bromoform	<5.00		5.00	0.780	ug/L			06/13/25 20:11	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/13/25 20:11	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/13/25 20:11	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/13/25 20:11	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/13/25 20:11	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/13/25 20:11	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/13/25 20:11	1
Chloroform	<3.00		3.00	1.30	ug/L			06/13/25 20:11	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/13/25 20:11	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/13/25 20:11	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/13/25 20:11	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/13/25 20:11	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/13/25 20:11	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/13/25 20:11	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/13/25 20:11	1
Styrene	<1.00		1.00	0.370	ug/L			06/13/25 20:11	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/13/25 20:11	1
Toluene	<1.00		1.00	0.430	ug/L			06/13/25 20:11	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/13/25 20:11	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/13/25 20:11	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/13/25 20:11	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/13/25 20:11	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/13/25 20:11	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/13/25 20:11	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/13/25 20:11	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/13/25 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*76 - 130*		*06/13/25 20:11*	*1*

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: MW-D2
Date Collected: 06/10/25 15:04
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-19
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*06/13/25 20:11*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/13/25 20:11*	*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		06/17/25 09:10	06/27/25 15:15	1
Arsenic	**0.00118**	**J**	0.00200	0.000530	mg/L		06/17/25 09:10	06/26/25 15:38	1
Barium	**0.0391**		0.00200	0.000660	mg/L		06/17/25 09:10	06/26/25 15:38	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/17/25 09:10	06/26/25 15:38	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/17/25 09:10	06/26/25 15:38	1
Chromium	<0.00500		0.00500	0.00180	mg/L		06/17/25 09:10	06/26/25 15:38	1
Cobalt	**0.000707**		0.000500	0.000170	mg/L		06/17/25 09:10	06/26/25 15:38	1
Copper	<0.00500		0.00500	0.00320	mg/L		06/17/25 09:10	06/26/25 15:38	1
Lead	<0.000500		0.000500	0.000330	mg/L		06/17/25 09:10	06/26/25 15:38	1
Nickel	**0.00339**	**J**	0.00500	0.00230	mg/L		06/17/25 09:10	06/26/25 15:38	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/17/25 09:10	06/26/25 15:38	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/17/25 09:10	06/26/25 15:38	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/27/25 09:00	06/27/25 15:53	1
Vanadium	**0.00241**	**J**	0.00500	0.00170	mg/L		06/17/25 09:10	06/26/25 15:38	1
Zinc	<0.0200		0.0200	0.0130	mg/L		06/17/25 09:10	06/26/25 15:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**8.88**		1.88	1.31	mg/L			06/13/25 14:04	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: SW-101
Date Collected: 06/09/25 17:10
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-20
Matrix: Water

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			06/14/25 08:58	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/14/25 08:58	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/14/25 08:58	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/14/25 08:58	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/14/25 08:58	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/14/25 08:58	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/14/25 08:58	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/14/25 08:58	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/14/25 08:58	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/14/25 08:58	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/14/25 08:58	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/14/25 08:58	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/14/25 08:58	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/14/25 08:58	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/14/25 08:58	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/14/25 08:58	1
Acetone	<10.0		10.0	3.10	ug/L			06/14/25 08:58	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/14/25 08:58	1
Benzene	<0.500		0.500	0.220	ug/L			06/14/25 08:58	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/14/25 08:58	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/14/25 08:58	1
Bromoform	<5.00		5.00	0.780	ug/L			06/14/25 08:58	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/14/25 08:58	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/14/25 08:58	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/14/25 08:58	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/14/25 08:58	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/14/25 08:58	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/14/25 08:58	1
Chloroform	<3.00		3.00	1.30	ug/L			06/14/25 08:58	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/14/25 08:58	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/14/25 08:58	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/14/25 08:58	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/14/25 08:58	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/14/25 08:58	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/14/25 08:58	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/14/25 08:58	1
Styrene	<1.00		1.00	0.370	ug/L			06/14/25 08:58	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/14/25 08:58	1
Toluene	<1.00		1.00	0.430	ug/L			06/14/25 08:58	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/14/25 08:58	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/14/25 08:58	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/14/25 08:58	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/14/25 08:58	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/14/25 08:58	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/14/25 08:58	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/14/25 08:58	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/14/25 08:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*76 - 130*		*06/14/25 08:58*	*1*

Client Sample ID: SW-101
Date Collected: 06/09/25 17:10
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-20
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*06/14/25 08:58*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*06/14/25 08:58*	*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		06/17/25 09:10	06/27/25 15:18	1
Arsenic	**0.00982**		0.00200	0.000530	mg/L		06/17/25 09:10	06/26/25 15:40	1
Barium	**0.232**		0.00200	0.000660	mg/L		06/17/25 09:10	06/26/25 15:40	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/17/25 09:10	06/26/25 15:40	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		06/17/25 09:10	06/26/25 15:40	1
Chromium	**0.00861**		0.00500	0.00180	mg/L		06/17/25 09:10	06/26/25 15:40	1
Cobalt	**0.00516**		0.000500	0.000170	mg/L		06/17/25 09:10	06/26/25 15:40	1
Copper	**0.00614**		0.00500	0.00320	mg/L		06/17/25 09:10	06/26/25 15:40	1
Lead	**0.000535**		0.000500	0.000330	mg/L		06/17/25 09:10	06/26/25 15:40	1
Nickel	**0.0335**		0.00500	0.00230	mg/L		06/17/25 09:10	06/26/25 15:40	1
Selenium	**0.00239**	J	0.00500	0.00140	mg/L		06/17/25 09:10	06/26/25 15:40	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/17/25 09:10	06/26/25 15:40	1
Thallium	<0.00100		0.00100	0.000570	mg/L		06/27/25 09:00	06/27/25 15:56	1
Vanadium	**0.00842**		0.00500	0.00170	mg/L		06/17/25 09:10	06/26/25 15:40	1
Zinc	**0.0240**		0.0200	0.0130	mg/L		06/17/25 09:10	06/26/25 15:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**26.0**		15.0	10.5	mg/L			06/13/25 11:47	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Sediment Pond Discharge
Date Collected: 06/09/25 16:52
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-21
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			06/14/25 03:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*76 - 130*		*06/14/25 03:48*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*06/14/25 03:48*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*06/14/25 03:48*	*1*

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: MW-P7
Date Collected: 06/10/25 14:08
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-22
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	3.29		1.00	0.430	ug/L			06/14/25 04:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*76 - 130*		*06/14/25 04:11*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*06/14/25 04:11*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*06/14/25 04:11*	*1*

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: MWP-14

Date Collected: 06/11/25 09:10
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-23

Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.2		5.00	2.25	mg/L			06/18/25 16:46	5
Sulfate	81.1		5.00	2.10	mg/L			06/18/25 16:46	5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	91.6		1.00	0.170	mg/L		06/23/25 09:00	06/23/25 15:57	1
Magnesium	27.0		1.00	0.120	mg/L		06/23/25 09:00	06/23/25 15:57	1
Potassium	1.87	J	2.00	1.10	mg/L		06/23/25 09:00	06/23/25 15:57	1
Sodium	11.4		2.00	1.00	mg/L		06/23/25 09:00	06/23/25 15:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	312		5.00	2.50	mg/L			06/14/25 18:21	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	312		5.00	2.50	mg/L			06/14/25 18:21	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			06/14/25 18:21	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Trip Blank 1
Date Collected: 06/11/25 00:00
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-24
Matrix: Water

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			06/14/25 05:12	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/14/25 05:12	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/14/25 05:12	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/14/25 05:12	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/14/25 05:12	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/19/25 14:01	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/14/25 05:12	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/14/25 05:12	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/14/25 05:12	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/14/25 05:12	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/14/25 05:12	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/14/25 05:12	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/14/25 05:12	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/14/25 05:12	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/19/25 14:01	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/14/25 05:12	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/14/25 05:12	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/14/25 05:12	1
Acetone	<10.0		10.0	3.10	ug/L			06/14/25 05:12	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/14/25 05:12	1
Benzene	<0.500		0.500	0.220	ug/L			06/14/25 05:12	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/14/25 05:12	1
Bromoform	<5.00		5.00	0.780	ug/L			06/14/25 05:12	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/14/25 05:12	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/14/25 05:12	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/14/25 05:12	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/14/25 05:12	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/14/25 05:12	1
Chloroform	<3.00		3.00	1.30	ug/L			06/14/25 05:12	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/14/25 05:12	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/14/25 05:12	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/14/25 05:12	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/14/25 05:12	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			06/14/25 05:12	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/14/25 05:12	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/14/25 05:12	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/14/25 05:12	1
Styrene	<1.00		1.00	0.370	ug/L			06/14/25 05:12	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/14/25 05:12	1
Toluene	<1.00		1.00	0.430	ug/L			06/14/25 05:12	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/14/25 05:12	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/14/25 05:12	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/14/25 05:12	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/14/25 05:12	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/14/25 05:12	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/14/25 05:12	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/14/25 05:12	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/14/25 05:12	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Trip Blank 1
Date Collected: 06/11/25 00:00
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-24
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		06/19/25 14:01	1
Dibromofluoromethane (Surr)	115		76 - 130		06/19/25 14:01	1
Toluene-d8 (Surr)	100		80 - 120		06/19/25 14:01	1
Dibromofluoromethane (Surr)	111		76 - 130		06/14/25 05:12	1
Toluene-d8 (Surr)	90		80 - 120		06/14/25 05:12	1
4-Bromofluorobenzene (Surr)	101		80 - 120		06/14/25 05:12	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Trip Blank 2
Date Collected: 06/11/25 00:00
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-25
Matrix: Water

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			06/13/25 22:50	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/13/25 22:50	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/13/25 22:50	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/13/25 22:50	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/13/25 22:50	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/13/25 22:50	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/13/25 22:50	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/13/25 22:50	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/13/25 22:50	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/13/25 22:50	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/13/25 22:50	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/13/25 22:50	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/13/25 22:50	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/13/25 22:50	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/13/25 22:50	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/13/25 22:50	1
Acetone	<10.0		10.0	3.10	ug/L			06/13/25 22:50	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/13/25 22:50	1
Benzene	<0.500		0.500	0.220	ug/L			06/13/25 22:50	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/13/25 22:50	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/13/25 22:50	1
Bromoform	<5.00		5.00	0.780	ug/L			06/13/25 22:50	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/13/25 22:50	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/13/25 22:50	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/13/25 22:50	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/13/25 22:50	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/13/25 22:50	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/13/25 22:50	1
Chloroform	<3.00		3.00	1.30	ug/L			06/13/25 22:50	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/13/25 22:50	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/13/25 22:50	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/13/25 22:50	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/13/25 22:50	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			06/13/25 22:50	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/13/25 22:50	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/13/25 22:50	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/13/25 22:50	1
Styrene	<1.00		1.00	0.370	ug/L			06/13/25 22:50	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/13/25 22:50	1
Toluene	<1.00		1.00	0.430	ug/L			06/13/25 22:50	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/13/25 22:50	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/13/25 22:50	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/13/25 22:50	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/13/25 22:50	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/13/25 22:50	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/13/25 22:50	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/13/25 22:50	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/13/25 22:50	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Trip Blank 2
Date Collected: 06/11/25 00:00
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-25
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	106		76 - 130		06/13/25 22:50	1
Toluene-d8 (Surr)	106		80 - 120		06/13/25 22:50	1
4-Bromofluorobenzene (Surr)	101		80 - 120		06/13/25 22:50	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Trip Blank 3
Date Collected: 06/11/25 00:00
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-26
Matrix: Water

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			06/13/25 23:13	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/13/25 23:13	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/13/25 23:13	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/13/25 23:13	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/13/25 23:13	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/13/25 23:13	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/13/25 23:13	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/13/25 23:13	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/13/25 23:13	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/13/25 23:13	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/13/25 23:13	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/13/25 23:13	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/13/25 23:13	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/13/25 23:13	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/13/25 23:13	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/13/25 23:13	1
Acetone	<10.0		10.0	3.10	ug/L			06/13/25 23:13	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/13/25 23:13	1
Benzene	<0.500		0.500	0.220	ug/L			06/13/25 23:13	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/13/25 23:13	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/13/25 23:13	1
Bromoform	<5.00		5.00	0.780	ug/L			06/13/25 23:13	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/13/25 23:13	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/13/25 23:13	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/13/25 23:13	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/13/25 23:13	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/13/25 23:13	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/13/25 23:13	1
Chloroform	<3.00		3.00	1.30	ug/L			06/13/25 23:13	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/13/25 23:13	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/13/25 23:13	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/13/25 23:13	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/13/25 23:13	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			06/13/25 23:13	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/13/25 23:13	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/13/25 23:13	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/13/25 23:13	1
Styrene	<1.00		1.00	0.370	ug/L			06/13/25 23:13	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/13/25 23:13	1
Toluene	<1.00		1.00	0.430	ug/L			06/13/25 23:13	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/13/25 23:13	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/13/25 23:13	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/13/25 23:13	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/13/25 23:13	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/13/25 23:13	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/13/25 23:13	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/13/25 23:13	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/13/25 23:13	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Trip Blank 3
Date Collected: 06/11/25 00:00
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-26
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		76 - 130		06/13/25 23:13	1
Toluene-d8 (Surr)	106		80 - 120		06/13/25 23:13	1
4-Bromofluorobenzene (Surr)	102		80 - 120		06/13/25 23:13	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Trip Blank 4
Date Collected: 06/11/25 00:00
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-27
Matrix: Water

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			06/13/25 23:36	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/13/25 23:36	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/13/25 23:36	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/13/25 23:36	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/13/25 23:36	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/13/25 23:36	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/13/25 23:36	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/13/25 23:36	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/13/25 23:36	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/13/25 23:36	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/13/25 23:36	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/13/25 23:36	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/13/25 23:36	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/13/25 23:36	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/13/25 23:36	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/13/25 23:36	1
Acetone	<10.0		10.0	3.10	ug/L			06/13/25 23:36	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/13/25 23:36	1
Benzene	<0.500		0.500	0.220	ug/L			06/13/25 23:36	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/13/25 23:36	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/13/25 23:36	1
Bromoform	<5.00		5.00	0.780	ug/L			06/13/25 23:36	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/13/25 23:36	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/13/25 23:36	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/13/25 23:36	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/13/25 23:36	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/13/25 23:36	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/13/25 23:36	1
Chloroform	<3.00		3.00	1.30	ug/L			06/13/25 23:36	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/13/25 23:36	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/13/25 23:36	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/13/25 23:36	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/13/25 23:36	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			06/13/25 23:36	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/13/25 23:36	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/13/25 23:36	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/13/25 23:36	1
Styrene	<1.00		1.00	0.370	ug/L			06/13/25 23:36	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/13/25 23:36	1
Toluene	<1.00		1.00	0.430	ug/L			06/13/25 23:36	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/13/25 23:36	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/13/25 23:36	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/13/25 23:36	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/13/25 23:36	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/13/25 23:36	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/13/25 23:36	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/13/25 23:36	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/13/25 23:36	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Trip Blank 4
Date Collected: 06/11/25 00:00
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-27
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		76 - 130		06/13/25 23:36	1
Toluene-d8 (Surr)	104		80 - 120		06/13/25 23:36	1
4-Bromofluorobenzene (Surr)	103		80 - 120		06/13/25 23:36	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Trip Blank 5
Date Collected: 06/11/25 00:00
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-28
Matrix: Water

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			06/13/25 23:59	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/13/25 23:59	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/13/25 23:59	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/13/25 23:59	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/13/25 23:59	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/13/25 23:59	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/13/25 23:59	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/13/25 23:59	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/13/25 23:59	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/13/25 23:59	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/13/25 23:59	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/13/25 23:59	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/13/25 23:59	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/13/25 23:59	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/13/25 23:59	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/13/25 23:59	1
Acetone	<10.0		10.0	3.10	ug/L			06/13/25 23:59	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/13/25 23:59	1
Benzene	<0.500		0.500	0.220	ug/L			06/13/25 23:59	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/13/25 23:59	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/13/25 23:59	1
Bromoform	<5.00		5.00	0.780	ug/L			06/13/25 23:59	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/13/25 23:59	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/13/25 23:59	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/13/25 23:59	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/13/25 23:59	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/13/25 23:59	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/13/25 23:59	1
Chloroform	<3.00		3.00	1.30	ug/L			06/13/25 23:59	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/13/25 23:59	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/13/25 23:59	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/13/25 23:59	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/13/25 23:59	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			06/13/25 23:59	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/13/25 23:59	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/13/25 23:59	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/13/25 23:59	1
Styrene	<1.00		1.00	0.370	ug/L			06/13/25 23:59	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/13/25 23:59	1
Toluene	<1.00		1.00	0.430	ug/L			06/13/25 23:59	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/13/25 23:59	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/13/25 23:59	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/13/25 23:59	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/13/25 23:59	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/13/25 23:59	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/13/25 23:59	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/13/25 23:59	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/13/25 23:59	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Trip Blank 5
Date Collected: 06/11/25 00:00
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-28
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		76 - 130		06/13/25 23:59	1
Toluene-d8 (Surr)	105		80 - 120		06/13/25 23:59	1
4-Bromofluorobenzene (Surr)	101		80 - 120		06/13/25 23:59	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Trip Blank 6
Date Collected: 06/11/25 00:00
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-29
Matrix: Water

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			06/14/25 00:22	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/14/25 00:22	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/14/25 00:22	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/14/25 00:22	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/14/25 00:22	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/14/25 00:22	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/14/25 00:22	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/14/25 00:22	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/14/25 00:22	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/14/25 00:22	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/14/25 00:22	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/14/25 00:22	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/14/25 00:22	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/14/25 00:22	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/14/25 00:22	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/14/25 00:22	1
Acetone	<10.0		10.0	3.10	ug/L			06/14/25 00:22	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/14/25 00:22	1
Benzene	<0.500		0.500	0.220	ug/L			06/14/25 00:22	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/14/25 00:22	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/14/25 00:22	1
Bromoform	<5.00		5.00	0.780	ug/L			06/14/25 00:22	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/14/25 00:22	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/14/25 00:22	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/14/25 00:22	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/14/25 00:22	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/14/25 00:22	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/14/25 00:22	1
Chloroform	<3.00		3.00	1.30	ug/L			06/14/25 00:22	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/14/25 00:22	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/14/25 00:22	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/14/25 00:22	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/14/25 00:22	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			06/14/25 00:22	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/14/25 00:22	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/14/25 00:22	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/14/25 00:22	1
Styrene	<1.00		1.00	0.370	ug/L			06/14/25 00:22	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/14/25 00:22	1
Toluene	<1.00		1.00	0.430	ug/L			06/14/25 00:22	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/14/25 00:22	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/14/25 00:22	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/14/25 00:22	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/14/25 00:22	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/14/25 00:22	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/14/25 00:22	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/14/25 00:22	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/14/25 00:22	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Trip Blank 6
Date Collected: 06/11/25 00:00
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-29
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		76 - 130		06/14/25 00:22	1
Toluene-d8 (Surr)	106		80 - 120		06/14/25 00:22	1
4-Bromofluorobenzene (Surr)	100		80 - 120		06/14/25 00:22	1

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.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

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
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Surrogate Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(76-130)	(80-120)	(80-120)
310-308642-1	UG-90	109	90	101
310-308642-2	UG-201	113	90	101
310-308642-3	TDG-301	110	90	101
310-308642-4	TDG-305	109	90	105
310-308642-6	DG-901	113	90	98
310-308642-7	DG-905	109	90	103
310-308642-8	DG-1001	109	92	103
310-308642-9	DG-1005	110	89	105
310-308642-10	MW-D1	112	91	99
310-308642-11	DG-1101	108	91	102
310-308642-11 MS	DG-1101	97	98	98
310-308642-11 MSD	DG-1101	99	98	100
310-308642-12	DG-1105R	111	90	106
310-308642-13	DG-1201	113	91	102
310-308642-14	DG-1205	109	90	104
310-308642-15	DG-1301	110	90	102
310-308642-16	DG-1305	111	91	100
310-308642-17	DG-1401R	111	89	102
310-308642-18	DGP-1500	117	92	101
310-308642-19	MW-D2	112	91	102
310-308642-20	SW-101	113	91	104
310-308642-21	Sediment Pond Discharge	106	105	101
310-308642-22	MW-P7	107	107	101
310-308642-24	Trip Blank 1	111	90	101
310-308642-24	Trip Blank 1	115	100	101
310-308642-25	Trip Blank 2	106	106	101
310-308642-26	Trip Blank 3	105	106	102
310-308642-27	Trip Blank 4	105	104	103
310-308642-28	Trip Blank 5	105	105	101
310-308642-29	Trip Blank 6	105	106	100
LCS 310-457529/7	Lab Control Sample	98	97	101
LCS 310-457529/8	Lab Control Sample	111	92	102
LCS 310-457531/7	Lab Control Sample	97	97	100
LCS 310-457531/8	Lab Control Sample	109	90	102
LCS 310-457548/6	Lab Control Sample	99	108	100
LCS 310-457548/7	Lab Control Sample	106	106	102
LCS 310-458100/6	Lab Control Sample	97	102	102
LCS 310-458100/7	Lab Control Sample	109	97	102
MB 310-457529/6	Method Blank	109	92	104
MB 310-457531/6	Method Blank	110	90	104
MB 310-457548/5	Method Blank	104	107	102
MB 310-458100/5	Method Blank	110	98	102

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	FBP	TPHL	2FP	PHL	TBP
Lab Sample ID	Client Sample ID	(39-140)	(33-126)	(13-150)	(21-110)	(21-110)	(20-144)
310-308642-9	DG-1005	93	84	116	64	58	88
310-308642-15	DG-1301	88	77	112			
310-308642-18	DGP-1500	97	84	109	67	61	87
LCS 310-457705/2-A	Lab Control Sample	84	72	105	69	61	103
MB 310-457705/1-A	Method Blank	103	85	116	76	69	102

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TPHL = Terphenyl-d14 (Surr)
2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB2	TCX2
Lab Sample ID	Client Sample ID	(10-150)	(17-150)
310-308642-9	DG-1005	94	58
310-308642-18	DGP-1500	40	59
LB 310-457489/1-E	Method Blank	79	79
LCS 310-457654/2-A	Lab Control Sample	64	80
MB 310-457654/1-A	Method Blank	67	81

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB2	TCX2
Lab Sample ID	Client Sample ID	(10-150)	(17-150)
310-308642-18	DGP-1500	40	59

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(10-150)	(17-150)
310-308642-9	DG-1005	87	58
LB 310-457490/1-D	Method Blank	55	82
LCS 310-457654/16-A	Lab Control Sample	47	64
MB 310-457654/1-A	Method Blank	63	81

Surrogate Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		DCPAA1							
Lab Sample ID	Client Sample ID	(25-130)							
310-308642-9	DG-1005	82							
310-308642-18	DGP-1500	112							
LCS 500-821942/2-A	Lab Control Sample	80							
LCSD 500-821942/3-A	Lab Control Sample Dup	83							
MB 500-821942/1-A	Method Blank	69							

Surrogate Legend

DCPAA = DCAA

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

Lab Sample ID: MB 310-457529/6
Matrix: Water
Analysis Batch: 457529

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			06/13/25 16:04	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			06/13/25 16:04	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			06/13/25 16:04	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			06/13/25 16:04	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			06/13/25 16:04	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/13/25 16:04	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/13/25 16:04	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/13/25 16:04	1
Acetone	<10.0		10.0	3.10	ug/L			06/13/25 16:04	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/13/25 16:04	1
Acrolein	<10.0		10.0	3.60	ug/L			06/13/25 16:04	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/13/25 16:04	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/13/25 16:04	1
Allyl chloride	<2.00		2.00	0.700	ug/L			06/13/25 16:04	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/13/25 16:04	1
Benzene	<0.500		0.500	0.220	ug/L			06/13/25 16:04	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/13/25 16:04	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/13/25 16:04	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/13/25 16:04	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/13/25 16:04	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/13/25 16:04	1
Bromoform	<5.00		5.00	0.780	ug/L			06/13/25 16:04	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/13/25 16:04	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/13/25 16:04	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/13/25 16:04	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/13/25 16:04	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/13/25 16:04	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/13/25 16:04	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/13/25 16:04	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/13/25 16:04	1
Chloroform	<3.00		3.00	1.30	ug/L			06/13/25 16:04	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/13/25 16:04	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/13/25 16:04	1
Chloroprene	<1.00		1.00	0.230	ug/L			06/13/25 16:04	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/13/25 16:04	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/13/25 16:04	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/13/25 16:04	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/13/25 16:04	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			06/13/25 16:04	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			06/13/25 16:04	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/13/25 16:04	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/13/25 16:04	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/13/25 16:04	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/13/25 16:04	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			06/13/25 16:04	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			06/13/25 16:04	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/13/25 16:04	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/13/25 16:04	1

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

Lab Sample ID: MB 310-457529/6
Matrix: Water
Analysis Batch: 457529

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<5.00		5.00	3.00	ug/L			06/13/25 16:04	1
Propionitrile	<10.0		10.0	3.40	ug/L			06/13/25 16:04	1
Styrene	<1.00		1.00	0.370	ug/L			06/13/25 16:04	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/13/25 16:04	1
Toluene	<1.00		1.00	0.430	ug/L			06/13/25 16:04	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/13/25 16:04	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/13/25 16:04	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/13/25 16:04	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/13/25 16:04	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/13/25 16:04	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/13/25 16:04	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/13/25 16:04	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/13/25 16:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*76 - 130*		*06/13/25 16:04*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*06/13/25 16:04*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*06/13/25 16:04*	*1*

Lab Sample ID: LCS 310-457529/7
Matrix: Water
Analysis Batch: 457529

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloropropene	20.0	21.52		ug/L		108	70 - 133
1,2,4-Trichlorobenzene	20.0	19.56		ug/L		98	69 - 125
1,3-Dichlorobenzene	20.0	19.40		ug/L		97	71 - 120
1,3-Dichloropropane	20.0	19.56		ug/L		98	72 - 125
2,2-Dichloropropane	20.0	20.74		ug/L		104	51 - 146
1,2-Dibromo-3-chloropropane	20.0	16.68		ug/L		83	62 - 132
2-Butanone (MEK)	40.0	39.20		ug/L		98	60 - 134
1,2-Dibromoethane (EDB)	20.0	20.09		ug/L		100	74 - 122
Acetone	40.0	38.93		ug/L		97	59 - 136
1,2-Dichlorobenzene	20.0	19.04		ug/L		95	74 - 120
Acrolein	94.8	102.2		ug/L		108	50 - 150
1,4-Dichlorobenzene	20.0	19.04		ug/L		95	72 - 120
Acrylonitrile	200	202.5		ug/L		101	50 - 150
Allyl chloride	20.0	18.93		ug/L		95	61 - 136
1,1-Dichloroethane	20.0	19.52		ug/L		98	69 - 127
Benzene	20.0	20.42		ug/L		102	71 - 125
1,2-Dichloroethane	20.0	18.26		ug/L		91	68 - 125
Bromochloromethane	20.0	21.41		ug/L		107	69 - 131
1,1-Dichloroethene	20.0	20.74		ug/L		104	64 - 134
Bromodichloromethane	20.0	19.03		ug/L		95	70 - 122
1,2-Dichloropropane	20.0	21.09		ug/L		105	72 - 128
Bromoform	20.0	17.00		ug/L		85	62 - 122
2-Hexanone	40.0	37.32		ug/L		93	62 - 139
Carbon disulfide	20.0	20.44		ug/L		102	58 - 137

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

Lab Sample ID: LCS 310-457529/7
Matrix: Water
Analysis Batch: 457529

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon tetrachloride	20.0	20.32		ug/L		102	63 - 136
Chlorobenzene	20.0	19.44		ug/L		97	74 - 120
4-Methyl-2-pentanone (MIBK)	40.0	35.93		ug/L		90	62 - 136
Chlorodibromomethane	20.0	16.53		ug/L		83	69 - 121
Chloroform	20.0	19.00		ug/L		95	72 - 122
1,1,1,2-Tetrachloroethane	20.0	19.19		ug/L		96	70 - 121
Chloroprene	20.0	21.06		ug/L		105	67 - 136
1,1,2,2-Tetrachloroethane	20.0	18.66		ug/L		93	70 - 122
cis-1,2-Dichloroethene	20.0	20.11		ug/L		101	72 - 123
cis-1,3-Dichloropropene	20.0	16.71		ug/L		84	72 - 123
Dibromomethane	20.0	19.60		ug/L		98	72 - 122
Ethyl methacrylate	20.0	18.58		ug/L		93	68 - 128
Ethylbenzene	20.0	19.89		ug/L		99	75 - 120
Iodomethane	20.0	17.05		ug/L		85	18 - 150
1,1,1-Trichloroethane	20.0	20.54		ug/L		103	69 - 130
1,1,2-Trichloroethane	20.0	19.39		ug/L		97	75 - 121
Methacrylonitrile	200	204.8		ug/L		102	67 - 128
Methyl methacrylate	40.0	39.84		ug/L		100	69 - 129
Methylene chloride	20.0	23.11		ug/L		116	72 - 128
1,2,3-Trichloropropane	20.0	18.52		ug/L		93	70 - 122
Naphthalene	20.0	20.16		ug/L		101	69 - 126
Propionitrile	200	208.3		ug/L		104	68 - 131
Styrene	20.0	20.45		ug/L		102	74 - 122
Tetrachloroethene	20.0	20.95		ug/L		105	70 - 128
Toluene	20.0	19.94		ug/L		100	74 - 120
trans-1,2-Dichloroethene	20.0	20.63		ug/L		103	67 - 127
trans-1,3-Dichloropropene	20.0	15.97		ug/L		80	67 - 123
trans-1,4-Dichloro-2-butene	20.0	16.96		ug/L		85	50 - 150
Trichloroethene	20.0	20.04		ug/L		100	70 - 128
Vinyl acetate	40.0	34.77		ug/L		87	50 - 150
Xylenes, Total	40.0	40.84		ug/L		102	74 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*98*		*76 - 130*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*

Lab Sample ID: LCS 310-457529/8
Matrix: Water
Analysis Batch: 457529

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	17.29		ug/L		86	33 - 138
Chloroethane	20.0	17.09		ug/L		85	59 - 139
Chloromethane	20.0	18.67		ug/L		93	52 - 146
Dichlorodifluoromethane	20.0	17.76		ug/L		89	45 - 150
Trichlorofluoromethane	20.0	17.79		ug/L		89	55 - 150
Vinyl chloride	20.0	17.55		ug/L		88	60 - 142

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

Lab Sample ID: LCS 310-457529/8
Matrix: Water
Analysis Batch: 457529

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*111*		*76 - 130*
Toluene-d8 (Surr)	*92*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Lab Sample ID: 310-308642-11 MS
Matrix: Water
Analysis Batch: 457529

Client Sample ID: DG-1101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloropropene	<1.00		25.0	25.30		ug/L		101	55 - 133
1,2,4-Trichlorobenzene	<5.00		25.0	25.40		ug/L		102	55 - 126
1,3-Dichlorobenzene	<1.00		25.0	23.46		ug/L		94	58 - 120
1,3-Dichloropropane	<1.00		25.0	24.57		ug/L		98	58 - 125
2,2-Dichloropropane	<4.00		25.0	21.54		ug/L		86	34 - 146
1,2-Dibromo-3-chloropropane	<5.00		25.0	21.61		ug/L		86	44 - 138
2-Butanone (MEK)	<10.0		50.0	48.74		ug/L		97	46 - 134
1,2-Dibromoethane (EDB)	<1.00		25.0	24.92		ug/L		100	60 - 122
Acetone	<10.0		50.0	52.06		ug/L		104	39 - 141
1,2-Dichlorobenzene	<1.00		25.0	23.40		ug/L		94	60 - 120
Acrolein	<10.0		119	103.0		ug/L		87	39 - 150
1,4-Dichlorobenzene	<1.00		25.0	22.71		ug/L		91	58 - 120
Acrylonitrile	<5.00		250	242.4		ug/L		97	41 - 150
Allyl chloride	<2.00		25.0	20.58		ug/L		82	47 - 136
1,1-Dichloroethane	<1.00		25.0	23.03		ug/L		92	53 - 127
Benzene	<0.500		25.0	24.04		ug/L		96	48 - 125
1,2-Dichloroethane	<1.00		25.0	22.33		ug/L		89	48 - 128
Bromochloromethane	<5.00		25.0	25.80		ug/L		103	55 - 131
1,1-Dichloroethene	<2.00		25.0	23.66		ug/L		95	51 - 134
Bromodichloromethane	<1.00		25.0	22.23		ug/L		89	53 - 122
1,2-Dichloropropane	<1.00		25.0	25.56		ug/L		102	59 - 128
Bromoform	<5.00		25.0	20.66		ug/L		83	47 - 122
2-Hexanone	<10.0		50.0	46.54		ug/L		93	46 - 141
Carbon disulfide	<1.00		25.0	26.24		ug/L		105	45 - 137
Carbon tetrachloride	<2.00		25.0	23.27		ug/L		93	45 - 136
Chlorobenzene	<1.00		25.0	23.35		ug/L		93	59 - 120
4-Methyl-2-pentanone (MIBK)	<10.0		50.0	47.23		ug/L		94	49 - 138
Chlorodibromomethane	<5.00		25.0	19.67		ug/L		79	53 - 121
Chloroform	<3.00		25.0	21.94		ug/L		88	52 - 122
1,1,1,2-Tetrachloroethane	<1.00		25.0	23.06		ug/L		92	55 - 121
Chloroprene	<1.00		25.0	25.15		ug/L		101	48 - 136
1,1,2,2-Tetrachloroethane	<1.00		25.0	23.08		ug/L		92	55 - 123
cis-1,2-Dichloroethene	<1.00		25.0	23.86		ug/L		95	51 - 123
cis-1,3-Dichloropropene	<5.00		25.0	19.99		ug/L		80	55 - 123
Dibromomethane	<1.00		25.0	22.98		ug/L		92	57 - 122
Ethyl methacrylate	<2.00		25.0	22.11		ug/L		88	53 - 129
Ethylbenzene	<1.00		25.0	23.27		ug/L		93	53 - 120
Iodomethane	<10.0		25.0	22.42		ug/L		90	18 - 150
1,1,1-Trichloroethane	<1.00		25.0	22.77		ug/L		91	53 - 130

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

Lab Sample ID: 310-308642-11 MS
Matrix: Water
Analysis Batch: 457529

Client Sample ID: DG-1101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	<1.00		25.0	24.59		ug/L		98	60 - 121
Methacrylonitrile	<10.0		250	247.9		ug/L		99	53 - 128
Methyl methacrylate	<2.00		50.0	49.12		ug/L		98	48 - 137
Methylene chloride	<5.00		25.0	26.31		ug/L		105	59 - 128
1,2,3-Trichloropropane	<1.00		25.0	22.89		ug/L		92	56 - 122
Naphthalene	<5.00		25.0	25.84		ug/L		103	45 - 144
Propionitrile	<10.0		250	246.8		ug/L		99	56 - 131
Styrene	<1.00		25.0	24.65		ug/L		99	50 - 125
Tetrachloroethene	<1.00		25.0	24.92		ug/L		100	51 - 128
Toluene	<1.00		25.0	23.16		ug/L		93	52 - 120
trans-1,2-Dichloroethene	<1.00		25.0	24.48		ug/L		98	53 - 127
trans-1,3-Dichloropropene	<5.00		25.0	18.50		ug/L		74	50 - 123
trans-1,4-Dichloro-2-butene	<10.0		25.0	20.39		ug/L		82	28 - 150
Trichloroethene	<1.00		25.0	23.89		ug/L		96	50 - 128
Vinyl acetate	<10.0		50.0	32.56		ug/L		65	31 - 150
Xylenes, Total	<3.00		50.0	47.63		ug/L		95	50 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*76 - 130*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*

Lab Sample ID: 310-308642-11 MSD
Matrix: Water
Analysis Batch: 457529

Client Sample ID: DG-1101
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-Dichloropropene	<1.00		25.0	25.68		ug/L		103	55 - 133	1	20
1,2,4-Trichlorobenzene	<5.00		25.0	27.15		ug/L		109	55 - 126	7	20
1,3-Dichlorobenzene	<1.00		25.0	23.93		ug/L		96	58 - 120	2	20
1,3-Dichloropropane	<1.00		25.0	24.25		ug/L		97	58 - 125	1	20
2,2-Dichloropropane	<4.00		25.0	23.00		ug/L		92	34 - 146	7	20
1,2-Dibromo-3-chloropropane	<5.00		25.0	22.76		ug/L		91	44 - 138	5	24
2-Butanone (MEK)	<10.0		50.0	48.67		ug/L		97	46 - 134	0	23
1,2-Dibromoethane (EDB)	<1.00		25.0	23.78		ug/L		95	60 - 122	5	20
Acetone	<10.0		50.0	54.73		ug/L		109	39 - 141	5	23
1,2-Dichlorobenzene	<1.00		25.0	23.98		ug/L		96	60 - 120	2	20
Acrolein	<10.0		119	110.1		ug/L		93	39 - 150	7	33
1,4-Dichlorobenzene	<1.00		25.0	23.64		ug/L		95	58 - 120	4	20
Acrylonitrile	<5.00		250	251.6		ug/L		101	41 - 150	4	20
Allyl chloride	<2.00		25.0	23.59		ug/L		94	47 - 136	14	33
1,1-Dichloroethane	<1.00		25.0	23.13		ug/L		93	53 - 127	0	20
Benzene	<0.500		25.0	24.49		ug/L		98	48 - 125	2	20
1,2-Dichloroethane	<1.00		25.0	22.18		ug/L		89	48 - 128	1	20
Bromochloromethane	<5.00		25.0	25.58		ug/L		102	55 - 131	1	21
1,1-Dichloroethene	<2.00		25.0	23.48		ug/L		94	51 - 134	1	20
Bromodichloromethane	<1.00		25.0	23.09		ug/L		92	53 - 122	4	20
1,2-Dichloropropane	<1.00		25.0	26.00		ug/L		104	59 - 128	2	20

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

Lab Sample ID: 310-308642-11 MSD
Matrix: Water
Analysis Batch: 457529

Client Sample ID: DG-1101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromoform	<5.00		25.0	21.05		ug/L		84	47 - 122	2	20
2-Hexanone	<10.0		50.0	47.65		ug/L		95	46 - 141	2	20
Carbon disulfide	<1.00		25.0	24.10		ug/L		96	45 - 137	9	24
Carbon tetrachloride	<2.00		25.0	24.35		ug/L		97	45 - 136	5	20
Chlorobenzene	<1.00		25.0	22.90		ug/L		92	59 - 120	2	20
4-Methyl-2-pentanone (MIBK)	<10.0		50.0	47.62		ug/L		95	49 - 138	1	20
Chlorodibromomethane	<5.00		25.0	20.09		ug/L		80	53 - 121	2	20
Chloroform	<3.00		25.0	22.53		ug/L		90	52 - 122	3	20
1,1,1,2-Tetrachloroethane	<1.00		25.0	22.53		ug/L		90	55 - 121	2	20
Chloroprene	<1.00		25.0	25.66		ug/L		103	48 - 136	2	20
1,1,2,2-Tetrachloroethane	<1.00		25.0	22.82		ug/L		91	55 - 123	1	20
cis-1,2-Dichloroethene	<1.00		25.0	24.40		ug/L		98	51 - 123	2	20
cis-1,3-Dichloropropene	<5.00		25.0	19.68		ug/L		79	55 - 123	2	20
Dibromomethane	<1.00		25.0	23.90		ug/L		96	57 - 122	4	20
Ethyl methacrylate	<2.00		25.0	21.76		ug/L		87	53 - 129	2	20
Ethylbenzene	<1.00		25.0	23.06		ug/L		92	53 - 120	1	20
Iodomethane	<10.0		25.0	27.10		ug/L		108	18 - 150	19	32
1,1,1-Trichloroethane	<1.00		25.0	24.04		ug/L		96	53 - 130	5	20
1,1,2-Trichloroethane	<1.00		25.0	24.97		ug/L		100	60 - 121	2	20
Methacrylonitrile	<10.0		250	256.0		ug/L		102	53 - 128	3	20
Methyl methacrylate	<2.00		50.0	50.64		ug/L		101	48 - 137	3	20
Methylene chloride	<5.00		25.0	26.20		ug/L		105	59 - 128	0	20
1,2,3-Trichloropropane	<1.00		25.0	22.86		ug/L		91	56 - 122	0	21
Naphthalene	<5.00		25.0	27.12		ug/L		108	45 - 144	5	32
Propionitrile	<10.0		250	254.3		ug/L		102	56 - 131	3	20
Styrene	<1.00		25.0	24.02		ug/L		96	50 - 125	3	20
Tetrachloroethene	<1.00		25.0	24.50		ug/L		98	51 - 128	2	20
Toluene	<1.00		25.0	22.91		ug/L		92	52 - 120	1	20
trans-1,2-Dichloroethene	<1.00		25.0	24.77		ug/L		99	53 - 127	1	20
trans-1,3-Dichloropropene	<5.00		25.0	18.61		ug/L		74	50 - 123	1	20
trans-1,4-Dichloro-2-butene	<10.0		25.0	20.79		ug/L		83	28 - 150	2	24
Trichloroethene	<1.00		25.0	24.97		ug/L		100	50 - 128	4	20
Vinyl acetate	<10.0		50.0	34.10		ug/L		68	31 - 150	5	25
Xylenes, Total	<3.00		50.0	47.39		ug/L		95	50 - 122	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*76 - 130*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Lab Sample ID: MB 310-457531/6
Matrix: Water
Analysis Batch: 457531

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			06/14/25 03:19	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			06/14/25 03:19	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			06/14/25 03:19	1

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

Lab Sample ID: MB 310-457531/6
Matrix: Water
Analysis Batch: 457531

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			06/14/25 03:19	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			06/14/25 03:19	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/14/25 03:19	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/14/25 03:19	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/14/25 03:19	1
Acetone	<10.0		10.0	3.10	ug/L			06/14/25 03:19	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/14/25 03:19	1
Acrolein	<10.0		10.0	3.60	ug/L			06/14/25 03:19	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/14/25 03:19	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/14/25 03:19	1
Allyl chloride	<2.00		2.00	0.700	ug/L			06/14/25 03:19	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/14/25 03:19	1
Benzene	<0.500		0.500	0.220	ug/L			06/14/25 03:19	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/14/25 03:19	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/14/25 03:19	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/14/25 03:19	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/14/25 03:19	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/14/25 03:19	1
Bromoform	<5.00		5.00	0.780	ug/L			06/14/25 03:19	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/14/25 03:19	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/14/25 03:19	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/14/25 03:19	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/14/25 03:19	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/14/25 03:19	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/14/25 03:19	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/14/25 03:19	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/14/25 03:19	1
Chloroform	<3.00		3.00	1.30	ug/L			06/14/25 03:19	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/14/25 03:19	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/14/25 03:19	1
Chloroprene	<1.00		1.00	0.230	ug/L			06/14/25 03:19	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/14/25 03:19	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/14/25 03:19	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/14/25 03:19	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/14/25 03:19	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			06/14/25 03:19	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			06/14/25 03:19	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/14/25 03:19	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/14/25 03:19	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/14/25 03:19	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/14/25 03:19	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			06/14/25 03:19	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			06/14/25 03:19	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/14/25 03:19	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/14/25 03:19	1
Naphthalene	<5.00		5.00	3.00	ug/L			06/14/25 03:19	1
Propionitrile	<10.0		10.0	3.40	ug/L			06/14/25 03:19	1
Styrene	<1.00		1.00	0.370	ug/L			06/14/25 03:19	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/14/25 03:19	1

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

Lab Sample ID: MB 310-457531/6
Matrix: Water
Analysis Batch: 457531

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<1.00		1.00	0.430	ug/L			06/14/25 03:19	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/14/25 03:19	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/14/25 03:19	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/14/25 03:19	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/14/25 03:19	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/14/25 03:19	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/14/25 03:19	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/14/25 03:19	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/14/25 03:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*76 - 130*		*06/14/25 03:19*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*06/14/25 03:19*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*06/14/25 03:19*	*1*

Lab Sample ID: LCS 310-457531/7
Matrix: Water
Analysis Batch: 457531

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloropropene	20.0	19.21		ug/L		96	70 - 133
1,2,4-Trichlorobenzene	20.0	19.06		ug/L		95	69 - 125
1,3-Dichlorobenzene	20.0	18.05		ug/L		90	71 - 120
1,3-Dichloropropane	20.0	18.51		ug/L		93	72 - 125
2,2-Dichloropropane	20.0	17.28		ug/L		86	51 - 146
1,2-Dibromo-3-chloropropane	20.0	17.26		ug/L		86	62 - 132
2-Butanone (MEK)	40.0	37.57		ug/L		94	60 - 134
1,2-Dibromoethane (EDB)	20.0	18.48		ug/L		92	74 - 122
Acetone	40.0	39.67		ug/L		99	59 - 136
1,2-Dichlorobenzene	20.0	18.63		ug/L		93	74 - 120
Acrolein	94.8	93.58		ug/L		99	50 - 150
1,4-Dichlorobenzene	20.0	17.60		ug/L		88	72 - 120
Acrylonitrile	200	202.5		ug/L		101	50 - 150
Allyl chloride	20.0	17.68		ug/L		88	61 - 136
1,1-Dichloroethane	20.0	18.96		ug/L		95	69 - 127
Benzene	20.0	19.15		ug/L		96	71 - 125
1,2-Dichloroethane	20.0	17.85		ug/L		89	68 - 125
Bromochloromethane	20.0	20.83		ug/L		104	69 - 131
1,1-Dichloroethene	20.0	19.29		ug/L		96	64 - 134
Bromodichloromethane	20.0	18.26		ug/L		91	70 - 122
1,2-Dichloropropane	20.0	20.11		ug/L		101	72 - 128
Bromoform	20.0	16.55		ug/L		83	62 - 122
2-Hexanone	40.0	36.35		ug/L		91	62 - 139
Carbon disulfide	20.0	18.49		ug/L		92	58 - 137
Carbon tetrachloride	20.0	19.06		ug/L		95	63 - 136
Chlorobenzene	20.0	18.14		ug/L		91	74 - 120
4-Methyl-2-pentanone (MIBK)	40.0	36.36		ug/L		91	62 - 136
Chlorodibromomethane	20.0	16.22		ug/L		81	69 - 121

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

Lab Sample ID: LCS 310-457531/7
Matrix: Water
Analysis Batch: 457531

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	20.0	17.93		ug/L		90	72 - 122
1,1,1,2-Tetrachloroethane	20.0	17.77		ug/L		89	70 - 121
Chloroprene	20.0	19.23		ug/L		96	67 - 136
1,1,2,2-Tetrachloroethane	20.0	18.50		ug/L		93	70 - 122
cis-1,2-Dichloroethene	20.0	19.32		ug/L		97	72 - 123
cis-1,3-Dichloropropene	20.0	15.72		ug/L		79	72 - 123
Dibromomethane	20.0	18.93		ug/L		95	72 - 122
Ethyl methacrylate	20.0	18.14		ug/L		91	68 - 128
Ethylbenzene	20.0	18.45		ug/L		92	75 - 120
Iodomethane	20.0	16.92		ug/L		85	18 - 150
1,1,1-Trichloroethane	20.0	18.98		ug/L		95	69 - 130
1,1,2-Trichloroethane	20.0	18.85		ug/L		94	75 - 121
Methacrylonitrile	200	198.8		ug/L		99	67 - 128
Methyl methacrylate	40.0	39.43		ug/L		99	69 - 129
Methylene chloride	20.0	21.36		ug/L		107	72 - 128
1,2,3-Trichloropropane	20.0	18.24		ug/L		91	70 - 122
Naphthalene	20.0	19.75		ug/L		99	69 - 126
Propionitrile	200	205.2		ug/L		103	68 - 131
Styrene	20.0	19.29		ug/L		96	74 - 122
Tetrachloroethene	20.0	18.82		ug/L		94	70 - 128
Toluene	20.0	18.39		ug/L		92	74 - 120
trans-1,2-Dichloroethene	20.0	19.35		ug/L		97	67 - 127
trans-1,3-Dichloropropene	20.0	14.80		ug/L		74	67 - 123
trans-1,4-Dichloro-2-butene	20.0	15.56		ug/L		78	50 - 150
Trichloroethene	20.0	18.73		ug/L		94	70 - 128
Vinyl acetate	40.0	33.53		ug/L		84	50 - 150
Xylenes, Total	40.0	37.89		ug/L		95	74 - 121

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

Lab Sample ID: LCS 310-457531/8
Matrix: Water
Analysis Batch: 457531

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	17.60		ug/L		88	33 - 138
Chloroethane	20.0	17.76		ug/L		89	59 - 139
Chloromethane	20.0	18.41		ug/L		92	52 - 146
Dichlorodifluoromethane	20.0	17.33		ug/L		87	45 - 150
Trichlorofluoromethane	20.0	17.74		ug/L		89	55 - 150
Vinyl chloride	20.0	17.80		ug/L		89	60 - 142

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*109*		*76 - 130*
Toluene-d8 (Surr)	*90*		*80 - 120*

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

Lab Sample ID: LCS 310-457531/8
Matrix: Water
Analysis Batch: 457531

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Lab Sample ID: MB 310-457548/5
Matrix: Water
Analysis Batch: 457548

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/13/25 21:42	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			06/13/25 21:42	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/13/25 21:42	1
Acetone	<10.0		10.0	3.10	ug/L			06/13/25 21:42	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/13/25 21:42	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/13/25 21:42	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/13/25 21:42	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/13/25 21:42	1
Benzene	<0.500		0.500	0.220	ug/L			06/13/25 21:42	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/13/25 21:42	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/13/25 21:42	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/13/25 21:42	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/13/25 21:42	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/13/25 21:42	1
Bromoform	<5.00		5.00	0.780	ug/L			06/13/25 21:42	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/13/25 21:42	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/13/25 21:42	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/13/25 21:42	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/13/25 21:42	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/13/25 21:42	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/13/25 21:42	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/13/25 21:42	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/13/25 21:42	1
Chloroform	<3.00		3.00	1.30	ug/L			06/13/25 21:42	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/13/25 21:42	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/13/25 21:42	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/13/25 21:42	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/13/25 21:42	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/13/25 21:42	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/13/25 21:42	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			06/13/25 21:42	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			06/13/25 21:42	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/13/25 21:42	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/13/25 21:42	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/13/25 21:42	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/13/25 21:42	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/13/25 21:42	1
Styrene	<1.00		1.00	0.370	ug/L			06/13/25 21:42	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/13/25 21:42	1
Toluene	<1.00		1.00	0.430	ug/L			06/13/25 21:42	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/13/25 21:42	1

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

Lab Sample ID: MB 310-457548/5
Matrix: Water
Analysis Batch: 457548

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/13/25 21:42	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/13/25 21:42	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/13/25 21:42	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/13/25 21:42	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/13/25 21:42	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/13/25 21:42	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			06/13/25 21:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*76 - 130*		*06/13/25 21:42*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*06/13/25 21:42*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/13/25 21:42*	*1*

Lab Sample ID: LCS 310-457548/6
Matrix: Water
Analysis Batch: 457548

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-chloropropane	20.0	22.14		ug/L		111	62 - 132
2-Butanone (MEK)	40.0	39.01		ug/L		98	60 - 134
1,2-Dibromoethane (EDB)	20.0	22.31		ug/L		112	74 - 122
Acetone	40.0	37.85		ug/L		95	59 - 136
1,2-Dichlorobenzene	20.0	22.27		ug/L		111	74 - 120
1,4-Dichlorobenzene	20.0	22.04		ug/L		110	72 - 120
Acrylonitrile	200	202.8		ug/L		101	50 - 150
1,1-Dichloroethane	20.0	18.44		ug/L		92	69 - 127
Benzene	20.0	18.62		ug/L		93	71 - 125
1,2-Dichloroethane	20.0	19.54		ug/L		98	68 - 125
Bromochloromethane	20.0	20.05		ug/L		100	69 - 131
1,1-Dichloroethene	20.0	19.54		ug/L		98	64 - 134
Bromodichloromethane	20.0	17.78		ug/L		89	70 - 122
1,2-Dichloropropane	20.0	18.76		ug/L		94	72 - 128
Bromoform	20.0	20.79		ug/L		104	62 - 122
2-Hexanone	40.0	44.13		ug/L		110	62 - 139
Carbon disulfide	20.0	18.02		ug/L		90	58 - 137
Carbon tetrachloride	20.0	18.22		ug/L		91	63 - 136
Chlorobenzene	20.0	20.40		ug/L		102	74 - 120
4-Methyl-2-pentanone (MIBK)	40.0	45.12		ug/L		113	62 - 136
Chlorodibromomethane	20.0	21.27		ug/L		106	69 - 121
Chloroform	20.0	18.59		ug/L		93	72 - 122
1,1,1,2-Tetrachloroethane	20.0	19.98		ug/L		100	70 - 121
1,1,2,2-Tetrachloroethane	20.0	23.01		ug/L		115	70 - 122
cis-1,2-Dichloroethene	20.0	18.44		ug/L		92	72 - 123
cis-1,3-Dichloropropene	20.0	21.13		ug/L		106	72 - 123
Dibromomethane	20.0	19.63		ug/L		98	72 - 122
Ethylbenzene	20.0	20.56		ug/L		103	75 - 120
Iodomethane	20.0	25.02		ug/L		125	18 - 150
1,1,1-Trichloroethane	20.0	18.04		ug/L		90	69 - 130

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

Lab Sample ID: LCS 310-457548/6
Matrix: Water
Analysis Batch: 457548

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	20.0	21.47		ug/L		107	75 - 121
Methylene chloride	20.0	17.91		ug/L		90	72 - 128
1,2,3-Trichloropropane	20.0	23.11		ug/L		116	70 - 122
Styrene	20.0	21.34		ug/L		107	74 - 122
Tetrachloroethene	20.0	21.03		ug/L		105	70 - 128
Toluene	20.0	20.62		ug/L		103	74 - 120
trans-1,2-Dichloroethene	20.0	18.91		ug/L		95	67 - 127
trans-1,3-Dichloropropene	20.0	18.39		ug/L		92	67 - 123
trans-1,4-Dichloro-2-butene	20.0	20.93		ug/L		105	50 - 150
Trichloroethene	20.0	17.83		ug/L		89	70 - 128
Vinyl acetate	40.0	48.36		ug/L		121	50 - 150
Xylenes, Total	40.0	41.11		ug/L		103	74 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*76 - 130*
Toluene-d8 (Surr)	*108*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Lab Sample ID: LCS 310-457548/7
Matrix: Water
Analysis Batch: 457548

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	17.56		ug/L		88	33 - 138
Chloroethane	20.0	18.22		ug/L		91	59 - 139
Chloromethane	20.0	18.12		ug/L		91	52 - 146
Dichlorodifluoromethane	20.0	19.96		ug/L		100	45 - 150
Trichlorofluoromethane	20.0	16.71		ug/L		84	55 - 150
Vinyl chloride	20.0	17.78		ug/L		89	60 - 142

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*106*		*76 - 130*
Toluene-d8 (Surr)	*106*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Lab Sample ID: MB 310-458100/5
Matrix: Water
Analysis Batch: 458100

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			06/19/25 12:33	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			06/19/25 12:33	1
Acetone	<10.0		10.0	3.10	ug/L			06/19/25 12:33	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			06/19/25 12:33	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			06/19/25 12:33	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			06/19/25 12:33	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			06/19/25 12:33	1
Benzene	<0.500		0.500	0.220	ug/L			06/19/25 12:33	1

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

Lab Sample ID: MB 310-458100/5
Matrix: Water
Analysis Batch: 458100

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			06/19/25 12:33	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			06/19/25 12:33	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			06/19/25 12:33	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			06/19/25 12:33	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			06/19/25 12:33	1
Bromoform	<5.00		5.00	0.780	ug/L			06/19/25 12:33	1
Bromomethane	<4.00		4.00	1.10	ug/L			06/19/25 12:33	1
2-Hexanone	<10.0		10.0	2.00	ug/L			06/19/25 12:33	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			06/19/25 12:33	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			06/19/25 12:33	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			06/19/25 12:33	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			06/19/25 12:33	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			06/19/25 12:33	1
Chloroethane	<4.00		4.00	0.790	ug/L			06/19/25 12:33	1
Chloroform	<3.00		3.00	1.30	ug/L			06/19/25 12:33	1
Chloromethane	<3.00		3.00	0.610	ug/L			06/19/25 12:33	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			06/19/25 12:33	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			06/19/25 12:33	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			06/19/25 12:33	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			06/19/25 12:33	1
Dibromomethane	<1.00		1.00	0.330	ug/L			06/19/25 12:33	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			06/19/25 12:33	1
Iodomethane	<10.0		10.0	7.00	ug/L			06/19/25 12:33	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			06/19/25 12:33	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			06/19/25 12:33	1
Methylene chloride	<5.00		5.00	1.70	ug/L			06/19/25 12:33	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			06/19/25 12:33	1
Styrene	<1.00		1.00	0.370	ug/L			06/19/25 12:33	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			06/19/25 12:33	1
Toluene	<1.00		1.00	0.430	ug/L			06/19/25 12:33	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			06/19/25 12:33	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			06/19/25 12:33	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			06/19/25 12:33	1
Trichloroethene	<1.00		1.00	0.430	ug/L			06/19/25 12:33	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			06/19/25 12:33	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			06/19/25 12:33	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			06/19/25 12:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*76 - 130*		*06/19/25 12:33*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/19/25 12:33*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/19/25 12:33*	*1*

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

Lab Sample ID: LCS 310-458100/6
Matrix: Water
Analysis Batch: 458100

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-chloropropane	20.0	20.45		ug/L		102	62 - 132
1,2-Dibromoethane (EDB)	20.0	18.74		ug/L		94	74 - 122
Acetone	40.0	48.16		ug/L		120	59 - 136
1,2-Dichlorobenzene	20.0	18.85		ug/L		94	74 - 120
1,4-Dichlorobenzene	20.0	18.31		ug/L		92	72 - 120
Acrylonitrile	200	184.9		ug/L		92	50 - 150
1,1-Dichloroethane	20.0	19.90		ug/L		100	69 - 127
Benzene	20.0	17.80		ug/L		89	71 - 125
1,2-Dichloroethane	20.0	20.25		ug/L		101	68 - 125
Bromochloromethane	20.0	20.16		ug/L		101	69 - 131
1,1-Dichloroethene	20.0	21.70		ug/L		108	64 - 134
Bromodichloromethane	20.0	18.85		ug/L		94	70 - 122
1,2-Dichloropropane	20.0	18.71		ug/L		94	72 - 128
Bromoform	20.0	17.36		ug/L		87	62 - 122
2-Hexanone	40.0	36.04		ug/L		90	62 - 139
Carbon disulfide	20.0	21.06		ug/L		105	58 - 137
Carbon tetrachloride	20.0	19.76		ug/L		99	63 - 136
Chlorobenzene	20.0	18.96		ug/L		95	74 - 120
4-Methyl-2-pentanone (MIBK)	40.0	38.32		ug/L		96	62 - 136
Chlorodibromomethane	20.0	17.92		ug/L		90	69 - 121
Chloroform	20.0	20.19		ug/L		101	72 - 122
1,1,1,2-Tetrachloroethane	20.0	18.14		ug/L		91	70 - 121
1,1,2,2-Tetrachloroethane	20.0	18.82		ug/L		94	70 - 122
cis-1,2-Dichloroethene	20.0	20.16		ug/L		101	72 - 123
cis-1,3-Dichloropropene	20.0	18.43		ug/L		92	72 - 123
Dibromomethane	20.0	19.93		ug/L		100	72 - 122
Ethylbenzene	20.0	18.72		ug/L		94	75 - 120
Iodomethane	20.0	15.82		ug/L		79	18 - 150
1,1,1-Trichloroethane	20.0	18.30		ug/L		91	69 - 130
1,1,2-Trichloroethane	20.0	17.97		ug/L		90	75 - 121
Methylene chloride	20.0	21.97		ug/L		110	72 - 128
1,2,3-Trichloropropane	20.0	20.41		ug/L		102	70 - 122
Styrene	20.0	18.40		ug/L		92	74 - 122
Tetrachloroethene	20.0	18.71		ug/L		94	70 - 128
Toluene	20.0	19.53		ug/L		98	74 - 120
trans-1,2-Dichloroethene	20.0	19.66		ug/L		98	67 - 127
trans-1,3-Dichloropropene	20.0	18.26		ug/L		91	67 - 123
trans-1,4-Dichloro-2-butene	20.0	16.67		ug/L		83	50 - 150
Trichloroethene	20.0	18.81		ug/L		94	70 - 128
Vinyl acetate	40.0	38.89		ug/L		97	50 - 150
Xylenes, Total	40.0	39.10		ug/L		98	74 - 121

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

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

Lab Sample ID: LCS 310-458100/7
Matrix: Water
Analysis Batch: 458100

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	17.46		ug/L		87	33 - 138
Chloroethane	20.0	20.18		ug/L		101	59 - 139
Chloromethane	20.0	18.88		ug/L		94	52 - 146
Dichlorodifluoromethane	20.0	18.14		ug/L		91	45 - 150
Trichlorofluoromethane	20.0	18.60		ug/L		93	55 - 150
Vinyl chloride	20.0	20.70		ug/L		104	60 - 142

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*109*		*76 - 130*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 310-457705/1-A
Matrix: Water
Analysis Batch: 458666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457705

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<10.0		10.0	0.640	ug/L		06/16/25 11:56	06/25/25 09:07	1
Acenaphthylene	<10.0		10.0	0.720	ug/L		06/16/25 11:56	06/25/25 09:07	1
Acetophenone	<10.0		10.0	0.690	ug/L		06/16/25 11:56	06/25/25 09:07	1
2-Acetylaminofluorene	<10.0		10.0	2.70	ug/L		06/16/25 11:56	06/25/25 09:07	1
4-Aminobiphenyl	<10.0		10.0	2.20	ug/L		06/16/25 11:56	06/25/25 09:07	1
Anthracene	<10.0		10.0	0.870	ug/L		06/16/25 11:56	06/25/25 09:07	1
Benzo[a]anthracene	<10.0		10.0	0.850	ug/L		06/16/25 11:56	06/25/25 09:07	1
Benzo[a]pyrene	<10.0		10.0	8.10	ug/L		06/16/25 11:56	06/25/25 09:07	1
Benzo(b)fluoranthene	<10.0		10.0	4.90	ug/L		06/16/25 11:56	06/25/25 09:07	1
Benzo[g,h,i]perylene	<10.0		10.0	6.30	ug/L		06/16/25 11:56	06/25/25 09:07	1
Benzo[k]fluoranthene	<10.0		10.0	2.20	ug/L		06/16/25 11:56	06/25/25 09:07	1
Benzyl alcohol	<10.0		10.0	1.30	ug/L		06/16/25 11:56	06/25/25 09:07	1
Bis(2-chloroethoxy)methane	<10.0		10.0	0.760	ug/L		06/16/25 11:56	06/25/25 09:07	1
Bis(2-chloroethyl)ether	<10.0		10.0	0.820	ug/L		06/16/25 11:56	06/25/25 09:07	1
bis (2-chloroisopropyl) ether	<10.0		10.0	0.540	ug/L		06/16/25 11:56	06/25/25 09:07	1
Bis(2-ethylhexyl) phthalate	<10.0		10.0	5.50	ug/L		06/16/25 11:56	06/25/25 09:07	1
4-Bromophenyl phenyl ether	<10.0		10.0	0.700	ug/L		06/16/25 11:56	06/25/25 09:07	1
Butyl benzyl phthalate	<10.0		10.0	5.40	ug/L		06/16/25 11:56	06/25/25 09:07	1
4-Chloroaniline	<10.0		10.0	0.620	ug/L		06/16/25 11:56	06/25/25 09:07	1
Chlorobenzilate	<10.0		10.0	3.60	ug/L		06/16/25 11:56	06/25/25 09:07	1
4-Chloro-3-methylphenol	<10.0		10.0	0.840	ug/L		06/16/25 11:56	06/25/25 09:07	1
2-Chloronaphthalene	<10.0		10.0	0.640	ug/L		06/16/25 11:56	06/25/25 09:07	1
2-Chlorophenol	<10.0		10.0	0.540	ug/L		06/16/25 11:56	06/25/25 09:07	1
4-Chlorophenyl phenyl ether	<10.0		10.0	0.690	ug/L		06/16/25 11:56	06/25/25 09:07	1
Chrysene	<10.0		10.0	0.870	ug/L		06/16/25 11:56	06/25/25 09:07	1
Diallate	<10.0		10.0	4.00	ug/L		06/16/25 11:56	06/25/25 09:07	1
Dibenz(a,h)anthracene	<10.0		10.0	3.90	ug/L		06/16/25 11:56	06/25/25 09:07	1
Dibenzofuran	<10.0		10.0	0.740	ug/L		06/16/25 11:56	06/25/25 09:07	1
3,3'-Dichlorobenzidine	<10.0		10.0	1.40	ug/L		06/16/25 11:56	06/25/25 09:07	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 310-457705/1-A
Matrix: Water
Analysis Batch: 458666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457705

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	<10.0		10.0	0.850	ug/L		06/16/25 11:56	06/25/25 09:07	1
2,6-Dichlorophenol	<10.0		10.0	0.690	ug/L		06/16/25 11:56	06/25/25 09:07	1
Diethyl phthalate	<10.0		10.0	1.70	ug/L		06/16/25 11:56	06/25/25 09:07	1
Dimethoate	<10.0		10.0	3.60	ug/L		06/16/25 11:56	06/25/25 09:07	1
7,12-Dimethylbenz(a)anthracene	<10.0		10.0	1.90	ug/L		06/16/25 11:56	06/25/25 09:07	1
3,3'-Dimethylbenzidine	<10.0		10.0	1.50	ug/L		06/16/25 11:56	06/25/25 09:07	1
2,4-Dimethylphenol	<10.0		10.0	0.580	ug/L		06/16/25 11:56	06/25/25 09:07	1
Dimethyl phthalate	<10.0		10.0	1.00	ug/L		06/16/25 11:56	06/25/25 09:07	1
Di-n-butyl phthalate	<10.0		10.0	5.60	ug/L		06/16/25 11:56	06/25/25 09:07	1
1,3-Dinitrobenzene	<10.0		10.0	3.20	ug/L		06/16/25 11:56	06/25/25 09:07	1
4,6-Dinitro-2-methylphenol	<10.0		10.0	6.90	ug/L		06/16/25 11:56	06/25/25 09:07	1
2,4-Dinitrophenol	<20.0		20.0	13.0	ug/L		06/16/25 11:56	06/25/25 09:07	1
2,4-Dinitrotoluene	<10.0		10.0	6.40	ug/L		06/16/25 11:56	06/25/25 09:07	1
2,6-Dinitrotoluene	<10.0		10.0	0.520	ug/L		06/16/25 11:56	06/25/25 09:07	1
Di-n-octyl phthalate	<20.0		20.0	7.00	ug/L		06/16/25 11:56	06/25/25 09:07	1
Dinoseb	<10.0		10.0	2.40	ug/L		06/16/25 11:56	06/25/25 09:07	1
Diphenylamine	<10.0		10.0	6.00	ug/L		06/16/25 11:56	06/25/25 09:07	1
Disulfoton	<10.0		10.0	2.40	ug/L		06/16/25 11:56	06/25/25 09:07	1
Ethyl methanesulfonate	<10.0		10.0	3.60	ug/L		06/16/25 11:56	06/25/25 09:07	1
Ethyl Parathion	<10.0		10.0	2.20	ug/L		06/16/25 11:56	06/25/25 09:07	1
Famphur	<10.0		10.0	3.80	ug/L		06/16/25 11:56	06/25/25 09:07	1
Fluoranthene	<10.0		10.0	1.70	ug/L		06/16/25 11:56	06/25/25 09:07	1
Fluorene	<10.0		10.0	0.790	ug/L		06/16/25 11:56	06/25/25 09:07	1
Hexachlorobenzene	<10.0		10.0	0.700	ug/L		06/16/25 11:56	06/25/25 09:07	1
Hexachlorobutadiene	<10.0		10.0	0.860	ug/L		06/16/25 11:56	06/25/25 09:07	1
Hexachlorocyclopentadiene	<10.0		10.0	5.10	ug/L		06/16/25 11:56	06/25/25 09:07	1
Hexachloroethane	<10.0		10.0	0.970	ug/L		06/16/25 11:56	06/25/25 09:07	1
Hexachloropropene	<10.0		10.0	2.60	ug/L		06/16/25 11:56	06/25/25 09:07	1
Indeno[1,2,3-cd]pyrene	<10.0		10.0	4.20	ug/L		06/16/25 11:56	06/25/25 09:07	1
Isodrin	<10.0		10.0	4.70	ug/L		06/16/25 11:56	06/25/25 09:07	1
Isophorone	<10.0		10.0	0.930	ug/L		06/16/25 11:56	06/25/25 09:07	1
Isosafrole	<10.0		10.0	2.30	ug/L		06/16/25 11:56	06/25/25 09:07	1
Methapyrilene	<10.0		10.0	0.760	ug/L		06/16/25 11:56	06/25/25 09:07	1
3-Methylcholanthrene	<10.0		10.0	0.320	ug/L		06/16/25 11:56	06/25/25 09:07	1
Methyl methanesulfonate	<10.0		10.0	3.30	ug/L		06/16/25 11:56	06/25/25 09:07	1
2-Methylnaphthalene	<10.0		10.0	0.590	ug/L		06/16/25 11:56	06/25/25 09:07	1
Methyl parathion	<10.0		10.0	2.30	ug/L		06/16/25 11:56	06/25/25 09:07	1
2-Methylphenol	<10.0		10.0	0.650	ug/L		06/16/25 11:56	06/25/25 09:07	1
4-Methylphenol (and/or 3-Methylphenol)	<10.0		10.0	0.700	ug/L		06/16/25 11:56	06/25/25 09:07	1
1,4-Naphthoquinone	<10.0		10.0	3.60	ug/L		06/16/25 11:56	06/25/25 09:07	1
1-Naphthylamine	<10.0		10.0	2.50	ug/L		06/16/25 11:56	06/25/25 09:07	1
2-Naphthylamine	<10.0		10.0	2.10	ug/L		06/16/25 11:56	06/25/25 09:07	1
2-Nitroaniline	<10.0		10.0	5.90	ug/L		06/16/25 11:56	06/25/25 09:07	1
3-Nitroaniline	<10.0		10.0	2.70	ug/L		06/16/25 11:56	06/25/25 09:07	1
4-Nitroaniline	<10.0		10.0	1.30	ug/L		06/16/25 11:56	06/25/25 09:07	1
Nitrobenzene	<10.0		10.0	0.800	ug/L		06/16/25 11:56	06/25/25 09:07	1
5-Nitro-o-toluidine	<10.0		10.0	2.80	ug/L		06/16/25 11:56	06/25/25 09:07	1
2-Nitrophenol	<10.0		10.0	6.80	ug/L		06/16/25 11:56	06/25/25 09:07	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 310-457705/1-A
Matrix: Water
Analysis Batch: 458666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457705

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<10.0		10.0	7.60	ug/L		06/16/25 11:56	06/25/25 09:07	1
N-Nitrosodiethylamine	<10.0		10.0	3.40	ug/L		06/16/25 11:56	06/25/25 09:07	1
N-Nitrosodimethylamine	<10.0		10.0	0.720	ug/L		06/16/25 11:56	06/25/25 09:07	1
N-Nitrosodi-n-butylamine	<10.0		10.0	3.90	ug/L		06/16/25 11:56	06/25/25 09:07	1
N-Nitrosodi-n-propylamine	<10.0		10.0	0.920	ug/L		06/16/25 11:56	06/25/25 09:07	1
N-Nitrosodiphenylamine	<10.0		10.0	0.750	ug/L		06/16/25 11:56	06/25/25 09:07	1
N-Nitrosomethylethylamine	<10.0		10.0	4.90	ug/L		06/16/25 11:56	06/25/25 09:07	1
N-Nitrosopiperidine	<10.0		10.0	2.70	ug/L		06/16/25 11:56	06/25/25 09:07	1
N-Nitrosopyrrolidine	<10.0		10.0	3.60	ug/L		06/16/25 11:56	06/25/25 09:07	1
o,o',o''-Triethylphosphorothioate	<10.0		10.0	3.20	ug/L		06/16/25 11:56	06/25/25 09:07	1
o-Toluidine	<10.0		10.0	2.90	ug/L		06/16/25 11:56	06/25/25 09:07	1
p-Dimethylamino azobenzene	<10.0		10.0	2.20	ug/L		06/16/25 11:56	06/25/25 09:07	1
Pentachlorobenzene	<10.0		10.0	2.80	ug/L		06/16/25 11:56	06/25/25 09:07	1
Pentachloronitrobenzene	<10.0		10.0	5.80	ug/L		06/16/25 11:56	06/25/25 09:07	1
Pentachlorophenol	<10.0		10.0	9.60	ug/L		06/16/25 11:56	06/25/25 09:07	1
Phenacetin	<10.0		10.0	1.90	ug/L		06/16/25 11:56	06/25/25 09:07	1
Phenanthrene	<10.0		10.0	0.790	ug/L		06/16/25 11:56	06/25/25 09:07	1
Phenol	<10.0		10.0	1.10	ug/L		06/16/25 11:56	06/25/25 09:07	1
Phorate	<10.0		10.0	3.20	ug/L		06/16/25 11:56	06/25/25 09:07	1
Pronamide	<10.0		10.0	2.70	ug/L		06/16/25 11:56	06/25/25 09:07	1
Pyrene	<10.0		10.0	0.790	ug/L		06/16/25 11:56	06/25/25 09:07	1
Safrole	<10.0		10.0	2.80	ug/L		06/16/25 11:56	06/25/25 09:07	1
1,2,4,5-Tetrachlorobenzene	<10.0		10.0	0.540	ug/L		06/16/25 11:56	06/25/25 09:07	1
2,3,4,6-Tetrachlorophenol	<10.0		10.0	5.30	ug/L		06/16/25 11:56	06/25/25 09:07	1
Thionazin	<10.0		10.0	3.50	ug/L		06/16/25 11:56	06/25/25 09:07	1
2,4,5-Trichlorophenol	<10.0		10.0	5.30	ug/L		06/16/25 11:56	06/25/25 09:07	1
2,4,6-Trichlorophenol	<10.0		10.0	5.00	ug/L		06/16/25 11:56	06/25/25 09:07	1
1,3,5-Trinitrobenzene	<10.0		10.0	2.30	ug/L		06/16/25 11:56	06/25/25 09:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*33 - 126*	*06/16/25 11:56*	*06/25/25 09:07*	*1*
2-Fluorophenol (Surr)	*76*		*21 - 110*	*06/16/25 11:56*	*06/25/25 09:07*	*1*
Nitrobenzene-d5 (Surr)	*103*		*39 - 140*	*06/16/25 11:56*	*06/25/25 09:07*	*1*
Phenol-d5 (Surr)	*69*		*21 - 110*	*06/16/25 11:56*	*06/25/25 09:07*	*1*
Terphenyl-d14 (Surr)	*116*		*13 - 150*	*06/16/25 11:56*	*06/25/25 09:07*	*1*
2,4,6-Tribromophenol (Surr)	*102*		*20 - 144*	*06/16/25 11:56*	*06/25/25 09:07*	*1*

Lab Sample ID: MB 310-457705/1-A
Matrix: Water
Analysis Batch: 458796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457705

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kepone	<10.0		10.0	1.00	ug/L		06/16/25 11:56	06/26/25 17:33	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 310-457705/1-A
Matrix: Water
Analysis Batch: 459105

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457705

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Phenylenediamine	<10.0		10.0	1.90	ug/L		06/16/25 11:56	06/30/25 00:41	1

Lab Sample ID: LCS 310-457705/2-A
Matrix: Water
Analysis Batch: 458666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457705

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	100	80.88		ug/L		81	38 - 118
Acenaphthylene	100	83.29		ug/L		83	39 - 115
Acetophenone	100	83.08		ug/L		83	47 - 118
2-Acetylaminofluorene	51.2	42.88		ug/L		84	37 - 149
4-Aminobiphenyl	51.2	45.95		ug/L		90	23 - 123
Anthracene	100	90.73		ug/L		91	49 - 127
Benzo[a]anthracene	100	89.92		ug/L		90	49 - 126
Benzo[a]pyrene	100	103.1		ug/L		103	44 - 133
Benzo(b)fluoranthene	100	100.2		ug/L		100	44 - 136
Benzo[g,h,i]perylene	100	90.80		ug/L		91	42 - 135
Benzo[k]fluoranthene	100	97.30		ug/L		97	49 - 134
Benzyl alcohol	100	84.11		ug/L		84	46 - 123
Bis(2-chloroethoxy)methane	100	90.22		ug/L		90	44 - 126
Bis(2-chloroethyl)ether	100	80.32		ug/L		80	41 - 116
bis (2-chloroisopropyl) ether	100	78.14		ug/L		78	36 - 115
Bis(2-ethylhexyl) phthalate	100	113.7		ug/L		114	46 - 138
4-Bromophenyl phenyl ether	100	94.09		ug/L		94	41 - 131
Butyl benzyl phthalate	100	102.4		ug/L		102	47 - 133
4-Chloroaniline	100	80.76		ug/L		81	13 - 143
Chlorobenzilate	51.2	55.15		ug/L		108	39 - 145
4-Chloro-3-methylphenol	100	96.59		ug/L		97	51 - 132
2-Chloronaphthalene	100	76.07		ug/L		76	33 - 112
2-Chlorophenol	100	85.06		ug/L		85	43 - 119
4-Chlorophenyl phenyl ether	100	82.69		ug/L		83	44 - 118
Chrysene	100	90.66		ug/L		91	50 - 128
Diallate	44.8	56.24		ug/L		126	40 - 135
Dibenz(a,h)anthracene	100	92.07		ug/L		92	36 - 146
Dibenzofuran	100	82.46		ug/L		82	44 - 114
2,4-Dichlorophenol	100	97.21		ug/L		97	44 - 131
2,6-Dichlorophenol	100	89.70		ug/L		90	41 - 131
Diethyl phthalate	100	83.12		ug/L		83	43 - 135
Dimethoate	44.8	59.58		ug/L		133	31 - 150
7,12-Dimethylbenz(a)anthracene	51.2	44.99		ug/L		88	47 - 129
3,3'-Dimethylbenzidine	51.2	38.85		ug/L		76	10 - 147
2,4-Dimethylphenol	100	93.55		ug/L		94	30 - 128
Dimethyl phthalate	100	87.96		ug/L		88	46 - 129
Di-n-butyl phthalate	100	93.20		ug/L		93	49 - 138
1,3-Dinitrobenzene	100	93.13		ug/L		93	36 - 147
4,6-Dinitro-2-methylphenol	200	174.9		ug/L		87	22 - 150
2,4-Dinitrophenol	200	144.8		ug/L		72	10 - 150
2,4-Dinitrotoluene	100	93.00		ug/L		93	48 - 136
2,6-Dinitrotoluene	100	94.94		ug/L		95	49 - 135

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 310-457705/2-A
Matrix: Water
Analysis Batch: 458666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457705

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Di-n-octyl phthalate	100	85.62		ug/L		86	33 - 148
Dinoseb	51.2	48.84		ug/L		95	22 - 150
Diphenylamine	85.0	77.26		ug/L		91	43 - 132
Disulfoton	44.8	55.21		ug/L		123	27 - 138
Ethyl methanesulfonate	51.2	43.36		ug/L		85	44 - 110
Ethyl Parathion	44.8	52.14		ug/L		116	52 - 141
Famphur	44.8	74.54	E *+	ug/L		166	67 - 150
Fluoranthene	100	82.96		ug/L		83	49 - 132
Fluorene	100	83.02		ug/L		83	46 - 118
Hexachlorobenzene	100	93.97		ug/L		94	42 - 134
Hexachlorobutadiene	100	63.41		ug/L		63	29 - 110
Hexachlorocyclopentadiene	100	68.32		ug/L		68	10 - 110
Hexachloroethane	100	54.75		ug/L		55	25 - 110
Hexachloropropene	51.2	13.66		ug/L		27	10 - 110
Indeno[1,2,3-cd]pyrene	100	96.04		ug/L		96	36 - 149
Isodrin	51.2	44.78		ug/L		87	50 - 122
Isophorone	100	90.33		ug/L		90	46 - 126
Isosafrole	51.2	26.54		ug/L		52	10 - 129
Kepone	44.8	47.95		ug/L		107	10 - 150
Methapyrilene	44.8	2.952	J *-	ug/L		7	10 - 110
3-Methylcholanthrene	51.2	43.63		ug/L		85	13 - 140
Methyl methanesulfonate	51.2	40.53		ug/L		79	16 - 110
2-Methylnaphthalene	100	69.54		ug/L		70	35 - 110
Methyl parathion	44.8	57.49		ug/L		128	49 - 150
2-Methylphenol	100	84.01		ug/L		84	47 - 114
4-Methylphenol (and/or 3-Methylphenol)	100	81.09		ug/L		81	45 - 114
1,4-Naphthoquinone	51.2	60.35		ug/L		118	38 - 137
1-Naphthylamine	51.2	35.04		ug/L		68	10 - 110
2-Naphthylamine	51.2	45.85		ug/L		90	18 - 111
2-Nitroaniline	100	100.7		ug/L		101	48 - 135
3-Nitroaniline	100	88.85		ug/L		89	38 - 142
4-Nitroaniline	100	84.71		ug/L		85	33 - 141
Nitrobenzene	100	81.72		ug/L		82	42 - 123
5-Nitro-o-toluidine	51.2	47.76		ug/L		93	43 - 139
2-Nitrophenol	100	95.31		ug/L		95	36 - 144
4-Nitrophenol	200	126.3		ug/L		63	22 - 110
N-Nitrosodiethylamine	51.2	44.33		ug/L		87	51 - 116
N-Nitrosodimethylamine	100	79.79		ug/L		80	37 - 110
N-Nitrosodi-n-butylamine	51.2	49.62		ug/L		97	49 - 135
N-Nitrosodi-n-propylamine	100	86.79		ug/L		87	44 - 124
N-Nitrosodiphenylamine	100	91.49		ug/L		91	43 - 132
N-Nitrosomethylethylamine	51.2	44.55		ug/L		87	43 - 114
N-Nitrosopiperidine	51.2	50.27		ug/L		98	50 - 120
N-Nitrosopyrrolidine	51.2	43.35		ug/L		85	47 - 129
o,o',o''-Triethylphosphorothioate	44.8	42.48		ug/L		95	34 - 125
o-Toluidine	51.2	39.38		ug/L		77	19 - 128
p-Dimethylamino azobenzene	51.2	56.78		ug/L		111	45 - 133
Pentachlorobenzene	51.2	34.33		ug/L		67	27 - 112

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 310-457705/2-A
Matrix: Water
Analysis Batch: 458666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457705

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Pentachloronitrobenzene	51.2	42.26		ug/L		83	45 - 132
Pentachlorophenol	200	183.5		ug/L		92	28 - 142
Phenacetin	51.2	50.52		ug/L		99	51 - 139
Phenanthrene	100	86.36		ug/L		86	48 - 126
Phenol	100	62.65		ug/L		63	29 - 110
Phorate	44.8	55.19		ug/L		123	21 - 147
Pronamide	51.2	51.23		ug/L		100	52 - 135
Pyrene	100	100.5		ug/L		100	45 - 134
Safrole	44.8	34.30		ug/L		77	26 - 117
1,2,4,5-Tetrachlorobenzene	100	75.91		ug/L		76	35 - 110
2,3,4,6-Tetrachlorophenol	100	93.95		ug/L		94	32 - 142
Thionazin	44.8	54.67		ug/L		122	48 - 135
2,4,5-Trichlorophenol	100	98.04		ug/L		98	39 - 136
2,4,6-Trichlorophenol	100	104.4		ug/L		104	35 - 141
1,3,5-Trinitrobenzene	51.2	39.95		ug/L		78	26 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*72*		*33 - 126*
2-Fluorophenol (Surr)	*69*		*21 - 110*
Nitrobenzene-d5 (Surr)	*84*		*39 - 140*
Phenol-d5 (Surr)	*61*		*21 - 110*
Terphenyl-d14 (Surr)	*105*		*13 - 150*
2,4,6-Tribromophenol (Surr)	*103*		*20 - 144*

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Lab Sample ID: MB 310-457790/4
Matrix: Water
Analysis Batch: 457790

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetonitrile	<10.0		10.0	2.60	mg/L			06/17/25 11:04	1
Isobutanol	<10.0		10.0	2.40	mg/L			06/17/25 11:04	1

Lab Sample ID: LCS 310-457790/5
Matrix: Water
Analysis Batch: 457790

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	99.1	103.7		mg/L		105	67 - 131
Isobutanol	95.5	100.9		mg/L		106	80 - 120

Lab Sample ID: 310-308642-9 MS
Matrix: Water
Analysis Batch: 457790

Client Sample ID: DG-1005
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	<10.0		99.1	100.8		mg/L		102	67 - 134
Isobutanol	<10.0		95.5	99.85		mg/L		105	80 - 125

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection) (Continued)

Lab Sample ID: 310-308642-9 MSD
Matrix: Water
Analysis Batch: 457790

Client Sample ID: DG-1005
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetonitrile	<10.0		99.1	88.73		mg/L		90	67 - 134	13	23
Isobutanol	<10.0		95.5	84.96		mg/L		89	80 - 125	16	20

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: LB 310-457489/1-E
Matrix: Water
Analysis Batch: 457650

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457654

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0936		0.0936	0.0234	ug/L		06/16/25 07:02	06/16/25 10:35	1
4,4'-DDE	<0.0936		0.0936	0.0281	ug/L		06/16/25 07:02	06/16/25 10:35	1
4,4'-DDT	<0.0936		0.0936	0.0187	ug/L		06/16/25 07:02	06/16/25 10:35	1
Aldrin	<0.0936		0.0936	0.0206	ug/L		06/16/25 07:02	06/16/25 10:35	1
alpha-BHC	<0.0936		0.0936	0.00936	ug/L		06/16/25 07:02	06/16/25 10:35	1
beta-BHC	<0.0936		0.0936	0.0393	ug/L		06/16/25 07:02	06/16/25 10:35	1
Chlordane (technical)	<1.87		1.87	0.365	ug/L		06/16/25 07:02	06/16/25 10:35	1
delta-BHC	<0.0936		0.0936	0.0299	ug/L		06/16/25 07:02	06/16/25 10:35	1
Dieldrin	<0.0936		0.0936	0.0197	ug/L		06/16/25 07:02	06/16/25 10:35	1
Endosulfan I	<0.0936		0.0936	0.0262	ug/L		06/16/25 07:02	06/16/25 10:35	1
Endosulfan II	<0.0936		0.0936	0.0243	ug/L		06/16/25 07:02	06/16/25 10:35	1
Endosulfan sulfate	<0.0936		0.0936	0.0168	ug/L		06/16/25 07:02	06/16/25 10:35	1
Endrin	<0.0936		0.0936	0.0262	ug/L		06/16/25 07:02	06/16/25 10:35	1
Endrin aldehyde	<0.0936		0.0936	0.0253	ug/L		06/16/25 07:02	06/16/25 10:35	1
gamma-BHC (Lindane)	<0.0936		0.0936	0.00936	ug/L		06/16/25 07:02	06/16/25 10:35	1
Heptachlor	<0.0936		0.0936	0.0215	ug/L		06/16/25 07:02	06/16/25 10:35	1
Heptachlor epoxide	<0.0936		0.0936	0.0299	ug/L		06/16/25 07:02	06/16/25 10:35	1
Methoxychlor	<0.0936		0.0936	0.0299	ug/L		06/16/25 07:02	06/16/25 10:35	1
Toxaphene	<1.87		1.87	0.936	ug/L		06/16/25 07:02	06/16/25 10:35	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*10 - 150*	*06/16/25 07:02*	*06/16/25 10:35*	*1*
Tetrachloro-m-xylene	*79*		*17 - 150*	*06/16/25 07:02*	*06/16/25 10:35*	*1*

Lab Sample ID: MB 310-457654/1-A
Matrix: Water
Analysis Batch: 457650

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457654

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0989		0.0989	0.0247	ug/L		06/16/25 07:02	06/16/25 10:09	1
4,4'-DDE	<0.0989		0.0989	0.0297	ug/L		06/16/25 07:02	06/16/25 10:09	1
4,4'-DDT	<0.0989		0.0989	0.0198	ug/L		06/16/25 07:02	06/16/25 10:09	1
Aldrin	<0.0989		0.0989	0.0218	ug/L		06/16/25 07:02	06/16/25 10:09	1
alpha-BHC	<0.0989		0.0989	0.00989	ug/L		06/16/25 07:02	06/16/25 10:09	1
beta-BHC	<0.0989		0.0989	0.0415	ug/L		06/16/25 07:02	06/16/25 10:09	1
Chlordane (technical)	<1.98		1.98	0.386	ug/L		06/16/25 07:02	06/16/25 10:09	1
delta-BHC	<0.0989		0.0989	0.0316	ug/L		06/16/25 07:02	06/16/25 10:09	1
Dieldrin	<0.0989		0.0989	0.0208	ug/L		06/16/25 07:02	06/16/25 10:09	1
Endosulfan I	<0.0989		0.0989	0.0277	ug/L		06/16/25 07:02	06/16/25 10:09	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 310-457654/1-A
Matrix: Water
Analysis Batch: 457650

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457654

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	<0.0989		0.0989	0.0257	ug/L		06/16/25 07:02	06/16/25 10:09	1
Endosulfan sulfate	<0.0989		0.0989	0.0178	ug/L		06/16/25 07:02	06/16/25 10:09	1
Endrin	<0.0989		0.0989	0.0277	ug/L		06/16/25 07:02	06/16/25 10:09	1
Endrin aldehyde	<0.0989		0.0989	0.0267	ug/L		06/16/25 07:02	06/16/25 10:09	1
gamma-BHC (Lindane)	<0.0989		0.0989	0.00989	ug/L		06/16/25 07:02	06/16/25 10:09	1
Heptachlor	<0.0989		0.0989	0.0227	ug/L		06/16/25 07:02	06/16/25 10:09	1
Heptachlor epoxide	<0.0989		0.0989	0.0316	ug/L		06/16/25 07:02	06/16/25 10:09	1
Methoxychlor	<0.0989		0.0989	0.0316	ug/L		06/16/25 07:02	06/16/25 10:09	1
Toxaphene	<1.98		1.98	0.989	ug/L		06/16/25 07:02	06/16/25 10:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*10 - 150*	*06/16/25 07:02*	*06/16/25 10:09*	*1*
Tetrachloro-m-xylene	*81*		*17 - 150*	*06/16/25 07:02*	*06/16/25 10:09*	*1*

Lab Sample ID: LCS 310-457654/2-A
Matrix: Water
Analysis Batch: 457650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457654

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	2.80	2.558		ug/L		91	28 - 150
4,4'-DDE	2.80	2.329		ug/L		83	10 - 150
4,4'-DDT	2.80	2.128		ug/L		76	10 - 150
Aldrin	2.80	2.018		ug/L		72	10 - 146
alpha-BHC	2.80	2.490		ug/L		89	57 - 149
beta-BHC	2.80	2.399		ug/L		86	53 - 145
delta-BHC	2.80	2.385		ug/L		85	49 - 148
Dieldrin	2.80	2.580		ug/L		92	43 - 150
Endosulfan I	2.80	2.393		ug/L		85	26 - 133
Endosulfan II	2.80	2.468		ug/L		88	38 - 139
Endosulfan sulfate	2.80	2.706		ug/L		97	54 - 150
Endrin	2.80	2.551		ug/L		91	41 - 150
Endrin aldehyde	2.80	2.465		ug/L		88	42 - 147
gamma-BHC (Lindane)	2.80	2.502		ug/L		89	57 - 150
Heptachlor	2.80	2.120		ug/L		76	16 - 135
Heptachlor epoxide	2.80	2.612		ug/L		93	49 - 150
Methoxychlor	2.80	2.809		ug/L		100	16 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*64*		*10 - 150*
Tetrachloro-m-xylene	*80*		*17 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: LB 310-457490/1-D
Matrix: Water
Analysis Batch: 457648

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457654

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<1.87		1.87	0.767	ug/L		06/16/25 07:15	06/16/25 14:00	1
PCB-1221	<1.87		1.87	0.767	ug/L		06/16/25 07:15	06/16/25 14:00	1
PCB-1232	<1.87		1.87	0.767	ug/L		06/16/25 07:15	06/16/25 14:00	1
PCB-1242	<1.87		1.87	0.767	ug/L		06/16/25 07:15	06/16/25 14:00	1
PCB-1248	<1.87		1.87	0.646	ug/L		06/16/25 07:15	06/16/25 14:00	1
PCB-1254	<1.87		1.87	0.646	ug/L		06/16/25 07:15	06/16/25 14:00	1
PCB-1260	<1.87		1.87	0.646	ug/L		06/16/25 07:15	06/16/25 14:00	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*55*		*10 - 150*	*06/16/25 07:15*	*06/16/25 14:00*	*1*
Tetrachloro-m-xylene	*82*		*17 - 150*	*06/16/25 07:15*	*06/16/25 14:00*	*1*

Lab Sample ID: MB 310-457654/1-A
Matrix: Water
Analysis Batch: 457648

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457654

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<1.98		1.98	0.811	ug/L		06/16/25 07:02	06/16/25 10:09	1
PCB-1221	<1.98		1.98	0.811	ug/L		06/16/25 07:02	06/16/25 10:09	1
PCB-1232	<1.98		1.98	0.811	ug/L		06/16/25 07:02	06/16/25 10:09	1
PCB-1242	<1.98		1.98	0.811	ug/L		06/16/25 07:02	06/16/25 10:09	1
PCB-1248	<1.98		1.98	0.682	ug/L		06/16/25 07:02	06/16/25 10:09	1
PCB-1254	<1.98		1.98	0.682	ug/L		06/16/25 07:02	06/16/25 10:09	1
PCB-1260	<1.98		1.98	0.682	ug/L		06/16/25 07:02	06/16/25 10:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*10 - 150*	*06/16/25 07:02*	*06/16/25 10:09*	*1*
Tetrachloro-m-xylene	*81*		*17 - 150*	*06/16/25 07:02*	*06/16/25 10:09*	*1*

Lab Sample ID: LCS 310-457654/16-A
Matrix: Water
Analysis Batch: 457648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457654

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	27.9	23.89		ug/L		86	25 - 150
PCB-1260	27.9	23.61		ug/L		85	14 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*47*		*10 - 150*
Tetrachloro-m-xylene	*64*		*17 - 150*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 500-821942/1-A
Matrix: Water
Analysis Batch: 822064

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 821942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.250		0.250	0.0315	ug/L		06/17/25 07:15	06/17/25 16:18	1
Silvex (2,4,5-TP)	<0.250		0.250	0.0263	ug/L		06/17/25 07:15	06/17/25 16:18	1
2,4,5-T	<0.250		0.250	0.0350	ug/L		06/17/25 07:15	06/17/25 16:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*69*		*25 - 130*	*06/17/25 07:15*	*06/17/25 16:18*	*1*

Lab Sample ID: LCS 500-821942/2-A
Matrix: Water
Analysis Batch: 822064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 821942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-D	2.50	2.427		ug/L		97	30 - 115
Silvex (2,4,5-TP)	0.625	0.5755		ug/L		92	32 - 115
2,4,5-T	0.631	0.6196		ug/L		98	30 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCAA	*80*		*25 - 130*

Lab Sample ID: LCSD 500-821942/3-A
Matrix: Water
Analysis Batch: 822064

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 821942

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-D	2.50	2.220		ug/L		89	30 - 115	9	20
Silvex (2,4,5-TP)	0.625	0.5933		ug/L		95	32 - 115	3	20
2,4,5-T	0.631	0.6275		ug/L		99	30 - 115	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCAA	*83*		*25 - 130*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-458080/3
Matrix: Water
Analysis Batch: 458080

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.00		1.00	0.450	mg/L			06/18/25 13:33	1
Sulfate	<1.00		1.00	0.420	mg/L			06/18/25 13:33	1

Lab Sample ID: LCS 310-458080/4
Matrix: Water
Analysis Batch: 458080

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.885		mg/L		99	90 - 110
Sulfate	10.0	10.05		mg/L		100	90 - 110

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 310-457906/1-A
Matrix: Water
Analysis Batch: 458192

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457906

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<1.00		1.00	0.170	mg/L		06/18/25 09:00	06/19/25 14:53	1
Magnesium	<1.00		1.00	0.120	mg/L		06/18/25 09:00	06/19/25 14:53	1
Potassium	<2.00		2.00	1.10	mg/L		06/18/25 09:00	06/19/25 14:53	1
Sodium	<2.00		2.00	1.00	mg/L		06/18/25 09:00	06/19/25 14:53	1

Lab Sample ID: LCS 310-457906/2-A
Matrix: Water
Analysis Batch: 458192

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	20.0	18.33		mg/L		92	80 - 120
Magnesium	20.0	18.35		mg/L		92	80 - 120
Potassium	20.0	20.62		mg/L		103	80 - 120
Sodium	20.0	19.86		mg/L		99	80 - 120

Lab Sample ID: MB 310-458352/1-A
Matrix: Water
Analysis Batch: 458535

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 458352

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<1.00		1.00	0.170	mg/L		06/23/25 09:00	06/23/25 15:29	1
Iron	<0.500		0.500	0.0790	mg/L		06/23/25 09:00	06/23/25 15:29	1
Magnesium	<1.00		1.00	0.120	mg/L		06/23/25 09:00	06/23/25 15:29	1
Manganese	<0.0100		0.0100	0.00410	mg/L		06/23/25 09:00	06/23/25 15:29	1
Potassium	<2.00		2.00	1.10	mg/L		06/23/25 09:00	06/23/25 15:29	1
Sodium	<2.00		2.00	1.00	mg/L		06/23/25 09:00	06/23/25 15:29	1

Lab Sample ID: LCS 310-458352/2-A
Matrix: Water
Analysis Batch: 458535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 458352

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	20.0	18.47		mg/L		92	80 - 120
Iron	2.00	1.943		mg/L		97	80 - 120
Magnesium	20.0	18.32		mg/L		92	80 - 120
Manganese	1.00	0.9839		mg/L		98	80 - 120
Potassium	20.0	19.77		mg/L		99	80 - 120
Sodium	20.0	19.74		mg/L		99	80 - 120

Lab Sample ID: 310-308642-18 DU
Matrix: Water
Analysis Batch: 458535

Client Sample ID: DGP-1500
Prep Type: Total/NA
Prep Batch: 458352

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	93.5		94.43		mg/L		1	20
Calcium	93.5		94.43		mg/L		1	20
Iron	0.388	J	0.3954	J	mg/L		2	20
Iron	0.388	J	0.3954	J	mg/L		2	20
Magnesium	26.3		26.58		mg/L		0.9	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 310-308642-18 DU
Matrix: Water
Analysis Batch: 458535

Client Sample ID: DGP-1500
Prep Type: Total/NA
Prep Batch: 458352

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Magnesium	26.3		26.58		mg/L		0.9	20
Manganese	0.552		0.5580		mg/L		1	20
Manganese	0.552		0.5580		mg/L		1	20
Potassium	2.29		2.315		mg/L		0.9	20
Potassium	2.29		2.315		mg/L		0.9	20
Sodium	13.9		13.96		mg/L		0.2	20
Sodium	13.9		13.96		mg/L		0.2	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-457735/1-A
Matrix: Water
Analysis Batch: 458910

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457735

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		06/17/25 09:10	06/26/25 14:32	1
Barium	<0.00200		0.00200	0.000660	mg/L		06/17/25 09:10	06/26/25 14:32	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		06/17/25 09:10	06/26/25 14:32	1
Cadmium	0.0001470	J	0.000200	0.000100	mg/L		06/17/25 09:10	06/26/25 14:32	1
Chromium	<0.00500		0.00500	0.00180	mg/L		06/17/25 09:10	06/26/25 14:32	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		06/17/25 09:10	06/26/25 14:32	1
Copper	<0.00500		0.00500	0.00320	mg/L		06/17/25 09:10	06/26/25 14:32	1
Lead	<0.000500		0.000500	0.000330	mg/L		06/17/25 09:10	06/26/25 14:32	1
Nickel	<0.00500		0.00500	0.00230	mg/L		06/17/25 09:10	06/26/25 14:32	1
Selenium	<0.00500		0.00500	0.00140	mg/L		06/17/25 09:10	06/26/25 14:32	1
Silver	<0.00100		0.00100	0.000500	mg/L		06/17/25 09:10	06/26/25 14:32	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		06/17/25 09:10	06/26/25 14:32	1
Zinc	<0.0200		0.0200	0.0130	mg/L		06/17/25 09:10	06/26/25 14:32	1
Tin	<0.00500		0.00500	0.00250	mg/L		06/17/25 09:10	06/26/25 14:32	1

Lab Sample ID: MB 310-457735/1-A
Matrix: Water
Analysis Batch: 458954

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457735

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		06/17/25 09:10	06/26/25 15:43	1

Lab Sample ID: LCS 310-457735/2-A
Matrix: Water
Analysis Batch: 458910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.1954		mg/L		98	80 - 120
Barium	0.100	0.09363		mg/L		94	80 - 120
Beryllium	0.100	0.09266		mg/L		93	80 - 120
Cadmium	0.100	0.09611		mg/L		96	80 - 120
Chromium	0.100	0.09499		mg/L		95	80 - 120
Cobalt	0.100	0.09407		mg/L		94	80 - 120
Copper	0.200	0.1961		mg/L		98	80 - 120
Lead	0.200	0.1953		mg/L		98	80 - 120

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

Lab Sample ID: LCS 310-457735/2-A
Matrix: Water
Analysis Batch: 458910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	0.200	0.1937		mg/L		97	80 - 120
Selenium	0.400	0.3490		mg/L		87	80 - 120
Silver	0.100	0.1139		mg/L		114	80 - 120
Vanadium	0.100	0.09391		mg/L		94	80 - 120
Zinc	0.200	0.1781		mg/L		89	80 - 120
Tin	0.200	0.2073		mg/L		104	80 - 120

Lab Sample ID: LCS 310-457735/2-A
Matrix: Water
Analysis Batch: 458954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2005		mg/L		100	80 - 120

Lab Sample ID: 310-308642-1 MS
Matrix: Water
Analysis Batch: 458910

Client Sample ID: UG-90
Prep Type: Total/NA
Prep Batch: 457735

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.000821	J	0.200	0.2168		mg/L		108	75 - 125
Barium	0.0192		0.100	0.1163		mg/L		97	75 - 125
Beryllium	<0.00100		0.100	0.1039		mg/L		104	75 - 125
Cadmium	<0.000200		0.100	0.09817		mg/L		98	75 - 125
Chromium	<0.00500		0.100	0.1013		mg/L		101	75 - 125
Cobalt	0.000253	J	0.100	0.09899		mg/L		99	75 - 125
Copper	<0.00500		0.200	0.2033		mg/L		102	75 - 125
Lead	0.00155		0.200	0.1996		mg/L		99	75 - 125
Nickel	<0.00500		0.200	0.1995		mg/L		100	75 - 125
Selenium	<0.00500		0.400	0.3856		mg/L		96	75 - 125
Silver	<0.00100		0.100	0.1100		mg/L		110	75 - 125
Vanadium	<0.00500		0.100	0.1037		mg/L		104	75 - 125
Zinc	<0.0200		0.200	0.1905		mg/L		95	75 - 125
Tin	<0.00500		0.200	0.1969		mg/L		98	75 - 125

Lab Sample ID: 310-308642-1 MS
Matrix: Water
Analysis Batch: 458954

Client Sample ID: UG-90
Prep Type: Total/NA
Prep Batch: 457735

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00200		0.200	0.2169		mg/L		108	75 - 125

Lab Sample ID: 310-308642-1 MSD
Matrix: Water
Analysis Batch: 458910

Client Sample ID: UG-90
Prep Type: Total/NA
Prep Batch: 457735

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.000821	J	0.200	0.2221		mg/L		111	75 - 125	2	20
Barium	0.0192		0.100	0.1162		mg/L		97	75 - 125	0	20
Beryllium	<0.00100		0.100	0.1049		mg/L		105	75 - 125	1	20
Cadmium	<0.000200		0.100	0.09821		mg/L		98	75 - 125	0	20

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

Lab Sample ID: 310-308642-1 MSD — **Client Sample ID: UG-90**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 458910 — **Prep Batch: 457735**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium	<0.00500		0.100	0.1032		mg/L		103	75 - 125	2	20
Cobalt	0.000253	J	0.100	0.1000		mg/L		100	75 - 125	1	20
Copper	<0.00500		0.200	0.2120		mg/L		106	75 - 125	4	20
Lead	0.00155		0.200	0.2062		mg/L		102	75 - 125	3	20
Nickel	<0.00500		0.200	0.2040		mg/L		102	75 - 125	2	20
Selenium	<0.00500		0.400	0.3984		mg/L		100	75 - 125	3	20
Silver	<0.00100		0.100	0.1116		mg/L		112	75 - 125	1	20
Vanadium	<0.00500		0.100	0.1050		mg/L		105	75 - 125	1	20
Zinc	<0.0200		0.200	0.1869		mg/L		93	75 - 125	2	20
Tin	<0.00500		0.200	0.1981		mg/L		99	75 - 125	1	20

Lab Sample ID: 310-308642-1 MSD — **Client Sample ID: UG-90**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 458954 — **Prep Batch: 457735**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00200		0.200	0.2219		mg/L		111	75 - 125	2	20

Lab Sample ID: 310-308642-12 DU — **Client Sample ID: DG-1105R**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 458910 — **Prep Batch: 457735**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Arsenic	0.00407			0.004202		mg/L				3	20
Barium	0.0232			0.02345		mg/L				1	20
Beryllium	<0.00100			<0.00100		mg/L				NC	20
Cadmium	<0.000200			<0.000200		mg/L				NC	20
Chromium	<0.00500			<0.00500		mg/L				NC	20
Cobalt	0.000392	J		0.0003990	J	mg/L				2	20
Copper	<0.00500			<0.00500		mg/L				NC	20
Lead	<0.000500			<0.000500		mg/L				NC	20
Nickel	<0.00500			<0.00500		mg/L				NC	20
Selenium	<0.00500			<0.00500		mg/L				NC	20
Silver	<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
Tin	<0.00500			<0.00500		mg/L				NC	20

Lab Sample ID: 310-308642-12 DU — **Client Sample ID: DG-1105R**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 459061 — **Prep Batch: 457735**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Antimony	<0.00200			<0.00200		mg/L				NC	20
Tin	<0.00500			<0.00500		mg/L				NC	20

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

Lab Sample ID: MB 310-458914/1-A
Matrix: Water
Analysis Batch: 459067

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 458914

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00100		0.00100	0.000570	mg/L		06/27/25 09:00	06/27/25 14:42	1
Tin	<0.00500		0.00500	0.00250	mg/L		06/27/25 09:00	06/27/25 14:42	1

Lab Sample ID: LCS 310-458914/2-A
Matrix: Water
Analysis Batch: 459067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 458914

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.08290		mg/L		83	80 - 120
Tin	0.200	0.1963		mg/L		98	80 - 120

Lab Sample ID: 310-308642-3 MS
Matrix: Water
Analysis Batch: 459067

Client Sample ID: TDG-301
Prep Type: Total/NA
Prep Batch: 458914

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	<0.00100		0.100	0.08142		mg/L		81	75 - 125
Tin	<0.00500		0.200	0.1782		mg/L		89	75 - 125

Lab Sample ID: 310-308642-A-3-D MSD
Matrix: Water
Analysis Batch: 459067

Client Sample ID: 310-308642-A-3-D MSD
Prep Type: Total/NA
Prep Batch: 458914

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Thallium	<0.00100		0.100	0.08314		mg/L		83	75 - 125	2	20
Tin	<0.00500		0.200	0.1854		mg/L		93	75 - 125	4	20

Lab Sample ID: 310-308642-12 DU
Matrix: Water
Analysis Batch: 459067

Client Sample ID: DG-1105R
Prep Type: Total/NA
Prep Batch: 458914

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Thallium	<0.00100		<0.00100		mg/L		NC	20
Tin	<0.00500		<0.00500		mg/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-457897/1-A
Matrix: Water
Analysis Batch: 458132

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457897

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000110	mg/L		06/18/25 11:21	06/19/25 10:30	1

Lab Sample ID: LCS 310-457897/2-A
Matrix: Water
Analysis Batch: 458132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457897

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00167	0.001731		mg/L		104	80 - 120

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 310-457808/1-A
Matrix: Water
Analysis Batch: 457960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457808

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0100		0.0100	0.00350	mg/L		06/17/25 09:43	06/18/25 01:30	1

Lab Sample ID: LCS 310-457808/2-A
Matrix: Water
Analysis Batch: 457960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457808

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.200	0.1970		mg/L		99	90 - 110

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 500-821933/1-A
Matrix: Water
Analysis Batch: 821934

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 821933

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.00		1.00	0.231	mg/L		06/16/25 18:00	06/16/25 22:58	1

Lab Sample ID: LCS 500-821933/2-A
Matrix: Water
Analysis Batch: 821934

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 821933

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.97	3.509		mg/L		88	80 - 120

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 310-458408/11
Matrix: Water
Analysis Batch: 458408

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<1.00		1.00	0.500	mg/L			06/20/25 12:49	1

Lab Sample ID: LCS 310-458408/12
Matrix: Water
Analysis Batch: 458408

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	9.99	10.67		mg/L		107	85 - 115

Lab Sample ID: 310-308642-18 DU
Matrix: Water
Analysis Batch: 458408

Client Sample ID: DGP-1500
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	6.98		7.139		mg/L		2	15

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

Lab Sample ID: MB 310-457515/1
Matrix: Water
Analysis Batch: 457515

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			06/13/25 09:30	1

Lab Sample ID: LCS 310-457515/2
Matrix: Water
Analysis Batch: 457515

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	113.0		mg/L		113	82 - 117

Lab Sample ID: 310-308642-4 DU
Matrix: Water
Analysis Batch: 457515

Client Sample ID: TDG-305
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	229		219.0		mg/L		4	35

Lab Sample ID: MB 310-457567/1
Matrix: Water
Analysis Batch: 457567

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			06/13/25 11:47	1

Lab Sample ID: LCS 310-457567/2
Matrix: Water
Analysis Batch: 457567

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: 310-308642-20 DU
Matrix: Water
Analysis Batch: 457567

Client Sample ID: SW-101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	26.0		23.00		mg/L		12	35

Lab Sample ID: MB 310-457582/1
Matrix: Water
Analysis Batch: 457582

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			06/13/25 14:04	1

Lab Sample ID: LCS 310-457582/2
Matrix: Water
Analysis Batch: 457582

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	99.00		mg/L		99	82 - 117

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 310-457671/25
Matrix: Water
Analysis Batch: 457671

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3 to pH 4.5			1000	1025		mg/L		103	85 - 115		

Lab Sample ID: 310-308642-8 DU
Matrix: Water
Analysis Batch: 457671

Client Sample ID: DG-1001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	301			305.4		mg/L				1	13
Bicarbonate Alkalinity as CaCO3	301			305.4		mg/L				1	
Carbonate Alkalinity as CaCO3	<5.00			<5.00		mg/L				NC	

GC/MS VOA

Analysis Batch: 457529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-11	DG-1101	Total/NA	Water	8260D	
310-308642-12	DG-1105R	Total/NA	Water	8260D	
310-308642-13	DG-1201	Total/NA	Water	8260D	
310-308642-14	DG-1205	Total/NA	Water	8260D	
310-308642-15	DG-1301	Total/NA	Water	8260D	
310-308642-16	DG-1305	Total/NA	Water	8260D	
310-308642-17	DG-1401R	Total/NA	Water	8260D	
310-308642-18	DGP-1500	Total/NA	Water	8260D	
310-308642-19	MW-D2	Total/NA	Water	8260D	
MB 310-457529/6	Method Blank	Total/NA	Water	8260D	
LCS 310-457529/7	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-457529/8	Lab Control Sample	Total/NA	Water	8260D	
310-308642-11 MS	DG-1101	Total/NA	Water	8260D	
310-308642-11 MSD	DG-1101	Total/NA	Water	8260D	

Analysis Batch: 457531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-1	UG-90	Total/NA	Water	8260D	
310-308642-2	UG-201	Total/NA	Water	8260D	
310-308642-3	TDG-301	Total/NA	Water	8260D	
310-308642-4	TDG-305	Total/NA	Water	8260D	
310-308642-6	DG-901	Total/NA	Water	8260D	
310-308642-7	DG-905	Total/NA	Water	8260D	
310-308642-8	DG-1001	Total/NA	Water	8260D	
310-308642-9	DG-1005	Total/NA	Water	8260D	
310-308642-10	MW-D1	Total/NA	Water	8260D	
310-308642-20	SW-101	Total/NA	Water	8260D	
310-308642-24	Trip Blank 1	Total/NA	Water	8260D	
MB 310-457531/6	Method Blank	Total/NA	Water	8260D	
LCS 310-457531/7	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-457531/8	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 457548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-21	Sediment Pond Discharge	Total/NA	Water	8260D	
310-308642-22	MW-P7	Total/NA	Water	8260D	
310-308642-25	Trip Blank 2	Total/NA	Water	8260D	
310-308642-26	Trip Blank 3	Total/NA	Water	8260D	
310-308642-27	Trip Blank 4	Total/NA	Water	8260D	
310-308642-28	Trip Blank 5	Total/NA	Water	8260D	
310-308642-29	Trip Blank 6	Total/NA	Water	8260D	
MB 310-457548/5	Method Blank	Total/NA	Water	8260D	
LCS 310-457548/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-457548/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 458100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-24	Trip Blank 1	Total/NA	Water	8260D	
MB 310-458100/5	Method Blank	Total/NA	Water	8260D	
LCS 310-458100/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-458100/7	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 457705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-9	DG-1005	Total/NA	Water	3510C	
310-308642-15	DG-1301	Total/NA	Water	3510C	
310-308642-18	DGP-1500	Total/NA	Water	3510C	
MB 310-457705/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-457705/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 458666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-9	DG-1005	Total/NA	Water	8270E	457705
310-308642-15	DG-1301	Total/NA	Water	8270E	457705
310-308642-18	DGP-1500	Total/NA	Water	8270E	457705
MB 310-457705/1-A	Method Blank	Total/NA	Water	8270E	457705
LCS 310-457705/2-A	Lab Control Sample	Total/NA	Water	8270E	457705

Analysis Batch: 458796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-9	DG-1005	Total/NA	Water	8270E	457705
310-308642-18	DGP-1500	Total/NA	Water	8270E	457705
MB 310-457705/1-A	Method Blank	Total/NA	Water	8270E	457705

Analysis Batch: 459105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-9	DG-1005	Total/NA	Water	8270E	457705
310-308642-18	DGP-1500	Total/NA	Water	8270E	457705
MB 310-457705/1-A	Method Blank	Total/NA	Water	8270E	457705

GC Semi VOA

Leach Batch: 457489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 310-457489/1-E	Method Blank	Total/NA	Water	1311	

Leach Batch: 457490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 310-457490/1-D	Method Blank	Total/NA	Water	1311	

Analysis Batch: 457648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-9	DG-1005	Total/NA	Water	8082A	457654
LB 310-457490/1-D	Method Blank	Total/NA	Water	8082A	457654
MB 310-457654/1-A	Method Blank	Total/NA	Water	8082A	457654
LCS 310-457654/16-A	Lab Control Sample	Total/NA	Water	8082A	457654

Analysis Batch: 457650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-9	DG-1005	Total/NA	Water	8081B	457654
LB 310-457489/1-E	Method Blank	Total/NA	Water	8081B	457654
MB 310-457654/1-A	Method Blank	Total/NA	Water	8081B	457654
LCS 310-457654/2-A	Lab Control Sample	Total/NA	Water	8081B	457654

GC Semi VOA

Prep Batch: 457654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-9	DG-1005	Total/NA	Water	3511	
310-308642-18	DGP-1500	Total/NA	Water	3511	
LB 310-457489/1-E	Method Blank	Total/NA	Water	3511	457489
LB 310-457490/1-D	Method Blank	Total/NA	Water	3511	457490
MB 310-457654/1-A	Method Blank	Total/NA	Water	3511	
LCS 310-457654/16-A	Lab Control Sample	Total/NA	Water	3511	
LCS 310-457654/2-A	Lab Control Sample	Total/NA	Water	3511	

Analysis Batch: 457790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-9	DG-1005	Total/NA	Water	8015C	
310-308642-18	DGP-1500	Total/NA	Water	8015C	
MB 310-457790/4	Method Blank	Total/NA	Water	8015C	
LCS 310-457790/5	Lab Control Sample	Total/NA	Water	8015C	
310-308642-9 MS	DG-1005	Total/NA	Water	8015C	
310-308642-9 MSD	DG-1005	Total/NA	Water	8015C	

Analysis Batch: 457862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-18	DGP-1500	Total/NA	Water	8082A	457654

Analysis Batch: 457864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-18	DGP-1500	Total/NA	Water	8081B	457654

Prep Batch: 821942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-9	DG-1005	Total/NA	Water	8151A	
310-308642-18	DGP-1500	Total/NA	Water	8151A	
MB 500-821942/1-A	Method Blank	Total/NA	Water	8151A	
LCS 500-821942/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 500-821942/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	

Analysis Batch: 822064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-9	DG-1005	Total/NA	Water	8151A	821942
310-308642-18	DGP-1500	Total/NA	Water	8151A	821942
MB 500-821942/1-A	Method Blank	Total/NA	Water	8151A	821942
LCS 500-821942/2-A	Lab Control Sample	Total/NA	Water	8151A	821942
LCSD 500-821942/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	821942

HPLC/IC

Analysis Batch: 458080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-5	DG-609	Total/NA	Water	9056A	
310-308642-6	DG-901	Total/NA	Water	9056A	
310-308642-8	DG-1001	Total/NA	Water	9056A	
310-308642-9	DG-1005	Total/NA	Water	9056A	
310-308642-11	DG-1101	Total/NA	Water	9056A	
310-308642-18	DGP-1500	Total/NA	Water	9056A	

HPLC/IC (Continued)

Analysis Batch: 458080 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-23	MWP-14	Total/NA	Water	9056A	
MB 310-458080/3	Method Blank	Total/NA	Water	9056A	
LCS 310-458080/4	Lab Control Sample	Total/NA	Water	9056A	

Metals

Prep Batch: 457735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-1	UG-90	Total/NA	Water	3005A	
310-308642-2	UG-201	Total/NA	Water	3005A	
310-308642-3	TDG-301	Total/NA	Water	3005A	
310-308642-4	TDG-305	Total/NA	Water	3005A	
310-308642-6	DG-901	Total/NA	Water	3005A	
310-308642-7	DG-905	Total/NA	Water	3005A	
310-308642-8	DG-1001	Total/NA	Water	3005A	
310-308642-9	DG-1005	Total/NA	Water	3005A	
310-308642-10	MW-D1	Total/NA	Water	3005A	
310-308642-11	DG-1101	Total/NA	Water	3005A	
310-308642-12	DG-1105R	Total/NA	Water	3005A	
310-308642-13	DG-1201	Total/NA	Water	3005A	
310-308642-14	DG-1205	Total/NA	Water	3005A	
310-308642-15	DG-1301	Total/NA	Water	3005A	
310-308642-16	DG-1305	Total/NA	Water	3005A	
310-308642-17	DG-1401R	Total/NA	Water	3005A	
310-308642-18	DGP-1500	Total/NA	Water	3005A	
310-308642-19	MW-D2	Total/NA	Water	3005A	
310-308642-20	SW-101	Total/NA	Water	3005A	
MB 310-457735/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-457735/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-308642-1 MS	UG-90	Total/NA	Water	3005A	
310-308642-1 MSD	UG-90	Total/NA	Water	3005A	
310-308642-12 DU	DG-1105R	Total/NA	Water	3005A	

Prep Batch: 457897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-9	DG-1005	Total/NA	Water	7470A	
310-308642-18	DGP-1500	Total/NA	Water	7470A	
MB 310-457897/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-457897/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 457906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-5	DG-609	Total/NA	Water	3005A	
MB 310-457906/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-457906/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 458132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-9	DG-1005	Total/NA	Water	7470A	457897
310-308642-18	DGP-1500	Total/NA	Water	7470A	457897
MB 310-457897/1-A	Method Blank	Total/NA	Water	7470A	457897

Metals (Continued)

Analysis Batch: 458132 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-457897/2-A	Lab Control Sample	Total/NA	Water	7470A	457897

Analysis Batch: 458192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-5	DG-609	Total/NA	Water	6010D	457906
MB 310-457906/1-A	Method Blank	Total/NA	Water	6010D	457906
LCS 310-457906/2-A	Lab Control Sample	Total/NA	Water	6010D	457906

Prep Batch: 458352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-6	DG-901	Total/NA	Water	3005A	
310-308642-8	DG-1001	Total/NA	Water	3005A	
310-308642-9	DG-1005	Total/NA	Water	3005A	
310-308642-11	DG-1101	Total/NA	Water	3005A	
310-308642-18	DGP-1500	Total/NA	Water	3005A	
310-308642-23	MWP-14	Total/NA	Water	3005A	
MB 310-458352/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-458352/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-308642-18 DU	DGP-1500	Total/NA	Water	3005A	

Analysis Batch: 458535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-6	DG-901	Total/NA	Water	6010D	458352
310-308642-8	DG-1001	Total/NA	Water	6010D	458352
310-308642-9	DG-1005	Total/NA	Water	6010D	458352
310-308642-11	DG-1101	Total/NA	Water	6010D	458352
310-308642-18	DGP-1500	Total/NA	Water	6010D	458352
310-308642-23	MWP-14	Total/NA	Water	6010D	458352
MB 310-458352/1-A	Method Blank	Total/NA	Water	6010D	458352
LCS 310-458352/2-A	Lab Control Sample	Total/NA	Water	6010D	458352
310-308642-18 DU	DGP-1500	Total/NA	Water	6010D	458352

Analysis Batch: 458910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-1	UG-90	Total/NA	Water	6020B	457735
310-308642-2	UG-201	Total/NA	Water	6020B	457735
310-308642-3	TDG-301	Total/NA	Water	6020B	457735
310-308642-4	TDG-305	Total/NA	Water	6020B	457735
310-308642-6	DG-901	Total/NA	Water	6020B	457735
310-308642-7	DG-905	Total/NA	Water	6020B	457735
310-308642-8	DG-1001	Total/NA	Water	6020B	457735
310-308642-9	DG-1005	Total/NA	Water	6020B	457735
310-308642-10	MW-D1	Total/NA	Water	6020B	457735
310-308642-11	DG-1101	Total/NA	Water	6020B	457735
310-308642-12	DG-1105R	Total/NA	Water	6020B	457735
310-308642-13	DG-1201	Total/NA	Water	6020B	457735
310-308642-14	DG-1205	Total/NA	Water	6020B	457735
310-308642-15	DG-1301	Total/NA	Water	6020B	457735
310-308642-16	DG-1305	Total/NA	Water	6020B	457735
310-308642-17	DG-1401R	Total/NA	Water	6020B	457735
310-308642-18	DGP-1500	Total/NA	Water	6020B	457735

Metals (Continued)

Analysis Batch: 458910 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-19	MW-D2	Total/NA	Water	6020B	457735
310-308642-20	SW-101	Total/NA	Water	6020B	457735
MB 310-457735/1-A	Method Blank	Total/NA	Water	6020B	457735
LCS 310-457735/2-A	Lab Control Sample	Total/NA	Water	6020B	457735
310-308642-1 MS	UG-90	Total/NA	Water	6020B	457735
310-308642-1 MSD	UG-90	Total/NA	Water	6020B	457735
310-308642-12 DU	DG-1105R	Total/NA	Water	6020B	457735

Prep Batch: 458914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-1	UG-90	Total/NA	Water	3005A	
310-308642-2	UG-201	Total/NA	Water	3005A	
310-308642-3	TDG-301	Total/NA	Water	3005A	
310-308642-4	TDG-305	Total/NA	Water	3005A	
310-308642-6	DG-901	Total/NA	Water	3005A	
310-308642-7	DG-905	Total/NA	Water	3005A	
310-308642-8	DG-1001	Total/NA	Water	3005A	
310-308642-9	DG-1005	Total/NA	Water	3005A	
310-308642-10	MW-D1	Total/NA	Water	3005A	
310-308642-11	DG-1101	Total/NA	Water	3005A	
310-308642-12	DG-1105R	Total/NA	Water	3005A	
310-308642-13	DG-1201	Total/NA	Water	3005A	
310-308642-14	DG-1205	Total/NA	Water	3005A	
310-308642-15	DG-1301	Total/NA	Water	3005A	
310-308642-16	DG-1305	Total/NA	Water	3005A	
310-308642-17	DG-1401R	Total/NA	Water	3005A	
310-308642-18	DGP-1500	Total/NA	Water	3005A	
310-308642-19	MW-D2	Total/NA	Water	3005A	
310-308642-20	SW-101	Total/NA	Water	3005A	
MB 310-458914/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-458914/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-308642-3 MS	TDG-301	Total/NA	Water	3005A	
310-308642-A-3-D MSD	310-308642-A-3-D MSD	Total/NA	Water	3005A	
310-308642-12 DU	DG-1105R	Total/NA	Water	3005A	

Analysis Batch: 458954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-1	UG-90	Total/NA	Water	6020B	457735
310-308642-2	UG-201	Total/NA	Water	6020B	457735
310-308642-4	TDG-305	Total/NA	Water	6020B	457735
310-308642-6	DG-901	Total/NA	Water	6020B	457735
MB 310-457735/1-A	Method Blank	Total/NA	Water	6020B	457735
LCS 310-457735/2-A	Lab Control Sample	Total/NA	Water	6020B	457735
310-308642-1 MS	UG-90	Total/NA	Water	6020B	457735
310-308642-1 MSD	UG-90	Total/NA	Water	6020B	457735

Analysis Batch: 459061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-3	TDG-301	Total/NA	Water	6020B	457735
310-308642-7	DG-905	Total/NA	Water	6020B	457735
310-308642-8	DG-1001	Total/NA	Water	6020B	457735

Metals (Continued)

Analysis Batch: 459061 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-9	DG-1005	Total/NA	Water	6020B	457735
310-308642-10	MW-D1	Total/NA	Water	6020B	457735
310-308642-11	DG-1101	Total/NA	Water	6020B	457735
310-308642-12	DG-1105R	Total/NA	Water	6020B	457735
310-308642-13	DG-1201	Total/NA	Water	6020B	457735
310-308642-14	DG-1205	Total/NA	Water	6020B	457735
310-308642-15	DG-1301	Total/NA	Water	6020B	457735
310-308642-16	DG-1305	Total/NA	Water	6020B	457735
310-308642-17	DG-1401R	Total/NA	Water	6020B	457735
310-308642-18	DGP-1500	Total/NA	Water	6020B	457735
310-308642-19	MW-D2	Total/NA	Water	6020B	457735
310-308642-20	SW-101	Total/NA	Water	6020B	457735
310-308642-12 DU	DG-1105R	Total/NA	Water	6020B	457735

Analysis Batch: 459067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-1	UG-90	Total/NA	Water	6020B	458914
310-308642-2	UG-201	Total/NA	Water	6020B	458914
310-308642-3	TDG-301	Total/NA	Water	6020B	458914
310-308642-4	TDG-305	Total/NA	Water	6020B	458914
310-308642-6	DG-901	Total/NA	Water	6020B	458914
310-308642-7	DG-905	Total/NA	Water	6020B	458914
310-308642-8	DG-1001	Total/NA	Water	6020B	458914
310-308642-9	DG-1005	Total/NA	Water	6020B	458914
310-308642-10	MW-D1	Total/NA	Water	6020B	458914
310-308642-11	DG-1101	Total/NA	Water	6020B	458914
310-308642-12	DG-1105R	Total/NA	Water	6020B	458914
310-308642-13	DG-1201	Total/NA	Water	6020B	458914
310-308642-14	DG-1205	Total/NA	Water	6020B	458914
310-308642-15	DG-1301	Total/NA	Water	6020B	458914
310-308642-16	DG-1305	Total/NA	Water	6020B	458914
310-308642-17	DG-1401R	Total/NA	Water	6020B	458914
310-308642-18	DGP-1500	Total/NA	Water	6020B	458914
310-308642-19	MW-D2	Total/NA	Water	6020B	458914
310-308642-20	SW-101	Total/NA	Water	6020B	458914
MB 310-458914/1-A	Method Blank	Total/NA	Water	6020B	458914
LCS 310-458914/2-A	Lab Control Sample	Total/NA	Water	6020B	458914
310-308642-3 MS	TDG-301	Total/NA	Water	6020B	458914
310-308642-A-3-D MSD	310-308642-A-3-D MSD	Total/NA	Water	6020B	458914
310-308642-12 DU	DG-1105R	Total/NA	Water	6020B	458914

General Chemistry

Analysis Batch: 457515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-2	UG-201	Total/NA	Water	I-3765-85	
310-308642-3	TDG-301	Total/NA	Water	I-3765-85	
310-308642-4	TDG-305	Total/NA	Water	I-3765-85	
310-308642-6	DG-901	Total/NA	Water	I-3765-85	
310-308642-7	DG-905	Total/NA	Water	I-3765-85	
310-308642-8	DG-1001	Total/NA	Water	I-3765-85	

General Chemistry (Continued)

Analysis Batch: 457515 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-457515/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-457515/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-308642-4 DU	TDG-305	Total/NA	Water	I-3765-85	

Analysis Batch: 457567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-9	DG-1005	Total/NA	Water	I-3765-85	
310-308642-10	MW-D1	Total/NA	Water	I-3765-85	
310-308642-11	DG-1101	Total/NA	Water	I-3765-85	
310-308642-12	DG-1105R	Total/NA	Water	I-3765-85	
310-308642-13	DG-1201	Total/NA	Water	I-3765-85	
310-308642-14	DG-1205	Total/NA	Water	I-3765-85	
310-308642-15	DG-1301	Total/NA	Water	I-3765-85	
310-308642-17	DG-1401R	Total/NA	Water	I-3765-85	
310-308642-18	DGP-1500	Total/NA	Water	I-3765-85	
310-308642-20	SW-101	Total/NA	Water	I-3765-85	
MB 310-457567/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-457567/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-308642-20 DU	SW-101	Total/NA	Water	I-3765-85	

Analysis Batch: 457582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-1	UG-90	Total/NA	Water	I-3765-85	
310-308642-16	DG-1305	Total/NA	Water	I-3765-85	
310-308642-19	MW-D2	Total/NA	Water	I-3765-85	
MB 310-457582/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-457582/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 457671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-5	DG-609	Total/NA	Water	SM 2320B	
310-308642-6	DG-901	Total/NA	Water	SM 2320B	
310-308642-8	DG-1001	Total/NA	Water	SM 2320B	
310-308642-9	DG-1005	Total/NA	Water	SM 2320B	
310-308642-11	DG-1101	Total/NA	Water	SM 2320B	
310-308642-18	DGP-1500	Total/NA	Water	SM 2320B	
310-308642-23	MWP-14	Total/NA	Water	SM 2320B	
LCS 310-457671/25	Lab Control Sample	Total/NA	Water	SM 2320B	
310-308642-8 DU	DG-1001	Total/NA	Water	SM 2320B	

Analysis Batch: 457691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-18	DGP-1500	Total/NA	Water	353.2	

Prep Batch: 457808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-9	DG-1005	Total/NA	Water	9012B	
310-308642-18	DGP-1500	Total/NA	Water	9012B	
MB 310-457808/1-A	Method Blank	Total/NA	Water	9012B	
LCS 310-457808/2-A	Lab Control Sample	Total/NA	Water	9012B	

General Chemistry

Analysis Batch: 457960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-9	DG-1005	Total/NA	Water	9012B	457808
310-308642-18	DGP-1500	Total/NA	Water	9012B	457808
MB 310-457808/1-A	Method Blank	Total/NA	Water	9012B	457808
LCS 310-457808/2-A	Lab Control Sample	Total/NA	Water	9012B	457808

Analysis Batch: 458408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-18	DGP-1500	Total/NA	Water	9060A	
MB 310-458408/11	Method Blank	Total/NA	Water	9060A	
LCS 310-458408/12	Lab Control Sample	Total/NA	Water	9060A	
310-308642-18 DU	DGP-1500	Total/NA	Water	9060A	

Prep Batch: 821933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-9	DG-1005	Total/NA	Water	9030B	
310-308642-18	DGP-1500	Total/NA	Water	9030B	
MB 500-821933/1-A	Method Blank	Total/NA	Water	9030B	
LCS 500-821933/2-A	Lab Control Sample	Total/NA	Water	9030B	

Analysis Batch: 821934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308642-9	DG-1005	Total/NA	Water	9034	821933
310-308642-18	DGP-1500	Total/NA	Water	9034	821933
MB 500-821933/1-A	Method Blank	Total/NA	Water	9034	821933
LCS 500-821933/2-A	Lab Control Sample	Total/NA	Water	9034	821933

Client Sample ID: UG-90

Lab Sample ID: 310-308642-1

Date Collected: 06/11/25 11:02

Matrix: Water

Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457531	WSE8	EET CF	06/14/25 05:35
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	458910	ZRI4	EET CF	06/26/25 14:37
Total/NA	Prep	3005A			458914	WK2X	EET CF	06/27/25 09:00
Total/NA	Analysis	6020B		1	459067	NFT2	EET CF	06/27/25 14:52
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	458954	NFT2	EET CF	06/26/25 15:49
Total/NA	Analysis	I-3765-85		1	457582	E6KR	EET CF	06/13/25 14:04

Client Sample ID: UG-201

Lab Sample ID: 310-308642-2

Date Collected: 06/11/25 10:29

Matrix: Water

Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457531	WSE8	EET CF	06/14/25 05:57
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	458910	ZRI4	EET CF	06/26/25 14:44
Total/NA	Prep	3005A			458914	WK2X	EET CF	06/27/25 09:00
Total/NA	Analysis	6020B		1	459067	NFT2	EET CF	06/27/25 14:55
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	458954	NFT2	EET CF	06/26/25 16:01
Total/NA	Analysis	I-3765-85		1	457515	E6KR	EET CF	06/13/25 09:30

Client Sample ID: TDG-301

Lab Sample ID: 310-308642-3

Date Collected: 06/11/25 11:32

Matrix: Water

Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457531	WSE8	EET CF	06/14/25 06:20
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	458910	ZRI4	EET CF	06/26/25 14:52
Total/NA	Prep	3005A			458914	WK2X	EET CF	06/27/25 09:00
Total/NA	Analysis	6020B		1	459067	NFT2	EET CF	06/27/25 14:57
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	459061	NFT2	EET CF	06/27/25 14:28
Total/NA	Analysis	I-3765-85		1	457515	E6KR	EET CF	06/13/25 09:30

Client Sample ID: TDG-305

Lab Sample ID: 310-308642-4

Date Collected: 06/11/25 12:01

Matrix: Water

Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457531	WSE8	EET CF	06/14/25 06:43
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	458910	ZRI4	EET CF	06/26/25 14:55

Client Sample ID: TDG-305

Lab Sample ID: 310-308642-4

Date Collected: 06/11/25 12:01

Matrix: Water

Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			458914	WK2X	EET CF	06/27/25 09:00
Total/NA	Analysis	6020B		1	459067	NFT2	EET CF	06/27/25 15:05
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	458954	NFT2	EET CF	06/26/25 16:07
Total/NA	Analysis	I-3765-85		1	457515	E6KR	EET CF	06/13/25 09:30

Client Sample ID: DG-609

Lab Sample ID: 310-308642-5

Date Collected: 06/11/25 09:51

Matrix: Water

Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	458080	QTZ5	EET CF	06/18/25 15:09
Total/NA	Prep	3005A			457906	WK2X	EET CF	06/18/25 09:00
Total/NA	Analysis	6010D		1	458192	ZRI4	EET CF	06/19/25 15:10
Total/NA	Analysis	SM 2320B		1	457671	T5AC	EET CF	06/14/25 17:03

Client Sample ID: DG-901

Lab Sample ID: 310-308642-6

Date Collected: 06/11/25 12:44

Matrix: Water

Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457531	WSE8	EET CF	06/14/25 07:05
Total/NA	Analysis	9056A		5	458080	QTZ5	EET CF	06/18/25 15:21
Total/NA	Prep	3005A			458352	WK2X	EET CF	06/23/25 09:00
Total/NA	Analysis	6010D		1	458535	ZRI4	EET CF	06/23/25 15:47
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	458910	ZRI4	EET CF	06/26/25 14:57
Total/NA	Prep	3005A			458914	WK2X	EET CF	06/27/25 09:00
Total/NA	Analysis	6020B		1	459067	NFT2	EET CF	06/27/25 15:07
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	458954	NFT2	EET CF	06/26/25 16:10
Total/NA	Analysis	I-3765-85		1	457515	E6KR	EET CF	06/13/25 09:30
Total/NA	Analysis	SM 2320B		1	457671	T5AC	EET CF	06/14/25 17:14

Client Sample ID: DG-905

Lab Sample ID: 310-308642-7

Date Collected: 06/11/25 13:18

Matrix: Water

Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457531	WSE8	EET CF	06/14/25 07:28
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	458910	ZRI4	EET CF	06/26/25 15:00
Total/NA	Prep	3005A			458914	WK2X	EET CF	06/27/25 09:00
Total/NA	Analysis	6020B		1	459067	NFT2	EET CF	06/27/25 15:10

Lab Chronicle

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-905

Date Collected: 06/11/25 13:18
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	459061	NFT2	EET CF	06/27/25 14:31
Total/NA	Analysis	I-3765-85		1	457515	E6KR	EET CF	06/13/25 09:30

Client Sample ID: DG-1001

Date Collected: 06/10/25 09:57
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457531	WSE8	EET CF	06/14/25 07:50
Total/NA	Analysis	9056A		5	458080	QTZ5	EET CF	06/18/25 15:58
Total/NA	Prep	3005A			458352	WK2X	EET CF	06/23/25 09:00
Total/NA	Analysis	6010D		1	458535	ZRI4	EET CF	06/23/25 15:48
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	458910	ZRI4	EET CF	06/26/25 15:02
Total/NA	Prep	3005A			458914	WK2X	EET CF	06/27/25 09:00
Total/NA	Analysis	6020B		1	459067	NFT2	EET CF	06/27/25 15:13
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	459061	NFT2	EET CF	06/27/25 14:34
Total/NA	Analysis	I-3765-85		1	457515	E6KR	EET CF	06/13/25 09:30
Total/NA	Analysis	SM 2320B		1	457671	T5AC	EET CF	06/14/25 17:25

Client Sample ID: DG-1005

Date Collected: 06/10/25 10:44
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457531	WSE8	EET CF	06/14/25 08:13
Total/NA	Prep	3510C			457705	J5BR	EET CF	06/16/25 11:56
Total/NA	Analysis	8270E		1	458666	V7YZ	EET CF	06/25/25 11:46
Total/NA	Prep	3510C			457705	J5BR	EET CF	06/16/25 11:56
Total/NA	Analysis	8270E		1	458796	V7YZ	EET CF	06/26/25 18:00
Total/NA	Prep	3510C			457705	J5BR	EET CF	06/16/25 11:56
Total/NA	Analysis	8270E		1	459105	V7YZ	EET CF	06/30/25 01:07
Total/NA	Analysis	8015C		1	457790	BW2O	EET CF	06/17/25 12:24
Total/NA	Prep	3511			457654	BW2O	EET CF	06/16/25 07:02
Total/NA	Analysis	8081B		1	457650	BW2O	EET CF	06/16/25 13:34
Total/NA	Prep	3511			457654	BW2O	EET CF	06/16/25 07:02
Total/NA	Analysis	8082A		1	457648	BW2O	EET CF	06/16/25 13:34
Total/NA	Prep	8151A			821942	FRG	EET CHI	06/17/25 07:15
Total/NA	Analysis	8151A		1	822064	H7CM	EET CHI	06/17/25 18:41
Total/NA	Analysis	9056A		5	458080	QTZ5	EET CF	06/18/25 16:10
Total/NA	Prep	3005A			458352	WK2X	EET CF	06/23/25 09:00
Total/NA	Analysis	6010D		1	458535	ZRI4	EET CF	06/23/25 15:50

Client Sample ID: DG-1005

Lab Sample ID: 310-308642-9

Date Collected: 06/10/25 10:44

Matrix: Water

Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	458910	ZRI4	EET CF	06/26/25 15:05
Total/NA	Prep	3005A			458914	WK2X	EET CF	06/27/25 09:00
Total/NA	Analysis	6020B		1	459067	NFT2	EET CF	06/27/25 15:20
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	459061	NFT2	EET CF	06/27/25 14:37
Total/NA	Prep	7470A			457897	F5MW	EET CF	06/18/25 11:21
Total/NA	Analysis	7470A		1	458132	F5MW	EET CF	06/19/25 11:23
Total/NA	Prep	9012B			457808	ENB7	EET CF	06/17/25 09:43
Total/NA	Analysis	9012B		1	457960	ZJX4	EET CF	06/18/25 01:38
Total/NA	Prep	9030B			821933	CLB	EET CHI	06/16/25 18:15 - 06/16/25 18:22 [1]
Total/NA	Analysis	9034		1	821934	CLB	EET CHI	06/16/25 23:42 - 06/17/25 00:04 [1]
Total/NA	Analysis	I-3765-85		1	457567	E6KR	EET CF	06/13/25 11:47
Total/NA	Analysis	SM 2320B		1	457671	T5AC	EET CF	06/14/25 17:45

Client Sample ID: MW-D1

Lab Sample ID: 310-308642-10

Date Collected: 06/11/25 13:18

Matrix: Water

Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457531	WSE8	EET CF	06/14/25 08:36
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	458910	ZRI4	EET CF	06/26/25 15:07
Total/NA	Prep	3005A			458914	WK2X	EET CF	06/27/25 09:00
Total/NA	Analysis	6020B		1	459067	NFT2	EET CF	06/27/25 15:23
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	459061	NFT2	EET CF	06/27/25 14:40
Total/NA	Analysis	I-3765-85		1	457567	E6KR	EET CF	06/13/25 11:47

Client Sample ID: DG-1101

Lab Sample ID: 310-308642-11

Date Collected: 06/10/25 11:22

Matrix: Water

Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457529	WSE8	EET CF	06/13/25 17:11
Total/NA	Analysis	9056A		5	458080	QTZ5	EET CF	06/18/25 16:22
Total/NA	Prep	3005A			458352	WK2X	EET CF	06/23/25 09:00
Total/NA	Analysis	6010D		1	458535	ZRI4	EET CF	06/23/25 15:51
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	458910	ZRI4	EET CF	06/26/25 15:10
Total/NA	Prep	3005A			458914	WK2X	EET CF	06/27/25 09:00
Total/NA	Analysis	6020B		1	459067	NFT2	EET CF	06/27/25 15:25
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	459061	NFT2	EET CF	06/27/25 14:43

Lab Chronicle

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-1101

Date Collected: 06/10/25 11:22
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	I-3765-85		1	457567	E6KR	EET CF	06/13/25 11:47
Total/NA	Analysis	SM 2320B		1	457671	T5AC	EET CF	06/14/25 17:55

Client Sample ID: DG-1105R

Date Collected: 06/10/25 11:50
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457529	WSE8	EET CF	06/13/25 17:34
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	458910	ZRI4	EET CF	06/26/25 15:12
Total/NA	Prep	3005A			458914	WK2X	EET CF	06/27/25 09:00
Total/NA	Analysis	6020B		1	459067	NFT2	EET CF	06/27/25 15:28
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	459061	NFT2	EET CF	06/27/25 14:52
Total/NA	Analysis	I-3765-85		1	457567	E6KR	EET CF	06/13/25 11:47

Client Sample ID: DG-1201

Date Collected: 06/10/25 12:22
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457529	WSE8	EET CF	06/13/25 17:57
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	458910	ZRI4	EET CF	06/26/25 15:22
Total/NA	Prep	3005A			458914	WK2X	EET CF	06/27/25 09:00
Total/NA	Analysis	6020B		1	459067	NFT2	EET CF	06/27/25 15:33
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	459061	NFT2	EET CF	06/27/25 14:57
Total/NA	Analysis	I-3765-85		1	457567	E6KR	EET CF	06/13/25 11:47

Client Sample ID: DG-1205

Date Collected: 06/10/25 12:57
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308642-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457529	WSE8	EET CF	06/13/25 18:19
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	458910	ZRI4	EET CF	06/26/25 15:25
Total/NA	Prep	3005A			458914	WK2X	EET CF	06/27/25 09:00
Total/NA	Analysis	6020B		1	459067	NFT2	EET CF	06/27/25 15:35
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	459061	NFT2	EET CF	06/27/25 15:00
Total/NA	Analysis	I-3765-85		1	457567	E6KR	EET CF	06/13/25 11:47

Client Sample ID: DG-1301

Lab Sample ID: 310-308642-15

Date Collected: 06/10/25 13:52

Matrix: Water

Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457529	WSE8	EET CF	06/13/25 18:42
Total/NA	Prep	3510C			457705	J5BR	EET CF	06/16/25 11:56
Total/NA	Analysis	8270E		1	458666	V7YZ	EET CF	06/25/25 12:39
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	458910	ZRI4	EET CF	06/26/25 15:28
Total/NA	Prep	3005A			458914	WK2X	EET CF	06/27/25 09:00
Total/NA	Analysis	6020B		1	459067	NFT2	EET CF	06/27/25 15:38
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	459061	NFT2	EET CF	06/27/25 15:03
Total/NA	Analysis	I-3765-85		1	457567	E6KR	EET CF	06/13/25 11:47

Client Sample ID: DG-1305

Lab Sample ID: 310-308642-16

Date Collected: 06/10/25 15:04

Matrix: Water

Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457529	WSE8	EET CF	06/13/25 19:04
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	458910	ZRI4	EET CF	06/26/25 15:30
Total/NA	Prep	3005A			458914	WK2X	EET CF	06/27/25 09:00
Total/NA	Analysis	6020B		1	459067	NFT2	EET CF	06/27/25 15:41
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	459061	NFT2	EET CF	06/27/25 15:06
Total/NA	Analysis	I-3765-85		1	457582	E6KR	EET CF	06/13/25 14:04

Client Sample ID: DG-1401R

Lab Sample ID: 310-308642-17

Date Collected: 06/10/25 15:52

Matrix: Water

Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457529	WSE8	EET CF	06/13/25 19:26
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	458910	ZRI4	EET CF	06/26/25 15:33
Total/NA	Prep	3005A			458914	WK2X	EET CF	06/27/25 09:00
Total/NA	Analysis	6020B		1	459067	NFT2	EET CF	06/27/25 15:43
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	459061	NFT2	EET CF	06/27/25 15:09
Total/NA	Analysis	I-3765-85		1	457567	E6KR	EET CF	06/13/25 11:47

Client Sample ID: DGP-1500

Lab Sample ID: 310-308642-18

Date Collected: 06/11/25 14:06

Matrix: Water

Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457529	WSE8	EET CF	06/13/25 19:49

Lab Chronicle

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DGP-1500

Lab Sample ID: 310-308642-18

Date Collected: 06/11/25 14:06
Date Received: 06/12/25 16:15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			457705	J5BR	EET CF	06/16/25 11:56
Total/NA	Analysis	8270E		1	458666	V7YZ	EET CF	06/25/25 13:06
Total/NA	Prep	3510C			457705	J5BR	EET CF	06/16/25 11:56
Total/NA	Analysis	8270E		1	458796	V7YZ	EET CF	06/26/25 18:26
Total/NA	Prep	3510C			457705	J5BR	EET CF	06/16/25 11:56
Total/NA	Analysis	8270E		1	459105	V7YZ	EET CF	06/30/25 01:33
Total/NA	Analysis	8015C		1	457790	BW2O	EET CF	06/17/25 12:42
Total/NA	Prep	3511			457654	BW2O	EET CF	06/16/25 07:15
Total/NA	Analysis	8081B		1	457864	BW2O	EET CF	06/18/25 15:29
Total/NA	Prep	3511			457654	BW2O	EET CF	06/16/25 07:15
Total/NA	Analysis	8082A		1	457862	BW2O	EET CF	06/18/25 15:29
Total/NA	Prep	8151A			821942	FRG	EET CHI	06/17/25 07:15
Total/NA	Analysis	8151A		1	822064	H7CM	EET CHI	06/17/25 18:58
Total/NA	Analysis	9056A		5	458080	QTZ5	EET CF	06/18/25 16:34
Total/NA	Prep	3005A			458352	WK2X	EET CF	06/23/25 09:00
Total/NA	Analysis	6010D		1	458535	ZRI4	EET CF	06/23/25 16:33
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	458910	ZRI4	EET CF	06/26/25 15:35
Total/NA	Prep	3005A			458914	WK2X	EET CF	06/27/25 09:00
Total/NA	Analysis	6020B		1	459067	NFT2	EET CF	06/27/25 15:51
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	459061	NFT2	EET CF	06/27/25 15:12
Total/NA	Prep	7470A			457897	F5MW	EET CF	06/18/25 11:21
Total/NA	Analysis	7470A		1	458132	F5MW	EET CF	06/19/25 11:25
Total/NA	Analysis	353.2		1	457691	HE7K	EET CF	06/17/25 02:08
Total/NA	Prep	9012B			457808	ENB7	EET CF	06/17/25 09:43
Total/NA	Analysis	9012B		1	457960	ZJX4	EET CF	06/18/25 08:09
Total/NA	Prep	9030B			821933	CLB	EET CHI	06/16/25 18:22 - 06/16/25 18:30 [1]
Total/NA	Analysis	9034		1	821934	CLB	EET CHI	06/17/25 00:04 - 06/17/25 00:27 [1]
Total/NA	Analysis	9060A		1	458408	HE7K	EET CF	06/20/25 14:02
Total/NA	Analysis	I-3765-85		1	457567	E6KR	EET CF	06/13/25 11:47
Total/NA	Analysis	SM 2320B		1	457671	T5AC	EET CF	06/14/25 18:04

Client Sample ID: MW-D2

Lab Sample ID: 310-308642-19

Date Collected: 06/10/25 15:04
Date Received: 06/12/25 16:15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457529	WSE8	EET CF	06/13/25 20:11
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	458910	ZRI4	EET CF	06/26/25 15:38
Total/NA	Prep	3005A			458914	WK2X	EET CF	06/27/25 09:00
Total/NA	Analysis	6020B		1	459067	NFT2	EET CF	06/27/25 15:53

Lab Chronicle

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: MW-D2

Lab Sample ID: 310-308642-19

Date Collected: 06/10/25 15:04
Matrix: Water
Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	459061	NFT2	EET CF	06/27/25 15:15
Total/NA	Analysis	I-3765-85		1	457582	E6KR	EET CF	06/13/25 14:04

Client Sample ID: SW-101

Lab Sample ID: 310-308642-20

Date Collected: 06/09/25 17:10
Matrix: Water
Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457531	WSE8	EET CF	06/14/25 08:58
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	458910	ZRI4	EET CF	06/26/25 15:40
Total/NA	Prep	3005A			458914	WK2X	EET CF	06/27/25 09:00
Total/NA	Analysis	6020B		1	459067	NFT2	EET CF	06/27/25 15:56
Total/NA	Prep	3005A			457735	QTZ5	EET CF	06/17/25 09:10
Total/NA	Analysis	6020B		1	459061	NFT2	EET CF	06/27/25 15:18
Total/NA	Analysis	I-3765-85		1	457567	E6KR	EET CF	06/13/25 11:47

Client Sample ID: Sediment Pond Discharge

Lab Sample ID: 310-308642-21

Date Collected: 06/09/25 16:52
Matrix: Water
Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457548	FE5V	EET CF	06/14/25 03:48

Client Sample ID: MW-P7

Lab Sample ID: 310-308642-22

Date Collected: 06/10/25 14:08
Matrix: Water
Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457548	FE5V	EET CF	06/14/25 04:11

Client Sample ID: MWP-14

Lab Sample ID: 310-308642-23

Date Collected: 06/11/25 09:10
Matrix: Water
Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	458080	QTZ5	EET CF	06/18/25 16:46
Total/NA	Prep	3005A			458352	WK2X	EET CF	06/23/25 09:00
Total/NA	Analysis	6010D		1	458535	ZRI4	EET CF	06/23/25 15:57
Total/NA	Analysis	SM 2320B		1	457671	T5AC	EET CF	06/14/25 18:21

Lab Chronicle

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Trip Blank 1
Lab Sample ID: 310-308642-24
Date Collected: 06/11/25 00:00
Matrix: Water
Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	458100	WSE8	EET CF	06/19/25 14:01
Total/NA	Analysis	8260D		1	457531	WSE8	EET CF	06/14/25 05:12

Client Sample ID: Trip Blank 2
Lab Sample ID: 310-308642-25
Date Collected: 06/11/25 00:00
Matrix: Water
Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457548	FE5V	EET CF	06/13/25 22:50

Client Sample ID: Trip Blank 3
Lab Sample ID: 310-308642-26
Date Collected: 06/11/25 00:00
Matrix: Water
Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457548	FE5V	EET CF	06/13/25 23:13

Client Sample ID: Trip Blank 4
Lab Sample ID: 310-308642-27
Date Collected: 06/11/25 00:00
Matrix: Water
Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457548	FE5V	EET CF	06/13/25 23:36

Client Sample ID: Trip Blank 5
Lab Sample ID: 310-308642-28
Date Collected: 06/11/25 00:00
Matrix: Water
Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457548	FE5V	EET CF	06/13/25 23:59

Client Sample ID: Trip Blank 6
Lab Sample ID: 310-308642-29
Date Collected: 06/11/25 00:00
Matrix: Water
Date Received: 06/12/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457548	FE5V	EET CF	06/14/25 00:22

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Laboratory: Eurofins Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

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

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260D		Water	1,2,4-Trichlorobenzene
8260D		Water	Allyl chloride
8260D		Water	Ethyl methacrylate

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-26
Georgia (DW)	State	939	05-31-25 *
Illinois	NELAP	100201	05-31-26
Indiana	State	C-IL-02	05-31-26
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-25
Kentucky (UST)	State	AI # 108083	05-31-26
Kentucky (WW)	State	KY90023	12-31-24 *
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-26
North Carolina (WW/SW)	State	291	12-31-25
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-25
South Carolina	State	77001003	05-31-25 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	399172840	08-31-25
Wyoming	State	8TMS-Q	05-31-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308642-1
SDG: NWIA Sanitary Landfill

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CF
8015C	Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)	SW846	EET CF
8081B	Organochlorine Pesticides (GC)	SW846	EET CF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CF
8151A	Herbicides (GC)	SW846	EET CHI
9056A	Anions, Ion Chromatography	SW846	EET CF
6010D	Metals (ICP)	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
353.2	Nitrogen, Nitrate (Calculation)	EPA	EET CF
9012B	Cyanide, Total andor Amenable	SW846	EET CF
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET CHI
9060A	Organic Carbon, Total (TOC)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
SM 2320B	Alkalinity	SM	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CF
3511	Microextraction of Organic Compounds	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF
8151A	Extraction (Herbicides)	SW846	EET CHI
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET CF
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

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310-308642 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client. SCS

City/State: CITY W. Des Moines | STATE IA | Project:

Receipt Information

Date/Time Received. DATE 8-12-25 | TIME 1615 | Received By PH

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 # 1 of 6

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? ↓

VB-10, 201, MW-31, 505, MW-2, PB-609

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: AA | Correction Factor (°C). C

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.3 | Corrected Temp (°C). 1.3

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
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

eurofins | Environment Testing America

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Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY W. Des Moines STATE IA Project:

Receipt Information

Date/Time Received. DATE 6-4-25 TIME 1615 Received By PH

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 # 2 of 6

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? ↓

D6-901, 905, 1001, MW-01, DC-1101

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other _____ ☐ NONE

Thermometer ID. AA Correction Factor (°C). C

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.1 Corrected Temp (°C). 1.1

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
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

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Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY W. Des Moines | STATE IA | Project

Receipt Information

Date/Time Received: DATE 6-12-25 | TIME 1615 | Received By Pdf

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 # 3 of 6

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? ↓

PG-1005, 1105R, 1201

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: AA | Correction Factor (°C): C

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): -0.2 | Corrected Temp (°C): -0.2

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used.		
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

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Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY W. Des Moines STATE IA Project:

Receipt Information

Date/Time Received. DATE 6-12-25 TIME 1615 Received By: PH

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 # 4 of 6

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? ↓

D6-1205, 1305, 1500

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other _____ ☐ NONE

Thermometer ID: AA Correction Factor (°C): C

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 0.0 Corrected Temp (°C). 0.0

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
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

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Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY W. Des Moines STATE IA Project:

Receipt Information

Date/Time Received: DATE 6-12-25 TIME 1615 Received By: Pff

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 # 5 of 6

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? ↓

D 6-1301, 1401R, 60-9, 10, MW-02, Sed. Pond Discharge

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other._____ ☐ NONE

Thermometer ID: AA Correction Factor (°C): C

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.5 Corrected Temp (°C): 1.5

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
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

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Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY W. Des Moines STATE IA Project

Receipt Information

Date/Time Received. DATE 8-12-25 TIME 1615 Received By: PH

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 # 6 of 6

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? ↓

SW-101, MW-07, MWP-14, MW-03

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other._____ ☐ NONE

Thermometer ID: AA Correction Factor (°C): C

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.4 Corrected Temp (°C): 1.4

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
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

Eurofins TestAmerica, Cedar Falls
3019 Venture Way
#REF!
#REF!
#REF!

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Chain of Custody Record

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Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

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

Client Contact	Project Manager: Sean Marczewski	Site Contact: Brent Kach	Date:	COC No
SCS Engineers	Email smarczweski@scsengineers.com	Lab Contact: Sam Miller	Carrier:	_____ of _____ COCs
1690 All-State Court, Suite 100	Cell 712-661-9682			Sampler
West Des Moines, IA 50263	**Analysis Turnaround Time**			**For Lab Use Only:**
	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client:
	Other:_____			Lab Sampling
Project Name: NWIA - Spring 2025 - HMSP	☐ 2 weeks			
Site. NWIA Sanitary Landfill	☐ 1 week			Job / SDG No
P O # 27223095.25	☐ 2 days			
	☐ 1 day			

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	Appendix II	Total Suspended Solids	Geochemical Parameters	Trip Blank	Sample Specific Notes.
UG-90	6-11-25	1102	G	H_2O				X		X			
UG-201	6-11 25	1029	G	H_2O				X		X			
TDG-301	6-11-25	1132	G	H_2O				X		X			
TDG-305	6-11-25	1201	G	H_2O				X		X			
MW-2											X		
DG-609	6-11-25	0951	G	H_2O							X		
DG-901	6-11-25	1244	G	H_2O				X		X	X		
DG-905	6-11-25	1318	G	H_2O				X		X			
DG-1001	6-10-25	0957	G	H_2O				X		X	X		
DG-1005	6-10-25	1044	G	H_2O					X	X	X		
MW-D1	6-11-25	1318	G	H_2O				X		X			
Trip Blank												X	Please include trip blanks in every cooler containing VOC samples

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Geochemical Parameters: Bicarbonate, Carbonate, Calcium, Magnesium, Potassium, Chloride, Sodium, and Sulfate

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C) Obs'd _____ Corr'd _____		Therm ID No. _____
Relinquished by: Homer Roth	Company: SCS	Date/Time: 6/12/25/1400	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time.	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time.	Received in Laboratory by:	Company:	Date/Time. 6-12-25 1615

Form No. CA-C-WI-002, Rev. 4.23, dated 4/16/2019

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Chain of Custody Record

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

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

Client Contact	Project Manager: Sean Marczewski	Site Contact: Brent Kach	Date:	COC No:
SCS Engineers	Email smarczweski@scsengineers.com	Lab Contact: Sam Miller	Carrier:	_____ of _____ COCs
1690 All-State Court, Suite 100	Cell. 712-661-9682			Sampler
West Des Moines, IA 50263	**Analysis Turnaround Time**			**For Lab Use Only:**
	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client:
	Other:_____			Lab Sampling
Project Name: NWIA - Spring 2025 - HMSP	☐ 2 weeks			
Site. NWIA Sanitary Landfill	☐ 1 week			Job / SDG No
P O # 27223095.25	☐ 2 days			
	☐ 1 day			

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	Appendix II	Total Suspended Solids	Geochemical Parameters	Dichlorodifluoromethane	Bis [2-ethylhexyl] phthalate	Natural Attenuation Parameters	Arsenic Speciation	Trip Blank	Sample Specific Notes
DG-1101	6-10-25	1122	G	H2O				X		X	X						
DG-1105R	6-10-25	1150	G	H2O				X		X							
DG-1201	6-10-25	1222	G	H2O				X		X							
DG-1205	6-10-25	1257	G	H2O				X		X		X					
DG-1301	6-10-25	1352	G	H2O				X		X			X				
DG-1305	6-10-25	1504	G	H2O				X		X							
DG-1401R	6-10-25	1552	G	H2O				X		X							
DGP-1500	6-11-25	1406	G	H2O					X	X	X			X	X		
GU-9								X		X							
GU-10								X		X							
MW-D2	6-10-25	1504	G	H2O				X		X							
Trip Blank																X	Please include trip blanks in every cooler containing VOC samples

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Geochemical Parameters: Bicarbonate, Carbonate, Calcium, Magnesium, Potassium, Chloride, Sodium, and Sulfate
Natural Attenuation Parameters: Total Organic Carbon, Nitrate, Manganese, Iron, and Sulfate
Arsenic Speciation: Arsenite and Arsenate

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No		Cooler Temp. (°C) Obs'd: _____ Corr'd _____		Therm ID No _____
Relinquished by: Kramer Roths	Company: SCS	Date/Time: 6-12-25 1400	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time 6-12-25 1615

Form No. CA-C-WI-002, Rev. 4.23, dated 4/16/2019

6/30/2025

Eurofins TestAmerica, Cedar Falls
3019 Venture Way
#REF!
#REF!
#REF!

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Chain of Custody Record

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other:

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

Client Contact	Project Manager: Sean Marczewski	Site Contact: Brent Kach	Date:	COC No:
SCS Engineers	Email smarczewski@scsengineers.com	Lab Contact: Sam Miller	Carrier:	_____ of _____ COCs
1690 All-State Court, Suite 100	Cell: 712-661-9682			Sampler:
West Des Moines, IA 50263	**Analysis Turnaround Time** ☐CALENDAR DAYS ☐WORKING DAYS			**For Lab Use Only:** Walk-in Client: / Lab Sampling:
	Other: _____ ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			
Project Name: NWIA - Spring 2025 - HMSP				Job / SDG No:
Site: NWIA Sanitary Landfill				
P O # 27223095 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	Total Suspended Solids	Geochemical Parameters	Acetone	Trichloroethene	Trip Blank	Sample Specific Notes:
GU-11								X	X					
GU-12								X	X					
GU-13								X	X					
GU-14								X	X					
GU-15								X	X					
SW-101	6-9-25	17:10	G	H_2O				X	X					
Sediment Pond Discharge	6-9-25	16:52	G	H_2O							X			
MW-P7	6-10-25	1408	G	H_2O								X		
MWP-14	6-11-25	0910	G	H_2O						X				
MW-D3								X	X					
Trip Blank													X	Please include trip blanks n every cooler containing VOC samples

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 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.
☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐Return to Client ☐Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments: Geochemical Parameters: Bicarbonate, Carbonate, Calcium, Magnesium, Potassium, Chloride, Sodium, and Sulfate

Custody Seals Intact: ☐Yes ☐No	Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____
Relinquished by: Kramer Bath	Company: SCS	Date/Time: 6-12-25/1400	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 6-12-25 1666

Form No. CA-C-WI-002, Rev. 4.23, dated 4/16/2019

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Phone 319-277-2401 Fax 319-277-2425

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Miller, Samuel	Carrier Tracking No(s): N/A	COC No: 310-83992 1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Samuel Miller@et.eurofinsus com	State of Origin: Iowa	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): State Program - Iowa		Job #: 310-308642-1
Address: 18410 Crossing Drive, Suite E	Due Date Requested: 6/25/2025			Preservation Codes:
City: Tinley Park	TAT Requested (days): N/A			
State Zip: IL, 60487				
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: NWIA - Spring 2025 - HMSP	Project #: 31002030			
Site: N/A	SSOW#: N/A			Other: N/A

310-308642 COC

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9034_Calc/9030B	8151A/8151A_AP_LVI Default List	9060A/ TOC Duplicates	Total Number of containers	Special Instructions/Note:
			Preservation Code								
DG-1005 (310-308642-9)	6/10/25	10 44 Central	G	Water			X	X		3	
DGP-1500 (310-308642-18)	6/11/25	14 06 Central	G	Water			X	X	X	3	

Note Since laboratory accreditations are subject to change Eurofins Environment Testing North Central, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing North Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing North Central LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central LLC

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III, IV, Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	6/13/25 1229		Stephanie Hernandez	6/14/25 1045	EETA
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 0.6+1.2

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-308642-1
SDG Number: NWIA Sanitary Landfill

Login Number: 308642
List Number: 1
Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-308642-1
SDG Number: NWIA Sanitary Landfill

Login Number: 308642
List Number: 2
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago
List Creation: 06/14/25 01:07 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	1.2
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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/19/2025 4:08:22 PM

JOB DESCRIPTION

NWIA - Spring 2025 - HMSP
DGP-1500 - Arsenic Speciation

JOB NUMBER

310-308644-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

my EOL

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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6/19/2025 4:08:22 PM

Authorized for release by
Samuel Miller, Project Management Assistant I
Samuel.Miller@et.eurofinsus.com
(319)595-2008

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Job ID: 310-308644-1 — Eurofins Cedar Falls

Job Narrative
310-308644-1

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 sample was received on 6/12/2025 4:15 PM. Unless otherwise noted below, the sample 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 Semi 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.

Sample Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308644-1
SDG: DGP-1500 - Arsenic Speciation

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-308644-1	DGP-1500	Water	06/11/25 14:06	06/12/25 16:15

Detection Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308644-1
SDG: DGP-1500 - Arsenic Speciation

Client Sample ID: DGP-1500 — Lab Sample ID: 310-308644-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenite	7.78		0.500	0.480	ug/L	10		1632A As III	Total/NA
Inorganic Arsenic	8.81	B	1.50	1.29	ug/L	30		1632A	Total/NA
Arsenite	7.78		0.500	0.480	ug/L	1		1632A As V	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308644-1
SDG: DGP-1500 - Arsenic Speciation

Client Sample ID: DGP-1500
Date Collected: 06/11/25 14:06
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308644-1
Matrix: Water

Method: EPA 1632A As III - Arsenic Speciation by Hydride- Generation Cryo-Trapping GC-AAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenite	**7.78**		0.500	0.480	ug/L			06/17/25 18:02	10

Method: EPA 1632A - Arsenic Speciation by Hydride- Generation Cryo-Trapping GC-AAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Inorganic Arsenic	**8.81**	**B**	1.50	1.29	ug/L			06/18/25 15:43	30

Method: EPA 1632A As V - Arsenic Speciation by Hydride- Generation Cryo-Trapping GC-AAS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenite	**7.78**		0.500	0.480	ug/L			06/18/25 15:43	1
Arsenate	<1.50		1.50	1.29	ug/L			06/18/25 15:43	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308644-1
SDG: DGP-1500 - Arsenic Speciation

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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

Method: 1632A - Arsenic Speciation by Hydride- Generation Cryo-Trapping GC-AAS

Lab Sample ID: MB 350-7444/14
Matrix: Water
Analysis Batch: 7444

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Inorganic Arsenic	0.4507	J	0.500	0.430	ug/L			06/18/25 12:30	10

Lab Sample ID: MB 350-7444/41
Matrix: Water
Analysis Batch: 7444

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Inorganic Arsenic	<0.500		0.500	0.430	ug/L			06/18/25 16:09	10

Lab Sample ID: LCS 350-7444/11
Matrix: Water
Analysis Batch: 7444

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Inorganic Arsenic	5.00	4.814		ug/L		96	50 - 150

Lab Sample ID: LCSD 350-7444/12
Matrix: Water
Analysis Batch: 7444

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Inorganic Arsenic	5.00	4.995		ug/L		100	50 - 150	4	35

Method: 1632A As III - Arsenic Speciation by Hydride- Generation Cryo-Trapping GC-AAS

Lab Sample ID: MB 350-7421/47
Matrix: Water
Analysis Batch: 7421

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenite	<0.500		0.500	0.480	ug/L			06/17/25 15:53	10

Lab Sample ID: LCS 350-7421/48
Matrix: Water
Analysis Batch: 7421

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenite	2.50	2.904		ug/L		116	30 - 170

Lab Sample ID: LCSD 350-7421/49
Matrix: Water
Analysis Batch: 7421

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenite	2.50	2.919		ug/L		117	30 - 170	1	35

QC Association Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308644-1
SDG: DGP-1500 - Arsenic Speciation

GC Semi VOA

Analysis Batch: 7421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308644-1	DGP-1500	Total/NA	Water	1632A As III	
MB 350-7421/47	Method Blank	Total/NA	Water	1632A As III	
LCS 350-7421/48	Lab Control Sample	Total/NA	Water	1632A As III	
LCSD 350-7421/49	Lab Control Sample Dup	Total/NA	Water	1632A As III	

Analysis Batch: 7444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308644-1	DGP-1500	Total/NA	Water	1632A	
MB 350-7444/14	Method Blank	Total/NA	Water	1632A	
MB 350-7444/41	Method Blank	Total/NA	Water	1632A	
LCS 350-7444/11	Lab Control Sample	Total/NA	Water	1632A	
LCSD 350-7444/12	Lab Control Sample Dup	Total/NA	Water	1632A	

Metals

Analysis Batch: 7490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308644-1	DGP-1500	Total/NA	Water	1632A As V	

Lab Chronicle

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308644-1
SDG: DGP-1500 - Arsenic Speciation

Client Sample ID: DGP-1500

Date Collected: 06/11/25 14:06
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308644-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1632A		30	7444	AJD	EET SSM	06/18/25 15:43
Total/NA	Analysis	1632A As III		10	7421	AJD	EET SSM	06/17/25 18:02
Total/NA	Analysis	1632A As V		1	7490	V1R	EET SSM	06/18/25 15:43

Laboratory References:

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 310-308644-1
Project/Site: NWIA - Spring 2025 - HMSP
SDG: DGP-1500 - Arsenic Speciation

Laboratory: Eurofins Seattle Specialty Metals

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-004	02-19-27
ANAB	Dept. of Defense ELAP	L2236	01-19-27
ANAB	Dept. of Energy	L2236.01	01-19-27
ANAB	ISO/IEC 17025	L2236	01-19-27
California	State	2954	07-08-26
Florida	NELAP	E87575	06-30-25
Louisiana (All)	NELAP	03073	06-30-25
Maine	State	WA01273	05-02-26
New Jersey	NELAP	WA014	06-30-25
New York	NELAP	11662	04-01-26
Oregon	NELAP	4167-008	07-07-25
US Fish & Wildlife	US Federal Programs	A20571	06-30-25
USDA	US Federal Programs	525-23-4-22573	01-24-28
Washington	State	C788-23a	07-13-25
Wisconsin	State	399133460	07-31-25

Method Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308644-1
SDG: DGP-1500 - Arsenic Speciation

Method	Method Description	Protocol	Laboratory
1632A	Arsenic Speciation by Hydride- Generation Cryo-Trapping GC-AAS	EPA	EET SSM
1632A As III	Arsenic Speciation by Hydride- Generation Cryo-Trapping GC-AAS	EPA	EET SSM
1632A As V	Arsenic Speciation by Hydride- Generation Cryo-Trapping GC-AAS	EPA	EET SSM

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET SSM = Eurofins Seattle Specialty Metals, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

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310-308644 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS Engineers

City/State: CITY | STATE IA | Project:

Receipt Information

Date/Time Received: DATE 6-12-25 | TIME 1615 | Received By: EH

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? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other _____ ☐ NONE

Thermometer ID: 2 | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 2.6 | Corrected Temp (°C): 2.6

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
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

Did not include COC

No ID on ~~bottle~~ bottle.

Bottle Order Information

Bottle Order	*NWIA - Spring 2025 Arsenic Speciation*
Bottle Order #	*28385*
Request From Client	*5/9/2025*
Date Order Posted	*5/8/2025 12 50 17PM*
Order Status	*Ready To Process*
Prepared By	*Samuel Miller*
Deliver By Date:	***5/16/2025 11:59:00PM***
Lab Project Number	*31002030*
PWSID	

Order Completion Information

Creator	*Samuel Miller*
Filled by	
Sent Date	
Sent Via	
Tracking #	

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot #
1	1	1	Plastic 250mL - with Hydrochloric Acid	Hydrochloric Acid	1632A_OF - Arsenic Speciation	Water	Normal	Arsenic Speciation	0305701K

Total Bottle Summary

Bottle Type Description	Preservative	Bottle Count
Normal		**1**
Plastic 250mL - with Hydrochloric Acid	Hydrochloric Acid	1
	Total Bottles	**1**

Notes to Field Staff:

Scan QR code for field sampler instructions

Health and Safety Notes:

Preservative	Comment
Hydrochloric Acid	CAUTION! CONTAINS 1 1 HYDROCHLORIC ACID Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water

6-12-25 1615

Relinquished By	Company	Date	Time	Received By	Company	Seal #:
Tom Roth	SCS	6-12-25	14:06			Seal #: Seal #:
Relinquished By	Company	Date	Time	Received By	Company	Seal #: Seal #: Seal #:

Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Phone: 319-277-2401 Fax: 319-277-2425

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Miller, Samuel	Carrier Tracking No(s): N/A	COC No: 310-83985.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Samuel.Miller@et.eurofinsus.com	State of Origin: Iowa	Page: Page 1 of 1
Company: Eurofins Environment Testing Northwest L		Accreditations Required (See note): State Program - Iowa		Job #: 310-308644-1
Address: 5755 8th Street East, ,	Due Date Requested: 6/25/2025			
City: Tacoma	TAT Requested (days): N/A			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: NWIA - Spring 2025 - HMSP	Project #: 31002030			
Site: N/A	SSOW#: N/A			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1632A_OF/ Inorganic Arsenic in Water	1632A_AsIII_OF/ Arsenite in Water	1632A_As_V_Calc/ Arsenic Speciation in Waters	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DGP-1500 (310-308644-1)	6/11/25	14:06 Central	G	Water			X	X	X	1	

Preservation Codes: -

Other: N/A

Styrofoam

Therm. ID: SC0__ Cust. Seal: (Y) / N
Uncorr./Corr. Temp: 0.2 / 6.1 °C
Delivery: UPS / FedEx / Other: ____
Ice Type: Blue / Dry / (Wet) / None
Label Ver.: ____ Packing: B

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	JVL	6/13/25 1200			6/14/25 9:45	ELN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-308644-1
SDG Number: DGP-1500 - Arsenic Speciation

Login Number: 308644
List Number: 1
Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
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.	False	
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	N/A	
Is the Field Sampler's name present on COC?	N/A	
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.	False	No date or time on COC or sample containers
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-308644-1
SDG Number: DGP-1500 - Arsenic Speciation

Login Number: 308644
List Number: 2
Creator: Miller, Darren R

List Source: Eurofins Seattle Specialty Metals
List Creation: 06/16/25 11:38 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/24/2025 1:09:09 PM

JOB DESCRIPTION

NWIA - Spring 2025 - HMSP
NWIA Sanitary Landfill

JOB NUMBER

310-308645-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

myEOL

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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6/24/2025 1:09:09 PM

Authorized for release by
Samuel Miller, Project Management Assistant I
Samuel.Miller@et.eurofinsus.com
(319)595-2008

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Job ID: 310-308645-1 Eurofins Cedar Falls

Job Narrative
310-308645-1

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 sample was received on 6/12/2025 4:15 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.1°C.

HPLC/IC
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.

Sample Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308645-1
SDG: NWIA Sanitary Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-308645-1	MW-P1	Water	06/10/25 09:24	06/12/25 16:15

Detection Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308645-1
SDG: NWIA Sanitary Landfill

Client Sample ID: MW-P1

Lab Sample ID: 310-308645-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.97		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	214		5.00	2.10	mg/L	5		9056A	Total/NA
Calcium	123		1.00	0.170	mg/L	1		6010D	Total/NA
Magnesium	40.7		1.00	0.120	mg/L	1		6010D	Total/NA
Potassium	3.31		2.00	1.10	mg/L	1		6010D	Total/NA
Sodium	14.7		2.00	1.00	mg/L	1		6010D	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	295		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	295		5.00	2.50	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-P1
Date Collected: 06/10/25 09:24
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308645-1
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.97		5.00	2.25	mg/L			06/19/25 13:05	5
Sulfate	214		5.00	2.10	mg/L			06/19/25 13:05	5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	123		1.00	0.170	mg/L		06/23/25 09:00	06/23/25 15:58	1
Magnesium	40.7		1.00	0.120	mg/L		06/23/25 09:00	06/23/25 15:58	1
Potassium	3.31		2.00	1.10	mg/L		06/23/25 09:00	06/23/25 15:58	1
Sodium	14.7		2.00	1.00	mg/L		06/23/25 09:00	06/23/25 15:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	295		5.00	2.50	mg/L			06/14/25 18:30	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	295		5.00	2.50	mg/L			06/14/25 18:30	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			06/14/25 18:30	1

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

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-458306/3
Matrix: Water
Analysis Batch: 458306

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.00		1.00	0.450	mg/L			06/19/25 10:54	1
Sulfate	<1.00		1.00	0.420	mg/L			06/19/25 10:54	1

Lab Sample ID: LCS 310-458306/4
Matrix: Water
Analysis Batch: 458306

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.11		mg/L		101	90 - 110
Sulfate	10.0	10.24		mg/L		102	90 - 110

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 310-458352/1-A
Matrix: Water
Analysis Batch: 458535

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 458352

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<1.00		1.00	0.170	mg/L		06/23/25 09:00	06/23/25 15:29	1
Magnesium	<1.00		1.00	0.120	mg/L		06/23/25 09:00	06/23/25 15:29	1
Potassium	<2.00		2.00	1.10	mg/L		06/23/25 09:00	06/23/25 15:29	1
Sodium	<2.00		2.00	1.00	mg/L		06/23/25 09:00	06/23/25 15:29	1

Lab Sample ID: LCS 310-458352/2-A
Matrix: Water
Analysis Batch: 458535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 458352

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	20.0	18.47		mg/L		92	80 - 120
Magnesium	20.0	18.32		mg/L		92	80 - 120
Potassium	20.0	19.77		mg/L		99	80 - 120
Sodium	20.0	19.74		mg/L		99	80 - 120

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 310-457671/25
Matrix: Water
Analysis Batch: 457671

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	1000	1025		mg/L		103	85 - 115

QC Association Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308645-1
SDG: NWIA Sanitary Landfill

HPLC/IC

Analysis Batch: 458306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308645-1	MW-P1	Total/NA	Water	9056A	
MB 310-458306/3	Method Blank	Total/NA	Water	9056A	
LCS 310-458306/4	Lab Control Sample	Total/NA	Water	9056A	

Metals

Prep Batch: 458352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308645-1	MW-P1	Total/NA	Water	3005A	
MB 310-458352/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-458352/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 458535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308645-1	MW-P1	Total/NA	Water	6010D	458352
MB 310-458352/1-A	Method Blank	Total/NA	Water	6010D	458352
LCS 310-458352/2-A	Lab Control Sample	Total/NA	Water	6010D	458352

General Chemistry

Analysis Batch: 457671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308645-1	MW-P1	Total/NA	Water	SM 2320B	
LCS 310-457671/25	Lab Control Sample	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308645-1
SDG: NWIA Sanitary Landfill

Client Sample ID: MW-P1
Date Collected: 06/10/25 09:24
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308645-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	458306	QTZ5	EET CF	06/19/25 13:05
Total/NA	Prep	3005A			458352	WK2X	EET CF	06/23/25 09:00
Total/NA	Analysis	6010D		1	458535	ZRI4	EET CF	06/23/25 15:58
Total/NA	Analysis	SM 2320B		1	457671	T5AC	EET CF	06/14/25 18:30

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: NWIA - Spring 2025 - HMSP

Job ID: 310-308645-1
SDG: NWIA Sanitary Landfill

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

Method Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308645-1
SDG: NWIA Sanitary Landfill

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	EET CF
6010D	Metals (ICP)	SW846	EET CF
SM 2320B	Alkalinity	SM	EET CF
3005A	Preparation, Total Metals	SW846	EET CF

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

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

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310-308645 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client. SCS Engineers

City/State: CITY | STATE | Project.

Receipt Information

Date/Time Received: DATE 6-12-25 | TIME 1615 | Received By: EH

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? ↓

Temperature Record

Coolant. ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID. 2 | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 0.1 | Corrected Temp (°C): 0.1

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
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

Eurofins TestAmerica, Cedar Falls
3019 Venture Way
#REF!
#REF!
#REF!

EUROFINS
DES MOINES SERVICE CENTER
214

Chain of Custody Record

eurofins

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other

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

Client Contact	Project Manager: Sean Marczewski	Site Contact: Brent Kach	Date:	COC No:
SCS Engineers	Email smarczweski@scsengineers.com	Lab Contact: Sam Miller	Carrier:	_____ of _____ COCs
1690 All-State Court, Suite 100	Cell 712-661-9682			Sampler:
West Des Moines, IA 50263	**Analysis Turnaround Time**			**For Lab Use Only:**
	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client:
	Other:_____			Lab Sampling
Project Name: NWIA - Spring 2025 - HMSP	☐ 2 weeks			
Site: NWIA Sanitary Landfill	☐ 1 week			Job / SDG No
P O # 27223095 25	☐ 2 days			
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Geochemical Parameters	Sample Specific Notes:
MW-P1	6-10-25	0924	G	H2O				X	

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Geochemical Parameters: Bicarbonate, Carbonate, Calcium, Magnesium, Potassium, Chloride, Sodium, and Sulfate

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No		Cooler Temp. (°C) Obs'd._____ Corr'd _____		Therm ID No. _____
Relinquished by: Homer Roth	Company: SCS	Date/Time: 6-12-25/1400	Received by:	Company:	Date/Time.
Relinquished by:	Company:	Date/Time	Received by:	Company:	Date/Time.
Relinquished by:	Company:	Date/Time.	Received in Laboratory by:	Company:	Date/Time. ~~6-13-25~~ 1615

Form No. CA-C-WI-002, Rev. 4.23, dated 4/16/2019

6-12-25

6/24/2025

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-308645-1
SDG Number: NWIA Sanitary Landfill

Login Number: 308645
List Number: 1
Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/23/2025 12:08:23 AM

JOB DESCRIPTION

NWIA - Spring 2025 - HMSP
NWIA Sanitary Landfill

JOB NUMBER

310-308648-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

my EOL

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
Samuel.Miller@et.eurofinsus.com
(319)595-2008

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Job ID: 310-308648-1 Eurofins Cedar Falls

Job Narrative
310-308648-1

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 6/12/2025 4:15 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 -0.4°C.

GC/MS VOA
Method 8260D: The method blank for analytical batch 457723 contained Trichloroethene above the method detection limit (MDL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

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

Sample Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308648-1
SDG: NWIA Sanitary Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-308648-1	MW-15	Water	06/10/25 17:43	06/12/25 16:15
310-308648-2	MW-16	Water	06/10/25 16:19	06/12/25 16:15
310-308648-3	MW-17	Water	06/10/25 17:10	06/12/25 16:15
310-308648-4	MW-18	Water	06/10/25 18:04	06/12/25 16:15
310-308648-5	ORG-MW	Water	06/10/25 16:48	06/12/25 16:15
310-308648-6	Trip Blank	Water	06/10/25 00:00	06/12/25 16:15

Detection Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308648-1
SDG: NWIA Sanitary Landfill

Client Sample ID: MW-15 — Lab Sample ID: 310-308648-1

No Detections.

Client Sample ID: MW-16 — Lab Sample ID: 310-308648-2

No Detections.

Client Sample ID: MW-17 — Lab Sample ID: 310-308648-3

No Detections.

Client Sample ID: MW-18 — Lab Sample ID: 310-308648-4

No Detections.

Client Sample ID: ORG-MW — Lab Sample ID: 310-308648-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1.43		1.00	0.430	ug/L	1		8260D	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 310-308648-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308648-1
SDG: NWIA Sanitary Landfill

Client Sample ID: MW-15
Date Collected: 06/10/25 17:43
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308648-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.00		1.00	0.430	ug/L			06/16/25 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*76 - 130*		*06/16/25 17:12*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/16/25 17:12*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/16/25 17:12*	*1*

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308648-1
SDG: NWIA Sanitary Landfill

Client Sample ID: MW-16
Date Collected: 06/10/25 16:19
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308648-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.00		1.00	0.430	ug/L			06/14/25 04:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*76 - 130*		*06/14/25 04:56*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*06/14/25 04:56*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/14/25 04:56*	*1*

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308648-1
SDG: NWIA Sanitary Landfill

Client Sample ID: MW-17
Date Collected: 06/10/25 17:10
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308648-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.00		1.00	0.430	ug/L			06/14/25 05:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*76 - 130*		*06/14/25 05:19*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*06/14/25 05:19*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*06/14/25 05:19*	*1*

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308648-1
SDG: NWIA Sanitary Landfill

Client Sample ID: MW-18
Date Collected: 06/10/25 18:04
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308648-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.00		1.00	0.430	ug/L			06/14/25 05:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*76 - 130*		*06/14/25 05:42*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*06/14/25 05:42*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/14/25 05:42*	*1*

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308648-1
SDG: NWIA Sanitary Landfill

Client Sample ID: ORG-MW
Date Collected: 06/10/25 16:48
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308648-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.43		1.00	0.430	ug/L			06/14/25 06:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*76 - 130*		*06/14/25 06:05*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*06/14/25 06:05*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/14/25 06:05*	*1*

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308648-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Trip Blank
Date Collected: 06/10/25 00:00
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308648-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.00		1.00	0.430	ug/L			06/14/25 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*76 - 130*		*06/14/25 00:45*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*06/14/25 00:45*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*06/14/25 00:45*	*1*

Definitions/Glossary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308648-1
SDG: NWIA Sanitary Landfill

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.

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: NWIA - Spring 2025 - HMSP

Job ID: 310-308648-1
SDG: NWIA Sanitary Landfill

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		DBFM	TOL	BFB						
Lab Sample ID	Client Sample ID	(76-130)	(80-120)	(80-120)						
310-308648-1	MW-15	103	98	102						
310-308648-2	MW-16	106	106	102						
310-308648-3	MW-17	108	105	103						
310-308648-4	MW-18	106	106	100						
310-308648-5	ORG-MW	106	106	102						
310-308648-6	Trip Blank	105	106	104						
LCS 310-457548/6	Lab Control Sample	99	108	100						
LCS 310-457723/6	Lab Control Sample	97	106	96						
MB 310-457548/5	Method Blank	104	107	102						
MB 310-457723/5	Method Blank	101	99	99						

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

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

Lab Sample ID: MB 310-457548/5
Matrix: Water
Analysis Batch: 457548

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.00		1.00	0.430	ug/L			06/13/25 21:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*76 - 130*		*06/13/25 21:42*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*06/13/25 21:42*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/13/25 21:42*	*1*

Lab Sample ID: LCS 310-457548/6
Matrix: Water
Analysis Batch: 457548

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Trichloroethene			20.0	17.83		ug/L		89	70 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*76 - 130*
Toluene-d8 (Surr)	*108*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Lab Sample ID: MB 310-457723/5
Matrix: Water
Analysis Batch: 457723

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.4361	J	1.00	0.430	ug/L			06/16/25 13:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*76 - 130*		*06/16/25 13:08*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/16/25 13:08*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/16/25 13:08*	*1*

Lab Sample ID: LCS 310-457723/6
Matrix: Water
Analysis Batch: 457723

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Trichloroethene			20.0	21.74		ug/L		109	70 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*76 - 130*
Toluene-d8 (Surr)	*106*		*80 - 120*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*

QC Association Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308648-1
SDG: NWIA Sanitary Landfill

GC/MS VOA

Analysis Batch: 457548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308648-2	MW-16	Total/NA	Water	8260D	
310-308648-3	MW-17	Total/NA	Water	8260D	
310-308648-4	MW-18	Total/NA	Water	8260D	
310-308648-5	ORG-MW	Total/NA	Water	8260D	
310-308648-6	Trip Blank	Total/NA	Water	8260D	
MB 310-457548/5	Method Blank	Total/NA	Water	8260D	
LCS 310-457548/6	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 457723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-308648-1	MW-15	Total/NA	Water	8260D	
MB 310-457723/5	Method Blank	Total/NA	Water	8260D	
LCS 310-457723/6	Lab Control Sample	Total/NA	Water	8260D	

Lab Chronicle

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308648-1
SDG: NWIA Sanitary Landfill

Client Sample ID: MW-15
Date Collected: 06/10/25 17:43
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308648-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457723	FE5V	EET CF	06/16/25 17:12

Client Sample ID: MW-16
Date Collected: 06/10/25 16:19
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308648-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457548	FE5V	EET CF	06/14/25 04:56

Client Sample ID: MW-17
Date Collected: 06/10/25 17:10
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308648-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457548	FE5V	EET CF	06/14/25 05:19

Client Sample ID: MW-18
Date Collected: 06/10/25 18:04
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308648-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457548	FE5V	EET CF	06/14/25 05:42

Client Sample ID: ORG-MW
Date Collected: 06/10/25 16:48
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308648-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457548	FE5V	EET CF	06/14/25 06:05

Client Sample ID: Trip Blank
Date Collected: 06/10/25 00:00
Date Received: 06/12/25 16:15

Lab Sample ID: 310-308648-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	457548	FE5V	EET CF	06/14/25 00:45

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: NWIA - Spring 2025 - HMSP

Job ID: 310-308648-1
SDG: NWIA Sanitary Landfill

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

Method Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-308648-1
SDG: NWIA Sanitary Landfill

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	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.

Laboratory References:

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

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310-308648 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS Engineers

City/State: CITY | STATE | Project.

Receipt Information

Date/Time Received: DATE 6-12-25 | TIME 1615 | Received By: EM

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? ↓

ALL

Temperature Record

Coolant ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE

Thermometer ID: 2 | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): -0.4 | Corrected Temp (°C): -0.4

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
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

Eurofins TestAmerica, Cedar Falls
3019 Venture Way
#REF!
#REF!
#REF!

EUROFINS
DES MOINES SERVICE CENTER
214

Chain of Custody Record

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Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

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

Client Contact	Project Manager: Sean Marczewski	Site Contact: Brent Kach	Date:	COC No
SCS Engineers	Email smarczweski@scsengineers.com	Lab Contact: Sam Miller	Carrier:	_____ of _____ COCs
1690 All-State Court, Suite 100	Cell 712-661-9682			Sampler
West Des Moines, IA 50263	**Analysis Turnaround Time**			**For Lab Use Only:**
	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client:
	Other:_____			Lab Sampling
Project Name. NWIA - Spring 2025 - HMSP	☐ 2 weeks			
Site. NWIA Sanitary Landfill	☐ 1 week			Job / SDG No
P O # 27223095 25	☐ 2 days			
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Trichloroethene	Trip Blank	Sample Specific Notes.
MW-15	6-10-25	1743	G	H_2O				X		
MW-16	6-10-25	1619	G	H_2O				X		
MW-17	6-10-25	1710	G	H_2O				X		
MW-18	6-10-25	1804	G	H_2O				X		
ORG-MW	6-10-25	1648	G	H_2O				X		
Trip Blank									X	Please include trip blanks in every cooler containing VOC samples

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.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp (°C) Obs'd _____ Corr'd._____		Therm ID No. _____
Relinquished by: Kara Roth	Company: SCS	Date/Time: 6-12-25/1700	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 6-12-25 1615

Form No. CA-C-WI-002, Rev. 4.23, dated 4/16/2019

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-308648-1
SDG Number: NWIA Sanitary Landfill

Login Number: 308648
List Number: 1
Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/4/2025 8:42:45 AM

JOB DESCRIPTION

NWIA - Spring 2025 - HMSP
NWIA Sanitary Landfill

JOB NUMBER

310-321192-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

my EOL

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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12/4/2025 8:42:45 AM

Authorized for release by
Samuel Miller, Project Management Assistant I
Samuel.Miller@et.eurofinsus.com
(319)595-2008

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Job Narrative
310-321192-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The sample was received on 11/21/2025 4:20 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.7°C.

HPLC/IC
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.

Sample Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321192-1
SDG: NWIA Sanitary Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
310-321192-1	MW-P1	Water	11/18/25 13:55	11/21/25 16:20	Iowa

Detection Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321192-1
SDG: NWIA Sanitary Landfill

Client Sample ID: MW-P1

Lab Sample ID: 310-321192-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.42		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	206		5.00	2.10	mg/L	5		9056A	Total/NA
Calcium	107		1.00	0.170	mg/L	1		6010D	Total/NA
Magnesium	39.5		1.00	0.120	mg/L	1		6010D	Total/NA
Potassium	3.24		2.00	1.10	mg/L	1		6010D	Total/NA
Sodium	13.5		2.00	1.00	mg/L	1		6010D	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	292		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	292		5.00	2.50	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321192-1
SDG: NWIA Sanitary Landfill

Client Sample ID: MW-P1
Date Collected: 11/18/25 13:55
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321192-1
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.42		5.00	2.25	mg/L			12/03/25 11:40	5
Sulfate	206		5.00	2.10	mg/L			12/03/25 11:40	5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	107		1.00	0.170	mg/L		12/01/25 08:30	12/02/25 10:56	1
Magnesium	39.5		1.00	0.120	mg/L		12/01/25 08:30	12/02/25 10:56	1
Potassium	3.24		2.00	1.10	mg/L		12/01/25 08:30	12/02/25 10:56	1
Sodium	13.5		2.00	1.00	mg/L		12/01/25 08:30	12/02/25 10:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	292		5.00	2.50	mg/L			11/24/25 20:44	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	292		5.00	2.50	mg/L			11/24/25 20:44	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			11/24/25 20:44	1

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

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-475457/3
Matrix: Water
Analysis Batch: 475457

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.00		1.00	0.450	mg/L			12/03/25 07:53	1
Sulfate	<1.00		1.00	0.420	mg/L			12/03/25 07:53	1

Lab Sample ID: LCS 310-475457/4
Matrix: Water
Analysis Batch: 475457

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.557		mg/L		96	90 - 110
Sulfate	10.0	9.968		mg/L		100	90 - 110

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 310-475034/1-A
Matrix: Water
Analysis Batch: 475316

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 475034

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<1.00		1.00	0.170	mg/L		12/01/25 08:30	12/02/25 10:42	1
Magnesium	<1.00		1.00	0.120	mg/L		12/01/25 08:30	12/02/25 10:42	1
Potassium	<2.00		2.00	1.10	mg/L		12/01/25 08:30	12/02/25 10:42	1
Sodium	<2.00		2.00	1.00	mg/L		12/01/25 08:30	12/02/25 10:42	1

Lab Sample ID: LCS 310-475034/2-A
Matrix: Water
Analysis Batch: 475316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 475034

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	20.0	16.92		mg/L		85	80 - 120
Magnesium	20.0	17.68		mg/L		88	80 - 120
Potassium	20.0	18.34		mg/L		92	80 - 120
Sodium	20.0	18.53		mg/L		93	80 - 120

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 310-474812/25
Matrix: Water
Analysis Batch: 474812

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	1000	968.0		mg/L		97	85 - 115

QC Association Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321192-1
SDG: NWIA Sanitary Landfill

HPLC/IC

Analysis Batch: 475457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321192-1	MW-P1	Total/NA	Water	9056A	
MB 310-475457/3	Method Blank	Total/NA	Water	9056A	
LCS 310-475457/4	Lab Control Sample	Total/NA	Water	9056A	

Metals

Prep Batch: 475034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321192-1	MW-P1	Total/NA	Water	3005A	
MB 310-475034/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-475034/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 475316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321192-1	MW-P1	Total/NA	Water	6010D	475034
MB 310-475034/1-A	Method Blank	Total/NA	Water	6010D	475034
LCS 310-475034/2-A	Lab Control Sample	Total/NA	Water	6010D	475034

General Chemistry

Analysis Batch: 474812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321192-1	MW-P1	Total/NA	Water	SM 2320B	
LCS 310-474812/25	Lab Control Sample	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321192-1
SDG: NWIA Sanitary Landfill

Client Sample ID: MW-P1
Date Collected: 11/18/25 13:55
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321192-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	475457	HE7K	EET CF	12/03/25 11:40
Total/NA	Prep	3005A			475034	RLT9	EET CF	12/01/25 08:30
Total/NA	Analysis	6010D		1	475316	ZRI4	EET CF	12/02/25 10:56
Total/NA	Analysis	SM 2320B		1	474812	T5AC	EET CF	11/24/25 20:44

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: NWIA - Spring 2025 - HMSP

Job ID: 310-321192-1
SDG: NWIA Sanitary Landfill

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 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321192-1
SDG: NWIA Sanitary Landfill

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	EET CF
6010D	Metals (ICP)	SW846	EET CF
SM 2320B	Alkalinity	SM	EET CF
3005A	Preparation, Total Metals	SW846	EET CF

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

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

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310-321192 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY | STATE | Project

Receipt Information

Date/Time Received: DATE 12/2/25 | TIME 1620 | Received By: [signature]

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? ↓

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE

Thermometer ID: B5 | Correction Factor (°C): 0

• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.7 | Corrected Temp (°C): 1.7

• Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used.		
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

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Cedar Falls, IA 50613-6907
phone 319.277.2401 fax 319.277.2425

DES MOINES SERVICE CENTER
214

Chain of Custody Record

eurofins Environment Testing TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

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

Client Contact	**Project Manager: Sean Marczewski**	**Site Contact: Brent Kach**	**Date:**	COC No
SCS Engineers	Email smarczweski@scsengineers.com	**Lab Contact: Sam Miller**	**Carrier:**	_____ of _____ COCs
1690 All-State Court, Suite 100	Cell 712-661-9682			Sampler
West Des Moines, IA 50263	**Analysis Turnaround Time**			**For Lab Use Only:**
	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client:
	Other:_____			Lab Sampling
Project Name NWIA - Spring 2025 - HMSP	☐ 2 weeks			
Site NWIA Sanitary Landfill	☐ 1 week			Job / SDG No
P O # 27223095 25	☐ 2 days			
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Geochemical Parameters	Sample Specific Notes
MW-P1	11-18-25	1355	G	W				X	

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

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Geochemical Parameters: Bicarbonate, Carbonate, Calcium, Magnesium, Potassium, Chloride, Sodium, and Sulfate

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Kevin Roth	SCS	11-21-25/1200			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
					11/25/25 1620

Form No. CA-C-WI-002, Rev. 4.23, dated 4/16/2019

12/4/2025

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-321192-1
SDG Number: NWIA Sanitary Landfill

Login Number: 321192
List Number: 1
Creator: Robison, Jessie

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/12/2025 10:04:39 AM

JOB DESCRIPTION

NWIA - Spring 2025 - HMSP
NWIA Sanitary Landfill

JOB NUMBER

310-321193-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

myEOL

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
Samuel.Miller@et.eurofinsus.com
(319)595-2008

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Job ID: 310-321193-1 — Eurofins Cedar Falls

Job Narrative
310-321193-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 11/21/2025 4:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 1.3°C, 1.9°C, 2.3°C, 3.3°C and 3.8°C.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 310-474612 recovered above the upper control limit for Carbon tetrachloride (26%D). The LCS associated with this CCV passed CCV criteria for the affected analyte; therefore, the data have been reported. The associated sample is:(CCV 310-474612/3).

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-474672 recovered above the upper control limit for Carbon tetrachloride (28%D). The LCS associated with this CCV passed CCV criteria for the affected analyte; therefore, the data have been reported. The associated sample is:(CCV 310-474672/3).

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-474771 recovered above the upper control limit for Carbon tetrachloride (22%D). The LCS associated with this CCV passed CCV criteria for the affected analyte; therefore, the data have been reported. The associated sample is:(CCV 310-474771/3).

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

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

HPLC/IC
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.

Job Narrative
310-321193-2

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 11/21/2025 4:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 1.3°C, 1.9°C, 2.3°C, 3.3°C and 3.8°C.

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

Sample Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
310-321193-1	UG-90	Water	11/20/25 09:45	11/21/25 16:20	Iowa
310-321193-2	UG-201	Water	11/20/25 10:27	11/21/25 16:20	Iowa
310-321193-3	TDG-301	Water	11/18/25 15:46	11/21/25 16:20	Iowa
310-321193-4	TDG-305	Water	11/18/25 15:16	11/21/25 16:20	Iowa
310-321193-5	DG-609	Water	11/20/25 09:02	11/21/25 16:20	Iowa
310-321193-6	DG-901	Water	11/18/25 16:35	11/21/25 16:20	Iowa
310-321193-7	DG-905	Water	11/18/25 14:31	11/21/25 16:20	Iowa
310-321193-8	DG-1001	Water	11/19/25 09:57	11/21/25 16:20	Iowa
310-321193-9	DG-1005	Water	11/19/25 10:38	11/21/25 16:20	Iowa
310-321193-10	MW-D1	Water	11/18/25 15:16	11/21/25 16:20	Iowa
310-321193-11	DG-1101	Water	11/19/25 11:25	11/21/25 16:20	Iowa
310-321193-12	DG-1105R	Water	11/19/25 11:55	11/21/25 16:20	Iowa
310-321193-13	DG-1201	Water	11/19/25 12:43	11/21/25 16:20	Iowa
310-321193-14	DG-1205	Water	11/19/25 13:14	11/21/25 16:20	Iowa
310-321193-15	DG-1301	Water	11/19/25 13:57	11/21/25 16:20	Iowa
310-321193-16	DG-1305	Water	11/19/25 14:55	11/21/25 16:20	Iowa
310-321193-17	DG-1401R	Water	11/19/25 15:31	11/21/25 16:20	Iowa
310-321193-18	DGP-1500	Water	11/20/25 11:28	11/21/25 16:20	Iowa
310-321193-19	MW-D2	Water	11/19/25 12:43	11/21/25 16:20	Iowa
310-321193-20	SW-101	Water	11/20/25 11:45	11/21/25 16:20	Iowa
310-321193-21	Sediment Pond Discharge	Water	11/20/25 11:52	11/21/25 16:20	Iowa
310-321193-22	MW-P7	Water	11/19/25 14:18	11/21/25 16:20	Iowa
310-321193-23	MWP-14	Water	11/19/25 16:04	11/21/25 16:20	Iowa
310-321193-24	MW-D3	Water	11/20/25 11:52	11/21/25 16:20	Iowa
310-321193-25	Trip Blank 1	Water	11/20/25 00:00	11/21/25 16:20	Iowa
310-321193-26	Trip Blank 2	Water	11/20/25 00:00	11/21/25 16:20	Iowa
310-321193-27	Trip Blank 3	Water	11/20/25 00:00	11/21/25 16:20	Iowa
310-321193-28	Trip Blank 4	Water	11/20/25 00:00	11/21/25 16:20	Iowa

Detection Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

Client Sample ID: UG-90 — Lab Sample ID: 310-321193-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.00174	J	0.00200	0.00100	mg/L	1		6020B	Total/NA
Arsenic	0.00123	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0206		0.00200	0.000660	mg/L	1		6020B	Total/NA
Lead	0.00190		0.000500	0.000330	mg/L	1		6020B	Total/NA
Vanadium	0.00224	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	9.75		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: UG-201 — Lab Sample ID: 310-321193-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.000900	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0551		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000126	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.000285	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.00175		0.000500	0.000330	mg/L	1		6020B	Total/NA
Vanadium	0.00201	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Zinc	0.539		0.0200	0.0130	mg/L	1		6020B	Total/NA
Total Suspended Solids	19.5		3.75	2.63	mg/L	1		I-3765-85	Total/NA

Client Sample ID: TDG-301 — Lab Sample ID: 310-321193-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.96	J	10.0	3.80	ug/L	1		8260D	Total/NA
Antimony	0.00199	J	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	0.0213		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000276	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000799		0.000500	0.000330	mg/L	1		6020B	Total/NA
Selenium	0.00246	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Vanadium	0.00236	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	9.38		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: TDG-305 — Lab Sample ID: 310-321193-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00175	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0338		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000149	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.000465	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.00218		0.000500	0.000330	mg/L	1		6020B	Total/NA
Nickel	0.00879		0.00500	0.00230	mg/L	1		6020B	Total/NA
Vanadium	0.00340	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	83.5		3.75	2.63	mg/L	1		I-3765-85	Total/NA

Client Sample ID: DG-609 — Lab Sample ID: 310-321193-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	24.4		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	57.3		5.00	2.10	mg/L	5		9056A	Total/NA
Calcium	96.8		1.00	0.170	mg/L	1		6010D	Total/NA
Magnesium	37.2		1.00	0.120	mg/L	1		6010D	Total/NA
Potassium	1.39	J	2.00	1.10	mg/L	1		6010D	Total/NA
Sodium	13.5		2.00	1.00	mg/L	1		6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-609 (Continued) — Lab Sample ID: 310-321193-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	1.59		1.00	0.500	mg/L	1		9060A	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	344		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	344		5.00	2.50	mg/L	1		SM 2320B	Total/NA

Client Sample ID: DG-901 — Lab Sample ID: 310-321193-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.02		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	306		5.00	2.10	mg/L	5		9056A	Total/NA
Calcium	181		1.00	0.170	mg/L	1		6010D	Total/NA
Magnesium	60.9		1.00	0.120	mg/L	1		6010D	Total/NA
Potassium	3.56		2.00	1.10	mg/L	1		6010D	Total/NA
Sodium	15.5		2.00	1.00	mg/L	1		6010D	Total/NA
Arsenic	0.00851		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0243		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00183		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.00103		0.000500	0.000330	mg/L	1		6020B	Total/NA
Nickel	0.00280	J	0.00500	0.00230	mg/L	1		6020B	Total/NA
Vanadium	0.00282	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	78.2		3.75	2.63	mg/L	1		I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	495		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	495		5.00	2.50	mg/L	1		SM 2320B	Total/NA

Client Sample ID: DG-905 — Lab Sample ID: 310-321193-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.91	J	10.0	3.80	ug/L	1		8260D	Total/NA
Arsenic	0.000882	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0537		0.00200	0.000660	mg/L	1		6020B	Total/NA
Chromium	0.00187	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Cobalt	0.000443	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Vanadium	0.00240	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	9.50		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: DG-1001 — Lab Sample ID: 310-321193-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	280		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	101		5.00	2.10	mg/L	5		9056A	Total/NA
Calcium	172		1.00	0.170	mg/L	1		6010D	Total/NA
Magnesium	74.6		1.00	0.120	mg/L	1		6010D	Total/NA
Potassium	3.07		2.00	1.10	mg/L	1		6010D	Total/NA
Sodium	17.0		2.00	1.00	mg/L	1		6010D	Total/NA
Arsenic	0.000714	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0523		0.00200	0.000660	mg/L	1		6020B	Total/NA
Vanadium	0.00200	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Organic Carbon	1.79		1.00	0.500	mg/L	1		9060A	Total/NA
Total Suspended Solids	2.00		1.88	1.31	mg/L	1		I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	318		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	318		5.00	2.50	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-1005 — Lab Sample ID: 310-321193-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.82		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	121		5.00	2.10	mg/L	5		9056A	Total/NA
Calcium	107		1.00	0.170	mg/L	1		6010D	Total/NA
Magnesium	40.3		1.00	0.120	mg/L	1		6010D	Total/NA
Potassium	2.71		2.00	1.10	mg/L	1		6010D	Total/NA
Sodium	12.3		2.00	1.00	mg/L	1		6010D	Total/NA
Arsenic	0.00174	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0473		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000406	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.00121		0.000500	0.000330	mg/L	1		6020B	Total/NA
Vanadium	0.00946		0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Organic Carbon	1.67		1.00	0.500	mg/L	1		9060A	Total/NA
Total Suspended Solids	85.5		3.75	2.63	mg/L	1		I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	364		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	364		5.00	2.50	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-D1 — Lab Sample ID: 310-321193-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00209		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0357		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000821		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.00165		0.000500	0.000330	mg/L	1		6020B	Total/NA
Nickel	0.00961		0.00500	0.00230	mg/L	1		6020B	Total/NA
Vanadium	0.00325	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Zinc	0.0240		0.0200	0.0130	mg/L	1		6020B	Total/NA
Total Suspended Solids	28.5		3.75	2.63	mg/L	1		I-3765-85	Total/NA

Client Sample ID: DG-1101 — Lab Sample ID: 310-321193-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	40.6		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	261		5.00	2.10	mg/L	5		9056A	Total/NA
Calcium	164		1.00	0.170	mg/L	1		6010D	Total/NA
Magnesium	54.8		1.00	0.120	mg/L	1		6010D	Total/NA
Potassium	2.79		2.00	1.10	mg/L	1		6010D	Total/NA
Sodium	14.4		2.00	1.00	mg/L	1		6010D	Total/NA
Arsenic	0.000990	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0530		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000790		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.00165		0.000500	0.000330	mg/L	1		6020B	Total/NA
Selenium	0.00159	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Vanadium	0.00478	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	67.0		3.75	2.63	mg/L	1		I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	402		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	402		5.00	2.50	mg/L	1		SM 2320B	Total/NA

Client Sample ID: DG-1105R — Lab Sample ID: 310-321193-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.00182	J	0.00200	0.00100	mg/L	1		6020B	Total/NA
Arsenic	0.00454		0.00200	0.000530	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-1105R (Continued) — Lab Sample ID: 310-321193-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0265		0.00200	0.000660	mg/L	1		6020B	Total/NA
Vanadium	0.00203	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	4.13		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: DG-1201 — Lab Sample ID: 310-321193-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.401	J	1.00	0.350	ug/L	1		8260D	Total/NA
Arsenic	0.000970	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0231		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000660		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000890		0.000500	0.000330	mg/L	1		6020B	Total/NA
Vanadium	0.00358	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	30.0		3.75	2.63	mg/L	1		I-3765-85	Total/NA

Client Sample ID: DG-1205 — Lab Sample ID: 310-321193-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.80		1.00	0.400	ug/L	1		8260D	Total/NA
1,2-Dichloropropane	1.11		1.00	0.380	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.578	J	1.00	0.550	ug/L	1		8260D	Total/NA
Dichlorodifluoromethane	5.74		3.00	0.850	ug/L	1		8260D	Total/NA
Arsenic	0.00254		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0120		0.00200	0.000660	mg/L	1		6020B	Total/NA
Copper	0.0109		0.00500	0.00320	mg/L	1		6020B	Total/NA
Lead	0.000609		0.000500	0.000330	mg/L	1		6020B	Total/NA
Vanadium	0.00358	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	5.00		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: DG-1301 — Lab Sample ID: 310-321193-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	12.1		1.00	0.400	ug/L	1		8260D	Total/NA
1,2-Dichloropropane	1.00		1.00	0.380	ug/L	1		8260D	Total/NA
Chloroethane	0.976	J	4.00	0.900	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	31.7		1.00	0.550	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.499	J	1.00	0.480	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.06		1.00	0.410	ug/L	1		8260D	Total/NA
Trichloroethene	5.44		1.00	0.350	ug/L	1		8260D	Total/NA
Arsenic	0.000666	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0389		0.00200	0.000660	mg/L	1		6020B	Total/NA
Chromium	0.00529		0.00500	0.00180	mg/L	1		6020B	Total/NA
Cobalt	0.000285	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Vanadium	0.00216	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.63		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: DG-1305 — Lab Sample ID: 310-321193-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.01		1.00	0.400	ug/L	1		8260D	Total/NA
Chlorobenzene	3.72		1.00	0.350	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	1.35		1.00	0.550	ug/L	1		8260D	Total/NA
Arsenic	0.00144	J	0.00200	0.000530	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DG-1305 (Continued) — Lab Sample ID: 310-321193-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0898		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000275	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.00206		0.000500	0.000330	mg/L	1		6020B	Total/NA
Vanadium	0.00344	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	17.1		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: DG-1401R — Lab Sample ID: 310-321193-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.59		1.00	0.400	ug/L	1		8260D	Total/NA
Arsenic	0.000579	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0438		0.00200	0.000660	mg/L	1		6020B	Total/NA
Vanadium	0.00188	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	15.9		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: DGP-1500 — Lab Sample ID: 310-321193-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.755		0.500	0.220	ug/L	1		8260D	Total/NA
Carbon disulfide	4.03		1.00	0.450	ug/L	1		8260D	Total/NA
Bis(2-ethylhexyl) phthalate	13.5		10.0	5.50	ug/L	1		8270E	Total/NA
Chloride	4.80		1.00	0.450	mg/L	1		9056A	Total/NA
Sulfate	13.5		1.00	0.420	mg/L	1		9056A	Total/NA
Iron	0.382	J	0.500	0.0790	mg/L	1		6010D	Total/NA
Manganese	0.453		0.0100	0.00410	mg/L	1		6010D	Total/NA
Sodium	13.1		2.00	1.00	mg/L	1		6010D	Total/NA
Potassium	2.22		2.00	1.10	mg/L	1		6010D	Total/NA
Calcium	90.7		1.00	0.170	mg/L	1		6010D	Total/NA
Magnesium	25.6		1.00	0.120	mg/L	1		6010D	Total/NA
Arsenic	0.0123		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0499		0.00200	0.000660	mg/L	1		6020B	Total/NA
Chromium	0.00237	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Sulfide	6.23		1.00	0.231	mg/L	1		9034	Total/NA
Total Organic Carbon	21.9		1.00	0.500	mg/L	1		9060A	Total/NA
Total Suspended Solids	17.0		5.00	3.50	mg/L	1		I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	365		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	365		5.00	2.50	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-D2 — Lab Sample ID: 310-321193-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.942	J	1.00	0.350	ug/L	1		8260D	Total/NA
Arsenic	0.000663	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0183		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000537		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000590		0.000500	0.000330	mg/L	1		6020B	Total/NA
Vanadium	0.00219	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	14.3		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: SW-101 — Lab Sample ID: 310-321193-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00171	J	0.00200	0.000530	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SW-101 (Continued) — Lab Sample ID: 310-321193-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.150		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000310	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00240	J	0.00500	0.00230	mg/L	1		6020B	Total/NA
Selenium	0.00234	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Vanadium	0.00211	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	26.7		5.00	3.50	mg/L	1		I-3765-85	Total/NA

Client Sample ID: Sediment Pond Discharge — Lab Sample ID: 310-321193-21

No Detections.

Client Sample ID: MW-P7 — Lab Sample ID: 310-321193-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	3.38		1.00	0.350	ug/L	1		8260D	Total/NA

Client Sample ID: MWP-14 — Lab Sample ID: 310-321193-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12.8		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	39.8		5.00	2.10	mg/L	5		9056A	Total/NA
Calcium	79.6		1.00	0.170	mg/L	1		6010D	Total/NA
Magnesium	25.9		1.00	0.120	mg/L	1		6010D	Total/NA
Potassium	1.61	J	2.00	1.10	mg/L	1		6010D	Total/NA
Sodium	9.71		2.00	1.00	mg/L	1		6010D	Total/NA
Total Organic Carbon	1.22		1.00	0.500	mg/L	1		9060A	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	307		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	307		5.00	2.50	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-D3 — Lab Sample ID: 310-321193-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00181	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.158		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000359	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000389	J	0.000500	0.000330	mg/L	1		6020B	Total/NA
Nickel	0.00247	J	0.00500	0.00230	mg/L	1		6020B	Total/NA
Selenium	0.00238	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Vanadium	0.00234	J	0.00500	0.00170	mg/L	1		6020B	Total/NA
Total Suspended Solids	21.0		3.75	2.63	mg/L	1		I-3765-85	Total/NA

Client Sample ID: Trip Blank 1 — Lab Sample ID: 310-321193-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene chloride	2.16	J	5.00	1.70	ug/L	1		8260D	Total/NA

Client Sample ID: Trip Blank 2 — Lab Sample ID: 310-321193-26

No Detections.

Client Sample ID: Trip Blank 3 — Lab Sample ID: 310-321193-27

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Trip Blank 4

Lab Sample ID: 310-321193-28

No Detections.

This Detection Summary does not include radiochemical test results.

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

Client Sample ID: UG-90
Date Collected: 11/20/25 09:45
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-1
Matrix: Water

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			11/26/25 02:42	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/26/25 02:42	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/26/25 02:42	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/26/25 02:42	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/26/25 02:42	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/26/25 02:42	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/26/25 02:42	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/26/25 02:42	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/26/25 02:42	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/26/25 02:42	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/26/25 02:42	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/26/25 02:42	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/26/25 02:42	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/26/25 02:42	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/26/25 02:42	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/26/25 02:42	1
Acetone	<10.0		10.0	3.80	ug/L			11/26/25 02:42	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/26/25 02:42	1
Benzene	<0.500		0.500	0.220	ug/L			11/26/25 02:42	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/26/25 02:42	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/26/25 02:42	1
Bromoform	<5.00		5.00	2.60	ug/L			11/26/25 02:42	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/26/25 02:42	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/26/25 02:42	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/26/25 02:42	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/26/25 02:42	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/26/25 02:42	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/26/25 02:42	1
Chloroform	<3.00		3.00	1.30	ug/L			11/26/25 02:42	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/26/25 02:42	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/26/25 02:42	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/26/25 02:42	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/26/25 02:42	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/26/25 02:42	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/26/25 02:42	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/26/25 02:42	1
Styrene	<1.00		1.00	0.370	ug/L			11/26/25 02:42	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/26/25 02:42	1
Toluene	<1.00		1.00	0.430	ug/L			11/26/25 02:42	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/26/25 02:42	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/26/25 02:42	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/26/25 02:42	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/26/25 02:42	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/26/25 02:42	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/26/25 02:42	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/26/25 02:42	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/26/25 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*121*		*76 - 130*		*11/26/25 02:42*	*1*

Client Sample ID: UG-90

Date Collected: 11/20/25 09:45
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-1

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*80 - 120*		*11/26/25 02:42*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*11/26/25 02:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00174**	**J**	0.00200	0.00100	mg/L		11/25/25 08:00	12/08/25 18:20	1
Arsenic	**0.00123**	**J**	0.00200	0.000530	mg/L		11/25/25 08:00	12/08/25 18:20	1
Barium	**0.0206**		0.00200	0.000660	mg/L		11/25/25 08:00	12/08/25 18:20	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/25/25 08:00	12/08/25 18:20	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/25/25 08:00	12/08/25 18:20	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/25/25 08:00	12/08/25 18:20	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/25/25 08:00	12/08/25 18:20	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/25/25 08:00	12/08/25 18:20	1
Lead	**0.00190**		0.000500	0.000330	mg/L		11/25/25 08:00	12/08/25 18:20	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/25/25 08:00	12/08/25 18:20	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/25/25 08:00	12/08/25 18:20	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/25/25 08:00	12/08/25 18:20	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/25/25 08:00	12/08/25 18:20	1
Vanadium	**0.00224**	**J**	0.00500	0.00170	mg/L		11/25/25 08:00	12/08/25 18:20	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/25/25 08:00	12/08/25 18:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**9.75**		1.88	1.31	mg/L			11/24/25 11:41	1

Client Sample ID: UG-201

Date Collected: 11/20/25 10:27
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-2

Matrix: Water

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			11/26/25 03:05	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/26/25 03:05	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/26/25 03:05	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/26/25 03:05	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/26/25 03:05	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/26/25 03:05	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/26/25 03:05	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/26/25 03:05	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/26/25 03:05	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/26/25 03:05	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/26/25 03:05	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/26/25 03:05	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/26/25 03:05	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/26/25 03:05	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/26/25 03:05	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/26/25 03:05	1
Acetone	<10.0		10.0	3.80	ug/L			11/26/25 03:05	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/26/25 03:05	1
Benzene	<0.500		0.500	0.220	ug/L			11/26/25 03:05	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/26/25 03:05	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/26/25 03:05	1
Bromoform	<5.00		5.00	2.60	ug/L			11/26/25 03:05	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/26/25 03:05	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/26/25 03:05	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/26/25 03:05	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/26/25 03:05	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/26/25 03:05	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/26/25 03:05	1
Chloroform	<3.00		3.00	1.30	ug/L			11/26/25 03:05	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/26/25 03:05	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/26/25 03:05	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/26/25 03:05	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/26/25 03:05	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/26/25 03:05	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/26/25 03:05	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/26/25 03:05	1
Styrene	<1.00		1.00	0.370	ug/L			11/26/25 03:05	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/26/25 03:05	1
Toluene	<1.00		1.00	0.430	ug/L			11/26/25 03:05	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/26/25 03:05	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/26/25 03:05	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/26/25 03:05	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/26/25 03:05	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/26/25 03:05	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/26/25 03:05	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/26/25 03:05	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/26/25 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*76 - 130*		*11/26/25 03:05*	*1*

Client Sample ID: UG-201
Date Collected: 11/20/25 10:27
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-2
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*11/26/25 03:05*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*11/26/25 03:05*	*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		11/25/25 08:00	12/08/25 18:22	1
Arsenic	**0.000900**	**J**	0.00200	0.000530	mg/L		11/25/25 08:00	12/08/25 18:22	1
Barium	**0.0551**		0.00200	0.000660	mg/L		11/25/25 08:00	12/08/25 18:22	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/25/25 08:00	12/08/25 18:22	1
Cadmium	**0.000126**	**J**	0.000200	0.000100	mg/L		11/25/25 08:00	12/08/25 18:22	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/25/25 08:00	12/08/25 18:22	1
Cobalt	**0.000285**	**J**	0.000500	0.000170	mg/L		11/25/25 08:00	12/08/25 18:22	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/25/25 08:00	12/08/25 18:22	1
Lead	**0.00175**		0.000500	0.000330	mg/L		11/25/25 08:00	12/08/25 18:22	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/25/25 08:00	12/08/25 18:22	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/25/25 08:00	12/08/25 18:22	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/25/25 08:00	12/08/25 18:22	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/25/25 08:00	12/08/25 18:22	1
Vanadium	**0.00201**	**J**	0.00500	0.00170	mg/L		11/25/25 08:00	12/08/25 18:22	1
Zinc	**0.539**		0.0200	0.0130	mg/L		11/25/25 08:00	12/08/25 18:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**19.5**		3.75	2.63	mg/L			11/24/25 11:41	1

Client Sample ID: TDG-301

Date Collected: 11/18/25 15:46
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-3

Matrix: Water

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			11/24/25 17:08	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/24/25 17:08	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/24/25 17:08	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/24/25 17:08	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/24/25 17:08	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/24/25 17:08	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/24/25 17:08	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/24/25 17:08	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/24/25 17:08	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/24/25 17:08	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/24/25 17:08	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/24/25 17:08	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/24/25 17:08	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/24/25 17:08	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/24/25 17:08	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/24/25 17:08	1
Acetone	**3.96**	**J**	10.0	3.80	ug/L			11/24/25 17:08	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/24/25 17:08	1
Benzene	<0.500		0.500	0.220	ug/L			11/24/25 17:08	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/24/25 17:08	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/24/25 17:08	1
Bromoform	<5.00		5.00	2.60	ug/L			11/24/25 17:08	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/24/25 17:08	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/24/25 17:08	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/24/25 17:08	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/24/25 17:08	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/24/25 17:08	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/24/25 17:08	1
Chloroform	<3.00		3.00	1.30	ug/L			11/24/25 17:08	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/24/25 17:08	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/24/25 17:08	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/24/25 17:08	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/24/25 17:08	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/24/25 17:08	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/24/25 17:08	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/24/25 17:08	1
Styrene	<1.00		1.00	0.370	ug/L			11/24/25 17:08	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/24/25 17:08	1
Toluene	<1.00		1.00	0.430	ug/L			11/24/25 17:08	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/24/25 17:08	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/24/25 17:08	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/24/25 17:08	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/24/25 17:08	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/24/25 17:08	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/24/25 17:08	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/24/25 17:08	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/24/25 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*76 - 130*		*11/24/25 17:08*	*1*

Client Sample ID: TDG-301

Date Collected: 11/18/25 15:46
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-3

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*11/24/25 17:08*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*11/24/25 17:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00199**	**J**	0.00200	0.00100	mg/L		11/25/25 08:00	12/08/25 18:31	1
Arsenic	**0.00104**	**J**	0.00200	0.000530	mg/L		11/25/25 08:00	12/08/25 18:31	1
Barium	**0.0213**		0.00200	0.000660	mg/L		11/25/25 08:00	12/08/25 18:31	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/25/25 08:00	12/09/25 17:40	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/25/25 08:00	12/08/25 18:31	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/25/25 08:00	12/08/25 18:31	1
Cobalt	**0.000276**	**J**	0.000500	0.000170	mg/L		11/25/25 08:00	12/08/25 18:31	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/25/25 08:00	12/08/25 18:31	1
Lead	**0.000799**		0.000500	0.000330	mg/L		11/25/25 08:00	12/08/25 18:31	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/25/25 08:00	12/08/25 18:31	1
Selenium	**0.00246**	**J**	0.00500	0.00140	mg/L		11/25/25 08:00	12/08/25 18:31	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/25/25 08:00	12/08/25 18:31	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/25/25 08:00	12/08/25 18:31	1
Vanadium	**0.00236**	**J**	0.00500	0.00170	mg/L		11/25/25 08:00	12/08/25 18:31	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/25/25 08:00	12/08/25 18:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**9.38**		1.88	1.31	mg/L			11/24/25 10:57	1

Client Sample ID: TDG-305

Date Collected: 11/18/25 15:16
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-4

Matrix: Water

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			11/24/25 17:31	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/24/25 17:31	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/24/25 17:31	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/24/25 17:31	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/24/25 17:31	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/24/25 17:31	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/24/25 17:31	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/24/25 17:31	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/24/25 17:31	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/24/25 17:31	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/24/25 17:31	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/24/25 17:31	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/24/25 17:31	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/24/25 17:31	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/24/25 17:31	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/24/25 17:31	1
Acetone	<10.0		10.0	3.80	ug/L			11/24/25 17:31	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/24/25 17:31	1
Benzene	<0.500		0.500	0.220	ug/L			11/24/25 17:31	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/24/25 17:31	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/24/25 17:31	1
Bromoform	<5.00		5.00	2.60	ug/L			11/24/25 17:31	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/24/25 17:31	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/24/25 17:31	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/24/25 17:31	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/24/25 17:31	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/24/25 17:31	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/24/25 17:31	1
Chloroform	<3.00		3.00	1.30	ug/L			11/24/25 17:31	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/24/25 17:31	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/24/25 17:31	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/24/25 17:31	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/24/25 17:31	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/24/25 17:31	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/24/25 17:31	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/24/25 17:31	1
Styrene	<1.00		1.00	0.370	ug/L			11/24/25 17:31	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/24/25 17:31	1
Toluene	<1.00		1.00	0.430	ug/L			11/24/25 17:31	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/24/25 17:31	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/24/25 17:31	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/24/25 17:31	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/24/25 17:31	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/24/25 17:31	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/24/25 17:31	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/24/25 17:31	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/24/25 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*121*		*76 - 130*		*11/24/25 17:31*	*1*

Client Sample ID: TDG-305

Date Collected: 11/18/25 15:16
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-4

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*11/24/25 17:31*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*11/24/25 17:31*	*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		11/25/25 08:00	12/08/25 18:34	1
Arsenic	**0.00175**	**J**	0.00200	0.000530	mg/L		11/25/25 08:00	12/08/25 18:34	1
Barium	**0.0338**		0.00200	0.000660	mg/L		11/25/25 08:00	12/08/25 18:34	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/25/25 08:00	12/09/25 17:43	1
Cadmium	**0.000149**	**J**	0.000200	0.000100	mg/L		11/25/25 08:00	12/08/25 18:34	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/25/25 08:00	12/08/25 18:34	1
Cobalt	**0.000465**	**J**	0.000500	0.000170	mg/L		11/25/25 08:00	12/08/25 18:34	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/25/25 08:00	12/08/25 18:34	1
Lead	**0.00218**		0.000500	0.000330	mg/L		11/25/25 08:00	12/08/25 18:34	1
Nickel	**0.00879**		0.00500	0.00230	mg/L		11/25/25 08:00	12/08/25 18:34	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/25/25 08:00	12/08/25 18:34	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/25/25 08:00	12/08/25 18:34	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/25/25 08:00	12/08/25 18:34	1
Vanadium	**0.00340**	**J**	0.00500	0.00170	mg/L		11/25/25 08:00	12/08/25 18:34	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/25/25 08:00	12/08/25 18:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**83.5**		3.75	2.63	mg/L			11/24/25 10:57	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-609

Date Collected: 11/20/25 09:02
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-5

Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.4		5.00	2.25	mg/L			12/03/25 11:52	5
Sulfate	57.3		5.00	2.10	mg/L			12/03/25 11:52	5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	96.8		1.00	0.170	mg/L		11/25/25 08:00	12/09/25 14:43	1
Magnesium	37.2		1.00	0.120	mg/L		11/25/25 08:00	12/09/25 14:43	1
Potassium	1.39	J	2.00	1.10	mg/L		11/25/25 08:00	12/09/25 14:43	1
Sodium	13.5		2.00	1.00	mg/L		11/25/25 08:00	12/09/25 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SW846 9060A)	1.59		1.00	0.500	mg/L			12/02/25 01:38	1
Total Suspended Solids (USGS I-3765-85)	<5.00		5.00	3.50	mg/L			11/24/25 10:57	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	344		5.00	2.50	mg/L			11/24/25 20:54	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	344		5.00	2.50	mg/L			11/24/25 20:54	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			11/24/25 20:54	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-901
Date Collected: 11/18/25 16:35
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-6
Matrix: Water

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			11/24/25 17:53	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/24/25 17:53	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/24/25 17:53	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/24/25 17:53	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/24/25 17:53	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/24/25 17:53	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/24/25 17:53	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/24/25 17:53	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/24/25 17:53	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/24/25 17:53	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/24/25 17:53	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/24/25 17:53	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/24/25 17:53	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/24/25 17:53	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/24/25 17:53	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/24/25 17:53	1
Acetone	<10.0		10.0	3.80	ug/L			11/24/25 17:53	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/24/25 17:53	1
Benzene	<0.500		0.500	0.220	ug/L			11/24/25 17:53	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/24/25 17:53	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/24/25 17:53	1
Bromoform	<5.00		5.00	2.60	ug/L			11/24/25 17:53	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/24/25 17:53	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/24/25 17:53	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/24/25 17:53	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/24/25 17:53	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/24/25 17:53	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/24/25 17:53	1
Chloroform	<3.00		3.00	1.30	ug/L			11/24/25 17:53	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/24/25 17:53	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/24/25 17:53	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/24/25 17:53	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/24/25 17:53	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/24/25 17:53	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/24/25 17:53	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/24/25 17:53	1
Styrene	<1.00		1.00	0.370	ug/L			11/24/25 17:53	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/24/25 17:53	1
Toluene	<1.00		1.00	0.430	ug/L			11/24/25 17:53	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/24/25 17:53	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/24/25 17:53	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/24/25 17:53	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/24/25 17:53	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/24/25 17:53	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/24/25 17:53	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/24/25 17:53	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/24/25 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*122*		*76 - 130*		*11/24/25 17:53*	*1*

Client Sample ID: DG-901

Date Collected: 11/18/25 16:35
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-6

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*11/24/25 17:53*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*11/24/25 17:53*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.02**		5.00	2.25	mg/L			12/03/25 12:27	5
Sulfate	**306**		5.00	2.10	mg/L			12/03/25 12:27	5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**181**		1.00	0.170	mg/L		12/01/25 08:30	12/02/25 10:57	1
Magnesium	**60.9**		1.00	0.120	mg/L		12/01/25 08:30	12/02/25 10:57	1
Potassium	**3.56**		2.00	1.10	mg/L		12/01/25 08:30	12/02/25 10:57	1
Sodium	**15.5**		2.00	1.00	mg/L		12/01/25 08:30	12/02/25 10:57	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		11/25/25 08:00	12/08/25 18:39	1
Arsenic	**0.00851**		0.00200	0.000530	mg/L		11/25/25 08:00	12/08/25 18:39	1
Barium	**0.0243**		0.00200	0.000660	mg/L		11/25/25 08:00	12/08/25 18:39	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/25/25 08:00	12/09/25 17:48	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/25/25 08:00	12/08/25 18:39	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/25/25 08:00	12/08/25 18:39	1
Cobalt	**0.00183**		0.000500	0.000170	mg/L		11/25/25 08:00	12/08/25 18:39	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/25/25 08:00	12/08/25 18:39	1
Lead	**0.00103**		0.000500	0.000330	mg/L		11/25/25 08:00	12/08/25 18:39	1
Nickel	**0.00280**	**J**	0.00500	0.00230	mg/L		11/25/25 08:00	12/08/25 18:39	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/25/25 08:00	12/08/25 18:39	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/25/25 08:00	12/08/25 18:39	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/25/25 08:00	12/08/25 18:39	1
Vanadium	**0.00282**	**J**	0.00500	0.00170	mg/L		11/25/25 08:00	12/08/25 18:39	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/25/25 08:00	12/08/25 18:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**78.2**		3.75	2.63	mg/L			11/24/25 10:57	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	**495**		5.00	2.50	mg/L			11/24/25 21:04	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**495**		5.00	2.50	mg/L			11/24/25 21:04	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			11/24/25 21:04	1

Client Sample ID: DG-905

Date Collected: 11/18/25 14:31
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-7

Matrix: Water

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			11/24/25 18:16	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/24/25 18:16	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/24/25 18:16	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/24/25 18:16	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/24/25 18:16	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/24/25 18:16	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/24/25 18:16	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/24/25 18:16	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/24/25 18:16	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/24/25 18:16	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/24/25 18:16	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/24/25 18:16	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/24/25 18:16	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/24/25 18:16	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/24/25 18:16	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/24/25 18:16	1
Acetone	**4.91**	**J**	10.0	3.80	ug/L			11/24/25 18:16	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/24/25 18:16	1
Benzene	<0.500		0.500	0.220	ug/L			11/24/25 18:16	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/24/25 18:16	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/24/25 18:16	1
Bromoform	<5.00		5.00	2.60	ug/L			11/24/25 18:16	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/24/25 18:16	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/24/25 18:16	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/24/25 18:16	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/24/25 18:16	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/24/25 18:16	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/24/25 18:16	1
Chloroform	<3.00		3.00	1.30	ug/L			11/24/25 18:16	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/24/25 18:16	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/24/25 18:16	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/24/25 18:16	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/24/25 18:16	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/24/25 18:16	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/24/25 18:16	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/24/25 18:16	1
Styrene	<1.00		1.00	0.370	ug/L			11/24/25 18:16	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/24/25 18:16	1
Toluene	<1.00		1.00	0.430	ug/L			11/24/25 18:16	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/24/25 18:16	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/24/25 18:16	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/24/25 18:16	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/24/25 18:16	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/24/25 18:16	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/24/25 18:16	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/24/25 18:16	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/24/25 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*117*		*76 - 130*		*11/24/25 18:16*	*1*

Client Sample ID: DG-905

Date Collected: 11/18/25 14:31
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-7

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*11/24/25 18:16*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*11/24/25 18:16*	*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		11/25/25 08:00	12/08/25 18:42	1
Arsenic	**0.000882**	**J**	0.00200	0.000530	mg/L		11/25/25 08:00	12/08/25 18:42	1
Barium	**0.0537**		0.00200	0.000660	mg/L		11/25/25 08:00	12/08/25 18:42	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/25/25 08:00	12/09/25 17:51	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/25/25 08:00	12/08/25 18:42	1
Chromium	**0.00187**	**J**	0.00500	0.00180	mg/L		11/25/25 08:00	12/08/25 18:42	1
Cobalt	**0.000443**	**J**	0.000500	0.000170	mg/L		11/25/25 08:00	12/08/25 18:42	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/25/25 08:00	12/08/25 18:42	1
Lead	<0.000500		0.000500	0.000330	mg/L		11/25/25 08:00	12/08/25 18:42	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/25/25 08:00	12/08/25 18:42	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/25/25 08:00	12/08/25 18:42	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/25/25 08:00	12/08/25 18:42	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/25/25 08:00	12/08/25 18:42	1
Vanadium	**0.00240**	**J**	0.00500	0.00170	mg/L		11/25/25 08:00	12/08/25 18:42	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/25/25 08:00	12/08/25 18:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**9.50**		1.88	1.31	mg/L			11/24/25 10:57	1

Client Sample ID: DG-1001

Date Collected: 11/19/25 09:57
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-8

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*76 - 130*		*11/25/25 03:17*	*1*

Client Sample ID: DG-1001

Date Collected: 11/19/25 09:57
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-8

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*11/25/25 03:17*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*11/25/25 03:17*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**280**		5.00	2.25	mg/L			12/03/25 12:38	5
Sulfate	**101**		5.00	2.10	mg/L			12/03/25 12:38	5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**172**		1.00	0.170	mg/L		12/01/25 08:30	12/02/25 10:58	1
Magnesium	**74.6**		1.00	0.120	mg/L		12/01/25 08:30	12/02/25 10:58	1
Potassium	**3.07**		2.00	1.10	mg/L		12/01/25 08:30	12/02/25 10:58	1
Sodium	**17.0**		2.00	1.00	mg/L		12/01/25 08:30	12/02/25 10:58	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		11/25/25 08:00	12/08/25 18:45	1
Arsenic	**0.000714**	**J**	0.00200	0.000530	mg/L		11/25/25 08:00	12/08/25 18:45	1
Barium	**0.0523**		0.00200	0.000660	mg/L		11/25/25 08:00	12/08/25 18:45	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/25/25 08:00	12/09/25 17:54	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/25/25 08:00	12/08/25 18:45	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/25/25 08:00	12/08/25 18:45	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/25/25 08:00	12/08/25 18:45	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/25/25 08:00	12/08/25 18:45	1
Lead	<0.000500		0.000500	0.000330	mg/L		11/25/25 08:00	12/08/25 18:45	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/25/25 08:00	12/08/25 18:45	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/25/25 08:00	12/08/25 18:45	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/25/25 08:00	12/08/25 18:45	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/25/25 08:00	12/08/25 18:45	1
Vanadium	**0.00200**	**J**	0.00500	0.00170	mg/L		11/25/25 08:00	12/08/25 18:45	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/25/25 08:00	12/08/25 18:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SW846 9060A)	**1.79**		1.00	0.500	mg/L			12/02/25 02:14	1
Total Suspended Solids (USGS I-3765-85)	**2.00**		1.88	1.31	mg/L			11/24/25 11:41	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	**318**		5.00	2.50	mg/L			11/24/25 19:41	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**318**		5.00	2.50	mg/L			11/24/25 19:41	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			11/24/25 19:41	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-1005
Date Collected: 11/19/25 10:38
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-9
Matrix: Water

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			11/25/25 03:40	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/25/25 03:40	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/25/25 03:40	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/25/25 03:40	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/25/25 03:40	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/25/25 03:40	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/25/25 03:40	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/25/25 03:40	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/25/25 03:40	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/25/25 03:40	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/25/25 03:40	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/25/25 03:40	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/25/25 03:40	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/25/25 03:40	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/25/25 03:40	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/25/25 03:40	1
Acetone	<10.0		10.0	3.80	ug/L			11/25/25 03:40	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/25/25 03:40	1
Benzene	<0.500		0.500	0.220	ug/L			11/25/25 03:40	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/25/25 03:40	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/25/25 03:40	1
Bromoform	<5.00		5.00	2.60	ug/L			11/25/25 03:40	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/25/25 03:40	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/25/25 03:40	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/25/25 03:40	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/25/25 03:40	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/25/25 03:40	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/25/25 03:40	1
Chloroform	<3.00		3.00	1.30	ug/L			11/25/25 03:40	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/25/25 03:40	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/25/25 03:40	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/25/25 03:40	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/25/25 03:40	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/25/25 03:40	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/25/25 03:40	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/25/25 03:40	1
Styrene	<1.00		1.00	0.370	ug/L			11/25/25 03:40	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/25/25 03:40	1
Toluene	<1.00		1.00	0.430	ug/L			11/25/25 03:40	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/25/25 03:40	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/25/25 03:40	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/25/25 03:40	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/25/25 03:40	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/25/25 03:40	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/25/25 03:40	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/25/25 03:40	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/25/25 03:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*116*		*76 - 130*		*11/25/25 03:40*	*1*

Client Sample ID: DG-1005

Date Collected: 11/19/25 10:38
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-9

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*11/25/25 03:40*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*11/25/25 03:40*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.82**		5.00	2.25	mg/L			12/03/25 12:50	5
Sulfate	**121**		5.00	2.10	mg/L			12/03/25 12:50	5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**107**		1.00	0.170	mg/L		12/01/25 08:30	12/02/25 11:00	1
Magnesium	**40.3**		1.00	0.120	mg/L		12/01/25 08:30	12/02/25 11:00	1
Potassium	**2.71**		2.00	1.10	mg/L		12/01/25 08:30	12/02/25 11:00	1
Sodium	**12.3**		2.00	1.00	mg/L		12/01/25 08:30	12/02/25 11:00	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		11/25/25 08:00	12/08/25 18:48	1
Arsenic	**0.00174**	**J**	0.00200	0.000530	mg/L		11/25/25 08:00	12/08/25 18:48	1
Barium	**0.0473**		0.00200	0.000660	mg/L		11/25/25 08:00	12/08/25 18:48	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/25/25 08:00	12/09/25 17:57	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/25/25 08:00	12/08/25 18:48	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/25/25 08:00	12/08/25 18:48	1
Cobalt	**0.000406**	**J**	0.000500	0.000170	mg/L		11/25/25 08:00	12/08/25 18:48	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/25/25 08:00	12/08/25 18:48	1
Lead	**0.00121**		0.000500	0.000330	mg/L		11/25/25 08:00	12/08/25 18:48	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/25/25 08:00	12/08/25 18:48	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/25/25 08:00	12/08/25 18:48	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/25/25 08:00	12/08/25 18:48	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/25/25 08:00	12/08/25 18:48	1
Vanadium	**0.00946**		0.00500	0.00170	mg/L		11/25/25 08:00	12/08/25 18:48	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/25/25 08:00	12/08/25 18:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SW846 9060A)	**1.67**		1.00	0.500	mg/L			12/02/25 02:50	1
Total Suspended Solids (USGS I-3765-85)	**85.5**		3.75	2.63	mg/L			11/24/25 11:41	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	**364**		5.00	2.50	mg/L			11/24/25 21:17	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**364**		5.00	2.50	mg/L			11/24/25 21:17	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			11/24/25 21:17	1

Client Sample ID: MW-D1

Date Collected: 11/18/25 15:16
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-10

Matrix: Water

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			11/24/25 18:38	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/24/25 18:38	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/24/25 18:38	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/24/25 18:38	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/24/25 18:38	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/24/25 18:38	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/24/25 18:38	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/24/25 18:38	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/24/25 18:38	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/24/25 18:38	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/24/25 18:38	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/24/25 18:38	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/24/25 18:38	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/24/25 18:38	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/24/25 18:38	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/24/25 18:38	1
Acetone	<10.0		10.0	3.80	ug/L			11/24/25 18:38	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/24/25 18:38	1
Benzene	<0.500		0.500	0.220	ug/L			11/24/25 18:38	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/24/25 18:38	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/24/25 18:38	1
Bromoform	<5.00		5.00	2.60	ug/L			11/24/25 18:38	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/24/25 18:38	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/24/25 18:38	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/24/25 18:38	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/24/25 18:38	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/24/25 18:38	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/24/25 18:38	1
Chloroform	<3.00		3.00	1.30	ug/L			11/24/25 18:38	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/24/25 18:38	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/24/25 18:38	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/24/25 18:38	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/24/25 18:38	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/24/25 18:38	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/24/25 18:38	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/24/25 18:38	1
Styrene	<1.00		1.00	0.370	ug/L			11/24/25 18:38	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/24/25 18:38	1
Toluene	<1.00		1.00	0.430	ug/L			11/24/25 18:38	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/24/25 18:38	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/24/25 18:38	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/24/25 18:38	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/24/25 18:38	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/24/25 18:38	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/24/25 18:38	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/24/25 18:38	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/24/25 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*121*		*76 - 130*		*11/24/25 18:38*	*1*

Client Sample ID: MW-D1

Date Collected: 11/18/25 15:16
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-10

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*11/24/25 18:38*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*11/24/25 18:38*	*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		11/25/25 08:00	12/08/25 18:51	1
Arsenic	**0.00209**		0.00200	0.000530	mg/L		11/25/25 08:00	12/08/25 18:51	1
Barium	**0.0357**		0.00200	0.000660	mg/L		11/25/25 08:00	12/08/25 18:51	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/25/25 08:00	12/09/25 18:08	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/25/25 08:00	12/08/25 18:51	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/25/25 08:00	12/08/25 18:51	1
Cobalt	**0.000821**		0.000500	0.000170	mg/L		11/25/25 08:00	12/08/25 18:51	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/25/25 08:00	12/08/25 18:51	1
Lead	**0.00165**		0.000500	0.000330	mg/L		11/25/25 08:00	12/08/25 18:51	1
Nickel	**0.00961**		0.00500	0.00230	mg/L		11/25/25 08:00	12/08/25 18:51	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/25/25 08:00	12/08/25 18:51	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/25/25 08:00	12/08/25 18:51	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/25/25 08:00	12/08/25 18:51	1
Vanadium	**0.00325**	**J**	0.00500	0.00170	mg/L		11/25/25 08:00	12/08/25 18:51	1
Zinc	**0.0240**		0.0200	0.0130	mg/L		11/25/25 08:00	12/08/25 18:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**28.5**		3.75	2.63	mg/L			11/24/25 10:57	1

Client Sample ID: DG-1101

Date Collected: 11/19/25 11:25
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-11

Matrix: Water

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			11/25/25 04:03	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/25/25 04:03	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/25/25 04:03	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/25/25 04:03	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/25/25 04:03	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/25/25 04:03	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/25/25 04:03	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/25/25 04:03	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/25/25 04:03	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/25/25 04:03	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/25/25 04:03	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/25/25 04:03	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/25/25 04:03	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/25/25 04:03	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/25/25 04:03	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/25/25 04:03	1
Acetone	<10.0		10.0	3.80	ug/L			11/25/25 04:03	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/25/25 04:03	1
Benzene	<0.500		0.500	0.220	ug/L			11/25/25 04:03	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/25/25 04:03	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/25/25 04:03	1
Bromoform	<5.00		5.00	2.60	ug/L			11/25/25 04:03	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/25/25 04:03	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/25/25 04:03	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/25/25 04:03	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/25/25 04:03	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/25/25 04:03	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/25/25 04:03	1
Chloroform	<3.00		3.00	1.30	ug/L			11/25/25 04:03	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/25/25 04:03	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/25/25 04:03	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/25/25 04:03	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/25/25 04:03	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/25/25 04:03	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/25/25 04:03	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/25/25 04:03	1
Styrene	<1.00		1.00	0.370	ug/L			11/25/25 04:03	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/25/25 04:03	1
Toluene	<1.00		1.00	0.430	ug/L			11/25/25 04:03	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/25/25 04:03	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/25/25 04:03	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/25/25 04:03	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/25/25 04:03	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/25/25 04:03	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/25/25 04:03	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/25/25 04:03	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/25/25 04:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*121*		*76 - 130*		*11/25/25 04:03*	*1*

Client Sample ID: DG-1101
Date Collected: 11/19/25 11:25
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-11
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*11/25/25 04:03*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*11/25/25 04:03*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**40.6**		5.00	2.25	mg/L			12/03/25 13:01	5
Sulfate	**261**		5.00	2.10	mg/L			12/03/25 13:01	5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**164**		1.00	0.170	mg/L		12/01/25 08:30	12/02/25 11:04	1
Magnesium	**54.8**		1.00	0.120	mg/L		12/01/25 08:30	12/02/25 11:04	1
Potassium	**2.79**		2.00	1.10	mg/L		12/01/25 08:30	12/02/25 11:04	1
Sodium	**14.4**		2.00	1.00	mg/L		12/01/25 08:30	12/02/25 11:04	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		11/25/25 08:00	12/08/25 18:56	1
Arsenic	**0.000990**	**J**	0.00200	0.000530	mg/L		11/25/25 08:00	12/08/25 18:56	1
Barium	**0.0530**		0.00200	0.000660	mg/L		11/25/25 08:00	12/08/25 18:56	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/25/25 08:00	12/09/25 18:17	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/25/25 08:00	12/08/25 18:56	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/25/25 08:00	12/08/25 18:56	1
Cobalt	**0.000790**		0.000500	0.000170	mg/L		11/25/25 08:00	12/08/25 18:56	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/25/25 08:00	12/08/25 18:56	1
Lead	**0.00165**		0.000500	0.000330	mg/L		11/25/25 08:00	12/08/25 18:56	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/25/25 08:00	12/08/25 18:56	1
Selenium	**0.00159**	**J**	0.00500	0.00140	mg/L		11/25/25 08:00	12/08/25 18:56	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/25/25 08:00	12/08/25 18:56	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/25/25 08:00	12/08/25 18:56	1
Vanadium	**0.00478**	**J**	0.00500	0.00170	mg/L		11/25/25 08:00	12/08/25 18:56	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/25/25 08:00	12/08/25 18:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**67.0**		3.75	2.63	mg/L			11/24/25 11:41	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	**402**		5.00	2.50	mg/L			11/24/25 21:34	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**402**		5.00	2.50	mg/L			11/24/25 21:34	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			11/24/25 21:34	1

Client Sample ID: DG-1105R

Date Collected: 11/19/25 11:55
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-12

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*120*		*76 - 130*		*11/25/25 04:25*	*1*

Client Sample ID: DG-1105R

Date Collected: 11/19/25 11:55
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-12

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*11/25/25 04:25*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*11/25/25 04:25*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00182**	**J**	0.00200	0.00100	mg/L		11/25/25 08:00	12/08/25 19:05	1
Arsenic	**0.00454**		0.00200	0.000530	mg/L		11/25/25 08:00	12/08/25 19:05	1
Barium	**0.0265**		0.00200	0.000660	mg/L		11/25/25 08:00	12/08/25 19:05	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/25/25 08:00	12/09/25 18:20	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/25/25 08:00	12/08/25 19:05	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/25/25 08:00	12/08/25 19:05	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/25/25 08:00	12/08/25 19:05	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/25/25 08:00	12/08/25 19:05	1
Lead	<0.000500		0.000500	0.000330	mg/L		11/25/25 08:00	12/08/25 19:05	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/25/25 08:00	12/08/25 19:05	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/25/25 08:00	12/08/25 19:05	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/25/25 08:00	12/08/25 19:05	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/25/25 08:00	12/08/25 19:05	1
Vanadium	**0.00203**	**J**	0.00500	0.00170	mg/L		11/25/25 08:00	12/08/25 19:05	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/25/25 08:00	12/08/25 19:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**4.13**		1.88	1.31	mg/L			11/24/25 11:41	1

Client Sample ID: DG-1201

Date Collected: 11/19/25 12:43
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-13

Matrix: Water

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			11/25/25 04:48	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/25/25 04:48	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/25/25 04:48	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/25/25 04:48	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/25/25 04:48	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/25/25 04:48	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/25/25 04:48	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/25/25 04:48	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/25/25 04:48	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/25/25 04:48	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/25/25 04:48	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/25/25 04:48	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/25/25 04:48	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/25/25 04:48	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/25/25 04:48	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/25/25 04:48	1
Acetone	<10.0		10.0	3.80	ug/L			11/25/25 04:48	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/25/25 04:48	1
Benzene	<0.500		0.500	0.220	ug/L			11/25/25 04:48	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/25/25 04:48	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/25/25 04:48	1
Bromoform	<5.00		5.00	2.60	ug/L			11/25/25 04:48	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/25/25 04:48	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/25/25 04:48	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/25/25 04:48	1
Chlorobenzene	**0.401**	**J**	1.00	0.350	ug/L			11/25/25 04:48	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/25/25 04:48	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/25/25 04:48	1
Chloroform	<3.00		3.00	1.30	ug/L			11/25/25 04:48	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/25/25 04:48	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/25/25 04:48	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/25/25 04:48	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/25/25 04:48	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/25/25 04:48	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/25/25 04:48	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/25/25 04:48	1
Styrene	<1.00		1.00	0.370	ug/L			11/25/25 04:48	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/25/25 04:48	1
Toluene	<1.00		1.00	0.430	ug/L			11/25/25 04:48	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/25/25 04:48	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/25/25 04:48	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/25/25 04:48	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/25/25 04:48	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/25/25 04:48	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/25/25 04:48	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/25/25 04:48	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/25/25 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*119*		*76 - 130*		*11/25/25 04:48*	*1*

Client Sample ID: DG-1201

Date Collected: 11/19/25 12:43
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-13

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*80 - 120*		*11/25/25 04:48*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*11/25/25 04:48*	*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		11/25/25 08:00	12/08/25 19:08	1
Arsenic	**0.000970**	**J**	0.00200	0.000530	mg/L		11/25/25 08:00	12/08/25 19:08	1
Barium	**0.0231**		0.00200	0.000660	mg/L		11/25/25 08:00	12/08/25 19:08	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/25/25 08:00	12/09/25 18:22	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/25/25 08:00	12/08/25 19:08	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/25/25 08:00	12/08/25 19:08	1
Cobalt	**0.000660**		0.000500	0.000170	mg/L		11/25/25 08:00	12/08/25 19:08	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/25/25 08:00	12/08/25 19:08	1
Lead	**0.000890**		0.000500	0.000330	mg/L		11/25/25 08:00	12/08/25 19:08	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/25/25 08:00	12/08/25 19:08	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/25/25 08:00	12/08/25 19:08	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/25/25 08:00	12/08/25 19:08	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/25/25 08:00	12/08/25 19:08	1
Vanadium	**0.00358**	**J**	0.00500	0.00170	mg/L		11/25/25 08:00	12/08/25 19:08	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/25/25 08:00	12/08/25 19:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**30.0**		3.75	2.63	mg/L			11/24/25 11:41	1

Client Sample ID: DG-1205

Date Collected: 11/19/25 13:14
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-14

Matrix: Water

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			11/25/25 05:11	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/25/25 05:11	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/25/25 05:11	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/25/25 05:11	1
1,1-Dichloroethane	**2.80**		1.00	0.400	ug/L			11/25/25 05:11	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/25/25 05:11	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/25/25 05:11	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/25/25 05:11	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/25/25 05:11	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/25/25 05:11	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/25/25 05:11	1
1,2-Dichloropropane	**1.11**		1.00	0.380	ug/L			11/25/25 05:11	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/25/25 05:11	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/25/25 05:11	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/25/25 05:11	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/25/25 05:11	1
Acetone	<10.0		10.0	3.80	ug/L			11/25/25 05:11	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/25/25 05:11	1
Benzene	<0.500		0.500	0.220	ug/L			11/25/25 05:11	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/25/25 05:11	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/25/25 05:11	1
Bromoform	<5.00		5.00	2.60	ug/L			11/25/25 05:11	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/25/25 05:11	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/25/25 05:11	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/25/25 05:11	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/25/25 05:11	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/25/25 05:11	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/25/25 05:11	1
Chloroform	<3.00		3.00	1.30	ug/L			11/25/25 05:11	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/25/25 05:11	1
cis-1,2-Dichloroethene	**0.578**	**J**	1.00	0.550	ug/L			11/25/25 05:11	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/25/25 05:11	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/25/25 05:11	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/25/25 05:11	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/25/25 05:11	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/25/25 05:11	1
Styrene	<1.00		1.00	0.370	ug/L			11/25/25 05:11	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/25/25 05:11	1
Toluene	<1.00		1.00	0.430	ug/L			11/25/25 05:11	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/25/25 05:11	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/25/25 05:11	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/25/25 05:11	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/25/25 05:11	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/25/25 05:11	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/25/25 05:11	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/25/25 05:11	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/25/25 05:11	1
Dichlorodifluoromethane	**5.74**		3.00	0.850	ug/L			11/25/25 05:11	1

Client Sample ID: DG-1205

Date Collected: 11/19/25 13:14
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-14

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*121*		*76 - 130*		*11/25/25 05:11*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*11/25/25 05:11*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*11/25/25 05:11*	*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		11/25/25 08:00	12/08/25 19:11	1
Arsenic	**0.00254**		0.00200	0.000530	mg/L		11/25/25 08:00	12/08/25 19:11	1
Barium	**0.0120**		0.00200	0.000660	mg/L		11/25/25 08:00	12/08/25 19:11	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/25/25 08:00	12/09/25 18:25	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/25/25 08:00	12/08/25 19:11	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/25/25 08:00	12/08/25 19:11	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/25/25 08:00	12/08/25 19:11	1
Copper	**0.0109**		0.00500	0.00320	mg/L		11/25/25 08:00	12/08/25 19:11	1
Lead	**0.000609**		0.000500	0.000330	mg/L		11/25/25 08:00	12/08/25 19:11	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/25/25 08:00	12/08/25 19:11	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/25/25 08:00	12/08/25 19:11	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/25/25 08:00	12/08/25 19:11	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/25/25 08:00	12/08/25 19:11	1
Vanadium	**0.00358**	**J**	0.00500	0.00170	mg/L		11/25/25 08:00	12/08/25 19:11	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/25/25 08:00	12/08/25 19:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**5.00**		1.88	1.31	mg/L			11/24/25 11:41	1

Client Sample ID: DG-1301

Date Collected: 11/19/25 13:57
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-15

Matrix: Water

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			11/25/25 05:33	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/25/25 05:33	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/25/25 05:33	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/25/25 05:33	1
1,1-Dichloroethane	**12.1**		1.00	0.400	ug/L			11/25/25 05:33	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/25/25 05:33	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/25/25 05:33	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/25/25 05:33	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/25/25 05:33	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/25/25 05:33	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/25/25 05:33	1
1,2-Dichloropropane	**1.00**		1.00	0.380	ug/L			11/25/25 05:33	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/25/25 05:33	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/25/25 05:33	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/25/25 05:33	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/25/25 05:33	1
Acetone	<10.0		10.0	3.80	ug/L			11/25/25 05:33	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/25/25 05:33	1
Benzene	<0.500		0.500	0.220	ug/L			11/25/25 05:33	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/25/25 05:33	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/25/25 05:33	1
Bromoform	<5.00		5.00	2.60	ug/L			11/25/25 05:33	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/25/25 05:33	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/25/25 05:33	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/25/25 05:33	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/25/25 05:33	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/25/25 05:33	1
Chloroethane	**0.976**	**J**	4.00	0.900	ug/L			11/25/25 05:33	1
Chloroform	<3.00		3.00	1.30	ug/L			11/25/25 05:33	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/25/25 05:33	1
cis-1,2-Dichloroethene	**31.7**		1.00	0.550	ug/L			11/25/25 05:33	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/25/25 05:33	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/25/25 05:33	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/25/25 05:33	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/25/25 05:33	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/25/25 05:33	1
Styrene	<1.00		1.00	0.370	ug/L			11/25/25 05:33	1
Tetrachloroethene	**0.499**	**J**	1.00	0.480	ug/L			11/25/25 05:33	1
Toluene	<1.00		1.00	0.430	ug/L			11/25/25 05:33	1
trans-1,2-Dichloroethene	**1.06**		1.00	0.410	ug/L			11/25/25 05:33	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/25/25 05:33	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/25/25 05:33	1
Trichloroethene	**5.44**		1.00	0.350	ug/L			11/25/25 05:33	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/25/25 05:33	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/25/25 05:33	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/25/25 05:33	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/25/25 05:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*119*		*76 - 130*		*11/25/25 05:33*	*1*

Client Sample ID: DG-1301

Date Collected: 11/19/25 13:57
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-15

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/25/25 05:33*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*11/25/25 05:33*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<10.0		10.0	5.50	ug/L		11/25/25 11:32	12/05/25 09:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*103*		*39 - 140*	*11/25/25 11:32*	*12/05/25 09:01*	*1*
2-Fluorobiphenyl (Surr)	*104*		*33 - 126*	*11/25/25 11:32*	*12/05/25 09:01*	*1*
Terphenyl-d14 (Surr)	*123*		*13 - 150*	*11/25/25 11:32*	*12/05/25 09:01*	*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		11/25/25 08:00	12/08/25 19:13	1
Arsenic	**0.000666**	**J**	0.00200	0.000530	mg/L		11/25/25 08:00	12/08/25 19:13	1
Barium	**0.0389**		0.00200	0.000660	mg/L		11/25/25 08:00	12/08/25 19:13	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/25/25 08:00	12/09/25 18:28	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/25/25 08:00	12/08/25 19:13	1
Chromium	**0.00529**		0.00500	0.00180	mg/L		11/25/25 08:00	12/08/25 19:13	1
Cobalt	**0.000285**	**J**	0.000500	0.000170	mg/L		11/25/25 08:00	12/08/25 19:13	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/25/25 08:00	12/08/25 19:13	1
Lead	<0.000500		0.000500	0.000330	mg/L		11/25/25 08:00	12/08/25 19:13	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/25/25 08:00	12/08/25 19:13	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/25/25 08:00	12/08/25 19:13	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/25/25 08:00	12/08/25 19:13	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/25/25 08:00	12/08/25 19:13	1
Vanadium	**0.00216**	**J**	0.00500	0.00170	mg/L		11/25/25 08:00	12/08/25 19:13	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/25/25 08:00	12/08/25 19:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**2.63**		1.88	1.31	mg/L			11/24/25 11:41	1

Client Sample ID: DG-1305

Date Collected: 11/19/25 14:55
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-16

Matrix: Water

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			11/25/25 05:56	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/25/25 05:56	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/25/25 05:56	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/25/25 05:56	1
1,1-Dichloroethane	**3.01**		1.00	0.400	ug/L			11/25/25 05:56	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/25/25 05:56	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/25/25 05:56	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/25/25 05:56	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/25/25 05:56	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/25/25 05:56	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/25/25 05:56	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/25/25 05:56	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/25/25 05:56	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/25/25 05:56	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/25/25 05:56	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/25/25 05:56	1
Acetone	<10.0		10.0	3.80	ug/L			11/25/25 05:56	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/25/25 05:56	1
Benzene	<0.500		0.500	0.220	ug/L			11/25/25 05:56	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/25/25 05:56	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/25/25 05:56	1
Bromoform	<5.00		5.00	2.60	ug/L			11/25/25 05:56	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/25/25 05:56	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/25/25 05:56	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/25/25 05:56	1
Chlorobenzene	**3.72**		1.00	0.350	ug/L			11/25/25 05:56	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/25/25 05:56	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/25/25 05:56	1
Chloroform	<3.00		3.00	1.30	ug/L			11/25/25 05:56	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/25/25 05:56	1
cis-1,2-Dichloroethene	**1.35**		1.00	0.550	ug/L			11/25/25 05:56	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/25/25 05:56	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/25/25 05:56	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/25/25 05:56	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/25/25 05:56	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/25/25 05:56	1
Styrene	<1.00		1.00	0.370	ug/L			11/25/25 05:56	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/25/25 05:56	1
Toluene	<1.00		1.00	0.430	ug/L			11/25/25 05:56	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/25/25 05:56	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/25/25 05:56	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/25/25 05:56	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/25/25 05:56	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/25/25 05:56	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/25/25 05:56	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/25/25 05:56	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/25/25 05:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*121*		*76 - 130*		*11/25/25 05:56*	*1*

Client Sample ID: DG-1305

Date Collected: 11/19/25 14:55
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-16

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*11/25/25 05:56*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*11/25/25 05:56*	*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		11/25/25 08:00	12/08/25 19:16	1
Arsenic	**0.00144**	**J**	0.00200	0.000530	mg/L		11/25/25 08:00	12/08/25 19:16	1
Barium	**0.0898**		0.00200	0.000660	mg/L		11/25/25 08:00	12/08/25 19:16	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/25/25 08:00	12/09/25 18:31	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/25/25 08:00	12/08/25 19:16	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/25/25 08:00	12/08/25 19:16	1
Cobalt	**0.000275**	**J**	0.000500	0.000170	mg/L		11/25/25 08:00	12/08/25 19:16	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/25/25 08:00	12/08/25 19:16	1
Lead	**0.00206**		0.000500	0.000330	mg/L		11/25/25 08:00	12/08/25 19:16	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/25/25 08:00	12/08/25 19:16	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/25/25 08:00	12/08/25 19:16	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/25/25 08:00	12/08/25 19:16	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/25/25 08:00	12/08/25 19:16	1
Vanadium	**0.00344**	**J**	0.00500	0.00170	mg/L		11/25/25 08:00	12/08/25 19:16	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/25/25 08:00	12/08/25 19:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**17.1**		1.88	1.31	mg/L			11/24/25 11:41	1

Client Sample ID: DG-1401R

Date Collected: 11/19/25 15:31
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-17

Matrix: Water

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			11/25/25 06:18	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/25/25 06:18	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/25/25 06:18	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/25/25 06:18	1
1,1-Dichloroethane	**2.59**		1.00	0.400	ug/L			11/25/25 06:18	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/25/25 06:18	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/25/25 06:18	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/25/25 06:18	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/25/25 06:18	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/25/25 06:18	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/25/25 06:18	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/25/25 06:18	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/25/25 06:18	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/25/25 06:18	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/25/25 06:18	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/25/25 06:18	1
Acetone	<10.0		10.0	3.80	ug/L			11/25/25 06:18	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/25/25 06:18	1
Benzene	<0.500		0.500	0.220	ug/L			11/25/25 06:18	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/25/25 06:18	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/25/25 06:18	1
Bromoform	<5.00		5.00	2.60	ug/L			11/25/25 06:18	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/25/25 06:18	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/25/25 06:18	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/25/25 06:18	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/25/25 06:18	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/25/25 06:18	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/25/25 06:18	1
Chloroform	<3.00		3.00	1.30	ug/L			11/25/25 06:18	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/25/25 06:18	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/25/25 06:18	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/25/25 06:18	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/25/25 06:18	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/25/25 06:18	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/25/25 06:18	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/25/25 06:18	1
Styrene	<1.00		1.00	0.370	ug/L			11/25/25 06:18	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/25/25 06:18	1
Toluene	<1.00		1.00	0.430	ug/L			11/25/25 06:18	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/25/25 06:18	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/25/25 06:18	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/25/25 06:18	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/25/25 06:18	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/25/25 06:18	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/25/25 06:18	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/25/25 06:18	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/25/25 06:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*119*		*76 - 130*		*11/25/25 06:18*	*1*

Client Sample ID: DG-1401R

Date Collected: 11/19/25 15:31
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-17

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*80 - 120*		*11/25/25 06:18*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*11/25/25 06:18*	*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		11/25/25 08:00	12/08/25 19:19	1
Arsenic	**0.000579**	**J**	0.00200	0.000530	mg/L		11/25/25 08:00	12/08/25 19:19	1
Barium	**0.0438**		0.00200	0.000660	mg/L		11/25/25 08:00	12/08/25 19:19	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/25/25 08:00	12/09/25 18:39	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/25/25 08:00	12/08/25 19:19	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/25/25 08:00	12/08/25 19:19	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/25/25 08:00	12/08/25 19:19	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/25/25 08:00	12/08/25 19:19	1
Lead	<0.000500		0.000500	0.000330	mg/L		11/25/25 08:00	12/08/25 19:19	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/25/25 08:00	12/08/25 19:19	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/25/25 08:00	12/08/25 19:19	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/25/25 08:00	12/08/25 19:19	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/25/25 08:00	12/08/25 19:19	1
Vanadium	**0.00188**	**J**	0.00500	0.00170	mg/L		11/25/25 08:00	12/08/25 19:19	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/25/25 08:00	12/08/25 19:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**15.9**		1.88	1.31	mg/L			11/24/25 11:41	1

Client Sample ID: DGP-1500

Date Collected: 11/20/25 11:28
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-18

Matrix: Water

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			11/26/25 03:27	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/26/25 03:27	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/26/25 03:27	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/26/25 03:27	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/26/25 03:27	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/26/25 03:27	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/26/25 03:27	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/26/25 03:27	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/26/25 03:27	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/26/25 03:27	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/26/25 03:27	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/26/25 03:27	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/26/25 03:27	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/26/25 03:27	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/26/25 03:27	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/26/25 03:27	1
Acetone	<10.0		10.0	3.80	ug/L			11/26/25 03:27	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/26/25 03:27	1
Benzene	**0.755**		0.500	0.220	ug/L			11/26/25 03:27	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/26/25 03:27	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/26/25 03:27	1
Bromoform	<5.00		5.00	2.60	ug/L			11/26/25 03:27	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/26/25 03:27	1
Carbon disulfide	**4.03**		1.00	0.450	ug/L			11/26/25 03:27	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/26/25 03:27	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/26/25 03:27	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/26/25 03:27	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/26/25 03:27	1
Chloroform	<3.00		3.00	1.30	ug/L			11/26/25 03:27	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/26/25 03:27	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/26/25 03:27	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/26/25 03:27	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/26/25 03:27	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/26/25 03:27	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/26/25 03:27	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/26/25 03:27	1
Styrene	<1.00		1.00	0.370	ug/L			11/26/25 03:27	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/26/25 03:27	1
Toluene	<1.00		1.00	0.430	ug/L			11/26/25 03:27	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/26/25 03:27	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/26/25 03:27	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/26/25 03:27	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/26/25 03:27	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/26/25 03:27	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/26/25 03:27	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/26/25 03:27	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/26/25 03:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*117*		*76 - 130*		*11/26/25 03:27*	*1*

Client Sample ID: DGP-1500

Date Collected: 11/20/25 11:28
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-18

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*80 - 120*		*11/26/25 03:27*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*11/26/25 03:27*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	**13.5**		10.0	5.50	ug/L		11/25/25 11:32	12/05/25 09:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*71*		*39 - 140*	*11/25/25 11:32*	*12/05/25 09:31*	*1*
2-Fluorobiphenyl (Surr)	*66*		*33 - 126*	*11/25/25 11:32*	*12/05/25 09:31*	*1*
Terphenyl-d14 (Surr)	*85*		*13 - 150*	*11/25/25 11:32*	*12/05/25 09:31*	*1*

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.80**		1.00	0.450	mg/L			11/21/25 23:58	1
Nitrate as N	<0.200		0.200	0.0780	mg/L			11/21/25 23:58	1
Sulfate	**13.5**		1.00	0.420	mg/L			11/21/25 23:58	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.382**	**J**	0.500	0.0790	mg/L		12/03/25 09:00	12/04/25 09:16	1
Manganese	**0.453**		0.0100	0.00410	mg/L		12/03/25 09:00	12/04/25 09:16	1
Sodium	**13.1**		2.00	1.00	mg/L		12/03/25 09:00	12/04/25 09:16	1
Potassium	**2.22**		2.00	1.10	mg/L		12/03/25 09:00	12/04/25 09:16	1
Calcium	**90.7**		1.00	0.170	mg/L		12/03/25 09:00	12/04/25 09:16	1
Magnesium	**25.6**		1.00	0.120	mg/L		12/03/25 09:00	12/04/25 09:16	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		11/25/25 08:00	12/10/25 18:00	1
Arsenic	**0.0123**		0.00200	0.000530	mg/L		11/25/25 08:00	12/10/25 18:00	1
Barium	**0.0499**		0.00200	0.000660	mg/L		11/25/25 08:00	12/10/25 18:00	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/25/25 08:00	12/10/25 18:00	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/25/25 08:00	12/10/25 18:00	1
Chromium	**0.00237**	**J**	0.00500	0.00180	mg/L		11/25/25 08:00	12/10/25 18:00	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/25/25 08:00	12/10/25 18:00	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/25/25 08:00	12/10/25 18:00	1
Lead	<0.000500		0.000500	0.000330	mg/L		11/25/25 08:00	12/10/25 18:00	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/25/25 08:00	12/10/25 18:00	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/25/25 08:00	12/10/25 18:00	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/25/25 08:00	12/10/25 18:00	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/25/25 08:00	12/11/25 16:43	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		11/25/25 08:00	12/10/25 18:00	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/25/25 08:00	12/10/25 18:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	**6.23**		1.00	0.231	mg/L		11/25/25 18:26	11/26/25 00:47	1
Total Organic Carbon (SW846 9060A)	**21.9**		1.00	0.500	mg/L			12/02/25 04:38	1

Client Sample ID: DGP-1500

Date Collected: 11/20/25 11:28
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-18

Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**17.0**		5.00	3.50	mg/L			11/24/25 11:41	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	**365**		5.00	2.50	mg/L			11/24/25 21:45	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**365**		5.00	2.50	mg/L			11/24/25 21:45	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			11/24/25 21:45	1

Client Sample ID: MW-D2

Date Collected: 11/19/25 12:43
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-19

Matrix: Water

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			11/25/25 06:41	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/25/25 06:41	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/25/25 06:41	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/25/25 06:41	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/25/25 06:41	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/25/25 06:41	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/25/25 06:41	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/25/25 06:41	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/25/25 06:41	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/25/25 06:41	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/25/25 06:41	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/25/25 06:41	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/25/25 06:41	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/25/25 06:41	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/25/25 06:41	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/25/25 06:41	1
Acetone	<10.0		10.0	3.80	ug/L			11/25/25 06:41	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/25/25 06:41	1
Benzene	<0.500		0.500	0.220	ug/L			11/25/25 06:41	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/25/25 06:41	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/25/25 06:41	1
Bromoform	<5.00		5.00	2.60	ug/L			11/25/25 06:41	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/25/25 06:41	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/25/25 06:41	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/25/25 06:41	1
Chlorobenzene	**0.942**	**J**	1.00	0.350	ug/L			11/25/25 06:41	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/25/25 06:41	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/25/25 06:41	1
Chloroform	<3.00		3.00	1.30	ug/L			11/25/25 06:41	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/25/25 06:41	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/25/25 06:41	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/25/25 06:41	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/25/25 06:41	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/25/25 06:41	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/25/25 06:41	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/25/25 06:41	1
Styrene	<1.00		1.00	0.370	ug/L			11/25/25 06:41	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/25/25 06:41	1
Toluene	<1.00		1.00	0.430	ug/L			11/25/25 06:41	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/25/25 06:41	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/25/25 06:41	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/25/25 06:41	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/25/25 06:41	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/25/25 06:41	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/25/25 06:41	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/25/25 06:41	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/25/25 06:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*123*		*76 - 130*		*11/25/25 06:41*	*1*

Client Sample ID: MW-D2

Date Collected: 11/19/25 12:43
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-19

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*11/25/25 06:41*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*11/25/25 06:41*	*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		11/25/25 08:00	12/10/25 18:03	1
Arsenic	**0.000663**	**J**	0.00200	0.000530	mg/L		11/25/25 08:00	12/10/25 18:03	1
Barium	**0.0183**		0.00200	0.000660	mg/L		11/25/25 08:00	12/10/25 18:03	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/25/25 08:00	12/10/25 18:03	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/25/25 08:00	12/10/25 18:03	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/25/25 08:00	12/10/25 18:03	1
Cobalt	**0.000537**		0.000500	0.000170	mg/L		11/25/25 08:00	12/10/25 18:03	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/25/25 08:00	12/10/25 18:03	1
Lead	**0.000590**		0.000500	0.000330	mg/L		11/25/25 08:00	12/10/25 18:03	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/25/25 08:00	12/10/25 18:03	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/25/25 08:00	12/10/25 18:03	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/25/25 08:00	12/10/25 18:03	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/25/25 08:00	12/11/25 16:46	1
Vanadium	**0.00219**	**J**	0.00500	0.00170	mg/L		11/25/25 08:00	12/10/25 18:03	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/25/25 08:00	12/10/25 18:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**14.3**		1.88	1.31	mg/L			11/24/25 11:41	1

Client Sample ID: SW-101

Date Collected: 11/20/25 11:45
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-20

Matrix: Water

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			11/26/25 03:50	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/26/25 03:50	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/26/25 03:50	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/26/25 03:50	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/26/25 03:50	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/26/25 03:50	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/26/25 03:50	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/26/25 03:50	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/26/25 03:50	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/26/25 03:50	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/26/25 03:50	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/26/25 03:50	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/26/25 03:50	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/26/25 03:50	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/26/25 03:50	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/26/25 03:50	1
Acetone	<10.0		10.0	3.80	ug/L			11/26/25 03:50	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/26/25 03:50	1
Benzene	<0.500		0.500	0.220	ug/L			11/26/25 03:50	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/26/25 03:50	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/26/25 03:50	1
Bromoform	<5.00		5.00	2.60	ug/L			11/26/25 03:50	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/26/25 03:50	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/26/25 03:50	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/26/25 03:50	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/26/25 03:50	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/26/25 03:50	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/26/25 03:50	1
Chloroform	<3.00		3.00	1.30	ug/L			11/26/25 03:50	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/26/25 03:50	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/26/25 03:50	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/26/25 03:50	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/26/25 03:50	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/26/25 03:50	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/26/25 03:50	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/26/25 03:50	1
Styrene	<1.00		1.00	0.370	ug/L			11/26/25 03:50	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/26/25 03:50	1
Toluene	<1.00		1.00	0.430	ug/L			11/26/25 03:50	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/26/25 03:50	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/26/25 03:50	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/26/25 03:50	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/26/25 03:50	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/26/25 03:50	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/26/25 03:50	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/26/25 03:50	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/26/25 03:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*115*		*76 - 130*		*11/26/25 03:50*	*1*

Client Sample ID: SW-101

Date Collected: 11/20/25 11:45
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-20

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*80 - 120*		*11/26/25 03:50*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*11/26/25 03:50*	*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		11/25/25 08:00	12/10/25 17:08	1
Arsenic	**0.00171**	**J**	0.00200	0.000530	mg/L		11/25/25 08:00	12/10/25 17:08	1
Barium	**0.150**		0.00200	0.000660	mg/L		11/25/25 08:00	12/10/25 17:08	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/25/25 08:00	12/10/25 17:08	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/25/25 08:00	12/10/25 17:08	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/25/25 08:00	12/10/25 17:08	1
Cobalt	**0.000310**	**J**	0.000500	0.000170	mg/L		11/25/25 08:00	12/10/25 17:08	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/25/25 08:00	12/10/25 17:08	1
Lead	<0.000500		0.000500	0.000330	mg/L		11/25/25 08:00	12/10/25 17:08	1
Nickel	**0.00240**	**J**	0.00500	0.00230	mg/L		11/25/25 08:00	12/10/25 17:08	1
Selenium	**0.00234**	**J**	0.00500	0.00140	mg/L		11/25/25 08:00	12/10/25 17:08	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/25/25 08:00	12/10/25 17:08	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/25/25 08:00	12/10/25 17:08	1
Vanadium	**0.00211**	**J**	0.00500	0.00170	mg/L		11/25/25 08:00	12/10/25 17:08	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/25/25 08:00	12/10/25 17:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**26.7**		5.00	3.50	mg/L			11/24/25 11:41	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Sediment Pond Discharge

Lab Sample ID: 310-321193-21

Date Collected: 11/20/25 11:52
Date Received: 11/21/25 16:20

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.80	ug/L			11/27/25 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*11/27/25 23:26*	*1*
Dibromofluoromethane (Surr)	*118*		*76 - 130*		*11/27/25 23:26*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*11/27/25 23:26*	*1*

Client Sample ID: MW-P7

Date Collected: 11/19/25 14:18
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-22

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	3.38		1.00	0.350	ug/L			11/27/25 07:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*11/27/25 07:59*	*1*
Dibromofluoromethane (Surr)	*122*		*76 - 130*		*11/27/25 07:59*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/27/25 07:59*	*1*

Client Sample ID: MWP-14

Date Collected: 11/19/25 16:04
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-23

Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.8		5.00	2.25	mg/L			12/03/25 13:13	5
Sulfate	39.8		5.00	2.10	mg/L			12/03/25 13:13	5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	79.6		1.00	0.170	mg/L		12/01/25 08:30	12/02/25 11:05	1
Magnesium	25.9		1.00	0.120	mg/L		12/01/25 08:30	12/02/25 11:05	1
Potassium	1.61	J	2.00	1.10	mg/L		12/01/25 08:30	12/02/25 11:05	1
Sodium	9.71		2.00	1.00	mg/L		12/01/25 08:30	12/02/25 11:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SW846 9060A)	1.22		1.00	0.500	mg/L			12/02/25 05:15	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	307		5.00	2.50	mg/L			11/24/25 21:56	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	307		5.00	2.50	mg/L			11/24/25 21:56	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			11/24/25 21:56	1

Client Sample ID: MW-D3

Date Collected: 11/20/25 11:52
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-24

Matrix: Water

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			11/26/25 04:12	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/26/25 04:12	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/26/25 04:12	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/26/25 04:12	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/26/25 04:12	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/26/25 04:12	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/26/25 04:12	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/26/25 04:12	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/26/25 04:12	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/26/25 04:12	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/26/25 04:12	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/26/25 04:12	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/26/25 04:12	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/26/25 04:12	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/26/25 04:12	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/26/25 04:12	1
Acetone	<10.0		10.0	3.80	ug/L			11/26/25 04:12	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/26/25 04:12	1
Benzene	<0.500		0.500	0.220	ug/L			11/26/25 04:12	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/26/25 04:12	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/26/25 04:12	1
Bromoform	<5.00		5.00	2.60	ug/L			11/26/25 04:12	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/26/25 04:12	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/26/25 04:12	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/26/25 04:12	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/26/25 04:12	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/26/25 04:12	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/26/25 04:12	1
Chloroform	<3.00		3.00	1.30	ug/L			11/26/25 04:12	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/26/25 04:12	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/26/25 04:12	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/26/25 04:12	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/26/25 04:12	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/26/25 04:12	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/26/25 04:12	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/26/25 04:12	1
Styrene	<1.00		1.00	0.370	ug/L			11/26/25 04:12	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/26/25 04:12	1
Toluene	<1.00		1.00	0.430	ug/L			11/26/25 04:12	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/26/25 04:12	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/26/25 04:12	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/26/25 04:12	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/26/25 04:12	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/26/25 04:12	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/26/25 04:12	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/26/25 04:12	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/26/25 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*116*		*76 - 130*		*11/26/25 04:12*	*1*

Client Sample ID: MW-D3

Date Collected: 11/20/25 11:52
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-24

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*80 - 120*		*11/26/25 04:12*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*11/26/25 04:12*	*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		11/25/25 08:00	12/10/25 18:05	1
Arsenic	**0.00181**	**J**	0.00200	0.000530	mg/L		11/25/25 08:00	12/10/25 18:05	1
Barium	**0.158**		0.00200	0.000660	mg/L		11/25/25 08:00	12/10/25 18:05	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/25/25 08:00	12/10/25 18:05	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/25/25 08:00	12/10/25 18:05	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/25/25 08:00	12/10/25 18:05	1
Cobalt	**0.000359**	**J**	0.000500	0.000170	mg/L		11/25/25 08:00	12/10/25 18:05	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/25/25 08:00	12/10/25 18:05	1
Lead	**0.000389**	**J**	0.000500	0.000330	mg/L		11/25/25 08:00	12/10/25 18:05	1
Nickel	**0.00247**	**J**	0.00500	0.00230	mg/L		11/25/25 08:00	12/10/25 18:05	1
Selenium	**0.00238**	**J**	0.00500	0.00140	mg/L		11/25/25 08:00	12/10/25 18:05	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/25/25 08:00	12/10/25 18:05	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/25/25 08:00	12/11/25 16:48	1
Vanadium	**0.00234**	**J**	0.00500	0.00170	mg/L		11/25/25 08:00	12/10/25 18:05	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/25/25 08:00	12/10/25 18:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**21.0**		3.75	2.63	mg/L			11/25/25 10:08	1

Client Sample ID: Trip Blank 1

Date Collected: 11/20/25 00:00
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-25

Matrix: Water

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			11/25/25 22:57	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/25/25 22:57	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/25/25 22:57	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/25/25 22:57	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/25/25 22:57	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/25/25 22:57	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/25/25 22:57	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/25/25 22:57	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/25/25 22:57	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/25/25 22:57	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/25/25 22:57	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/25/25 22:57	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/25/25 22:57	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/25/25 22:57	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/25/25 22:57	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/25/25 22:57	1
Acetone	<10.0		10.0	3.80	ug/L			11/25/25 22:57	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/25/25 22:57	1
Benzene	<0.500		0.500	0.220	ug/L			11/25/25 22:57	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/25/25 22:57	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/25/25 22:57	1
Bromoform	<5.00		5.00	2.60	ug/L			11/25/25 22:57	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/25/25 22:57	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/25/25 22:57	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/25/25 22:57	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/25/25 22:57	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/25/25 22:57	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/25/25 22:57	1
Chloroform	<3.00		3.00	1.30	ug/L			11/25/25 22:57	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/25/25 22:57	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/25/25 22:57	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/25/25 22:57	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/25/25 22:57	1
Dichlorodifluoromethane	<3.00		3.00	0.850	ug/L			11/25/25 22:57	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/25/25 22:57	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/25/25 22:57	1
Methylene chloride	**2.16**	**J**	5.00	1.70	ug/L			11/25/25 22:57	1
Styrene	<1.00		1.00	0.370	ug/L			11/25/25 22:57	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/25/25 22:57	1
Toluene	<1.00		1.00	0.430	ug/L			11/25/25 22:57	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/25/25 22:57	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/25/25 22:57	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/25/25 22:57	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/25/25 22:57	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/25/25 22:57	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/25/25 22:57	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/25/25 22:57	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/25/25 22:57	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Trip Blank 1
Date Collected: 11/20/25 00:00
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-25
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	113		76 - 130		11/25/25 22:57	1
Toluene-d8 (Surr)	90		80 - 120		11/25/25 22:57	1
4-Bromofluorobenzene (Surr)	103		80 - 120		11/25/25 22:57	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Trip Blank 2

Date Collected: 11/20/25 00:00
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-26

Matrix: Water

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			11/25/25 23:19	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/25/25 23:19	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/25/25 23:19	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/25/25 23:19	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/25/25 23:19	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/25/25 23:19	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/25/25 23:19	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/25/25 23:19	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/25/25 23:19	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/25/25 23:19	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/25/25 23:19	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/25/25 23:19	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/25/25 23:19	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/25/25 23:19	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/25/25 23:19	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/25/25 23:19	1
Acetone	<10.0		10.0	3.80	ug/L			11/25/25 23:19	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/25/25 23:19	1
Benzene	<0.500		0.500	0.220	ug/L			11/25/25 23:19	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/25/25 23:19	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/25/25 23:19	1
Bromoform	<5.00		5.00	2.60	ug/L			11/25/25 23:19	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/25/25 23:19	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/25/25 23:19	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/25/25 23:19	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/25/25 23:19	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/25/25 23:19	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/25/25 23:19	1
Chloroform	<3.00		3.00	1.30	ug/L			11/25/25 23:19	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/25/25 23:19	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/25/25 23:19	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/25/25 23:19	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/25/25 23:19	1
Dichlorodifluoromethane	<3.00		3.00	0.850	ug/L			11/25/25 23:19	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/25/25 23:19	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/25/25 23:19	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/25/25 23:19	1
Styrene	<1.00		1.00	0.370	ug/L			11/25/25 23:19	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/25/25 23:19	1
Toluene	<1.00		1.00	0.430	ug/L			11/25/25 23:19	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/25/25 23:19	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/25/25 23:19	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/25/25 23:19	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/25/25 23:19	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/25/25 23:19	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/25/25 23:19	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/25/25 23:19	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/25/25 23:19	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Trip Blank 2
Date Collected: 11/20/25 00:00
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-26
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	115		76 - 130		11/25/25 23:19	1
Toluene-d8 (Surr)	87		80 - 120		11/25/25 23:19	1
4-Bromofluorobenzene (Surr)	103		80 - 120		11/25/25 23:19	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Trip Blank 3
Date Collected: 11/20/25 00:00
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-27
Matrix: Water

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			11/25/25 23:42	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/25/25 23:42	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/25/25 23:42	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/25/25 23:42	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/25/25 23:42	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/25/25 23:42	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/25/25 23:42	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/25/25 23:42	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/25/25 23:42	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/25/25 23:42	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/25/25 23:42	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/25/25 23:42	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/25/25 23:42	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/25/25 23:42	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/25/25 23:42	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/25/25 23:42	1
Acetone	<10.0		10.0	3.80	ug/L			11/25/25 23:42	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/25/25 23:42	1
Benzene	<0.500		0.500	0.220	ug/L			11/25/25 23:42	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/25/25 23:42	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/25/25 23:42	1
Bromoform	<5.00		5.00	2.60	ug/L			11/25/25 23:42	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/25/25 23:42	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/25/25 23:42	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/25/25 23:42	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/25/25 23:42	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/25/25 23:42	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/25/25 23:42	1
Chloroform	<3.00		3.00	1.30	ug/L			11/25/25 23:42	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/25/25 23:42	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/25/25 23:42	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/25/25 23:42	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/25/25 23:42	1
Dichlorodifluoromethane	<3.00		3.00	0.850	ug/L			11/25/25 23:42	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/25/25 23:42	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/25/25 23:42	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/25/25 23:42	1
Styrene	<1.00		1.00	0.370	ug/L			11/25/25 23:42	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/25/25 23:42	1
Toluene	<1.00		1.00	0.430	ug/L			11/25/25 23:42	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/25/25 23:42	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/25/25 23:42	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/25/25 23:42	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/25/25 23:42	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/25/25 23:42	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/25/25 23:42	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/25/25 23:42	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/25/25 23:42	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Trip Blank 3
Date Collected: 11/20/25 00:00
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-27
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	115		76 - 130		11/25/25 23:42	1
Toluene-d8 (Surr)	88		80 - 120		11/25/25 23:42	1
4-Bromofluorobenzene (Surr)	106		80 - 120		11/25/25 23:42	1

Client Sample ID: Trip Blank 4

Date Collected: 11/20/25 00:00
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-28

Matrix: Water

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			11/26/25 00:04	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/26/25 00:04	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/26/25 00:04	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/26/25 00:04	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/26/25 00:04	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/26/25 00:04	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/26/25 00:04	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/26/25 00:04	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/26/25 00:04	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/26/25 00:04	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/26/25 00:04	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/26/25 00:04	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/26/25 00:04	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/26/25 00:04	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/26/25 00:04	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/26/25 00:04	1
Acetone	<10.0		10.0	3.80	ug/L			11/26/25 00:04	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/26/25 00:04	1
Benzene	<0.500		0.500	0.220	ug/L			11/26/25 00:04	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/26/25 00:04	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/26/25 00:04	1
Bromoform	<5.00		5.00	2.60	ug/L			11/26/25 00:04	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/26/25 00:04	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/26/25 00:04	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/26/25 00:04	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/26/25 00:04	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/26/25 00:04	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/26/25 00:04	1
Chloroform	<3.00		3.00	1.30	ug/L			11/26/25 00:04	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/26/25 00:04	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/26/25 00:04	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/26/25 00:04	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/26/25 00:04	1
Dichlorodifluoromethane	<3.00		3.00	0.850	ug/L			11/26/25 00:04	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/26/25 00:04	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/26/25 00:04	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/26/25 00:04	1
Styrene	<1.00		1.00	0.370	ug/L			11/26/25 00:04	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/26/25 00:04	1
Toluene	<1.00		1.00	0.430	ug/L			11/26/25 00:04	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/26/25 00:04	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/26/25 00:04	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/26/25 00:04	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/26/25 00:04	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/26/25 00:04	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/26/25 00:04	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/26/25 00:04	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/26/25 00:04	1

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Trip Blank 4
Date Collected: 11/20/25 00:00
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-28
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	117		76 - 130		11/26/25 00:04	1
Toluene-d8 (Surr)	89		80 - 120		11/26/25 00:04	1
4-Bromofluorobenzene (Surr)	97		80 - 120		11/26/25 00:04	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

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
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: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(76-130)	(80-120)	(80-120)
310-321193-1	UG-90	121	89	102
310-321193-2	UG-201	114	91	101
310-321193-3	TDG-301	114	91	103
310-321193-4	TDG-305	121	90	105
310-321193-6	DG-901	122	92	101
310-321193-7	DG-905	117	91	104
310-321193-8	DG-1001	114	92	105
310-321193-9	DG-1005	116	90	103
310-321193-10	MW-D1	121	92	102
310-321193-11	DG-1101	121	91	102
310-321193-12	DG-1105R	120	91	103
310-321193-13	DG-1201	119	89	106
310-321193-14	DG-1205	121	91	101
310-321193-15	DG-1301	119	94	104
310-321193-16	DG-1305	121	90	103
310-321193-17	DG-1401R	119	88	107
310-321193-18	DGP-1500	117	88	99
310-321193-19	MW-D2	123	91	104
310-321193-20	SW-101	115	89	102
310-321193-21	Sediment Pond Discharge	118	91	104
310-321193-22	MW-P7	122	97	104
310-321193-24	MW-D3	116	89	105
310-321193-25	Trip Blank 1	113	90	103
310-321193-26	Trip Blank 2	115	87	103
310-321193-27	Trip Blank 3	115	88	106
310-321193-28	Trip Blank 4	117	89	97
LCS 310-474612/7	Lab Control Sample	113	98	97
LCS 310-474612/8	Lab Control Sample	115	93	103
LCS 310-474672/7	Lab Control Sample	107	99	98
LCS 310-474672/8	Lab Control Sample	108	93	103
LCS 310-474771/6	Lab Control Sample	107	98	96
LCS 310-474771/7	Lab Control Sample	109	91	102
LCS 310-474959/8	Lab Control Sample	99	96	97
LCS 310-475012/6	Lab Control Sample	103	98	102
MB 310-474612/6	Method Blank	110	91	105
MB 310-474672/6	Method Blank	107	93	111
MB 310-474771/5	Method Blank	109	93	104
MB 310-474959/7	Method Blank	122	92	101
MB 310-475012/5	Method Blank	109	94	103

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	FBP	TPHL
Lab Sample ID	Client Sample ID	(39-140)	(33-126)	(13-150)
310-321193-15	DG-1301	103	104	123
310-321193-18	DGP-1500	71	66	85
LCS 310-474785/2-A	Lab Control Sample	82	83	99
LCSD 310-474785/3-A	Lab Control Sample Dup	78	76	97
MB 310-474785/1-A	Method Blank	86	81	109

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TPHL = Terphenyl-d14 (Surr)

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

Lab Sample ID: MB 310-474612/6
Matrix: Water
Analysis Batch: 474612

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			11/24/25 11:06	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/24/25 11:06	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/24/25 11:06	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/24/25 11:06	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/24/25 11:06	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/24/25 11:06	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/24/25 11:06	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/24/25 11:06	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/24/25 11:06	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/24/25 11:06	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/24/25 11:06	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/24/25 11:06	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/24/25 11:06	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/24/25 11:06	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/24/25 11:06	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/24/25 11:06	1
Acetone	<10.0		10.0	3.80	ug/L			11/24/25 11:06	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/24/25 11:06	1
Benzene	<0.500		0.500	0.220	ug/L			11/24/25 11:06	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/24/25 11:06	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/24/25 11:06	1
Bromoform	<5.00		5.00	2.60	ug/L			11/24/25 11:06	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/24/25 11:06	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/24/25 11:06	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/24/25 11:06	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/24/25 11:06	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/24/25 11:06	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/24/25 11:06	1
Chloroform	<3.00		3.00	1.30	ug/L			11/24/25 11:06	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/24/25 11:06	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/24/25 11:06	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/24/25 11:06	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/24/25 11:06	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/24/25 11:06	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/24/25 11:06	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/24/25 11:06	1
Styrene	<1.00		1.00	0.370	ug/L			11/24/25 11:06	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/24/25 11:06	1
Toluene	<1.00		1.00	0.430	ug/L			11/24/25 11:06	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/24/25 11:06	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/24/25 11:06	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/24/25 11:06	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/24/25 11:06	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/24/25 11:06	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/24/25 11:06	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/24/25 11:06	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/24/25 11:06	1
Dichlorodifluoromethane	<3.00		3.00	0.850	ug/L			11/24/25 11:06	1

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

Lab Sample ID: MB 310-474612/6
Matrix: Water
Analysis Batch: 474612

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*110*		*76 - 130*		*11/24/25 11:06*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*11/24/25 11:06*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*11/24/25 11:06*	*1*

Lab Sample ID: LCS 310-474612/7
Matrix: Water
Analysis Batch: 474612

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	18.23		ug/L		91	70 - 121
1,1,1-Trichloroethane	20.0	21.47		ug/L		107	69 - 130
1,1,2,2-Tetrachloroethane	20.0	19.34		ug/L		97	70 - 122
1,1,2-Trichloroethane	20.0	20.58		ug/L		103	75 - 121
1,1-Dichloroethane	20.0	22.01		ug/L		110	69 - 127
1,1-Dichloroethene	20.0	22.11		ug/L		111	64 - 134
1,2,3-Trichloropropane	20.0	18.87		ug/L		94	70 - 122
1,2-Dibromo-3-chloropropane	20.0	19.14		ug/L		96	62 - 132
1,2-Dibromoethane (EDB)	20.0	17.50		ug/L		87	74 - 122
1,2-Dichlorobenzene	20.0	19.72		ug/L		99	74 - 120
1,2-Dichloroethane	20.0	21.08		ug/L		105	68 - 125
1,2-Dichloropropane	20.0	18.81		ug/L		94	72 - 128
1,4-Dichlorobenzene	20.0	20.77		ug/L		104	72 - 120
2-Butanone (MEK)	40.0	38.93		ug/L		97	60 - 134
2-Hexanone	40.0	39.26		ug/L		98	62 - 139
4-Methyl-2-pentanone (MIBK)	40.0	35.78		ug/L		89	62 - 136
Acetone	40.0	52.68		ug/L		132	59 - 136
Acrylonitrile	200	256.8		ug/L		128	50 - 150
Benzene	20.0	19.26		ug/L		96	71 - 125
Bromochloromethane	20.0	23.15		ug/L		116	69 - 131
Bromodichloromethane	20.0	20.20		ug/L		101	70 - 122
Bromoform	20.0	17.87		ug/L		89	62 - 122
Carbon disulfide	20.0	21.90		ug/L		110	58 - 137
Carbon tetrachloride	20.0	21.70		ug/L		109	63 - 136
Chlorobenzene	20.0	19.03		ug/L		95	74 - 120
Chlorodibromomethane	20.0	17.67		ug/L		88	69 - 121
Chloroform	20.0	21.47		ug/L		107	72 - 122
cis-1,2-Dichloroethene	20.0	22.14		ug/L		111	72 - 123
cis-1,3-Dichloropropene	20.0	17.92		ug/L		90	72 - 123
Dibromomethane	20.0	21.97		ug/L		110	72 - 122
Ethylbenzene	20.0	18.48		ug/L		92	75 - 120
Iodomethane	20.0	15.98		ug/L		80	18 - 150
Methylene chloride	20.0	25.11		ug/L		126	72 - 128
Styrene	20.0	19.23		ug/L		96	74 - 122
Tetrachloroethene	20.0	19.11		ug/L		96	70 - 128
Toluene	20.0	18.96		ug/L		95	74 - 120
trans-1,2-Dichloroethene	20.0	21.72		ug/L		109	67 - 127
trans-1,3-Dichloropropene	20.0	16.55		ug/L		83	67 - 123
trans-1,4-Dichloro-2-butene	20.0	18.78		ug/L		94	50 - 150

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

Lab Sample ID: LCS 310-474612/7
Matrix: Water
Analysis Batch: 474612

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Trichloroethene			20.0	18.58		ug/L		93	70 - 128		
Vinyl acetate			40.0	36.08		ug/L		90	50 - 150		
Xylenes, Total			40.0	37.92		ug/L		95	74 - 121		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*113*		*76 - 130*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*

Lab Sample ID: LCS 310-474612/8
Matrix: Water
Analysis Batch: 474612

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	19.99		ug/L		100	33 - 138		
Chloroethane			20.0	22.39		ug/L		112	59 - 139		
Chloromethane			20.0	24.25		ug/L		121	52 - 146		
Trichlorofluoromethane			20.0	23.50		ug/L		118	55 - 150		
Vinyl chloride			20.0	24.14		ug/L		121	60 - 142		
Dichlorodifluoromethane			20.0	21.60		ug/L		108	45 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*115*		*76 - 130*
Toluene-d8 (Surr)	*93*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*

Lab Sample ID: MB 310-474672/6
Matrix: Water
Analysis Batch: 474672

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			11/24/25 22:23	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/24/25 22:23	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/24/25 22:23	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/24/25 22:23	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/24/25 22:23	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/24/25 22:23	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/24/25 22:23	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/24/25 22:23	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/24/25 22:23	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/24/25 22:23	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/24/25 22:23	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/24/25 22:23	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/24/25 22:23	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/24/25 22:23	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/24/25 22:23	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/24/25 22:23	1
Acetone	<10.0		10.0	3.80	ug/L			11/24/25 22:23	1

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

Lab Sample ID: MB 310-474672/6
Matrix: Water
Analysis Batch: 474672

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/24/25 22:23	1
Benzene	<0.500		0.500	0.220	ug/L			11/24/25 22:23	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/24/25 22:23	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/24/25 22:23	1
Bromoform	<5.00		5.00	2.60	ug/L			11/24/25 22:23	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/24/25 22:23	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/24/25 22:23	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/24/25 22:23	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/24/25 22:23	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/24/25 22:23	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/24/25 22:23	1
Chloroform	<3.00		3.00	1.30	ug/L			11/24/25 22:23	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/24/25 22:23	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/24/25 22:23	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/24/25 22:23	1
Dibromomethane	<1.00		1.00	0.330	ug/L			11/24/25 22:23	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/24/25 22:23	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/24/25 22:23	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/24/25 22:23	1
Styrene	<1.00		1.00	0.370	ug/L			11/24/25 22:23	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/24/25 22:23	1
Toluene	<1.00		1.00	0.430	ug/L			11/24/25 22:23	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/24/25 22:23	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/24/25 22:23	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/24/25 22:23	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/24/25 22:23	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/24/25 22:23	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/24/25 22:23	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/24/25 22:23	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/24/25 22:23	1
Dichlorodifluoromethane	<3.00		3.00	0.850	ug/L			11/24/25 22:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*76 - 130*		*11/24/25 22:23*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*11/24/25 22:23*	*1*
4-Bromofluorobenzene (Surr)	*111*		*80 - 120*		*11/24/25 22:23*	*1*

Lab Sample ID: LCS 310-474672/7
Matrix: Water
Analysis Batch: 474672

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	18.12		ug/L		91	70 - 121
1,1,1-Trichloroethane	20.0	21.01		ug/L		105	69 - 130
1,1,2,2-Tetrachloroethane	20.0	18.35		ug/L		92	70 - 122
1,1,2-Trichloroethane	20.0	19.79		ug/L		99	75 - 121
1,1-Dichloroethane	20.0	20.53		ug/L		103	69 - 127
1,1-Dichloroethene	20.0	20.97		ug/L		105	64 - 134

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

Lab Sample ID: LCS 310-474672/7
Matrix: Water
Analysis Batch: 474672

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	17.96		ug/L		90	70 - 122
1,2-Dibromo-3-chloropropane	20.0	18.74		ug/L		94	62 - 132
1,2-Dibromoethane (EDB)	20.0	17.77		ug/L		89	74 - 122
1,2-Dichlorobenzene	20.0	18.96		ug/L		95	74 - 120
1,2-Dichloroethane	20.0	19.58		ug/L		98	68 - 125
1,2-Dichloropropane	20.0	17.96		ug/L		90	72 - 128
1,4-Dichlorobenzene	20.0	20.18		ug/L		101	72 - 120
2-Butanone (MEK)	40.0	33.64		ug/L		84	60 - 134
2-Hexanone	40.0	36.72		ug/L		92	62 - 139
4-Methyl-2-pentanone (MIBK)	40.0	35.28		ug/L		88	62 - 136
Acetone	40.0	46.97		ug/L		117	59 - 136
Acrylonitrile	200	228.0		ug/L		114	50 - 150
Benzene	20.0	18.51		ug/L		93	71 - 125
Bromochloromethane	20.0	21.02		ug/L		105	69 - 131
Bromodichloromethane	20.0	18.94		ug/L		95	70 - 122
Bromoform	20.0	17.93		ug/L		90	62 - 122
Carbon disulfide	20.0	20.98		ug/L		105	58 - 137
Carbon tetrachloride	20.0	22.14		ug/L		111	63 - 136
Chlorobenzene	20.0	18.56		ug/L		93	74 - 120
Chlorodibromomethane	20.0	16.99		ug/L		85	69 - 121
Chloroform	20.0	20.13		ug/L		101	72 - 122
cis-1,2-Dichloroethene	20.0	20.32		ug/L		102	72 - 123
cis-1,3-Dichloropropene	20.0	17.08		ug/L		85	72 - 123
Dibromomethane	20.0	20.70		ug/L		103	72 - 122
Ethylbenzene	20.0	18.49		ug/L		92	75 - 120
Iodomethane	20.0	18.48		ug/L		92	18 - 150
Methylene chloride	20.0	22.42		ug/L		112	72 - 128
Styrene	20.0	19.14		ug/L		96	74 - 122
Tetrachloroethene	20.0	19.18		ug/L		96	70 - 128
Toluene	20.0	18.84		ug/L		94	74 - 120
trans-1,2-Dichloroethene	20.0	20.88		ug/L		104	67 - 127
trans-1,3-Dichloropropene	20.0	15.81		ug/L		79	67 - 123
trans-1,4-Dichloro-2-butene	20.0	17.31		ug/L		87	50 - 150
Trichloroethene	20.0	17.71		ug/L		89	70 - 128
Vinyl acetate	40.0	34.32		ug/L		86	50 - 150
Xylenes, Total	40.0	37.64		ug/L		94	74 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*107*		*76 - 130*
Toluene-d8 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*

Lab Sample ID: LCS 310-474672/8
Matrix: Water
Analysis Batch: 474672

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	18.98		ug/L		95	33 - 138

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

Lab Sample ID: LCS 310-474672/8
Matrix: Water
Analysis Batch: 474672

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroethane	20.0	20.91		ug/L		105	59 - 139
Chloromethane	20.0	21.36		ug/L		107	52 - 146
Trichlorofluoromethane	20.0	21.75		ug/L		109	55 - 150
Vinyl chloride	20.0	22.27		ug/L		111	60 - 142
Dichlorodifluoromethane	20.0	20.32		ug/L		102	45 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*108*		*76 - 130*
Toluene-d8 (Surr)	*93*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*

Lab Sample ID: MB 310-474771/5
Matrix: Water
Analysis Batch: 474771

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			11/25/25 20:41	1
1,1,1-Trichloroethane	<1.00		1.00	0.420	ug/L			11/25/25 20:41	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.350	ug/L			11/25/25 20:41	1
1,1,2-Trichloroethane	<1.00		1.00	0.330	ug/L			11/25/25 20:41	1
1,1-Dichloroethane	<1.00		1.00	0.400	ug/L			11/25/25 20:41	1
1,1-Dichloroethene	<2.00		2.00	0.460	ug/L			11/25/25 20:41	1
1,2,3-Trichloropropane	<1.00		1.00	0.430	ug/L			11/25/25 20:41	1
1,2-Dibromo-3-chloropropane	<5.00		5.00	1.20	ug/L			11/25/25 20:41	1
1,2-Dibromoethane (EDB)	<1.00		1.00	0.340	ug/L			11/25/25 20:41	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			11/25/25 20:41	1
1,2-Dichloroethane	<1.00		1.00	0.890	ug/L			11/25/25 20:41	1
1,2-Dichloropropane	<1.00		1.00	0.380	ug/L			11/25/25 20:41	1
1,4-Dichlorobenzene	<1.00		1.00	0.490	ug/L			11/25/25 20:41	1
2-Butanone (MEK)	<10.0		10.0	3.40	ug/L			11/25/25 20:41	1
2-Hexanone	<10.0		10.0	3.80	ug/L			11/25/25 20:41	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	3.50	ug/L			11/25/25 20:41	1
Acetone	<10.0		10.0	3.80	ug/L			11/25/25 20:41	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			11/25/25 20:41	1
Benzene	<0.500		0.500	0.220	ug/L			11/25/25 20:41	1
Bromochloromethane	<5.00		5.00	1.70	ug/L			11/25/25 20:41	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			11/25/25 20:41	1
Bromoform	<5.00		5.00	2.60	ug/L			11/25/25 20:41	1
Bromomethane	<4.00		4.00	1.10	ug/L			11/25/25 20:41	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			11/25/25 20:41	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			11/25/25 20:41	1
Chlorobenzene	<1.00		1.00	0.350	ug/L			11/25/25 20:41	1
Chlorodibromomethane	<5.00		5.00	1.50	ug/L			11/25/25 20:41	1
Chloroethane	<4.00		4.00	0.900	ug/L			11/25/25 20:41	1
Chloroform	<3.00		3.00	1.30	ug/L			11/25/25 20:41	1
Chloromethane	<3.00		3.00	0.610	ug/L			11/25/25 20:41	1
cis-1,2-Dichloroethene	<1.00		1.00	0.550	ug/L			11/25/25 20:41	1
cis-1,3-Dichloropropene	<5.00		5.00	1.20	ug/L			11/25/25 20:41	1

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

Lab Sample ID: MB 310-474771/5
Matrix: Water
Analysis Batch: 474771

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	<1.00		1.00	0.330	ug/L			11/25/25 20:41	1
Ethylbenzene	<1.00		1.00	0.420	ug/L			11/25/25 20:41	1
Iodomethane	<10.0		10.0	2.60	ug/L			11/25/25 20:41	1
Methylene chloride	<5.00		5.00	1.70	ug/L			11/25/25 20:41	1
Styrene	<1.00		1.00	0.370	ug/L			11/25/25 20:41	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			11/25/25 20:41	1
Toluene	<1.00		1.00	0.430	ug/L			11/25/25 20:41	1
trans-1,2-Dichloroethene	<1.00		1.00	0.410	ug/L			11/25/25 20:41	1
trans-1,3-Dichloropropene	<5.00		5.00	2.30	ug/L			11/25/25 20:41	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	2.40	ug/L			11/25/25 20:41	1
Trichlorofluoromethane	<4.00		4.00	0.470	ug/L			11/25/25 20:41	1
Trichloroethene	<1.00		1.00	0.350	ug/L			11/25/25 20:41	1
Vinyl acetate	<10.0		10.0	7.10	ug/L			11/25/25 20:41	1
Vinyl chloride	<1.00		1.00	0.430	ug/L			11/25/25 20:41	1
Xylenes, Total	<3.00		3.00	1.10	ug/L			11/25/25 20:41	1
Dichlorodifluoromethane	<3.00		3.00	0.850	ug/L			11/25/25 20:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*76 - 130*		*11/25/25 20:41*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*11/25/25 20:41*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*11/25/25 20:41*	*1*

Lab Sample ID: LCS 310-474771/6
Matrix: Water
Analysis Batch: 474771

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	19.00		ug/L		95	70 - 121
1,1,1-Trichloroethane	20.0	21.64		ug/L		108	69 - 130
1,1,2,2-Tetrachloroethane	20.0	19.04		ug/L		95	70 - 122
1,1,2-Trichloroethane	20.0	19.98		ug/L		100	75 - 121
1,1-Dichloroethane	20.0	20.96		ug/L		105	69 - 127
1,1-Dichloroethene	20.0	20.79		ug/L		104	64 - 134
1,2,3-Trichloropropane	20.0	19.62		ug/L		98	70 - 122
1,2-Dibromo-3-chloropropane	20.0	17.91		ug/L		90	62 - 132
1,2-Dibromoethane (EDB)	20.0	17.82		ug/L		89	74 - 122
1,2-Dichlorobenzene	20.0	19.25		ug/L		96	74 - 120
1,2-Dichloroethane	20.0	20.06		ug/L		100	68 - 125
1,2-Dichloropropane	20.0	18.40		ug/L		92	72 - 128
1,4-Dichlorobenzene	20.0	20.62		ug/L		103	72 - 120
2-Butanone (MEK)	40.0	33.60		ug/L		84	60 - 134
2-Hexanone	40.0	36.36		ug/L		91	62 - 139
4-Methyl-2-pentanone (MIBK)	40.0	35.08		ug/L		88	62 - 136
Acetone	40.0	47.85		ug/L		120	59 - 136
Acrylonitrile	200	230.9		ug/L		115	50 - 150
Benzene	20.0	19.54		ug/L		98	71 - 125
Bromochloromethane	20.0	21.42		ug/L		107	69 - 131
Bromodichloromethane	20.0	19.83		ug/L		99	70 - 122

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

Lab Sample ID: LCS 310-474771/6
Matrix: Water
Analysis Batch: 474771

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromoform	20.0	17.89		ug/L		89	62 - 122
Carbon disulfide	20.0	21.08		ug/L		105	58 - 137
Carbon tetrachloride	20.0	22.20		ug/L		111	63 - 136
Chlorobenzene	20.0	19.20		ug/L		96	74 - 120
Chlorodibromomethane	20.0	17.79		ug/L		89	69 - 121
Chloroform	20.0	20.45		ug/L		102	72 - 122
cis-1,2-Dichloroethene	20.0	20.79		ug/L		104	72 - 123
cis-1,3-Dichloropropene	20.0	17.48		ug/L		87	72 - 123
Dibromomethane	20.0	20.75		ug/L		104	72 - 122
Ethylbenzene	20.0	18.99		ug/L		95	75 - 120
Iodomethane	20.0	17.51		ug/L		88	18 - 150
Methylene chloride	20.0	23.27		ug/L		116	72 - 128
Styrene	20.0	19.20		ug/L		96	74 - 122
Tetrachloroethene	20.0	19.71		ug/L		99	70 - 128
Toluene	20.0	19.49		ug/L		97	74 - 120
trans-1,2-Dichloroethene	20.0	21.24		ug/L		106	67 - 127
trans-1,3-Dichloropropene	20.0	16.65		ug/L		83	67 - 123
trans-1,4-Dichloro-2-butene	20.0	17.71		ug/L		89	50 - 150
Trichloroethene	20.0	18.62		ug/L		93	70 - 128
Vinyl acetate	40.0	34.17		ug/L		85	50 - 150
Xylenes, Total	40.0	38.28		ug/L		96	74 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*107*		*76 - 130*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*

Lab Sample ID: LCS 310-474771/7
Matrix: Water
Analysis Batch: 474771

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	18.74		ug/L		94	33 - 138
Chloroethane	20.0	20.58		ug/L		103	59 - 139
Chloromethane	20.0	21.66		ug/L		108	52 - 146
Trichlorofluoromethane	20.0	21.14		ug/L		106	55 - 150
Vinyl chloride	20.0	21.30		ug/L		107	60 - 142
Dichlorodifluoromethane	20.0	18.95		ug/L		95	45 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*109*		*76 - 130*
Toluene-d8 (Surr)	*91*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

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

Lab Sample ID: MB 310-474959/7
Matrix: Water
Analysis Batch: 474959

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.00		1.00	0.350	ug/L			11/27/25 01:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*122*		*76 - 130*		*11/27/25 01:24*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*11/27/25 01:24*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*11/27/25 01:24*	*1*

Lab Sample ID: LCS 310-474959/8
Matrix: Water
Analysis Batch: 474959

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Trichloroethene			20.0	16.26		ug/L		81	70 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*76 - 130*
Toluene-d8 (Surr)	*96*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*

Lab Sample ID: MB 310-475012/5
Matrix: Water
Analysis Batch: 475012

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			11/27/25 17:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*76 - 130*		*11/27/25 17:01*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/27/25 17:01*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*11/27/25 17:01*	*1*

Lab Sample ID: LCS 310-475012/6
Matrix: Water
Analysis Batch: 475012

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acetone			40.0	41.03		ug/L		103	59 - 136		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*76 - 130*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 310-474785/1-A
Matrix: Water
Analysis Batch: 475593

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 474785

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<10.0		10.0	5.50	ug/L		11/25/25 11:32	12/05/25 04:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*86*		*39 - 140*	*11/25/25 11:32*	*12/05/25 04:06*	*1*
2-Fluorobiphenyl (Surr)	*81*		*33 - 126*	*11/25/25 11:32*	*12/05/25 04:06*	*1*
Terphenyl-d14 (Surr)	*109*		*13 - 150*	*11/25/25 11:32*	*12/05/25 04:06*	*1*

Lab Sample ID: LCS 310-474785/2-A
Matrix: Water
Analysis Batch: 475593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 474785

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	100	80.74		ug/L		81	46 - 138
Di-n-butyl phthalate	100	80.98		ug/L		81	49 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*82*		*39 - 140*
2-Fluorobiphenyl (Surr)	*83*		*33 - 126*
Terphenyl-d14 (Surr)	*99*		*13 - 150*

Lab Sample ID: LCSD 310-474785/3-A
Matrix: Water
Analysis Batch: 475593

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 474785

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bis(2-ethylhexyl) phthalate	100	83.56		ug/L		84	46 - 138	3	35
Di-n-butyl phthalate	100	81.77		ug/L		82	49 - 138	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*78*		*39 - 140*
2-Fluorobiphenyl (Surr)	*76*		*33 - 126*
Terphenyl-d14 (Surr)	*97*		*13 - 150*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-474635/3
Matrix: Water
Analysis Batch: 474635

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.00		1.00	0.450	mg/L			11/21/25 23:33	1
Nitrate as N	<0.200		0.200	0.0780	mg/L			11/21/25 23:33	1
Sulfate	<1.00		1.00	0.420	mg/L			11/21/25 23:33	1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 310-474635/4
Matrix: Water
Analysis Batch: 474635

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	10.69		mg/L		107	90 - 110		
Nitrate as N			2.00	2.154		mg/L		108	90 - 110		
Nitrate Nitrite as N			4.00	4.272		mg/L		107	90 - 110		
Sulfate			10.0	10.75		mg/L		107	90 - 110		
Nitrite as N			2.00	2.118		mg/L		106	90 - 110		

Lab Sample ID: 310-321193-18 MS
Matrix: Water
Analysis Batch: 474635

Client Sample ID: DGP-1500
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	4.80		5.00	9.637		mg/L		97	80 - 120		
Nitrate as N	<0.200		1.00	1.043		mg/L		104	80 - 120		
Nitrate Nitrite as N	<0.200		2.00	2.013		mg/L		101	80 - 120		
Sulfate	13.5		5.00	18.54		mg/L		100	80 - 120		
Nitrite as N	<0.200		1.00	0.9703		mg/L		97	80 - 120		

Lab Sample ID: 310-321193-18 MSD
Matrix: Water
Analysis Batch: 474635

Client Sample ID: DGP-1500
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4.80		5.00	9.807		mg/L		100	80 - 120	2	15
Nitrate as N	<0.200		1.00	1.102		mg/L		110	80 - 120	5	15
Nitrate Nitrite as N	<0.200		2.00	2.108		mg/L		105	80 - 120	5	15
Sulfate	13.5		5.00	18.94		mg/L		108	80 - 120	2	15
Nitrite as N	<0.200		1.00	1.006		mg/L		101	80 - 120	4	15

Lab Sample ID: MB 310-475457/3
Matrix: Water
Analysis Batch: 475457

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.00		1.00	0.450	mg/L			12/03/25 07:53	1
Sulfate	<1.00		1.00	0.420	mg/L			12/03/25 07:53	1

Lab Sample ID: LCS 310-475457/4
Matrix: Water
Analysis Batch: 475457

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	9.557		mg/L		96	90 - 110		
Sulfate			10.0	9.968		mg/L		100	90 - 110		

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 310-474685/1-A
Matrix: Water
Analysis Batch: 475963

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 474685

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	<2.00		2.00	1.00	mg/L		11/25/25 08:00	12/09/25 14:40	1
Potassium	<2.00		2.00	1.10	mg/L		11/25/25 08:00	12/09/25 14:40	1
Calcium	<1.00		1.00	0.170	mg/L		11/25/25 08:00	12/09/25 14:40	1
Magnesium	<1.00		1.00	0.120	mg/L		11/25/25 08:00	12/09/25 14:40	1

Lab Sample ID: LCS 310-474685/2-A
Matrix: Water
Analysis Batch: 475963

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 474685

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	2.00	2.112		mg/L		106	80 - 120
Potassium	2.00	2.029		mg/L		101	80 - 120
Calcium	2.00	1.881		mg/L		94	80 - 120
Magnesium	2.00	1.883		mg/L		94	80 - 120

Lab Sample ID: MB 310-475034/1-A
Matrix: Water
Analysis Batch: 475316

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 475034

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	<2.00		2.00	1.00	mg/L		12/01/25 08:30	12/02/25 10:42	1
Potassium	<2.00		2.00	1.10	mg/L		12/01/25 08:30	12/02/25 10:42	1
Calcium	<1.00		1.00	0.170	mg/L		12/01/25 08:30	12/02/25 10:42	1
Magnesium	<1.00		1.00	0.120	mg/L		12/01/25 08:30	12/02/25 10:42	1

Lab Sample ID: LCS 310-475034/2-A
Matrix: Water
Analysis Batch: 475316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 475034

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	20.0	18.53		mg/L		93	80 - 120
Potassium	20.0	18.34		mg/L		92	80 - 120
Calcium	20.0	16.92		mg/L		85	80 - 120
Magnesium	20.0	17.68		mg/L		88	80 - 120

Lab Sample ID: MB 310-475308/1-A
Matrix: Water
Analysis Batch: 475536

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 475308

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.500		0.500	0.0790	mg/L		12/03/25 09:00	12/04/25 09:11	1
Manganese	<0.0100		0.0100	0.00410	mg/L		12/03/25 09:00	12/04/25 09:11	1
Sodium	<2.00		2.00	1.00	mg/L		12/03/25 09:00	12/04/25 09:11	1
Potassium	<2.00		2.00	1.10	mg/L		12/03/25 09:00	12/04/25 09:11	1
Calcium	<1.00		1.00	0.170	mg/L		12/03/25 09:00	12/04/25 09:11	1
Magnesium	<1.00		1.00	0.120	mg/L		12/03/25 09:00	12/04/25 09:11	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 310-475308/2-A
Matrix: Water
Analysis Batch: 475536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 475308

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	2.00	1.950		mg/L		98	80 - 120
Manganese	1.00	0.9982		mg/L		100	80 - 120
Sodium	20.0	20.60		mg/L		103	80 - 120
Potassium	20.0	21.59		mg/L		108	80 - 120
Calcium	20.0	18.93		mg/L		95	80 - 120
Magnesium	20.0	19.18		mg/L		96	80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-474685/1-A
Matrix: Water
Analysis Batch: 475867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 474685

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/25/25 08:00	12/08/25 18:03	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/25/25 08:00	12/08/25 18:03	1
Barium	<0.00200		0.00200	0.000660	mg/L		11/25/25 08:00	12/08/25 18:03	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/25/25 08:00	12/08/25 18:03	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/25/25 08:00	12/08/25 18:03	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/25/25 08:00	12/08/25 18:03	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/25/25 08:00	12/08/25 18:03	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/25/25 08:00	12/08/25 18:03	1
Lead	<0.000500		0.000500	0.000330	mg/L		11/25/25 08:00	12/08/25 18:03	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/25/25 08:00	12/08/25 18:03	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/25/25 08:00	12/08/25 18:03	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/25/25 08:00	12/08/25 18:03	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/25/25 08:00	12/08/25 18:03	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		11/25/25 08:00	12/08/25 18:03	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/25/25 08:00	12/08/25 18:03	1

Lab Sample ID: LCS 310-474685/2-A
Matrix: Water
Analysis Batch: 475867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 474685

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2087		mg/L		104	80 - 120
Arsenic	0.200	0.1910		mg/L		95	80 - 120
Barium	0.100	0.1018		mg/L		102	80 - 120
Beryllium	0.100	0.09180		mg/L		92	80 - 120
Cadmium	0.100	0.09239		mg/L		92	80 - 120
Chromium	0.100	0.09685		mg/L		97	80 - 120
Cobalt	0.100	0.09151		mg/L		92	80 - 120
Copper	0.200	0.1925		mg/L		96	80 - 120
Lead	0.200	0.2145		mg/L		107	80 - 120
Nickel	0.200	0.1987		mg/L		99	80 - 120
Selenium	0.400	0.3787		mg/L		95	80 - 120
Silver	0.100	0.1092		mg/L		109	80 - 120
Thallium	0.100	0.1005		mg/L		100	80 - 120
Vanadium	0.100	0.09618		mg/L		96	80 - 120

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

Lab Sample ID: LCS 310-474685/2-A
Matrix: Water
Analysis Batch: 475867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 474685

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Zinc			0.200	0.1881		mg/L		94	80 - 120		

Lab Sample ID: 310-321193-10 DU
Matrix: Water
Analysis Batch: 475867

Client Sample ID: MW-D1
Prep Type: Total/NA
Prep Batch: 474685

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Antimony	<0.00200			<0.00200		mg/L				NC	20
Arsenic	0.00209			0.001899	J	mg/L				10	20
Barium	0.0357			0.03351		mg/L				6	20
Cadmium	<0.000200			<0.000200		mg/L				NC	20
Chromium	<0.00500			<0.00500		mg/L				NC	20
Cobalt	0.000821			0.0007630		mg/L				7	20
Copper	<0.00500			<0.00500		mg/L				NC	20
Lead	0.00165			0.001597		mg/L				3	20
Nickel	0.00961			0.008617		mg/L				11	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	0.00325	J		0.003039	J	mg/L				7	20
Zinc	0.0240			<0.0200		mg/L				NC	20

Lab Sample ID: 310-321193-10 DU
Matrix: Water
Analysis Batch: 476004

Client Sample ID: MW-D1
Prep Type: Total/NA
Prep Batch: 474685

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Beryllium	<0.00100			<0.00100		mg/L				NC	20

Lab Sample ID: MB 310-474686/1-A
Matrix: Water
Analysis Batch: 476129

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 474686

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/25/25 08:00	12/10/25 16:46	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/25/25 08:00	12/10/25 16:46	1
Barium	<0.00200		0.00200	0.000660	mg/L		11/25/25 08:00	12/10/25 16:46	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/25/25 08:00	12/10/25 16:46	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/25/25 08:00	12/10/25 16:46	1
Chromium	<0.00500		0.00500	0.00180	mg/L		11/25/25 08:00	12/10/25 16:46	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/25/25 08:00	12/10/25 16:46	1
Copper	<0.00500		0.00500	0.00320	mg/L		11/25/25 08:00	12/10/25 16:46	1
Lead	<0.000500		0.000500	0.000330	mg/L		11/25/25 08:00	12/10/25 16:46	1
Nickel	<0.00500		0.00500	0.00230	mg/L		11/25/25 08:00	12/10/25 16:46	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/25/25 08:00	12/10/25 16:46	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/25/25 08:00	12/10/25 16:46	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/25/25 08:00	12/10/25 16:46	1
Vanadium	<0.00500		0.00500	0.00170	mg/L		11/25/25 08:00	12/10/25 16:46	1
Zinc	<0.0200		0.0200	0.0130	mg/L		11/25/25 08:00	12/10/25 16:46	1

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

Lab Sample ID: LCS 310-474686/2-A
Matrix: Water
Analysis Batch: 476129

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 474686

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.1824		mg/L		91	80 - 120
Arsenic	0.200	0.1706		mg/L		85	80 - 120
Barium	0.100	0.09016		mg/L		90	80 - 120
Beryllium	0.100	0.08255		mg/L		83	80 - 120
Cadmium	0.100	0.08327		mg/L		83	80 - 120
Chromium	0.100	0.08131		mg/L		81	80 - 120
Cobalt	0.100	0.08134		mg/L		81	80 - 120
Copper	0.200	0.1698		mg/L		85	80 - 120
Lead	0.200	0.1882		mg/L		94	80 - 120
Nickel	0.200	0.1707		mg/L		85	80 - 120
Selenium	0.400	0.3347		mg/L		84	80 - 120
Silver	0.100	0.09409		mg/L		94	80 - 120
Thallium	0.100	0.08259		mg/L		83	80 - 120
Vanadium	0.100	0.08478		mg/L		85	80 - 120
Zinc	0.200	0.1687		mg/L		84	80 - 120

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 500-844987/1-A
Matrix: Water
Analysis Batch: 844989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 844987

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.00		1.00	0.231	mg/L		11/25/25 18:00	11/25/25 23:33	1

Lab Sample ID: LCS 500-844987/2-A
Matrix: Water
Analysis Batch: 844989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 844987

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.32	3.711		mg/L		112	80 - 120

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 310-475234/11
Matrix: Water
Analysis Batch: 475234

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<1.00		1.00	0.500	mg/L			12/01/25 14:14	1

Lab Sample ID: LCS 310-475234/12
Matrix: Water
Analysis Batch: 475234

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	9.99	10.27		mg/L		103	85 - 115

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

Lab Sample ID: MB 310-474616/1
Matrix: Water
Analysis Batch: 474616

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			11/24/25 10:57	1

Lab Sample ID: LCS 310-474616/2
Matrix: Water
Analysis Batch: 474616

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	91.00		mg/L		91	82 - 117

Lab Sample ID: MB 310-474633/1
Matrix: Water
Analysis Batch: 474633

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			11/24/25 11:41	1

Lab Sample ID: LCS 310-474633/2
Matrix: Water
Analysis Batch: 474633

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

Lab Sample ID: MB 310-474762/1
Matrix: Water
Analysis Batch: 474762

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			11/25/25 10:08	1

Lab Sample ID: LCS 310-474762/2
Matrix: Water
Analysis Batch: 474762

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	95.00		mg/L		95	82 - 117

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 310-474812/2
Matrix: Water
Analysis Batch: 474812

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	1000	995.0		mg/L		99	85 - 115

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 310-474812/25
Matrix: Water
Analysis Batch: 474812

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3 to pH 4.5			1000	968.0		mg/L		97	85 - 115		

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Analysis Batch: 474612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-3	TDG-301	Total/NA	Water	8260D	
310-321193-4	TDG-305	Total/NA	Water	8260D	
310-321193-6	DG-901	Total/NA	Water	8260D	
310-321193-7	DG-905	Total/NA	Water	8260D	
310-321193-10	MW-D1	Total/NA	Water	8260D	
MB 310-474612/6	Method Blank	Total/NA	Water	8260D	
LCS 310-474612/7	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-474612/8	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 474672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-8	DG-1001	Total/NA	Water	8260D	
310-321193-9	DG-1005	Total/NA	Water	8260D	
310-321193-11	DG-1101	Total/NA	Water	8260D	
310-321193-12	DG-1105R	Total/NA	Water	8260D	
310-321193-13	DG-1201	Total/NA	Water	8260D	
310-321193-14	DG-1205	Total/NA	Water	8260D	
310-321193-15	DG-1301	Total/NA	Water	8260D	
310-321193-16	DG-1305	Total/NA	Water	8260D	
310-321193-17	DG-1401R	Total/NA	Water	8260D	
310-321193-19	MW-D2	Total/NA	Water	8260D	
MB 310-474672/6	Method Blank	Total/NA	Water	8260D	
LCS 310-474672/7	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-474672/8	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 474771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-1	UG-90	Total/NA	Water	8260D	
310-321193-2	UG-201	Total/NA	Water	8260D	
310-321193-18	DGP-1500	Total/NA	Water	8260D	
310-321193-20	SW-101	Total/NA	Water	8260D	
310-321193-24	MW-D3	Total/NA	Water	8260D	
310-321193-25	Trip Blank 1	Total/NA	Water	8260D	
310-321193-26	Trip Blank 2	Total/NA	Water	8260D	
310-321193-27	Trip Blank 3	Total/NA	Water	8260D	
310-321193-28	Trip Blank 4	Total/NA	Water	8260D	
MB 310-474771/5	Method Blank	Total/NA	Water	8260D	
LCS 310-474771/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-474771/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 474959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-22	MW-P7	Total/NA	Water	8260D	
MB 310-474959/7	Method Blank	Total/NA	Water	8260D	
LCS 310-474959/8	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 475012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-21	Sediment Pond Discharge	Total/NA	Water	8260D	
MB 310-475012/5	Method Blank	Total/NA	Water	8260D	
LCS 310-475012/6	Lab Control Sample	Total/NA	Water	8260D	

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Prep Batch: 474785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-15	DG-1301	Total/NA	Water	3510C	
310-321193-18	DGP-1500	Total/NA	Water	3510C	
MB 310-474785/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-474785/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-474785/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 475593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-15	DG-1301	Total/NA	Water	8270E	474785
310-321193-18	DGP-1500	Total/NA	Water	8270E	474785
MB 310-474785/1-A	Method Blank	Total/NA	Water	8270E	474785
LCS 310-474785/2-A	Lab Control Sample	Total/NA	Water	8270E	474785
LCSD 310-474785/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	474785

HPLC/IC

Analysis Batch: 474635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-18	DGP-1500	Total/NA	Water	9056A	
MB 310-474635/3	Method Blank	Total/NA	Water	9056A	
LCS 310-474635/4	Lab Control Sample	Total/NA	Water	9056A	
310-321193-18 MS	DGP-1500	Total/NA	Water	9056A	
310-321193-18 MSD	DGP-1500	Total/NA	Water	9056A	

Analysis Batch: 475457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-5	DG-609	Total/NA	Water	9056A	
310-321193-6	DG-901	Total/NA	Water	9056A	
310-321193-8	DG-1001	Total/NA	Water	9056A	
310-321193-9	DG-1005	Total/NA	Water	9056A	
310-321193-11	DG-1101	Total/NA	Water	9056A	
310-321193-23	MWP-14	Total/NA	Water	9056A	
MB 310-475457/3	Method Blank	Total/NA	Water	9056A	
LCS 310-475457/4	Lab Control Sample	Total/NA	Water	9056A	

Metals

Prep Batch: 474685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-1	UG-90	Total/NA	Water	3005A	
310-321193-2	UG-201	Total/NA	Water	3005A	
310-321193-3	TDG-301	Total/NA	Water	3005A	
310-321193-4	TDG-305	Total/NA	Water	3005A	
310-321193-5	DG-609	Total/NA	Water	3005A	
310-321193-6	DG-901	Total/NA	Water	3005A	
310-321193-7	DG-905	Total/NA	Water	3005A	
310-321193-8	DG-1001	Total/NA	Water	3005A	
310-321193-9	DG-1005	Total/NA	Water	3005A	
310-321193-10	MW-D1	Total/NA	Water	3005A	
310-321193-11	DG-1101	Total/NA	Water	3005A	
310-321193-12	DG-1105R	Total/NA	Water	3005A	
310-321193-13	DG-1201	Total/NA	Water	3005A	

Metals (Continued)

Prep Batch: 474685 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-14	DG-1205	Total/NA	Water	3005A	
310-321193-15	DG-1301	Total/NA	Water	3005A	
310-321193-16	DG-1305	Total/NA	Water	3005A	
310-321193-17	DG-1401R	Total/NA	Water	3005A	
MB 310-474685/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-474685/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-321193-10 DU	MW-D1	Total/NA	Water	3005A	

Prep Batch: 474686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-18	DGP-1500	Total/NA	Water	3005A	
310-321193-19	MW-D2	Total/NA	Water	3005A	
310-321193-20	SW-101	Total/NA	Water	3005A	
310-321193-24	MW-D3	Total/NA	Water	3005A	
MB 310-474686/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-474686/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 475034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-6	DG-901	Total/NA	Water	3005A	
310-321193-8	DG-1001	Total/NA	Water	3005A	
310-321193-9	DG-1005	Total/NA	Water	3005A	
310-321193-11	DG-1101	Total/NA	Water	3005A	
310-321193-23	MWP-14	Total/NA	Water	3005A	
MB 310-475034/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-475034/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 475308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-18	DGP-1500	Total/NA	Water	3005A	
MB 310-475308/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-475308/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 475316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-6	DG-901	Total/NA	Water	6010D	475034
310-321193-8	DG-1001	Total/NA	Water	6010D	475034
310-321193-9	DG-1005	Total/NA	Water	6010D	475034
310-321193-11	DG-1101	Total/NA	Water	6010D	475034
310-321193-23	MWP-14	Total/NA	Water	6010D	475034
MB 310-475034/1-A	Method Blank	Total/NA	Water	6010D	475034
LCS 310-475034/2-A	Lab Control Sample	Total/NA	Water	6010D	475034

Analysis Batch: 475536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-18	DGP-1500	Total/NA	Water	6010D	475308
MB 310-475308/1-A	Method Blank	Total/NA	Water	6010D	475308
LCS 310-475308/2-A	Lab Control Sample	Total/NA	Water	6010D	475308

Metals

Analysis Batch: 475867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-1	UG-90	Total/NA	Water	6020B	474685
310-321193-2	UG-201	Total/NA	Water	6020B	474685
310-321193-3	TDG-301	Total/NA	Water	6020B	474685
310-321193-4	TDG-305	Total/NA	Water	6020B	474685
310-321193-6	DG-901	Total/NA	Water	6020B	474685
310-321193-7	DG-905	Total/NA	Water	6020B	474685
310-321193-8	DG-1001	Total/NA	Water	6020B	474685
310-321193-9	DG-1005	Total/NA	Water	6020B	474685
310-321193-10	MW-D1	Total/NA	Water	6020B	474685
310-321193-11	DG-1101	Total/NA	Water	6020B	474685
310-321193-12	DG-1105R	Total/NA	Water	6020B	474685
310-321193-13	DG-1201	Total/NA	Water	6020B	474685
310-321193-14	DG-1205	Total/NA	Water	6020B	474685
310-321193-15	DG-1301	Total/NA	Water	6020B	474685
310-321193-16	DG-1305	Total/NA	Water	6020B	474685
310-321193-17	DG-1401R	Total/NA	Water	6020B	474685
MB 310-474685/1-A	Method Blank	Total/NA	Water	6020B	474685
LCS 310-474685/2-A	Lab Control Sample	Total/NA	Water	6020B	474685
310-321193-10 DU	MW-D1	Total/NA	Water	6020B	474685

Analysis Batch: 475963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-5	DG-609	Total/NA	Water	6010D	474685
MB 310-474685/1-A	Method Blank	Total/NA	Water	6010D	474685
LCS 310-474685/2-A	Lab Control Sample	Total/NA	Water	6010D	474685

Analysis Batch: 476004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-3	TDG-301	Total/NA	Water	6020B	474685
310-321193-4	TDG-305	Total/NA	Water	6020B	474685
310-321193-6	DG-901	Total/NA	Water	6020B	474685
310-321193-7	DG-905	Total/NA	Water	6020B	474685
310-321193-8	DG-1001	Total/NA	Water	6020B	474685
310-321193-9	DG-1005	Total/NA	Water	6020B	474685
310-321193-10	MW-D1	Total/NA	Water	6020B	474685
310-321193-11	DG-1101	Total/NA	Water	6020B	474685
310-321193-12	DG-1105R	Total/NA	Water	6020B	474685
310-321193-13	DG-1201	Total/NA	Water	6020B	474685
310-321193-14	DG-1205	Total/NA	Water	6020B	474685
310-321193-15	DG-1301	Total/NA	Water	6020B	474685
310-321193-16	DG-1305	Total/NA	Water	6020B	474685
310-321193-17	DG-1401R	Total/NA	Water	6020B	474685
310-321193-10 DU	MW-D1	Total/NA	Water	6020B	474685

Analysis Batch: 476129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-18	DGP-1500	Total/NA	Water	6020B	474686
310-321193-19	MW-D2	Total/NA	Water	6020B	474686
310-321193-20	SW-101	Total/NA	Water	6020B	474686
310-321193-24	MW-D3	Total/NA	Water	6020B	474686
MB 310-474686/1-A	Method Blank	Total/NA	Water	6020B	474686

Metals (Continued)

Analysis Batch: 476129 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-474686/2-A	Lab Control Sample	Total/NA	Water	6020B	474686

Analysis Batch: 476266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-18	DGP-1500	Total/NA	Water	6020B	474686
310-321193-19	MW-D2	Total/NA	Water	6020B	474686
310-321193-24	MW-D3	Total/NA	Water	6020B	474686

General Chemistry

Analysis Batch: 474616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-3	TDG-301	Total/NA	Water	I-3765-85	
310-321193-4	TDG-305	Total/NA	Water	I-3765-85	
310-321193-5	DG-609	Total/NA	Water	I-3765-85	
310-321193-6	DG-901	Total/NA	Water	I-3765-85	
310-321193-7	DG-905	Total/NA	Water	I-3765-85	
310-321193-10	MW-D1	Total/NA	Water	I-3765-85	
MB 310-474616/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-474616/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 474633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-1	UG-90	Total/NA	Water	I-3765-85	
310-321193-2	UG-201	Total/NA	Water	I-3765-85	
310-321193-8	DG-1001	Total/NA	Water	I-3765-85	
310-321193-9	DG-1005	Total/NA	Water	I-3765-85	
310-321193-11	DG-1101	Total/NA	Water	I-3765-85	
310-321193-12	DG-1105R	Total/NA	Water	I-3765-85	
310-321193-13	DG-1201	Total/NA	Water	I-3765-85	
310-321193-14	DG-1205	Total/NA	Water	I-3765-85	
310-321193-15	DG-1301	Total/NA	Water	I-3765-85	
310-321193-16	DG-1305	Total/NA	Water	I-3765-85	
310-321193-17	DG-1401R	Total/NA	Water	I-3765-85	
310-321193-18	DGP-1500	Total/NA	Water	I-3765-85	
310-321193-19	MW-D2	Total/NA	Water	I-3765-85	
310-321193-20	SW-101	Total/NA	Water	I-3765-85	
MB 310-474633/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-474633/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 474762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-24	MW-D3	Total/NA	Water	I-3765-85	
MB 310-474762/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-474762/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 474812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-5	DG-609	Total/NA	Water	SM 2320B	
310-321193-6	DG-901	Total/NA	Water	SM 2320B	
310-321193-8	DG-1001	Total/NA	Water	SM 2320B	

General Chemistry (Continued)

Analysis Batch: 474812 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-9	DG-1005	Total/NA	Water	SM 2320B	
310-321193-11	DG-1101	Total/NA	Water	SM 2320B	
310-321193-18	DGP-1500	Total/NA	Water	SM 2320B	
310-321193-23	MWP-14	Total/NA	Water	SM 2320B	
LCS 310-474812/2	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 310-474812/25	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 475234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-5	DG-609	Total/NA	Water	9060A	
310-321193-8	DG-1001	Total/NA	Water	9060A	
310-321193-9	DG-1005	Total/NA	Water	9060A	
310-321193-18	DGP-1500	Total/NA	Water	9060A	
310-321193-23	MWP-14	Total/NA	Water	9060A	
MB 310-475234/11	Method Blank	Total/NA	Water	9060A	
LCS 310-475234/12	Lab Control Sample	Total/NA	Water	9060A	

Prep Batch: 844987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-18	DGP-1500	Total/NA	Water	9030B	
MB 500-844987/1-A	Method Blank	Total/NA	Water	9030B	
LCS 500-844987/2-A	Lab Control Sample	Total/NA	Water	9030B	

Analysis Batch: 844989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-18	DGP-1500	Total/NA	Water	9034	844987
MB 500-844987/1-A	Method Blank	Total/NA	Water	9034	844987
LCS 500-844987/2-A	Lab Control Sample	Total/NA	Water	9034	844987

Lab Chronicle

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

Client Sample ID: UG-90
Date Collected: 11/20/25 09:45
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	474771	WSE8	EET CF	11/26/25 02:42
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	475867	NFT2	EET CF	12/08/25 18:20
Total/NA	Analysis	I-3765-85		1	474633	DGU1	EET CF	11/24/25 11:41

Client Sample ID: UG-201
Date Collected: 11/20/25 10:27
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	474771	WSE8	EET CF	11/26/25 03:05
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	475867	NFT2	EET CF	12/08/25 18:22
Total/NA	Analysis	I-3765-85		1	474633	DGU1	EET CF	11/24/25 11:41

Client Sample ID: TDG-301
Date Collected: 11/18/25 15:46
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	474612	WSE8	EET CF	11/24/25 17:08
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	475867	NFT2	EET CF	12/08/25 18:31
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	476004	NFT2	EET CF	12/09/25 17:40
Total/NA	Analysis	I-3765-85		1	474616	DGU1	EET CF	11/24/25 10:57

Client Sample ID: TDG-305
Date Collected: 11/18/25 15:16
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	474612	WSE8	EET CF	11/24/25 17:31
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	475867	NFT2	EET CF	12/08/25 18:34
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	476004	NFT2	EET CF	12/09/25 17:43
Total/NA	Analysis	I-3765-85		1	474616	DGU1	EET CF	11/24/25 10:57

Client Sample ID: DG-609
Date Collected: 11/20/25 09:02
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	475457	HE7K	EET CF	12/03/25 11:52

Lab Chronicle

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-609
Date Collected: 11/20/25 09:02
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6010D		1	475963	ZRI4	EET CF	12/09/25 14:43
Total/NA	Analysis	9060A		1	475234	HE7K	EET CF	12/02/25 01:38
Total/NA	Analysis	I-3765-85		1	474616	DGU1	EET CF	11/24/25 10:57
Total/NA	Analysis	SM 2320B		1	474812	T5AC	EET CF	11/24/25 20:54

Client Sample ID: DG-901
Date Collected: 11/18/25 16:35
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	474612	WSE8	EET CF	11/24/25 17:53
Total/NA	Analysis	9056A		5	475457	HE7K	EET CF	12/03/25 12:27
Total/NA	Prep	3005A			475034	RLT9	EET CF	12/01/25 08:30
Total/NA	Analysis	6010D		1	475316	ZRI4	EET CF	12/02/25 10:57
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	475867	NFT2	EET CF	12/08/25 18:39
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	476004	NFT2	EET CF	12/09/25 17:48
Total/NA	Analysis	I-3765-85		1	474616	DGU1	EET CF	11/24/25 10:57
Total/NA	Analysis	SM 2320B		1	474812	T5AC	EET CF	11/24/25 21:04

Client Sample ID: DG-905
Date Collected: 11/18/25 14:31
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	474612	WSE8	EET CF	11/24/25 18:16
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	475867	NFT2	EET CF	12/08/25 18:42
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	476004	NFT2	EET CF	12/09/25 17:51
Total/NA	Analysis	I-3765-85		1	474616	DGU1	EET CF	11/24/25 10:57

Client Sample ID: DG-1001
Date Collected: 11/19/25 09:57
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	474672	WSE8	EET CF	11/25/25 03:17
Total/NA	Analysis	9056A		5	475457	HE7K	EET CF	12/03/25 12:38
Total/NA	Prep	3005A			475034	RLT9	EET CF	12/01/25 08:30
Total/NA	Analysis	6010D		1	475316	ZRI4	EET CF	12/02/25 10:58

Lab Chronicle

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-1001
Date Collected: 11/19/25 09:57
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	475867	NFT2	EET CF	12/08/25 18:45
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	476004	NFT2	EET CF	12/09/25 17:54
Total/NA	Analysis	9060A		1	475234	HE7K	EET CF	12/02/25 02:14
Total/NA	Analysis	I-3765-85		1	474633	DGU1	EET CF	11/24/25 11:41
Total/NA	Analysis	SM 2320B		1	474812	T5AC	EET CF	11/24/25 19:41

Client Sample ID: DG-1005
Date Collected: 11/19/25 10:38
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	474672	WSE8	EET CF	11/25/25 03:40
Total/NA	Analysis	9056A		5	475457	HE7K	EET CF	12/03/25 12:50
Total/NA	Prep	3005A			475034	RLT9	EET CF	12/01/25 08:30
Total/NA	Analysis	6010D		1	475316	ZRI4	EET CF	12/02/25 11:00
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	475867	NFT2	EET CF	12/08/25 18:48
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	476004	NFT2	EET CF	12/09/25 17:57
Total/NA	Analysis	9060A		1	475234	HE7K	EET CF	12/02/25 02:50
Total/NA	Analysis	I-3765-85		1	474633	DGU1	EET CF	11/24/25 11:41
Total/NA	Analysis	SM 2320B		1	474812	T5AC	EET CF	11/24/25 21:17

Client Sample ID: MW-D1
Date Collected: 11/18/25 15:16
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	474612	WSE8	EET CF	11/24/25 18:38
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	475867	NFT2	EET CF	12/08/25 18:51
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	476004	NFT2	EET CF	12/09/25 18:08
Total/NA	Analysis	I-3765-85		1	474616	DGU1	EET CF	11/24/25 10:57

Client Sample ID: DG-1101
Date Collected: 11/19/25 11:25
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	474672	WSE8	EET CF	11/25/25 04:03
Total/NA	Analysis	9056A		5	475457	HE7K	EET CF	12/03/25 13:01

Lab Chronicle

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-1101
Date Collected: 11/19/25 11:25
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			475034	RLT9	EET CF	12/01/25 08:30
Total/NA	Analysis	6010D		1	475316	ZRI4	EET CF	12/02/25 11:04
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	475867	NFT2	EET CF	12/08/25 18:56
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	476004	NFT2	EET CF	12/09/25 18:17
Total/NA	Analysis	I-3765-85		1	474633	DGU1	EET CF	11/24/25 11:41
Total/NA	Analysis	SM 2320B		1	474812	T5AC	EET CF	11/24/25 21:34

Client Sample ID: DG-1105R
Date Collected: 11/19/25 11:55
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	474672	WSE8	EET CF	11/25/25 04:25
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	475867	NFT2	EET CF	12/08/25 19:05
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	476004	NFT2	EET CF	12/09/25 18:20
Total/NA	Analysis	I-3765-85		1	474633	DGU1	EET CF	11/24/25 11:41

Client Sample ID: DG-1201
Date Collected: 11/19/25 12:43
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	474672	WSE8	EET CF	11/25/25 04:48
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	475867	NFT2	EET CF	12/08/25 19:08
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	476004	NFT2	EET CF	12/09/25 18:22
Total/NA	Analysis	I-3765-85		1	474633	DGU1	EET CF	11/24/25 11:41

Client Sample ID: DG-1205
Date Collected: 11/19/25 13:14
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	474672	WSE8	EET CF	11/25/25 05:11
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	475867	NFT2	EET CF	12/08/25 19:11
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	476004	NFT2	EET CF	12/09/25 18:25
Total/NA	Analysis	I-3765-85		1	474633	DGU1	EET CF	11/24/25 11:41

Lab Chronicle

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DG-1301
Date Collected: 11/19/25 13:57
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	474672	WSE8	EET CF	11/25/25 05:33
Total/NA	Prep	3510C			474785	J5BR	EET CF	11/25/25 11:32
Total/NA	Analysis	8270E		1	475593	D2YP	EET CF	12/05/25 09:01
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	475867	NFT2	EET CF	12/08/25 19:13
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	476004	NFT2	EET CF	12/09/25 18:28
Total/NA	Analysis	I-3765-85		1	474633	DGU1	EET CF	11/24/25 11:41

Client Sample ID: DG-1305
Date Collected: 11/19/25 14:55
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	474672	WSE8	EET CF	11/25/25 05:56
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	475867	NFT2	EET CF	12/08/25 19:16
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	476004	NFT2	EET CF	12/09/25 18:31
Total/NA	Analysis	I-3765-85		1	474633	DGU1	EET CF	11/24/25 11:41

Client Sample ID: DG-1401R
Date Collected: 11/19/25 15:31
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	474672	WSE8	EET CF	11/25/25 06:18
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	475867	NFT2	EET CF	12/08/25 19:19
Total/NA	Prep	3005A			474685	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	476004	NFT2	EET CF	12/09/25 18:39
Total/NA	Analysis	I-3765-85		1	474633	DGU1	EET CF	11/24/25 11:41

Client Sample ID: DGP-1500
Date Collected: 11/20/25 11:28
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	474771	WSE8	EET CF	11/26/25 03:27
Total/NA	Prep	3510C			474785	J5BR	EET CF	11/25/25 11:32
Total/NA	Analysis	8270E		1	475593	D2YP	EET CF	12/05/25 09:31
Total/NA	Analysis	9056A		1	474635	HE7K	EET CF	11/21/25 23:58
Total/NA	Prep	3005A			475308	RLT9	EET CF	12/03/25 09:00
Total/NA	Analysis	6010D		1	475536	ZRI4	EET CF	12/04/25 09:16

Lab Chronicle

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

Client Sample ID: DGP-1500
Date Collected: 11/20/25 11:28
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			474686	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	476266	NFT2	EET CF	12/11/25 16:43
Total/NA	Prep	3005A			474686	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	476129	NFT2	EET CF	12/10/25 18:00
Total/NA	Prep	9030B			844987	CLB	EET CHI	11/25/25 18:26 - 11/25/25 18:28 [1]
Total/NA	Analysis	9034		1	844989	CLB	EET CHI	11/26/25 00:47 - 11/26/25 00:52 [1]
Total/NA	Analysis	9060A		1	475234	HE7K	EET CF	12/02/25 04:38
Total/NA	Analysis	I-3765-85		1	474633	DGU1	EET CF	11/24/25 11:41
Total/NA	Analysis	SM 2320B		1	474812	T5AC	EET CF	11/24/25 21:45

Client Sample ID: MW-D2
Date Collected: 11/19/25 12:43
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	474672	WSE8	EET CF	11/25/25 06:41
Total/NA	Prep	3005A			474686	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	476266	NFT2	EET CF	12/11/25 16:46
Total/NA	Prep	3005A			474686	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	476129	NFT2	EET CF	12/10/25 18:03
Total/NA	Analysis	I-3765-85		1	474633	DGU1	EET CF	11/24/25 11:41

Client Sample ID: SW-101
Date Collected: 11/20/25 11:45
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	474771	WSE8	EET CF	11/26/25 03:50
Total/NA	Prep	3005A			474686	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	476129	NFT2	EET CF	12/10/25 17:08
Total/NA	Analysis	I-3765-85		1	474633	DGU1	EET CF	11/24/25 11:41

Client Sample ID: Sediment Pond Discharge
Date Collected: 11/20/25 11:52
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	475012	WSE8	EET CF	11/27/25 23:26

Client Sample ID: MW-P7
Date Collected: 11/19/25 14:18
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	474959	WSE8	EET CF	11/27/25 07:59

Lab Chronicle

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

Client Sample ID: MWP-14
Date Collected: 11/19/25 16:04
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	475457	HE7K	EET CF	12/03/25 13:13
Total/NA	Prep	3005A			475034	RLT9	EET CF	12/01/25 08:30
Total/NA	Analysis	6010D		1	475316	ZRI4	EET CF	12/02/25 11:05
Total/NA	Analysis	9060A		1	475234	HE7K	EET CF	12/02/25 05:15
Total/NA	Analysis	SM 2320B		1	474812	T5AC	EET CF	11/24/25 21:56

Client Sample ID: MW-D3
Date Collected: 11/20/25 11:52
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	474771	WSE8	EET CF	11/26/25 04:12
Total/NA	Prep	3005A			474686	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	476266	NFT2	EET CF	12/11/25 16:48
Total/NA	Prep	3005A			474686	RLT9	EET CF	11/25/25 08:00
Total/NA	Analysis	6020B		1	476129	NFT2	EET CF	12/10/25 18:05
Total/NA	Analysis	I-3765-85		1	474762	DGU1	EET CF	11/25/25 10:08

Client Sample ID: Trip Blank 1
Date Collected: 11/20/25 00:00
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	474771	WSE8	EET CF	11/25/25 22:57

Client Sample ID: Trip Blank 2
Date Collected: 11/20/25 00:00
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	474771	WSE8	EET CF	11/25/25 23:19

Client Sample ID: Trip Blank 3
Date Collected: 11/20/25 00:00
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	474771	WSE8	EET CF	11/25/25 23:42

Client Sample ID: Trip Blank 4
Date Collected: 11/20/25 00:00
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	474771	WSE8	EET CF	11/26/25 00:04

Lab Chronicle

Client: SCS Engineers
Job ID: 310-321193-1
Project/Site: NWIA - Spring 2025 - HMSP
SDG: NWIA Sanitary Landfill

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

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 *

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	12-03-25
Georgia (DW)	State	939	05-31-26
Illinois	NELAP	100201	12-03-25
Indiana	State	C-IL-02	05-31-26
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-26
Kentucky (UST)	State	108083	12-09-25
Kentucky (WW)	State	KY90023	12-31-26
Louisiana (All)	NELAP	02046	12-07-25
Mississippi	State	NA	05-31-26
North Carolina (WW/SW)	State	291	12-31-25
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	12-09-25
South Carolina	State	77001	12-07-25
USDA	US Federal Programs	525-25-237-16455	08-25-28
Wisconsin	State	399172840	08-31-26
Wyoming	State	8TMS-Q	05-31-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-1
SDG: NWIA Sanitary Landfill

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CF
9056A	Anions, Ion Chromatography	SW846	EET CF
6010D	Metals (ICP)	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET CHI
9060A	Organic Carbon, Total (TOC)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
SM 2320B	Alkalinity	SM	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET CHI

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

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310-321193 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY W. Des Moines | STATE IA | Project:

Receipt Information

Date/Time Received: DATE 11.21.25 | TIME 1620 | Received By: PF

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 # 1 of 5

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? ↓

TOG-301, 305, DG-901, 905, 1005, MW-01

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other _____ ☐ NONE

Thermometer ID: CC | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 3.3 | Corrected Temp (°C): 3.3

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
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

DGP-1500 has 6 TOC vials

Document CED-P-SAM-FRM45521
Revision 26
Date 27 Jan 2022

Eurofins Cedar Falls

General temperature criteria is 0 to 6°C
Bacteria temperature criteria is 0 to 10°C

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY W. Des Moines | STATE IA | Project:

Receipt Information

Date/Time Received: DATE 11.21.25 | TIME 1620 | Received By: PF

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 # 2 of 5

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? ↓

UG-90, DG-140R, DGP-1500, SW-101, MW-03

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other ☐ NONE

Thermometer ID: CC | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.9 | Corrected Temp (°C): 1.9

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
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

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Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY W. Des Moines STATE IA Project:

Receipt Information

Date/Time Received: DATE 11.21.25 TIME 1620 Received By PF

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 # 3 of 5

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? ↓

DG-1105R, 1201, 1205, 1301, 1305, MW-D2, P7

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: ☐ NONE

Thermometer ID: CC Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 3.8 Corrected Temp (°C): 3.8

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
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

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY W. Des Moines | STATE IA | Project:

Receipt Information

Date/Time Received: DATE 11.21.25 | TIME 1620 | Received By: PH

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 # 4 of 5

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? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other ☐ NONE

Thermometer ID: CC | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 2.3 | Corrected Temp (°C): 2.3

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
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

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY W. Des Moines STATE IA Project:

Receipt Information

Date/Time Received. DATE 11.21.25 TIME 1620 Received By PH

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 # 5 of 5

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? ↓

UG-201, DG-1001, 1101, 1401R

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other._____ ☐ NONE

Thermometer ID CC | Correction Factor (°C). 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.3 | Corrected Temp (°C): 1.3

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
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

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Cedar Falls, IA 50613-6907
phone 319.277.2401 fax 319.277 2425

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DES MOINES SERVICE CENTER
214

Chain of Custody Record

eurofins

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other

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

Client Contact	Project Manager: Sean Marczewski	Site Contact: Brent Kach	Date:	COC No
SCS Engineers	Email: smarczweski@scsengineers com	Lab Contact: Sam Miller	Carrier:	____ of ____ COCs
1690 All-State Court, Suite 100	Cell 712-661-9682			Sampler
West Des Moines, IA 50263	**Analysis Turnaround Time**			**For Lab Use Only:**
	☐CALENDAR DAYS ☐WORKING DAYS			Walk-in Client:
	Other:_____			Lab Sampling
Project Name NWIA - Spring 2025 - HMSP	☐ 2 weeks			
Site NWIA Sanitary Landfill	☐ 1 week			Job / SDG No
P O # 27223095.25	☐ 2 days			
	☐ 1 day			

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	Appendix II	Total Suspended Solids	Geochemical Parameters	Trip Blank	TOC	Sample Specific Notes
UG-90	11-20-25	0949	G	W				X		X				
UG-201	11-20-25	1027	G	W				X		X				
TDG-301	11-18-25	1546	G	W				X		X				
TDG-305	11-18-25	1516	G	W				X		X				
MW-2											X			
DG-609	11-20-25	0902	G	W							X		X	
DG-901	11-18-25	1635	G	W				X		X	X			
DG-905	11-18 25	1431	G	W				X		X				
DG-1001	11-19-25	0957	G	W				X		X	X		X	
DG-1005	11-19-25	1038	G	W				X		X	X		X	
MW-D1	11-18-25	1516	G	W				X		X				
Trip Blank												X		Please include trip blanks n every cooler containing VOC samples

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

☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☐Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: Geochemical Parameters: Bicarbonate, Carbonate Calcium, Magnesium, Potassium Chloride, Sodium, and Sulfate

Custody Seals Intact: ☐Yes ☐No	Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____
Relinquished by: Honor Ratts	Company: SCS	Date/Time 11-21-25/1200	Received by:	Company:	Date/Time
Relinquished by:	Company:	Date/Time	Received by:	Company:	Date/Time
Relinquished by:	Company:	Date/Time	Received in Laboratory by:	Company:	Date/Time 11-21-25 1620

Form No. CA-C-WI-002, Rev. 4.23, dated 4/16/2019

12/12/2025

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Cedar Falls, IA 50613-6907
phone 319 277 2401 fax 319.277.2425

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DES MOINES SERVICE CENTER
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Chain of Custody Record

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other

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

Client Contact	Project Manager: Sean Marczewski	Site Contact: Brent Kach	Date:	COC No
SCS Engineers	Email smarczweski@scsengineers.com	Lab Contact: Sam Miller	Carrier:	____ of ____ COCs
1690 All-State Court, Suite 100	Cell 712-661-9682			Sampler
West Des Moines, IA 50263	**Analysis Turnaround Time**			**For Lab Use Only:**
	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client:
	Other:_____			Lab Sampling
Project Name NWIA - Spring 2025 - HMSP	☐ 2 weeks			
Site NWIA Sanitary Landfill	☐ 1 week			Job / SDG No
P O # 27223095.25	☐ 2 days			
	☐ 1 day			

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	Appendix II	Total Suspended Solids	Geochemical Parameters	Dichlorodifluoromethane	Bis [2-ethylhexyl] phthalate	Natural Attenuation Parameters	Sulfide	Trip Blank	TOC								Sample Specific Notes
DG-1101	11-19-25	1125	G	W				X		X	X														
DG-1105R	11-19-25	1155	G	W				X		X															
DG-1201	11-19-25	1243	G	W				X		X															
DG-1205	11-19-25	1314	G	W				X		X		X													
DG-1301	11-19-25	1357	G	W				X		X			X												
DG-1305	11-19-25	1455	G	W				X		X															
DG-1401R	11-19-25	1531	G	W				X		X															
DGP-1500	11-20-25	1128	G	W				X		X	X		X	X	X		X								
GU-9								X		X															
GU-10								X		X															
MW-D2	11-19-25	1243	G	W				X		X															
Trip Blank																X									Please include trip blanks in every cooler containing VOC samples

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.

☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☐Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: Geochemical Parameters: Bicarbonate, Carbonate, Calcium, Magnesium, Potassium, Chloride, Sodium, and Sulfate
Natural Attenuation Parameters: Total Organic Carbon, Nitrate, Manganese, Iron, and Sulfate
Arsenic Speciation: Arsenite and Arsenate

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd _____ Corr'd _____	Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Thomas Ritter	SCS	11-21-25/1200			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
					11-21-25 1602

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Cedar Falls, IA 50613-6907
phone 319.277.2401 fax 319.277 2425

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DES MOINES SERVICE CENTER
214

Chain of Custody Record

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other

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

Client Contact	Project Manager: Sean Marczewski	Site Contact: Brent Kach	Date:	COC No
SCS Engineers	Email: smarczweski@scsengineers com	Lab Contact: Sam Miller	Carrier:	____ of ____ COCs
1690 All-State Court, Suite 100	Cell 712-661-9682			Sampler
West Des Moines, IA 50263	**Analysis Turnaround Time**			**For Lab Use Only:**
	☐CALENDAR DAYS ☐WORKING DAYS			Walk-in Client:
	Other:_____			Lab Sampling
Project Name NWIA - Spring 2025 - HMSP	☐ 2 weeks			
Site NWIA Sanitary Landfill	☐ 1 week			Job / SDG No
P O # 27223095.25	☐ 2 days			
	☐ 1 day			

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	Total Suspended Solids	Geochemical Parameters	Acetone	Trichloroethene	Trip Blank	TOC	Sample Specific Notes
GU-11								X	X						
GU-12								X	X						
GU-13								X	X						
GU-14								X	X						
GU-15								X	X						
SW-101	11-20-25	11'45	C	W				X	X						
Sediment Pond Discharge	11-20-25	11 52	C	W							X				
MW-P7	11-19-25	1418	G	W								X			
MWP-14	11-19-25	1604	G	W						X				X	
MW-D3	11-20-25	11 52	C	W				X	X						
Trip Blank													X		Please inc ude trip blanks in every cooler containing VOC samples

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.

☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☐Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: Geochemical Parameters: Bicarbonate, Carbonate, Calcium, Magnesium, Potassium, Chloride, Sodium, and Sulfate

Custody Seals Intact: ☐Yes ☐No	Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____
Relinquished by: Kara Botts	Company: SCS	Date/Time 11-21-25/1200	Received by:	Company:	Date/Time
Relinquished by:	Company:	Date/Time	Received by:	Company:	Date/Time
Relinquished by:	Company:	Date/Time	Received in Laboratory by:	Company:	Date/Time 11-21-25 1600

Form No. CA-C-WI-002, Rev. 4.23, dated 4/16/2019

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Phone 319-277-2401 Fax 319-277-2425

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Miller, Samuel	Carrier Tracking No(s): N/A	COC No: 310-89393 1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Samuel Miller@et eurofinsus com	State of Origin: Iowa	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): State Program - Iowa		Job #: 310-321193-1
Address: 18410 Crossing Drive, Suite E,	Due Date Requested: 12/8/2025			Preservation Codes:
City: Tinley Park	TAT Requested (days): N/A			
State Zip: IL, 60487				310-321193 COC
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			Other: N/A
Project Name: NWIA - Spring 2025 - HMSP	Project #: 31002030			
Site: N/A	SSOW#: N/A			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9034_Calc/9030B	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DGP-1500 (310-321193-18)	11/20/25	11 28 Central	G	Water			X	1	

Note Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment.

Relinquished by:	Date/Time: 11/24/25 1155	Company	Received by:	Date/Time: 11/25/25 0930	Company: EETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 1.7 → 17 4894

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-321193-1
SDG Number: NWIA Sanitary Landfill

Login Number: 321193
List Number: 1
Creator: Hirsch, Preston

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-321193-1
SDG Number: NWIA Sanitary Landfill

Login Number: 321193
List Number: 2
Creator: Knox, Angel

List Source: Eurofins Chicago
List Creation: 11/25/25 12:05 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	1.7
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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/24/2025 1:17:55 PM

JOB DESCRIPTION

NWIA - Spring 2025 - HMSP
NWIA Sanitary Landfill

JOB NUMBER

310-321193-2

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

my EOL

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

Generated
11/24/2025 1:17:55 PM

Authorized for release by
Samuel Miller, Project Management Assistant I
Samuel.Miller@et.eurofinsus.com
(319)595-2008

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Job Narrative
310-321193-2

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 11/21/2025 4:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 1.3°C, 1.9°C, 2.3°C, 3.3°C and 3.8°C.

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

Sample Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-2
SDG: NWIA Sanitary Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
310-321193-18	DGP-1500	Water	11/20/25 11:28	11/21/25 16:20	Iowa

Detection Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-2
SDG: NWIA Sanitary Landfill

Client Sample ID: DGP-1500 **Lab Sample ID: 310-321193-18**

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-2
SDG: NWIA Sanitary Landfill

Client Sample ID: DGP-1500
Date Collected: 11/20/25 11:28
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-18
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.200		0.200	0.0780	mg/L			11/21/25 23:58	1

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

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-474635/3
Matrix: Water
Analysis Batch: 474635

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.200		0.200	0.0780	mg/L			11/21/25 23:33	1

Lab Sample ID: LCS 310-474635/4
Matrix: Water
Analysis Batch: 474635

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			2.00	2.154		mg/L		108	90 - 110		
Nitrate Nitrite as N			4.00	4.272		mg/L		107	90 - 110		
Nitrite as N			2.00	2.118		mg/L		106	90 - 110		

Lab Sample ID: 310-321193-18 MS
Matrix: Water
Analysis Batch: 474635

Client Sample ID: DGP-1500
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	<0.200		1.00	1.043		mg/L		104	80 - 120		
Nitrate Nitrite as N	<0.200		2.00	2.013		mg/L		101	80 - 120		
Nitrite as N	<0.200		1.00	0.9703		mg/L		97	80 - 120		

Lab Sample ID: 310-321193-18 MSD
Matrix: Water
Analysis Batch: 474635

Client Sample ID: DGP-1500
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	<0.200		1.00	1.102		mg/L		110	80 - 120	5	15
Nitrate Nitrite as N	<0.200		2.00	2.108		mg/L		105	80 - 120	5	15
Nitrite as N	<0.200		1.00	1.006		mg/L		101	80 - 120	4	15

QC Association Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-2
SDG: NWIA Sanitary Landfill

HPLC/IC

Analysis Batch: 474635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321193-18	DGP-1500	Total/NA	Water	9056A	
MB 310-474635/3	Method Blank	Total/NA	Water	9056A	
LCS 310-474635/4	Lab Control Sample	Total/NA	Water	9056A	
310-321193-18 MS	DGP-1500	Total/NA	Water	9056A	
310-321193-18 MSD	DGP-1500	Total/NA	Water	9056A	

Lab Chronicle

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-2
SDG: NWIA Sanitary Landfill

Client Sample ID: DGP-1500
Date Collected: 11/20/25 11:28
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321193-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		1	474635	HE7K	EET CF	11/21/25 23:58

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: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-2
SDG: NWIA Sanitary Landfill

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

Method Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321193-2
SDG: NWIA Sanitary Landfill

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	EET CF

Protocol References:

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

Laboratory References:

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

eurofins | Environment Testing America

310-321193 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY W. Des Moines | STATE IA | Project:

Receipt Information

Date/Time Received: DATE 11.21.25 | TIME 1620 | Received By: PF

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 # 1 of 5

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? ↓

TOG-301, 305, DG-901, 905, 1005, MW-01

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other _____ ☐ NONE

Thermometer ID: CC | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 3.3 | Corrected Temp (°C): 3.3

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
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

DGP-1500 has 6 TOC vials

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY W. Des Moines | STATE IA | Project:

Receipt Information

Date/Time Received: DATE 11.21.25 | TIME 1620 | Received By: PF

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 # 2 of 5

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? ↓

UG-90, DG-140R, DGP-1500, SW-101, MW-03

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other ☐ NONE

Thermometer ID: CC | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.9 | Corrected Temp (°C): 1.9

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
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

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Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY W. Des Moines STATE IA Project:

Receipt Information

Date/Time Received: DATE 11.21.25 TIME 1620 Received By PF

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 # 3 of 5

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? ↓

DG-1105R, 1201, 1205, 1301, 1305, MW-D2, P7

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: ☐ NONE

Thermometer ID: CC Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 3.8 Corrected Temp (°C): 3.8

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
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

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Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY W. Des Moines | STATE IA | Project:

Receipt Information

Date/Time Received: DATE 11.21.25 | TIME 1620 | Received By: PH

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 # 4 of 5

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? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other ☐ NONE

Thermometer ID: CC | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 2.3 | Corrected Temp (°C): 2.3

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
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

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Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY W. Des Moines STATE IA Project:

Receipt Information

Date/Time Received. DATE 11.21.25 TIME 1620 Received By PH

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 # 5 of 5

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? ↓

UG-201, DG-1001, 1101, 1401R

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other._____ ☐ NONE

Thermometer ID CC Correction Factor (°C). 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.3 Corrected Temp (°C): 1.3

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
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

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Cedar Falls, IA 50613-6907
phone 319.277.2401 fax 319.277 2425

EUROFINS
DES MOINES SERVICE CENTER
214

Chain of Custody Record

eurofins

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other

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

Client Contact	Project Manager: Sean Marczewski	Site Contact: Brent Kach	Date:	COC No
SCS Engineers	Email: smarczweski@scsengineers com	Lab Contact: Sam Miller	Carrier:	____ of ____ COCs
1690 All-State Court, Suite 100	Cell 712-661-9682			Sampler
West Des Moines, IA 50263	**Analysis Turnaround Time**			**For Lab Use Only:**
	☐CALENDAR DAYS ☐WORKING DAYS			Walk-in Client:
	Other:_____			Lab Sampling
Project Name NWIA - Spring 2025 - HMSP	☐ 2 weeks			
Site NWIA Sanitary Landfill	☐ 1 week			Job / SDG No
P O # 27223095.25	☐ 2 days			
	☐ 1 day			

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	Appendix II	Total Suspended Solids	Geochemical Parameters	Trip Blank	TOC	Sample Specific Notes
UG-90	11-20-25	0949	G	W				X		X				
UG-201	11-20-25	1027	G	W				X		X				
TDG-301	11-18-25	1546	G	W				X		X				
TDG-305	11-18-25	1516	G	W				X		X				
MW-2											X			
DG-609	11-20-25	0902	G	W							X		X	
DG-901	11-18-25	1635	G	W				X		X	X			
DG-905	11-18 25	1431	G	W				X		X				
DG-1001	11-19-25	0957	G	W				X		X	X		X	
DG-1005	11-19-25	1038	G	W				X		X	X		X	
MW-D1	11-18-25	1516	G	W				X		X				
Trip Blank												X		Please include trip blanks n every cooler containing VOC samples

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

☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☐Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: Geochemical Parameters: Bicarbonate, Carbonate Calcium, Magnesium, Potassium Chloride, Sodium, and Sulfate

Custody Seals Intact: ☐Yes ☐No	Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____
Relinquished by: Honor Ratts	Company: SCS	Date/Time 11-21-25/1200	Received by:	Company:	Date/Time
Relinquished by:	Company:	Date/Time	Received by:	Company:	Date/Time
Relinquished by:	Company:	Date/Time	Received in Laboratory by:	Company:	Date/Time 11-21-25 1620

Form No. CA-C-WI-002, Rev. 4.23, dated 4/16/2019

11/24/2025

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Cedar Falls, IA 50613-6907
phone 319 277 2401 fax 319.277.2425

EUROFINS
DES MOINES SERVICE CENTER
214

Chain of Custody Record

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other

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

Client Contact	Project Manager: Sean Marczewski	Site Contact: Brent Kach	Date:	COC No
SCS Engineers	Email smarczweski@scsengineers.com	Lab Contact: Sam Miller	Carrier:	____ of ____ COCs
1690 All-State Court, Suite 100	Cell 712-661-9682			Sampler
West Des Moines, IA 50263	**Analysis Turnaround Time**			**For Lab Use Only:**
	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client:
	Other:_____			Lab Sampling
Project Name NWIA - Spring 2025 - HMSP	☐ 2 weeks			
Site NWIA Sanitary Landfill	☐ 1 week			Job / SDG No
P O # 27223095.25	☐ 2 days			
	☐ 1 day			

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	Appendix II	Total Suspended Solids	Geochemical Parameters	Dichlorodifluoromethane	Bis [2-ethylhexyl] phthalate	Natural Attenuation Parameters	Sulfide	Trip Blank	TOC								Sample Specific Notes
DG-1101	11-19-25	1125	G	W				X		X	X														
DG-1105R	11-19-25	1155	G	W				X		X															
DG-1201	11-19-25	1243	G	W				X		X															
DG-1205	11-19-25	1314	G	W				X		X		X													
DG-1301	11-19-25	1357	G	W				X		X			X												
DG-1305	11-19-25	1455	G	W				X		X															
DG-1401R	11-19-25	1531	G	W				X		X															
DGP-1500	11-20-25	1128	G	W				X		X	X		X	X	X		X								
GU-9								X		X															
GU-10								X		X															
MW-D2	11-19-25	1243	G	W				X		X															
Trip Blank																X									Please include trip blanks in every cooler containing VOC samples

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.

☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☐Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: Geochemical Parameters: Bicarbonate, Carbonate, Calcium, Magnesium, Potassium, Chloride, Sodium, and Sulfate
Natural Attenuation Parameters: Total Organic Carbon, Nitrate, Manganese, Iron, and Sulfate
Arsenic Speciation: Arsenite and Arsenate

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ | Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Thomas Ritter	SCS	11-21-25/1200			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
					11-21-25 1602

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Cedar Falls, IA 50613-6907
phone 319.277.2401 fax 319.277 2425

EUROFINS
DES MOINES SERVICE CENTER
214

Chain of Custody Record

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other

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

Client Contact	Project Manager: Sean Marczewski	Site Contact: Brent Kach	Date:	COC No
SCS Engineers	Email: smarczweski@scsengineers com	Lab Contact: Sam Miller	Carrier:	____ of ____ COCs
1690 All-State Court, Suite 100	Cell 712-661-9682			Sampler
West Des Moines, IA 50263	**Analysis Turnaround Time**			**For Lab Use Only:**
	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client:
	Other:_____			Lab Sampling
Project Name NWIA - Spring 2025 - HMSP	☐ 2 weeks			
Site NWIA Sanitary Landfill	☐ 1 week			Job / SDG No
P O # 27223095.25	☐ 2 days			
	☐ 1 day			

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	Total Suspended Solids	Geochemical Parameters	Acetone	Trichloroethene	Trip Blank	TOC	Sample Specific Notes
GU-11								X	X						
GU-12								X	X						
GU-13								X	X						
GU-14								X	X						
GU-15								X	X						
SW-101	11-20-25	11'45	C	W				X	X						
Sediment Pond Discharge	11-20-25	11 52	C	W							X				
MW-P7	11-19-25	1418	G	W								X			
MWP-14	11-19-25	1604	G	W						X				X	
MW-D3	11-20-25	11 52	C	W				X	X						
Trip Blank													X		Please inc ude trip blanks in every cooler containing VOC samples

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.

☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☐Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: Geochemical Parameters: Bicarbonate, Carbonate, Calcium, Magnesium, Potassium, Chloride, Sodium, and Sulfate

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____
Relinquished by: Kara Rotts	Company: SCS	Date/Time 11-21-25/1200	Received by:	Company:	Date/Time
Relinquished by:	Company:	Date/Time	Received by:	Company:	Date/Time
Relinquished by:	Company:	Date/Time	Received in Laboratory by:	Company:	Date/Time 11-21-25 1600

Form No. CA-C-WI-002, Rev. 4.23, dated 4/16/2019

11/24/2025

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-321193-2
SDG Number: NWIA Sanitary Landfill

Login Number: 321193
List Number: 1
Creator: Hirsch, Preston

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/2/2025 1:18:42 AM

JOB DESCRIPTION

NWIA - Spring 2025 - HMSP
NWIA Sanitary Landfill

JOB NUMBER

310-321195-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

myEOL

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

Generated
12/2/2025 1:18:42 AM

Authorized for release by
Samuel Miller, Project Management Assistant I
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Job Narrative
310-321195-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 11/21/2025 4:20 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 1.3°C.

GC/MS VOA
Method 8260D: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container(s): Trip Blank (310-321195-6).

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

Sample Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321195-1
SDG: NWIA Sanitary Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
310-321195-1	MW-15	Water	11/18/25 11:51	11/21/25 16:20	Iowa
310-321195-2	MW-16	Water	11/18/25 12:38	11/21/25 16:20	Iowa
310-321195-3	MW-17	Water	11/18/25 11:28	11/21/25 16:20	Iowa
310-321195-4	MW-18	Water	11/18/25 12:13	11/21/25 16:20	Iowa
310-321195-5	ORG-MW	Water	11/18/25 11:05	11/21/25 16:20	Iowa
310-321195-6	Trip Blank	Water	11/18/25 00:00	11/21/25 16:20	Iowa

Detection Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321195-1
SDG: NWIA Sanitary Landfill

Client Sample ID: MW-15 — Lab Sample ID: 310-321195-1

No Detections.

Client Sample ID: MW-16 — Lab Sample ID: 310-321195-2

No Detections.

Client Sample ID: MW-17 — Lab Sample ID: 310-321195-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.425	J	1.00	0.350	ug/L	1		8260D	Total/NA

Client Sample ID: MW-18 — Lab Sample ID: 310-321195-4

No Detections.

Client Sample ID: ORG-MW — Lab Sample ID: 310-321195-5

No Detections.

Client Sample ID: Trip Blank — Lab Sample ID: 310-321195-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321195-1
SDG: NWIA Sanitary Landfill

Client Sample ID: MW-15
Date Collected: 11/18/25 11:51
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321195-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.00		1.00	0.350	ug/L			11/27/25 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*76 - 130*		*11/27/25 02:43*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/27/25 02:43*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*11/27/25 02:43*	*1*

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321195-1
SDG: NWIA Sanitary Landfill

Client Sample ID: MW-16
Date Collected: 11/18/25 12:38
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321195-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.00		1.00	0.350	ug/L			11/26/25 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*76 - 130*		*11/26/25 18:25*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/26/25 18:25*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*11/26/25 18:25*	*1*

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321195-1
SDG: NWIA Sanitary Landfill

Client Sample ID: MW-17
Date Collected: 11/18/25 11:28
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321195-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.425	J	1.00	0.350	ug/L			11/26/25 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*76 - 130*		*11/26/25 18:47*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/26/25 18:47*	*1*
4-Bromofluorobenzene (Surr)	*82*		*80 - 120*		*11/26/25 18:47*	*1*

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321195-1
SDG: NWIA Sanitary Landfill

Client Sample ID: MW-18
Date Collected: 11/18/25 12:13
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321195-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.00		1.00	0.350	ug/L			11/26/25 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*76 - 130*		*11/26/25 19:09*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/26/25 19:09*	*1*
4-Bromofluorobenzene (Surr)	*88*		*80 - 120*		*11/26/25 19:09*	*1*

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321195-1
SDG: NWIA Sanitary Landfill

Client Sample ID: ORG-MW
Date Collected: 11/18/25 11:05
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321195-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.00		1.00	0.350	ug/L			11/26/25 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*76 - 130*		*11/26/25 19:30*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/26/25 19:30*	*1*
4-Bromofluorobenzene (Surr)	*87*		*80 - 120*		*11/26/25 19:30*	*1*

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321195-1
SDG: NWIA Sanitary Landfill

Client Sample ID: Trip Blank
Date Collected: 11/18/25 00:00
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321195-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.00		1.00	0.350	ug/L			11/27/25 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*76 - 130*		*11/27/25 02:00*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/27/25 02:00*	*1*
4-Bromofluorobenzene (Surr)	*83*		*80 - 120*		*11/27/25 02:00*	*1*

Definitions/Glossary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321195-1
SDG: NWIA Sanitary Landfill

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.

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: NWIA - Spring 2025 - HMSP

Job ID: 310-321195-1
SDG: NWIA Sanitary Landfill

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(76-130)	(80-120)	(80-120)
310-321195-1	MW-15	114	94	92
310-321195-1 MS	MW-15	98	100	109
310-321195-1 MSD	MW-15	99	96	107
310-321195-2	MW-16	100	96	90
310-321195-3	MW-17	105	97	82
310-321195-4	MW-18	111	94	88
310-321195-5	ORG-MW	109	97	87
310-321195-6	Trip Blank	112	94	83
LCS 310-475037/7	Lab Control Sample	99	101	103
LCS 310-475039/7	Lab Control Sample	101	96	99
MB 310-475037/6	Method Blank	103	103	93
MB 310-475039/6	Method Blank	106	95	87

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

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

Lab Sample ID: MB 310-475037/6
Matrix: Water
Analysis Batch: 475037

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.00		1.00	0.350	ug/L			11/26/25 14:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*76 - 130*		*11/26/25 14:04*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*11/26/25 14:04*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*11/26/25 14:04*	*1*

Lab Sample ID: LCS 310-475037/7
Matrix: Water
Analysis Batch: 475037

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Trichloroethene			20.0	17.48		ug/L		87	70 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*76 - 130*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*

Lab Sample ID: MB 310-475039/6
Matrix: Water
Analysis Batch: 475039

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.00		1.00	0.350	ug/L			11/27/25 00:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*76 - 130*		*11/27/25 00:33*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*11/27/25 00:33*	*1*
4-Bromofluorobenzene (Surr)	*87*		*80 - 120*		*11/27/25 00:33*	*1*

Lab Sample ID: LCS 310-475039/7
Matrix: Water
Analysis Batch: 475039

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Trichloroethene			20.0	19.29		ug/L		96	70 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*76 - 130*
Toluene-d8 (Surr)	*96*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

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

Lab Sample ID: 310-321195-1 MS
Matrix: Water
Analysis Batch: 475039

Client Sample ID: MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Trichloroethene	<1.00		25.0	21.21		ug/L		85	50 - 128		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*98*		*76 - 130*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*

Lab Sample ID: 310-321195-1 MSD
Matrix: Water
Analysis Batch: 475039

Client Sample ID: MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Trichloroethene	<1.00		25.0	19.81		ug/L		79	50 - 128	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*76 - 130*
Toluene-d8 (Surr)	*96*		*80 - 120*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*

QC Association Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321195-1
SDG: NWIA Sanitary Landfill

GC/MS VOA

Analysis Batch: 475037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321195-2	MW-16	Total/NA	Water	8260D	
310-321195-3	MW-17	Total/NA	Water	8260D	
310-321195-4	MW-18	Total/NA	Water	8260D	
310-321195-5	ORG-MW	Total/NA	Water	8260D	
MB 310-475037/6	Method Blank	Total/NA	Water	8260D	
LCS 310-475037/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 475039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-321195-1	MW-15	Total/NA	Water	8260D	
310-321195-6	Trip Blank	Total/NA	Water	8260D	
MB 310-475039/6	Method Blank	Total/NA	Water	8260D	
LCS 310-475039/7	Lab Control Sample	Total/NA	Water	8260D	
310-321195-1 MS	MW-15	Total/NA	Water	8260D	
310-321195-1 MSD	MW-15	Total/NA	Water	8260D	

Lab Chronicle

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321195-1
SDG: NWIA Sanitary Landfill

Client Sample ID: MW-15
Date Collected: 11/18/25 11:51
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321195-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	475039	MZR8	EET CF	11/27/25 02:43

Client Sample ID: MW-16
Date Collected: 11/18/25 12:38
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321195-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	475037	MZR8	EET CF	11/26/25 18:25

Client Sample ID: MW-17
Date Collected: 11/18/25 11:28
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321195-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	475037	MZR8	EET CF	11/26/25 18:47

Client Sample ID: MW-18
Date Collected: 11/18/25 12:13
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321195-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	475037	MZR8	EET CF	11/26/25 19:09

Client Sample ID: ORG-MW
Date Collected: 11/18/25 11:05
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321195-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	475037	MZR8	EET CF	11/26/25 19:30

Client Sample ID: Trip Blank
Date Collected: 11/18/25 00:00
Date Received: 11/21/25 16:20

Lab Sample ID: 310-321195-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	475039	MZR8	EET CF	11/27/25 02:00

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: NWIA - Spring 2025 - HMSP

Job ID: 310-321195-1
SDG: NWIA Sanitary Landfill

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

Method Summary

Client: SCS Engineers
Project/Site: NWIA - Spring 2025 - HMSP

Job ID: 310-321195-1
SDG: NWIA Sanitary Landfill

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	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.

Laboratory References:

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

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310-321195 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS Engineers

City/State: CITY Des Moines STATE IA | Project:

Receipt Information

Date/Time Received: DATE 11/21/25 TIME 1620 | Received By ES

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? ↓

All

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other._____ ☐ NONE

Thermometer ID. AA | Correction Factor (°C). 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C). 1.3 | Corrected Temp (°C) 1.3

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
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

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Cedar Falls, IA 50613-6907
phone 319.277 2401 fax 319.277.2425

EUROFINS
DES MOINES SERVICE CENTER
214

Chain of Custody Record

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Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

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

Client Contact	Project Manager: Sean Marczewski	Site Contact: Brent Kach	Date:	COC No
SCS Engineers	Email smarczweski@scsengineers.com	Lab Contact: Sam Miller	Carrier:	_____ of _____ COCs
1690 All-State Court, Suite 100	Cell 712-661-9682			Sampler
West Des Moines, IA 50263	**Analysis Turnaround Time**			**For Lab Use Only:**
	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client:
	Other:_____			Lab Sampling
Project Name NWIA - Spring 2025 - HMSP	☐ 2 weeks			Job / SDG No
Site NWIA Sanitary Landfill	☐ 1 week			
P O # 27223095 25	☐ 2 days			
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Trichloroethene	Trip Blank	Sample Specific Notes
MW-15	11-18-25	1151	G	W				X		
MW-16	11-18-25	1238	G	W				X		
MW-17	11-18-25	1128	G	W				X		
MW-18	11-18-25	1213	G	W				X		
ORG-MW	11-18-25	1105	G	W				X		
Trip Blank									X	Please include trip blanks in every cooler containing VOC samples.

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

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____
Relinquished by: Honor Betts	Company: SCS	Date/Time: 11-21-25 / 1200	Received by:	Company	Date/Time
Relinquished by:	Company:	Date/Time	Received by:	Company:	Date/Time
Relinquished by:	Company:	Date/Time	Received in Laboratory by: EJ	Company: EET	Date/Time: 11/21/25 1620

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12/2/2025

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-321195-1
SDG Number: NWIA Sanitary Landfill

Login Number: 321195
List Number: 1
Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (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

Completed by: Michael Morgan
Sampling Date: 4/17/2025
Lab Report Date: 5/4/2025
Site Name: Northwest Iowa Sanitary Landfill
Project Type: Spring 2025 Retest
Lab Report Number: 310-304691-1

	OK	NO	N/A	NOTES
Sample Collection and Sample Handling				
Chain of Custody	X			
Temperature	X			
Preservation	X			
Condition		X		Method 8260D: The method requirement for no headspace was not met for Trip Blank.
Case Narrative	X			
Holding Times	X			
Analytical Sensitivity and Blanks				
Method Blank Detections	X			No detections.
Trip Blank Detections		X		Acetone was detected as a J flag concentration.
Accuracy				
ICV/CCV	X			
LCS/LCSD	X			
MS/MSD	X			
Surrogates (organics only)	X			
Precision				
QA/QC Sample RPDs	X			
Field Duplicates			X	

Completed by: Michael Morgan
Sampling Date: 6/10/2025
Lab Report Date: 6/23/2025
Site Name: Northwest Iowa Sanitary Landfill
Project Type: HMSP - 1st 2025 Semi-Annual Sampling Event
Lab Report Number: 310-308648-1

	OK	NO	N/A	NOTES
Sample Collection and Sample Handling				
Chain of Custody	X			
Temperature	X			
Preservation	X			
Condition	X			
Case Narrative	X			
Holding Times	X			
Analytical Sensitivity and Blanks				
Method Blank Detections		X		Method 8260D: An analytical batch contained Trichloroethene above the method detection limit (MDL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.
Trip Blank Detections	X			No detections.
Accuracy				
ICV/CCV	X			
LCS/LCSD	X			
MS/MSD	X			
Surrogates (organics only)	X			
Precision				
QA/QC Sample RPDs	X			
Field Duplicates			X	

Completed by: Michael Morgan
Sampling Date: 6/10/2025
Lab Report Date: 6/24/2025
Site Name: Northwest Iowa Sanitary Landfill
Project Type: HMSP - 1st 2025 Semi-Annual Sampling Event
Lab Report Number: 310-308645-1

	OK	NO	N/A	NOTES
Sample Collection and Sample Handling				
Chain of Custody	X			
Temperature	X			
Preservation	X			
Condition	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	

Completed by: Michael Morgan
Sampling Date: 6/9/2025
Lab Report Date: 6/30/2025
Site Name: Northwest Iowa Sanitary Landfill
Project Type: HMSP - 1st 2025 Semi-Annual Sampling Event
Lab Report Number: 310-308642-1

	OK	NO	N/A	NOTES
Sample Collection and Sample Handling				
Chain of Custody	X			
Temperature	X			
Preservation	X			
Condition	X			
Case Narrative	X			
Holding Times	X			
Analytical Sensitivity and Blanks				
Method Blank Detections		X		Cadmium was detected at a J flag concentration.
Trip Blank Detections	X			No detections.
Accuracy				
ICV/CCV		X		Method 8260D: The continuing calibration verification (CCV) associated with batch 310-457548 recovered above the upper control limit for Trichlorofluoromethane (-20.8%D). The LCS associated with this CCV passes CCV criteria for the affected analytes; therefore, the data have been reported. Method 8260D: The continuing calibration verification (CCV) associated with batch 310-457529 recovered outside of the control limits for trans-1,3-Dichloropropene (-22.6%D). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. Method 8260D: The continuing calibration verification (CCV) associated with batch 310-457531 recovered outside of the control limits for trans-1,3-Dichloropropene (-24.7%) and Chlorodibromomethane (-20.7%D). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.
LCS/LCSD		X		Method 8270E: The laboratory control sample (LCS) for preparation batch 310-457705 and analytical batch 310-458666 recovered outside control limits for the following analyte: Famphur. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. Method 8270E: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 310-457705 and analytical batch 310-458666 recovered outside control limits for the following analyte(s): Methapyrilene. Methapyrilene has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/reanalysis was not performed.
MS/MSD	X			
Surrogates (organics only)	X			
Precision				
QA/QC Sample RPDs	X			
Field Duplicates	X			A field duplicate sample was collected at DG-1305. RPD for analyzed parameters was <50% with the exception of barium (67.8%). A field duplicate sample was collected at DG-905. RPD for analyzed parameters was <50% with the exception of barium (70.7%).

Completed by: Michael Morgan
Sampling Date: 11/18/2025
Lab Report Date: 11/24/2025
Site Name: Northwest Iowa Sanitary Landfill
Project Type: HMSP - 2nd 2025 Semi-Annual Sampling Event
Lab Report Number: 310-321193-2

	OK	NO	N/A	NOTES
Sample Collection and Sample Handling				
Chain of Custody	X			
Temperature	X			
Preservation	X			
Condition	X			
Case Narrative	X			
Holding Times	X			
Analytical Sensitivity and Blanks				
Method Blank Detections	X			No detections.
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	

Completed by: Michael Morgan
Sampling Date: 11/18/2025
Lab Report Date: 12/2/2025
Site Name: Northwest Iowa Sanitary Landfill
Project Type: HMSP - 2nd 2025 Semi-Annual Sampling Event
Lab Report Number: 310-321195-1

	OK	NO	N/A	NOTES
Sample Collection and Sample Handling				
Chain of Custody	X			
Temperature	X			
Preservation	X			
Condition		X		Method 8260D: The method requirement for no headspace was not met for Trip Blank.
Case Narrative	X			
Holding Times	X			
Analytical Sensitivity and Blanks				
Method Blank Detections	X			No detections.
Trip Blank Detections	X			No detections.
Accuracy				
ICV/CCV	X			
LCS/LCSD	X			
MS/MSD	X			
Surrogates (organics only)	X			
Precision				
QA/QC Sample RPDs	X			
Field Duplicates			X	

Completed by: Michael Morgan
Sampling Date: 11/18/2025
Lab Report Date: 12/4/2025
Site Name: Northwest Iowa Sanitary Landfill
Project Type: HMSP - 2nd 2025 Semi-Annual Sampling Event
Lab Report Number: 310-321192-1

	OK	NO	N/A	NOTES
Sample Collection and Sample Handling				
Chain of Custody	X			
Temperature	X			
Preservation	X			
Condition	X			
Case Narrative	X			
Holding Times	X			
Analytical Sensitivity and Blanks				
Method Blank Detections	X			No detections.
Trip Blank Detections	X			No detections.
Accuracy				
ICV/CCV	X			
LCS/LCSD	X			
MS/MSD	X			
Surrogates (organics only)	X			
Precision				
QA/QC Sample RPDs	X			
Field Duplicates			X	

Completed by: Michael Morgan
Sampling Date: 11/18/2025
Lab Report Date: 12/12/2025
Site Name: Northwest Iowa Sanitary Landfill
Project Type: HMSP - 2nd 2025 Semi-Annual Sampling Event
Lab Report Number: 310-321193-1

	OK	NO	N/A	NOTES
Sample Collection and Sample Handling				
Chain of Custody	X			
Temperature	X			
Preservation	X			
Condition	X			
Case Narrative	X			
Holding Times	X			
Analytical Sensitivity and Blanks				
Method Blank Detections	X			No detections.
Trip Blank Detections		X		Methylene Chloride was detected as a J flag concentration.
Accuracy				
ICV/CCV		X		Method 8260D: The continuing calibration verification (CCV) associated with batch 310-474612 recovered above the upper control limit for Carbon tetrachloride (26%D). The LCS associated with this CCV passed CCV criteria for the affected analyte; therefore, the data have been reported. Method 8260D: The continuing calibration verification (CCV) associated with batch 310-474672 recovered above the upper control limit for Carbon tetrachloride (28%D). The LCS associated with this CCV passed CCV criteria for the affected analyte; therefore, the data have been reported. Method 8260D: The continuing calibration verification (CCV) associated with batch 310-474771 recovered above the upper control limit for Carbon tetrachloride (22%D). The LCS associated with this CCV passed CCV criteria for the affected analyte; therefore, the data have been reported.
LCS/LCSD	X			
MS/MSD	X			
Surrogates (organics only)	X			
Precision				
QA/QC Sample RPDs	X			
Field Duplicates	X			Field duplicate samples were collected at DG-1201 and TDG-305. RPD for analyzed parameters was <50% with the exception of cobalt (55.4%) at TDG-305.

Appendix C
Reporting Period Summary of Groundwater Chemistry

SCS ENGINEERS

Summary of Groundwater Chemistry
Northwest Iowa Area Sanitary Landfill - 84-SDP-01-74P

Total Metals Constituents	Sample Date	UG-90 UPG	UG-201 UPG	DG-609 DNG	DG-901 DNG	DG-905 DNG	DG-1001 DNG	DG-1005 DNG	DG-1101 DNG	DG-1105R DNG	DG-1201 DNG	DG-1205 DNG	DG-1301 DNG	DG-1305 DNG	DG-1401R DNG	DGP-1500 DNG	MW-15 DNG	MW-16 DNG	MW-17 DNG	MW-18 DNG	MWP-7 DNG	MWP-14 DNG	MW-P1 DNG	MW-P7 DNG	ORG-MW DNG	SedDischarge DNG	SedimentPondDisc DNG	SW-101 DNG	TDG-301 DNG	TDG-305 DNG
Antimony, mg/L (CAS NO - 7440-36-0)	6/9/2025	< 0.002	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	< 0.002	< 0.002	< 0.002
	6/9/2025	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	0.00174*	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.00182*	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	< 0.002	0.00199*	< 0.002
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002
Arsenic, mg/L (CAS NO - 7440-38-2)	6/9/2025	0.000821*	0.000638*	N/A	0.00369	0.000829*	< 0.002	0.00219	0.000617*	0.00407	0.000606*	0.00348	0.000591*	0.00118*	0.000948*	0.018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00982	< 0.002	0.0035
	6/9/2025	N/A	N/A	N/A	N/A	0.000933*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000893*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	0.00123*	0.0009*	N/A	0.00851	0.000882*	0.000714*	0.00174*	0.00099*	0.00454	0.00097*	0.00254	0.000666*	0.00144*	0.000579*	0.0123	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00181*	0.00171*	0.00104*	0.00209
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000663*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00175*
Barium, mg/L (CAS NO - 7440-39-3)	6/9/2025	0.0192	0.059	N/A	0.0215	0.034	0.0515	0.041	0.0409	0.0232	0.0251	0.0112	0.0486	0.0391	0.047	0.0518	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.232	0.0181	0.0596
	6/9/2025	N/A	N/A	N/A	N/A	0.0712	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0792	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	0.0206	0.0551	N/A	0.0243	0.0537	0.0523	0.0473	0.053	0.0265	0.0231	0.012	0.0389	0.0898	0.04148	0.0499	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.158	0.15	0.0213	0.0357
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0183	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0338
Beryllium, mg/L (CAS NO - 7440-41-7)	6/9/2025	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	0.000555*
	6/9/2025	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001
Cadmium, mg/L (CAS NO - 7440-43-9)	6/9/2025	< 0.0002	0.000129*	N/A	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	< 0.0002	0.000165*
	6/9/2025	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 0.0002	0.000126*	N/A	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000149*
Chromium, mg/L (CAS NO - 7440-47-3)	6/9/2025	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	0.00226*	< 0.005	< 0.005	0.00242*	< 0.005	0.00266*	< 0.005	0.0026*	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00861	< 0.005	0.00859
	6/9/2025	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 0.005	< 0.005	N/A	< 0.005	0.00187*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00529	< 0.005	< 0.005	0.00237*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005
Cobalt, mg/L (CAS NO - 7440-48-4)	4/17/2025	N/A	N/A	N/A	N/A	N/A	0.0002050*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/9/2025	0.000253*	0.00222	N/A	0.000518	0.000519	0.000226*	0.00095	0.000469*	0.000392*	0.000723	0.00047*	0.000596	< 0.0005	0.000581	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00516	0.00132	0.00264
	6/9/2025	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000707	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 0.0005	0.000285*	N/A	0.00183	0.000443*	< 0.0005	0.000406*	0.00079	< 0.0005	0.000537	< 0.0005	0.000285*	0.000275*	< 0.0005	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000359*	0.00031*	0.000276*	0.000821
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00066	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000465*
Copper, mg/L (CAS NO - 7440-50-8)	6/9/2025	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00437*	< 0.005	0.0044*	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00614	0.00338*	0.0115
	6/9/2025	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0109	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005
Lead, mg/L (CAS NO - 7439-92-1)	6/9/2025	0.00155	0.00108	N/A	< 0.0005	< 0.0005	< 0.0005	0.000404*	0.00109	< 0.0005	0.000885	0.000352*	0.000749	< 0.0005	0.000465*	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000535	< 0.0005	0.00495
	6/9/2025	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	0.0019	0.00175	N/A	0.00103	< 0.0005	< 0.0005	0.00121	0.00165	< 0.0005	0.00089	0.000609	< 0.0005	0.00206	< 0.0005	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000385*	< 0.0005	0.000799	0.00155
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00059	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00218
Mercury, mg/L (CAS NO - 7439-97-6)	6/9/2025	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nickel, mg/L (CAS NO - 7440-02-0)	6/9/2025	< 0.005	0.00235*	N/A	0.00357*	< 0.005	< 0.005	0.00296*	< 0.005	< 0.005	0.0025*	0.00289*	0.00353*	< 0.005	0.00361*	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0335	0.00361*	0.0194
	6/9/2025	N/A	N/A	N/A	0.00312*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00339*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 0.005	< 0.005	N/A	0.00328*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00347*	0.0024*	< 0.005	0.00961
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00879
Selenium, mg/L (CAS NO - 7782-49-2)	6/9/2025	< 0.005	0.00144*	N/A	< 0.005	0.00153*	< 0.005	< 0.005	0.00216*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00154*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00239*	< 0.005	< 0.005
	6/9/2025	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.001495*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	0.00159*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00238*	0.00234*	0.00246*	< 0.005
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005
Silver, mg/L (CAS NO - 7440-22-4)	6/9/2025	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001
	6/9/2025	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001
Thallium, mg/L (CAS NO - 7440-28-0)	6/9/2025	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	0.000772*
	6/9/2025	N/A	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001
Tin, mg/L (CAS NO - 7440-31-5)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0205	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vanadium, mg/L (CAS NO - 7440-62-2)	6/9/2025	< 0.005	< 0.005	N/A	0.00239*	0.00189*	< 0.005	0.00751	0.0027*	< 0.005	0.00336*	0.00384*	0.00464*	< 0.005	0.00446*	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00842	< 0.005	0.0136
	6/9/2025	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.002241*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	0.00224*	0.00201*	N/A	0.00282*	0.0034*	0.0027*	0.00946	0.00478*	0.00203*	0.00358*	0.00315*	0.00216*	0.00344*	0.00188*	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00234*	0.00211*	0.00236*	0.0034*
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00219*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00325*
Zinc, mg/L (CAS NO - 7440-66-6)	6/9/2025	< 0.02	0.668	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.024	< 0.02	0.0229
	6/9/2025	N/A	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 0.02	0.539	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.024
Total Suspended Solids, mg/L (CAS NO - TSS)	4/17/2025	N/A	N/A	N/A	N/A	N/A	3.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/9/2025	13.7	12.3	N/A	5.25	< 1.88	2.88	23.5	18.1	6	36.3	33.3	29	2.5	30	16.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	26	4.5	229
	6/9/2025	N/A	N/A	N/A	N/A	22.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8.88	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	9.75	19.5	< 5	78.2	9.5	2	85.5	67	4.13	14.3	5	2.63	17.1	15.9	17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21	26.7	9.38	83.5
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	28.5

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.

SCS ENGINEERS

Summary of Groundwater Chemistry
Northwest Iowa Area Sanitary Landfill - 84-SDP-01-74P

Appendix I VOC Constituents	Sample Date	UG-90 UPG	UG-201 UPG	DG-609 DNG	DG-901 DNG	DG-905 DNG	DG-1001 DNG	DG-1005 DNG	DG-1101 DNG	DG-1105R DNG	DG-1201 DNG	DG-1205 DNG	DG-1301 DNG	DG-1305 DNG	DG-1401R DNG	DGP-1500 DNG	MW-15 DNG	MW-16 DNG	MW-17 DNG	MW-18 DNG	MWP-7 DNG	MWP-14 DNG	MW-P1 DNG	MW-P7 DNG	ORG-MW DNG	SedDischarge DNG	SedimentPondDisc DNG	SW-101 DNG	TDG-301 DNG	TDG-305 DNG
1,1,1,2-Tetrachloroethane, ug/L (CAS NO - 630-20-6)	6/9/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1
	6/9/2025	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
1,1,1-Trichloroethane, ug/L (CAS NO - 71-55-6)	6/9/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1
	6/9/2025	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
1,1,2,2-Tetrachloroethane, ug/L (CAS NO - 79-34-5)	6/9/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1
	6/9/2025	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
1,1,2-Trichloroethane, ug/L (CAS NO - 79-00-5)	6/9/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1
	6/9/2025	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
1,1-Dichloroethane, ug/L (CAS NO - 75-34-3)	6/9/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	0.264*	2.56	8.98	0.655*	2.45	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1
	6/9/2025	N/A	N/A	N/A	N/A	0.823*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2.8	12.1	1.01	2.59	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
1,1-Dichloroethene, ug/L (CAS NO - 75-35-4)	6/9/2025	< 2	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	< 2
	6/9/2025	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 2	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	< 2	< 2
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2
1,2,3-Trichloropropane, ug/L (CAS NO - 96-18-4)	6/9/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1
	6/9/2025	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
1,2-Dibromo-3-Chloropropane, ug/L (CAS NO - 96-12-8)	6/9/2025	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5
	6/9/2025	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
1,2-Dibromoethane [EDB], ug/L (CAS NO - 106-93-4)	6/9/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1
	6/9/2025	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
1,2-Dichlorobenzene, ug/L (CAS NO - 95-50-1)	6/9/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1
	6/9/2025	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
1,2-Dichloroethane, ug/L (CAS NO - 107-06-2)	6/9/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1
	6/9/2025	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
1,2-Dichloropropane, ug/L (CAS NO - 78-87-5)	6/9/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	0.891*	0.71*	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1
	6/9/2025	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	1.11	1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
1,4-Dichlorobenzene, ug/L (CAS NO - 106-46-7)	6/9/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1
	6/9/2025	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
2-Butanone, ug/L (CAS NO - 78-93-3)	6/9/2025	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10
	6/9/2025	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
2-Hexanone, ug/L (CAS NO - 591-78-6)	6/9/2025	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10
	6/9/2025	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
4-Methyl-2-Pentanone, ug/L (CAS NO - 108-10-1)	6/9/2025	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10
	6/9/2025	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
Acetone, ug/L (CAS NO - 67-64-1)	4/17/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	10.4	N/A	N/A
	6/9/2025	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	< 10	< 10	< 10
	6/9/2025	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 10	< 10	N/A	< 10	4.91*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	3.96*	N/A	< 10
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10
Acrylonitrile, ug/L (CAS NO - 107-13-1)	6/9/2025	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5
	6/9/2025	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
Benzene, ug/L (CAS NO - 71-43-2)	6/9/2025	< 0.5	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.569	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	< 0.5	< 0.5
	6/9/2025	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 0.5	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.755	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5
Bromochloromethane, ug/L (CAS NO - 74-97-5)	6/9/2025	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5
	6/9/2025	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
Bromodichloromethane, ug/L (CAS NO - 75-27-4)	6/9/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1
	6/9/2025	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
Bromoform, ug/L (CAS NO - 75-25-2)	6/9/2025	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5
	6/9/2025	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5
Bromomethane, ug/L (CAS NO - 74-83-9)	6/9/2025	< 4	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	< 4	< 4
	6/9/2025	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 4	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	< 4	< 4	< 4
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4
Carbon Disulfide, ug/L (CAS NO - 75-15-0)	6/9/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	0.46*	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1
	6/9/2025	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	4.03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
Carbon Tetrachloride, ug/L (CAS NO - 56-23-5)	6/9/2025	< 2	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	< 2
	6/9/2025	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 2	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	< 2	< 2
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2
Chlorobenzene, ug/L (CAS NO - 108-90-7)	6/9/2025	< 1	< 1	N/A	< 1	0.614*	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.523*	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1
	6/9/2025	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	0.407*	< 1	< 1	3.72	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.562*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
Chlorodibromomethane, ug/L (CAS NO - 124-48-1)	6/9/2025	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5
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SCS ENGINEERS

Summary of Groundwater Chemistry

Northwest Iowa Area Sanitary Landfill - 84-SDP-01-74P

Appendix I VOC Constituents	Sample Date	UG-90 UPG	UG-201 UPG	DG-609 DNG	DG-901 DNG	DG-905 DNG	DG-1001 DNG	DG-1005 DNG	DG-1101 DNG	DG-1105R DNG	DG-1201 DNG	DG-1205 DNG	DG-1301 DNG	DG-1305 DNG	DG-1401R DNG	DGP-1500 DNG	MW-15 DNG	MW-16 DNG	MW-17 DNG	MW-18 DNG	MWP-7 DNG	MWP-14 DNG	MW-P1 DNG	MW-P7 DNG	ORG-MW DNG	SedDischarge DNG	SedimentPondDisc DNG	SW-101 DNG	TDG-301 DNG	TDG-305 DNG
Vinyl Acetate, ug/L (CAS NO - 108-05-4)	6/9/2025	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10
	6/9/2025	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	6/9/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.302*	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1
	6/9/2025	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
Xylenes, total, ug/L (CAS NO - 1330-20-7)	6/9/2025	< 3	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	< 3	< 3
	6/9/2025	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	< 3	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	< 3	< 3	< 3
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3

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

Northwest Iowa Area Sanitary Landfill - 84-SDP-01-74P

Other Constituents	Sample Date	UG-90 UPG	UG-201 UPG	DG-609 DNG	DG-901 DNG	DG-905 DNG	DG-1001 DNG	DG-1005 DNG	DG-1101 DNG	DG-1105R DNG	DG-1201 DNG	DG-1205 DNG	DG-1301 DNG	DG-1305 DNG	DG-1401R DNG	DGP-1500 DNG	MW-15 DNG	MW-16 DNG	MW-17 DNG	MW-18 DNG	MWP-7 DNG	MWP-14 DNG	MW-P1 DNG	MW-P7 DNG	ORG-MW DNG	SedDischarge DNG	SedimentPondDisc DNG	SW-101 DNG	TDG-301 DNG	TDG-305 DNG
1,1-Dichloropropene, ug/L (CAS NO - 563-58-6)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene, ug/L (CAS NO - 95-94-3)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4-Trichlorobenzene, ug/L (CAS NO - 120-82-1)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,3,5-Trinitrobenzene, ug/L (CAS NO - 99-35-4)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,3-Dichlorobenzene, ug/L (CAS NO - 541-73-1)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,3-Dichloropropane, ug/L (CAS NO - 142-28-9)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,3-Dinitrobenzene, ug/L (CAS NO - 99-65-0)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,4-Naphthoquinone, ug/L (CAS NO - 130-15-4)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,4-Phenylenediamine, ug/L (CAS NO - 106-50-3)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1-Naphthylamine, ug/L (CAS NO - 134-32-7)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,2-Dichloropropane, ug/L (CAS NO - 594-20-7)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,3,4,6-Tetrachlorophenol, ug/L (CAS NO - 58-90-2)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4,5-T [2C], ug/L (CAS NO - 93-76-5)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4,5-TP [Silvex] [2C], ug/L (CAS NO - 93-72-1)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4,5-Trichlorophenol, ug/L (CAS NO - 95-95-4)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4,6-Trichlorophenol, ug/L (CAS NO - 88-06-2)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4-D [2C], ug/L (CAS NO - 94-75-7)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4-Dichlorophenol, ug/L (CAS NO - 120-83-2)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4-Dimethylphenol, ug/L (CAS NO - 105-67-9)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4-Dinitrophenol, ug/L (CAS NO - 51-28-5)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4-Dinitrotoluene, ug/L (CAS NO - 121-14-2)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,6-Dichlorophenol, ug/L (CAS NO - 87-65-0)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,6-Dinitrotoluene, ug/L (CAS NO - 606-20-2)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2-Acetylaminofluorene, ug/L (CAS NO - 53-96-3)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2-Chloronaphthalene, ug/L (CAS NO - 91-58-7)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2-Chlorophenol, ug/L (CAS NO - 95-57-8)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2-Methylnaphthalene, ug/L (CAS NO - 91-57-6)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2-Methylphenol, ug/L (CAS NO - 95-48-7)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2-Naphthylamine, ug/L (CAS NO - 91-59-8)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2-Nitroaniline, ug/L (CAS NO - 88-74-4)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2-Nitrophenol, ug/L (CAS NO - 88-75-5)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3,3-Dichlorobenzidine, ug/L (CAS NO - 91-94-1)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3,3-Dimethylbenzidine, ug/L (CAS NO - 119-93-7)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3/4-Methylphenol, ug/L (CAS NO - T-34MP)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3-Chloropropene, ug/L (CAS NO - 107-05-1)	6/9/2025	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3-Methylcholanthrene, ug/L (CAS NO - 56-49-5)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3-Nitroaniline, ug/L (CAS NO - 99-09-2)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD, ug/L (CAS NO - 72-54-8)	6/9/2025	N/A	N/A	N/A	N/A	N/A	< 0.0897	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0891	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDE, ug/L (CAS NO - 72-55-9)	6/9/2025	N/A	N/A	N/A	N/A	N/A	< 0.0897	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0891	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDT, ug/L (CAS NO - 50-29-3)	6/9/2025	N/A	N/A	N/A	N/A	N/A	< 0.0897	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0891	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,6-Dinitro-2-methylphenol, ug/L (CAS NO - 534-52-1)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4-Aminobiphenyl, ug/L (CAS NO - 92-67-1)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4-Bromophenyl phenyl ether, ug/L (CAS NO - 101-55-3)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4-Chloro-3-methylphenol, ug/L (CAS NO - 59-50-7)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4-Chloroaniline, ug/L (CAS NO - 106-47-8)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4-Chlorophenyl phenyl ether, ug/L (CAS NO - 7005-72-3)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4-Nitroaniline, ug/L (CAS NO - 100-01-6)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4-Nitrophenol, ug/L (CAS NO - 100-02-7)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5-Nitro-o-toluidine, ug/L (CAS NO - 99-55-8)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7,12-Dimethylbenz [a] anthracene, ug/L (CAS NO - 57-97-6)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Acenaphthene, ug/L (CAS NO - 83-32-9)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Acenaphthylene, ug/L (CAS NO - 208-96-8)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Acetonitrile, mg/L (CAS NO - 75-05-8)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Acetophenone, ug/L (CAS NO - 98-86-2)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Acrolein, ug/L (CAS NO - 107-02-8)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aldrin, ug/L (CAS NO - 309-00-2)	6/9/2025	N/A	N/A	N/A	N/A	N/A	< 0.0897	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0891	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anthracene, ug/L (CAS NO - 120-12-7)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo [a] anthracene, ug/L (CAS NO - 56-55-3)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo [a] pyrene, ug/L (CAS NO - 50-32-8)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo [b] fluoranthene, ug/L (CAS NO - 205-99-2)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo [g,h,i] perylene, ug/L (CAS NO - 191-24-2)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo [k] fluoranthene, ug/L (CAS NO - 207-08-9)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzyl alcohol, ug/L (CAS NO - 100-51-6)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Alpha-BHC, ug/L (CAS NO - 319-84-6)	6/9/2025	N/A	N/A	N/A	N/A	N/A	< 0.0897	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0891	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Beta-BHC, ug/L (CAS NO - 319-85-7)	6/9/2025	N/A	N/A	N/A	N/A	N/A	< 0.0897	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0891	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Delta-BHC, ug/L (CAS NO - 319-86-8)	6/9/2025	N/A	N/A	N/A	N/A	N/A	< 0.0897	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0891	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gamma-BHC [Lindane], ug/L (CAS NO - 58-89-9)	6/9/2025	N/A	N/A	N/A	N/A	N/A	< 0.0897	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0891	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bis[2-chloroethoxy]methane, ug/L (CAS NO - 111-91-1)	6/9/2025	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bis[2-chloroethyl]ether, ug/L (CAS NO - 111-44-4)	6/9/2025	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bis[2-chloroisopropyl]ether, ug/L (CAS NO - 108-60-1)	6/9/2025	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bis[2-ethylhexyl]phthalate, ug/L (CAS NO - 117-81-7)	6/9/2025	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Butyl benzyl phthalate, ug/L (CAS NO - 85-68-7)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlordane, ug/L (CAS NO - 57-74-9)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 1.79	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.78	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlorobenzilate, ug/L (CAS NO - 510-15-6)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chloroprene, ug/L (CAS NO - 126-99-8)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chrysene, ug/L (CAS NO - 218-01-9)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cyanide, mg/L (CAS NO - 57-12-5)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Diallate [cis or trans], ug/L (CAS NO - 2303-16-4)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dibenz [a,h] anthracene, ug/L (CAS NO - 53-70-3)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dibenzofuran, ug/L (CAS NO - 132-64-9)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dichlorodifluoromethane, ug/L (CAS NO - 75-71-8)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	4.62	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dieldrin, ug/L (CAS NO - 60-57-1)	6/9/2025	N/A	N/A	N/A	N/A	N/A	< 0.0897	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0891	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Diethyl phthalate, ug/L (CAS NO - 84-66-2)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dimethoate, ug/L (CAS NO - 60-51-5)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dimethyl phthalate, ug/L (CAS NO - 131-11-3)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dimethylaminoazobenzene, ug/L (CAS NO - 60-11-7)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Di-n-butyl phthalate, ug/L (CAS NO - 84-74-2)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Di-n-octyl phthalate, ug/L (CAS NO - 117-84-0)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dinoseb, ug/L (CAS NO - 88-85-7)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Diphenylamine, ug/L (CAS NO - 122-39-4)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Disulfoton, ug/L (CAS NO - 298-04-4)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan I, ug/L (CAS NO - 959-98-8)	6/9/2025	N/A	N/A	N/A	N/A	N/A	< 0.0897	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0891	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan II, ug/L (CAS NO - 33213-65-9)	6/9/2025	N/A	N/A	N/A	N/A	N/A	< 0.0897	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0891	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan sulfate, ug/L (CAS NO - 1031-07-8)	6/9/2025	N/A	N/A	N/A	N/A	N/A	< 0.0897	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0891	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endrin, ug/L (CAS NO - 72-20-8)	6/9/2025	N/A	N/A	N/A	N/A	N/A	< 0.0897	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0891	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endrin aldeh

SCS ENGINEERS

Summary of Groundwater Chemistry

Northwest Iowa Area Sanitary Landfill - 84-SDP-01-74P

Other Constituents	Sample Date	UG-90 UPG	UG-201 UPG	DG-609 DNG	DG-901 DNG	DG-905 DNG	DG-1001 DNG	DG-1005 DNG	DG-1101 DNG	DG-1105R DNG	DG-1201 DNG	DG-1205 DNG	DG-1301 DNG	DG-1305 DNG	DG-1401R DNG	DGP-1500 DNG	MW-15 DNG	MW-16 DNG	MW-17 DNG	MW-18 DNG	MWP-7 DNG	MWP-14 DNG	MW-P1 DNG	MW-P7 DNG	ORG-MW DNG	SedDischarge DNG	SedimentPondDisc DNG	SW-101 DNG	TDG-301 DNG	TDG-305 DNG
Manganese, mg/L (CAS NO - 7439-96-5)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.552**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.453**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrate (NO3), mg/L (CAS NO - 14797-55-8)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.178**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sulfate, mg/L (CAS NO - 14808-79-8)	6/9/2025	N/A	N/A	**51.5**	**328**	N/A	**85.6**	**123**	**217**	N/A	N/A	N/A	N/A	N/A	N/A	**61.3**	N/A	N/A	N/A	N/A	N/A	**81.1**	**214**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	N/A	N/A	**57.3**	**306**	N/A	**101**	**121**	**261**	N/A	N/A	N/A	N/A	N/A	N/A	**13.5**	N/A	N/A	N/A	N/A	N/A	**39.8**	**206**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Organic Carbon, mg/L (CAS NO - TOC)	6/9/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**6.98**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	N/A	N/A	**1.59**	N/A	N/A	**1.79**	**1.67**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**21.9**	N/A	N/A	N/A	N/A	N/A	**1.22**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Alkalinity, Total [CaCO3], mg/L (CAS NO - TALK)	6/9/2025	N/A	N/A	**375**	**495**	N/A	**301**	**362**	**356**	N/A	N/A	N/A	N/A	N/A	N/A	**346**	N/A	N/A	N/A	N/A	N/A	**312**	**295**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	N/A	N/A	**344**	**495**	N/A	**318**	**364**	**402**	N/A	N/A	N/A	N/A	N/A	N/A	**365**	N/A	N/A	N/A	N/A	N/A	**307**	**292**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bicarbonate, mg/L (CAS NO - BICARB)	6/9/2025	N/A	N/A	**375**	**495**	N/A	**301**	**362**	**356**	N/A	N/A	N/A	N/A	N/A	N/A	**346**	N/A	N/A	N/A	N/A	N/A	**312**	**295**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	N/A	N/A	**344**	**495**	N/A	**318**	**364**	**402**	N/A	N/A	N/A	N/A	N/A	N/A	**365**	N/A	N/A	N/A	N/A	N/A	**307**	**292**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Calcium, mg/L (CAS NO - 7440-70-2)	6/9/2025	N/A	N/A	**97.7**	**187**	N/A	**191**	**109**	**136**	N/A	N/A	N/A	N/A	N/A	N/A	**93.5**	N/A	N/A	N/A	N/A	N/A	**91.6**	**123**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	N/A	N/A	**96.8**	**181**	N/A	**172**	**107**	**164**	N/A	N/A	N/A	N/A	N/A	N/A	**90.7**	N/A	N/A	N/A	N/A	N/A	**79.6**	**107**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carbonate, mg/L (CAS NO - CARB)	6/9/2025	N/A	N/A	< 5	< 5	N/A	< 5	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	N/A	N/A	< 5	< 5	N/A	< 5	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chloride, mg/L (CAS NO - 16887-00-6)	6/9/2025	N/A	N/A	**11.1**	**7.92**	N/A	**330**	**8.46**	**33.1**	N/A	N/A	N/A	N/A	N/A	N/A	4.79*	N/A	N/A	N/A	N/A	N/A	**10.2**	**5.97**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	N/A	N/A	**24.4**	**8.02**	N/A	**280**	**8.82**	**40.6**	N/A	N/A	N/A	N/A	N/A	N/A	**4.8**	N/A	N/A	N/A	N/A	N/A	**12.8**	**7.42**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Magnesium, mg/L (CAS NO - 7439-95-4)	6/9/2025	N/A	N/A	**36.3**	**59.9**	N/A	**78.4**	**39.7**	**44**	N/A	N/A	N/A	N/A	N/A	N/A	**26.3**	N/A	N/A	N/A	N/A	N/A	**27**	**40.7**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	N/A	N/A	**37.2**	**60.9**	N/A	**74.6**	**40.3**	**54.8**	N/A	N/A	N/A	N/A	N/A	N/A	**25.6**	N/A	N/A	N/A	N/A	N/A	**25.9**	**39.5**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Potassium, mg/L (CAS NO - 7440-09-7)	6/9/2025	N/A	N/A	1.77*	**3.35**	N/A	**3.04**	**2.76**	**2.07**	N/A	N/A	N/A	N/A	N/A	N/A	**2.29**	N/A	N/A	N/A	N/A	N/A	1.87*	**3.31**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	N/A	N/A	1.39*	**3.56**	N/A	**3.07**	**2.71**	**2.79**	N/A	N/A	N/A	N/A	N/A	N/A	**2.22**	N/A	N/A	N/A	N/A	N/A	1.61*	**3.24**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sodium, mg/L (CAS NO - 7440-23-5)	6/9/2025	N/A	N/A	**13.7**	**17.1**	N/A	**18.2**	**13.2**	**15.3**	N/A	N/A	N/A	N/A	N/A	N/A	**13.9**	N/A	N/A	N/A	N/A	N/A	**11.4**	**14.7**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/18/2025	N/A	N/A	**13.5**	**15.5**	N/A	**17**	**12.3**	**14.4**	N/A	N/A	N/A	N/A	N/A	N/A	**13.1**	N/A	N/A	N/A	N/A	N/A	**9.71**	**13.5**	N/A	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
Statistical Method and Output

Statistical Method and Output

Purpose

The purpose of this document is to provide the statistical evaluation of groundwater analytical data collected from the groundwater monitoring network of the Northwest Iowa Area Sanitary Landfill (Landfill).

Diagnostic and Exploratory Evaluations and Tests of Assumptions

The detection and assessment/corrective action monitoring statistical programs include diagnostic and exploratory evaluations and statistical tests of assumptions, as appropriate, including the following:

- Time Series Plots
- Shapiro-Wilk test for normality
- Ohio Environmental Protection Agency (EPA) Method for outliers
- Mann-Kendall/Sen's Slope trend test

Management of Non-Detect Data

Non-detect values in the dataset are managed using simple substitution or the Kaplan-Meier estimator. If less than 15% of the data are non-detects, simple substitution is used, where non-detect values are assigned a concentration of one-half (½) of the practical quantification limit (PQL). If greater than 15% but less than 50% of the data are non-detects, the Kaplan-Meier estimator is used to define the distribution for the dataset. If non-detects comprise greater than 50% of the available data, non-parametric statistical methods are used.

Management of Outliers

Background datasets are evaluated for outliers using the Ohio EPA Method as included in the Sanitas™ statistical software program and described below, which includes the use of Dixon's, Rosner's, and Tukey's outlier tests, as appropriate based on the diagnostic tests, for the datasets that contain less than 75% of the measured concentrations below the PQL. Outliers are not confirmed unless a physical cause or explanation for the outlier is determined.

Management of Data (ND data < 75%)

If less than 75% of the background dataset is below the PQL, outliers are statistically evaluated using the following guidelines.

- A parametric dataset with $n < 20$ was evaluated with the Dixon's outlier test.
- A parametric dataset with $n \geq 20$ was evaluated with the Rosner's outlier test.
- A non-parametric dataset was evaluated with the Tukey's outlier test.

In accordance with the Ohio EPA Method, if a statistically significant outlier is not found using the above tests, but the highest value data point exceeds the second highest data point by an order of magnitude, the highest point is considered an outlier.

Management of Data (ND data ≥ 75%)

If greater than or equal to 75% of the background dataset is less than the PQL, outliers are statistically evaluated using the following guidelines.

- Single detection ≥ the PQL:
  - If ≥ 50% of the background dataset has detections ≥ the method detection limit (MDL), any value ≥ two times the PQL of background is considered an outlier.
  - If < 50% of the background dataset has detections ≥ the MDL, any value ≥ the PQL of background is considered an outlier.
- Two or more detections ≥ the PQL:
  - If ≥ 50% of the background dataset has detections ≥ the MDL, any value ≥ three times the PQL of background is considered an outlier.
  - If < 50% of the background dataset has detections ≥ the MDL, any value ≥ two times the PQL of background is considered an outlier.

Confirmed outliers, if any, are shown in the Summary of Groundwater Chemistry included in the Annual Water Quality Report. Analytical data from prior to 2025 is located in the 2024 Annual Water Quality Report, dated February 25, 2025 (Doc #112391).

Laboratory methodology and instrumentation achieved a cobalt reporting limit of 0.02 mg/L prior to and including the September 2012 sampling event. Beginning in 2013, improved laboratory instrumentation provided an increased concentration sensitivity and lower cobalt reporting limits. Due to analytical improvements, cobalt data prior to 2013 is no longer considered representative of groundwater quality at the Landfill and non-detect values of <0.02 mg/L in HMSP monitoring points were removed from the statistical evaluation.

The four sampling events (5/7/2019 through 10/28/2020) for background monitoring point UG-201 were removed from statistical consideration. Due to issues with frequent pump malfunctions, the sampling methodology was changed from sampling with a submersible pump to sampling with a bailer. This removal of data will prevent statistical comparisons from being made between monitoring points with different sampling methods. After the monitoring well was equipped with a pump, inorganic concentrations returned to more typical levels.

Detection Monitoring Statistical Program

The detection monitoring statistical program for the Landfill is defined by Iowa Administrative Code (IAC) 567-113.10(4)"g". Interwell (monitoring wells) or intrawell (underdrains) prediction limits, as appropriate, with retesting were selected as the appropriate statistical method for the determination of statistically significant increases (SSIs) over background for inorganic constituents with historical detections in background. Prediction limits are established using the process below. Data from the most recent sampling event is compared to the prediction limits for the determination of SSIs.

Interwell Prediction Limits with Retesting

Interwell prediction limits are calculated for the monitoring wells.

- If the dataset has a normal distribution (or can be transformed to a normal distribution using Ladder of Powers), parametric interwell prediction limits are calculated if at least five datasets have been collected from the background monitoring point(s).
- If the dataset does not have a normal distribution (and cannot be transformed to a normal distribution using Ladder of Powers) or has greater than 50% non-detects, nonparametric interwell prediction limits are calculated if at least five datasets have been collected from the background monitoring point(s).
- If an SSI above the prediction limit is indicated, retesting samples using the 1-of-3 retesting scheme should be collected prior to the next regularly scheduled sampling event with temporal sample spacing consideration to provide samples with greater independence. If the retesting result is above the prediction limit, the SSI is confirmed, and the monitoring point should be placed into the assessment monitoring program. If the retesting sample

concentration is below the prediction limit, the SSI is not confirmed, and the monitoring point continues in the detection monitoring program.

Intrawell Prediction Limits with Retesting

Intrawell prediction limits are calculated for the groundwater underdrains. Monitoring points GU-13, GU-14, and GU-15 are the underdrains with sufficient data to perform statistical evaluations.

- If the dataset has a normal distribution (or can be transformed to a normal distribution using Ladder of Powers), parametric intrawell prediction limits are calculated if at least six datasets have been collected.
- If the dataset does not have a normal distribution (and cannot be transformed to a normal distribution using Ladder of Powers) or has greater than 50% non-detects, nonparametric intrawell prediction limits are calculated if at least six datasets have been collected.
- If an SSI above the prediction limit is indicated, retesting samples using the 1-of-2 retesting scheme should be collected prior to the next regularly scheduled sampling event with temporal sample spacing consideration to provide samples with greater independence. If the retesting result is above the prediction limit, the SSI is confirmed, and the discharge will be treated with the leachate. If the retesting sample concentration is below the prediction limit, the SSI is not confirmed, and the monitoring point continues in the detection monitoring program.

Updating the Background Dataset for Intrawell Prediction Limits

If no SSI is confirmed for any two-year period, the intrawell background dataset will be updated using the following procedure:

- Test for normality (normal distribution) of the dataset either outright or through a transformation using Ladder of Powers:
  - Shapiro-Wilk test
- Test for statistically significant trends:
  - Mann-Kendall/Sen's Slope trend test

If an increasing trend is detected, the monitoring point discharge will be treated with the leachate.

- If the dataset has a normal distribution and no trend is present, conduct a two-sample Welch's t-test at a 0.01 significance level to compare current background to the most recent two years of detection monitoring data.

If Welch's t-test test is significant and shows that the most recent two years of concentration data appear to be increasing, the background will not be updated.

- If the dataset does not a have normal distribution and no trend is present, conduct a two-sample non-parametric Wilcoxon rank-sum test (also known as the Mann-Whitney test) at a 0.01 significance level to compare current background to the most recent two years of detection monitoring data.

If the Wilcoxon rank-sum test is significant and shows that the most recent two years of concentration data appear to be increasing, the background will not be updated.

- If the Welch's t-test and the Wilcoxon rank-sum test are not significant, the most recent two years of detection monitoring data will be added to the intrawell background dataset.
- Establish prediction limits based on the updated intrawell background dataset.

The process will repeat every two years in which an SSI is not confirmed.

Double Quantification Method

The quasi-statistical "double quantification" method was used for constituents not detected in the background dataset. If a constituent was detected in the compliance dataset that has not been historically detected in the background dataset, that constituent must be retested before the next regularly scheduled sampling event. If the retesting results confirm the original detection with a quantifiable detection, the SSI is confirmed, and the monitoring well must be placed into the assessment monitoring program, or the discharge treated with the leachate for the groundwater underdrain discharge points in lieu of assessment monitoring or corrective action.

Assessment Monitoring/Corrective Action Statistical Program

Confidence intervals or confidence bands, as appropriate, were selected as the appropriate statistical methods for comparison of the groundwater analytical data against a fixed groundwater protection standard (GWPS). The assessment/corrective action monitoring statistical evaluations are performed using the most recent eight samples or all samples if less than eight samples are available. The confidence intervals or confidence bands used for the assessment/corrective action monitoring statistical evaluation are established using the process below. Transformation of the distribution is not considered.

Confidence Intervals or Confidence Bands

- A parametric confidence interval around a normal mean is calculated if the dataset has a normal distribution and no statistically significant trend is present.
- A non-parametric confidence interval around a median is calculated if the dataset does not have a normal distribution and no statistically significant trend is present.
- Non-parametric confidence bands around a Theil-Sen trend line are calculated if the dataset has a statistically significant trend.

In the event that the lower confidence limit or any part of the lower confidence band, as appropriate, exceeds the GWPS, then the monitoring point is declared out of compliance, and an assessment of corrective measures (ACM) is required. An ACM was approved by the Iowa Department of Natural Resources correspondence dated April 20, 2017 (Doc #89172). The selected remedy of subsurface venting of landfill gas is installed and operational.

Statistical Software Output

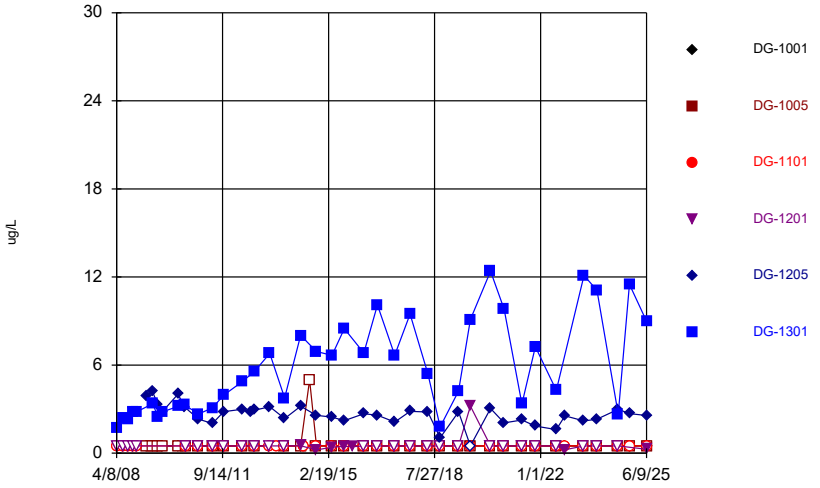
Sanitas™ statistical software was used to perform the statistical evaluations. The statistical output for the 1st and 2nd 2025 statistical evaluations are included in Attachments A and B of this appendix, respectively.

Attachment A
1st 2025 Statistical Evaluation Output

Time Series Plots

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: 1,1-Dichloroethane Analysis Run 9/29/2025 11:08 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

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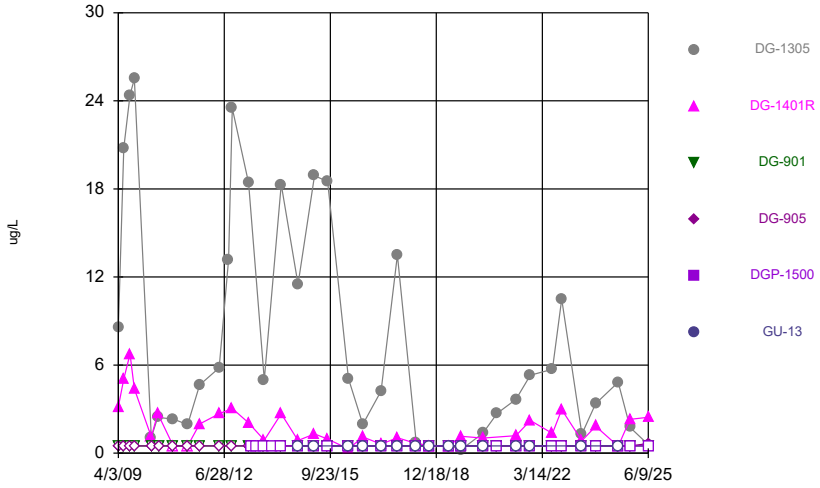

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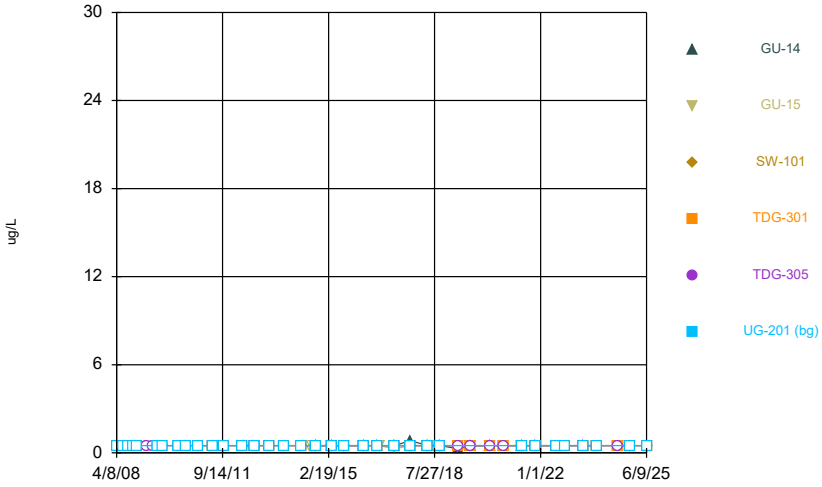

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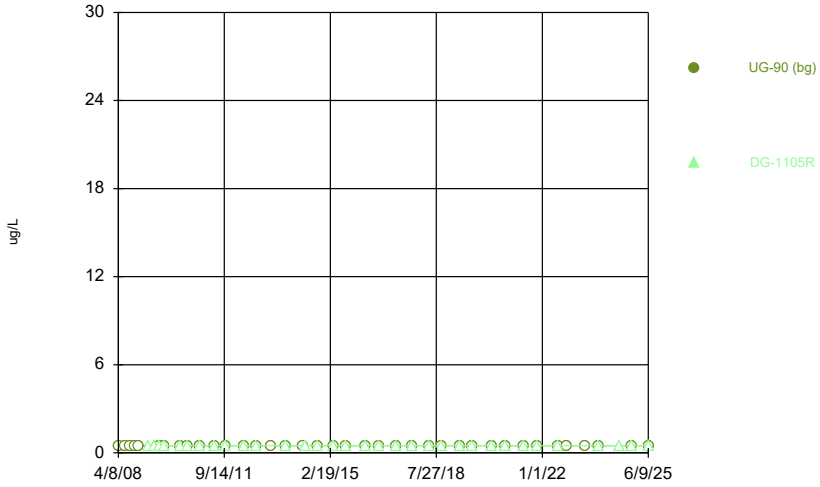

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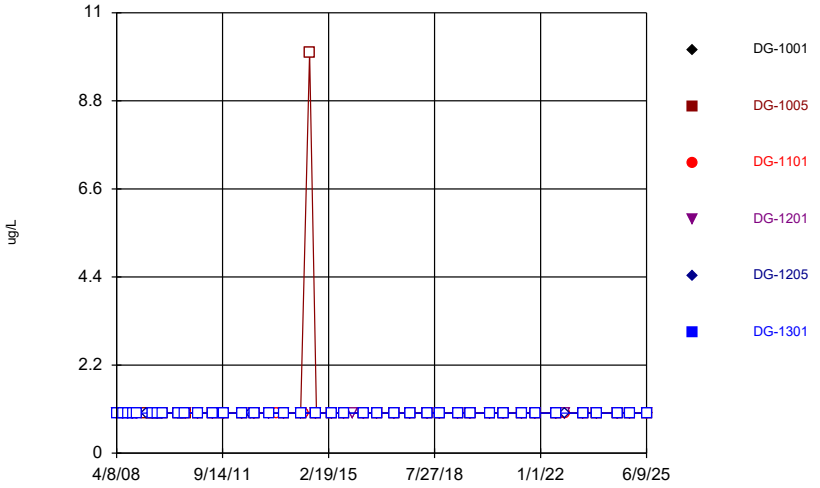

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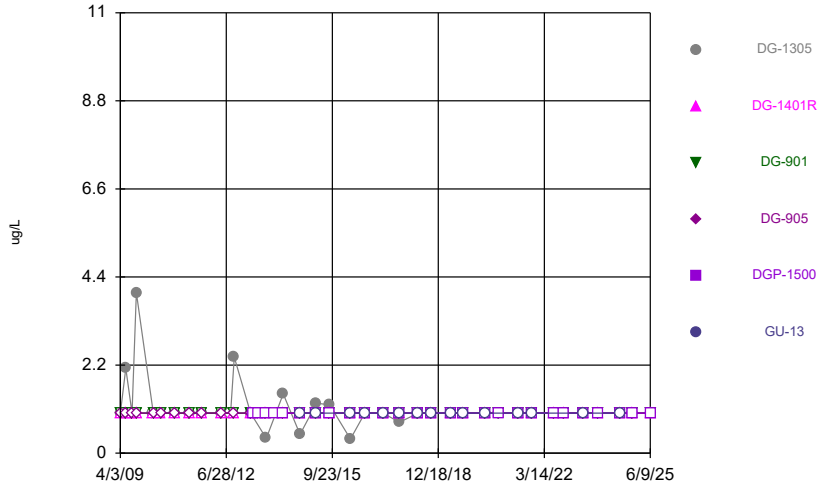

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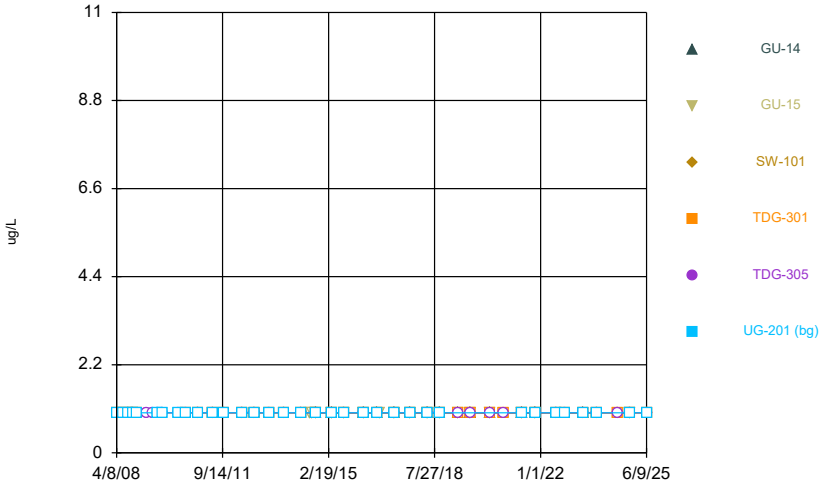

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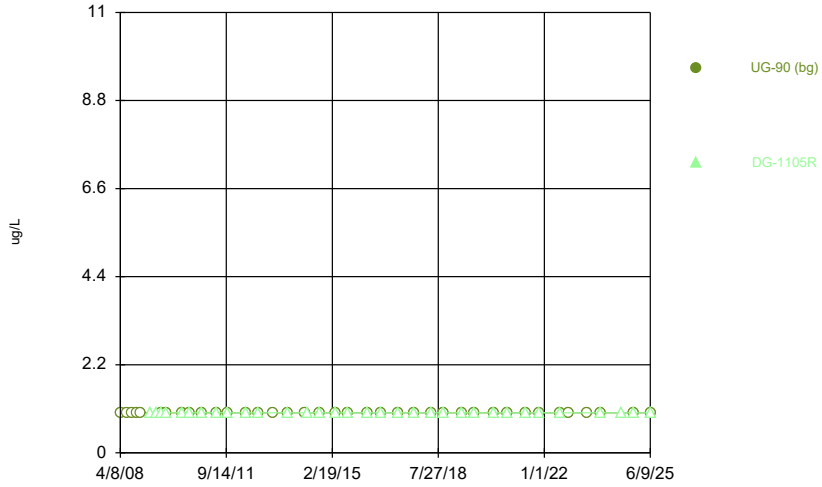

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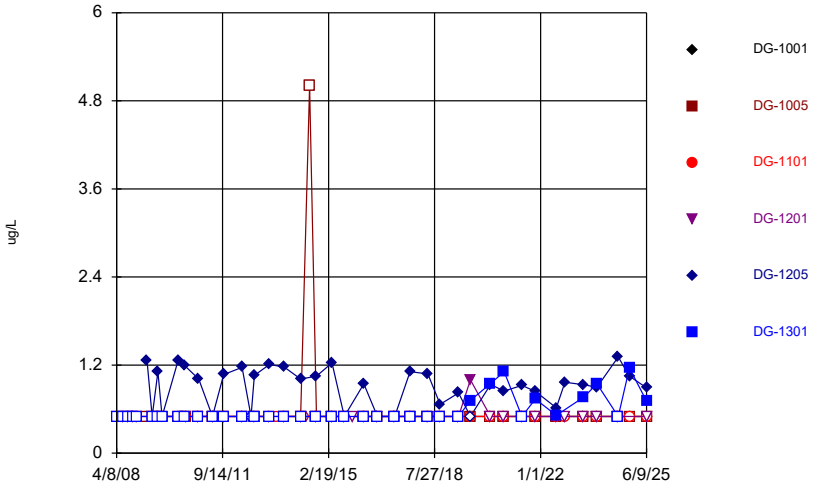

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Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

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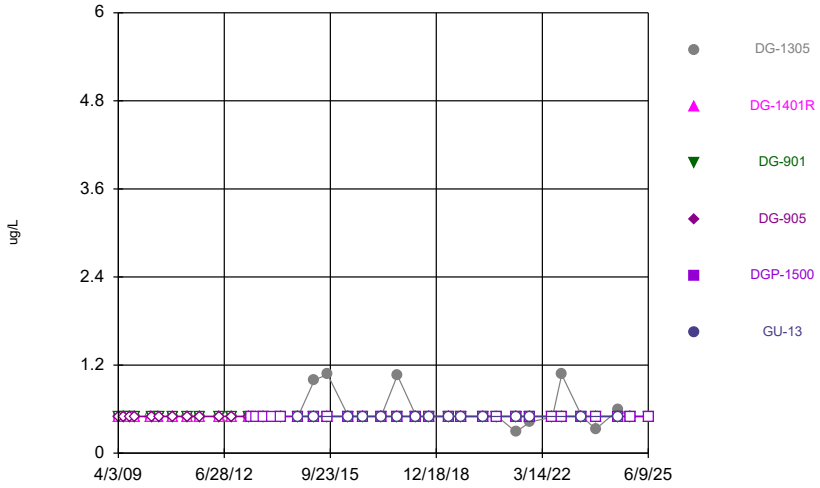

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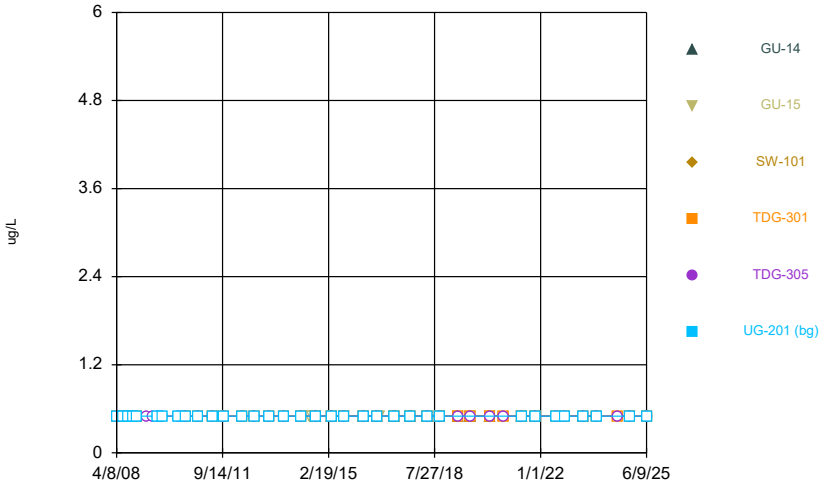

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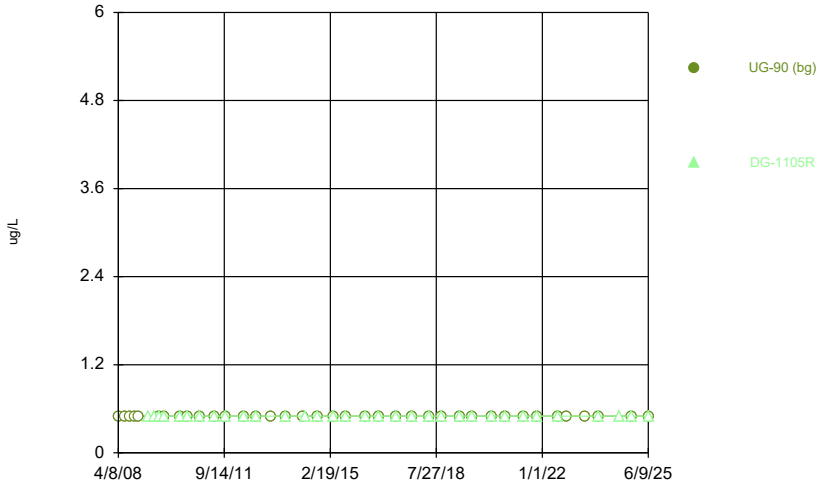

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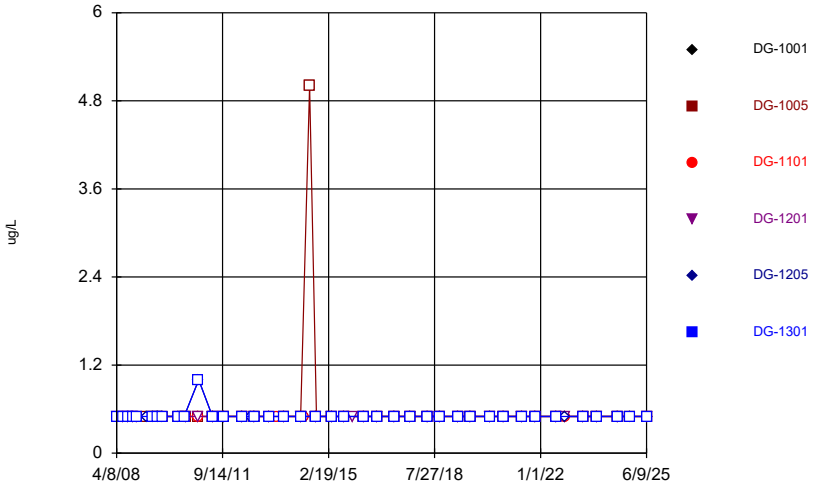

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Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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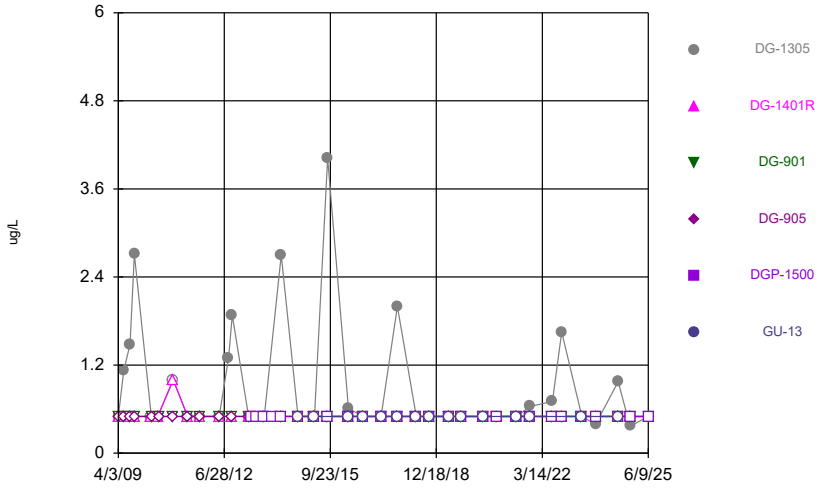

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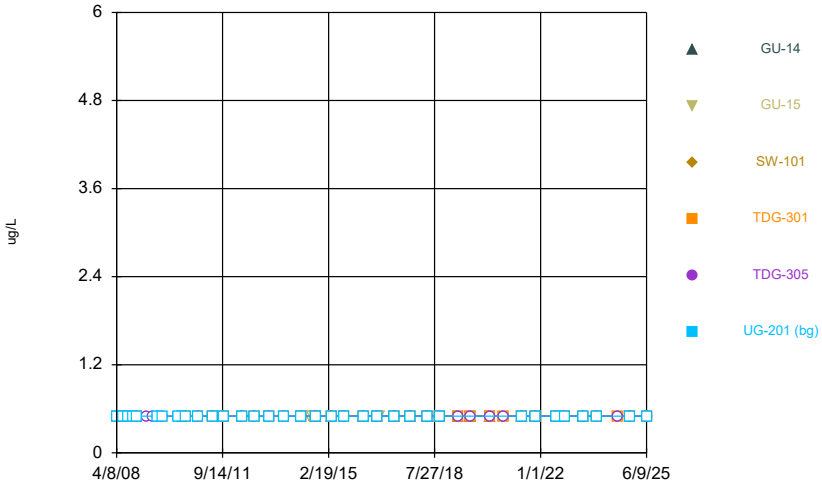

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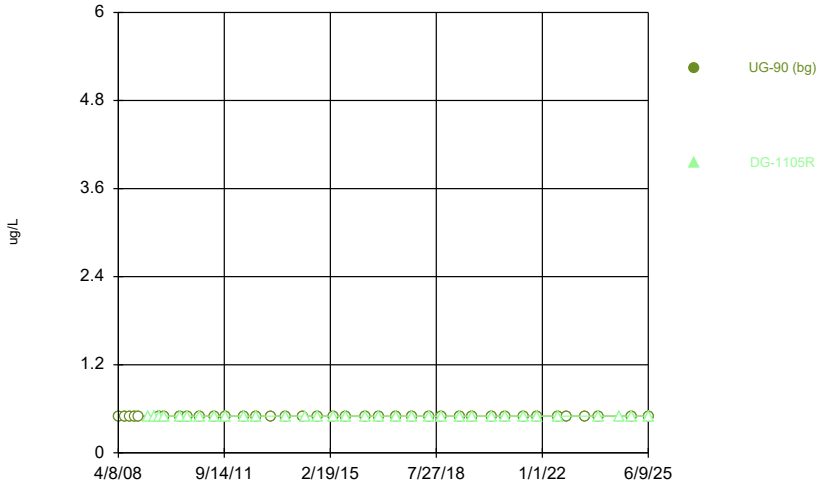

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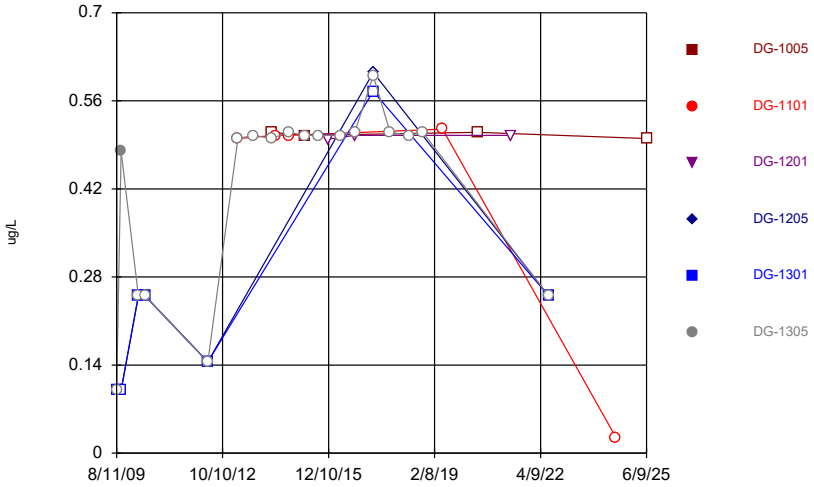

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Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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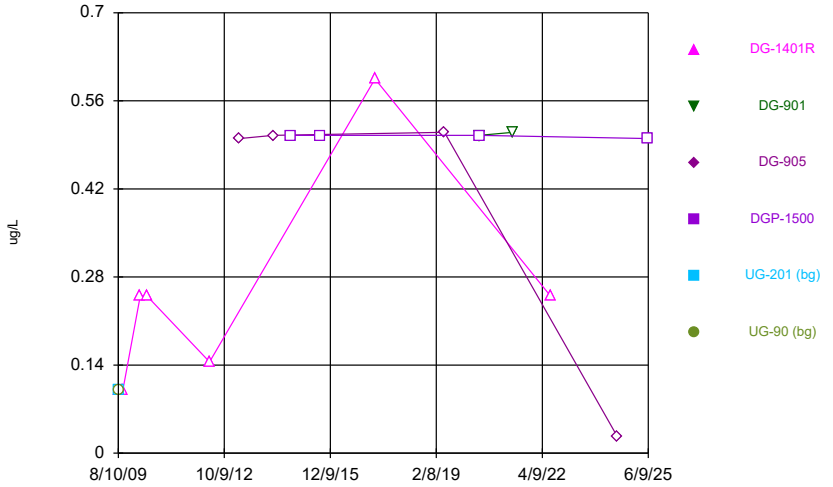

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Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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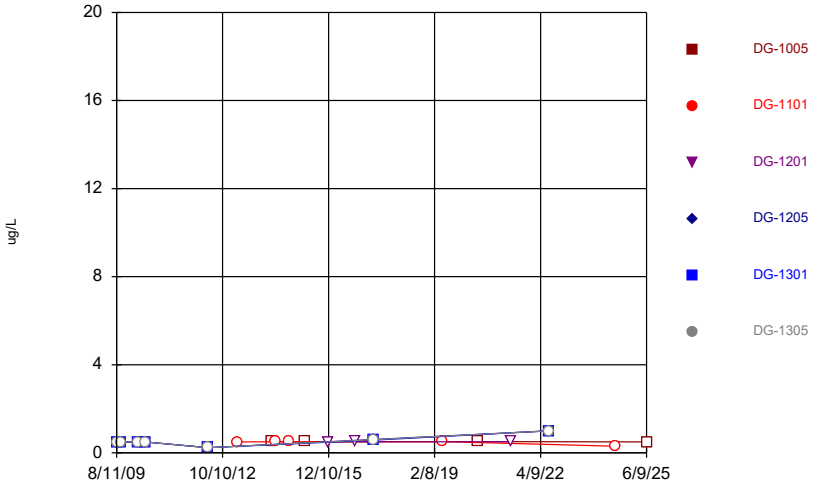

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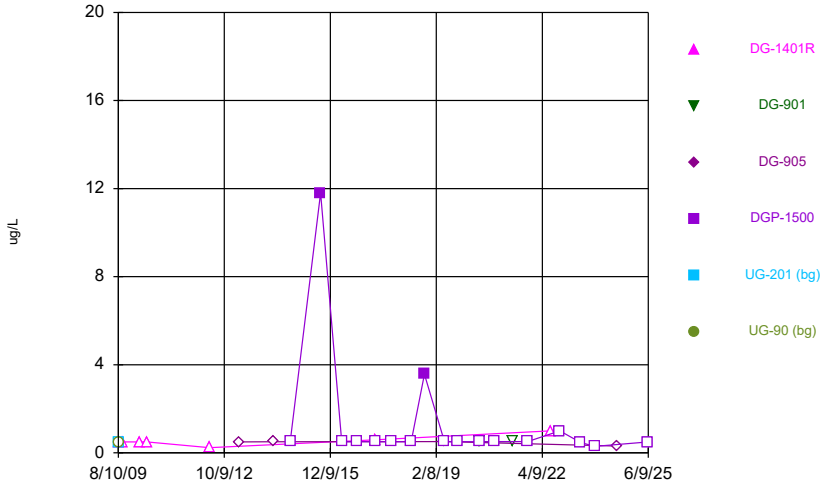

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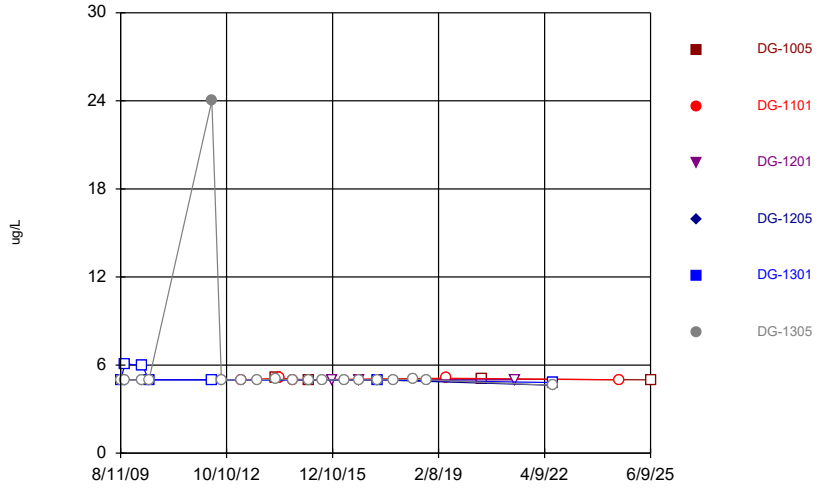

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Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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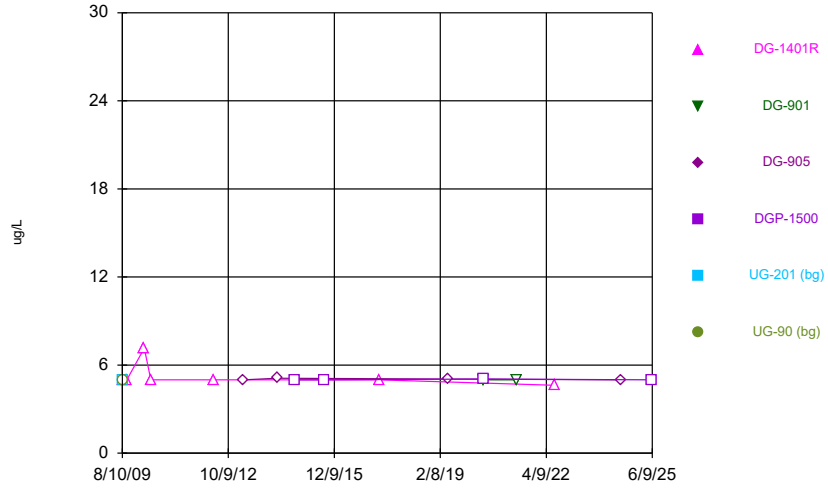

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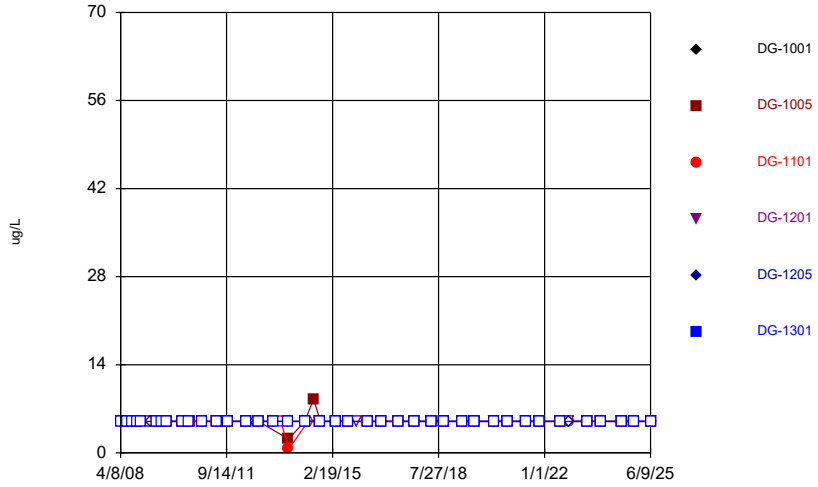

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Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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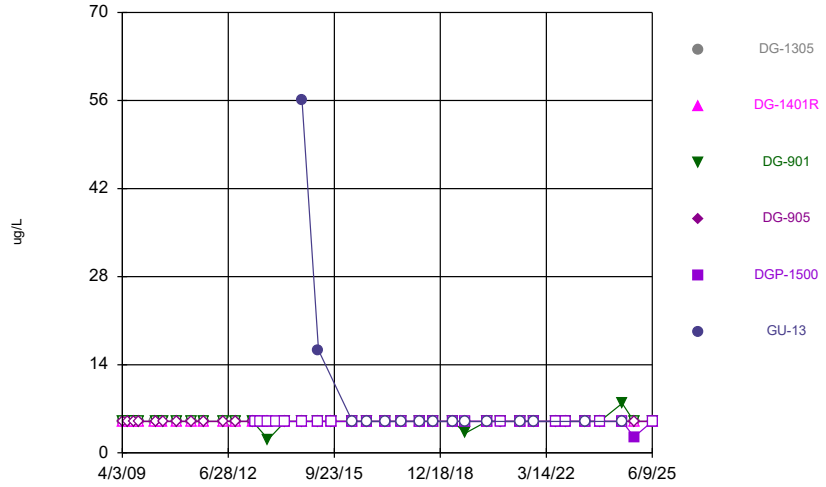

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Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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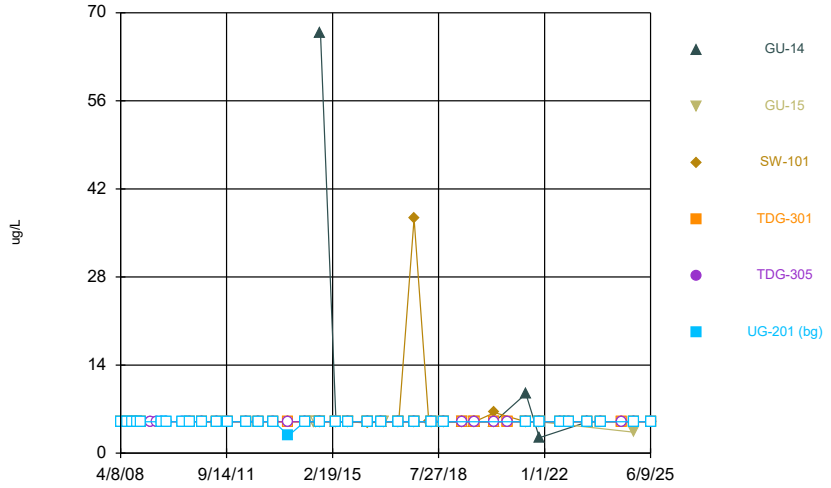

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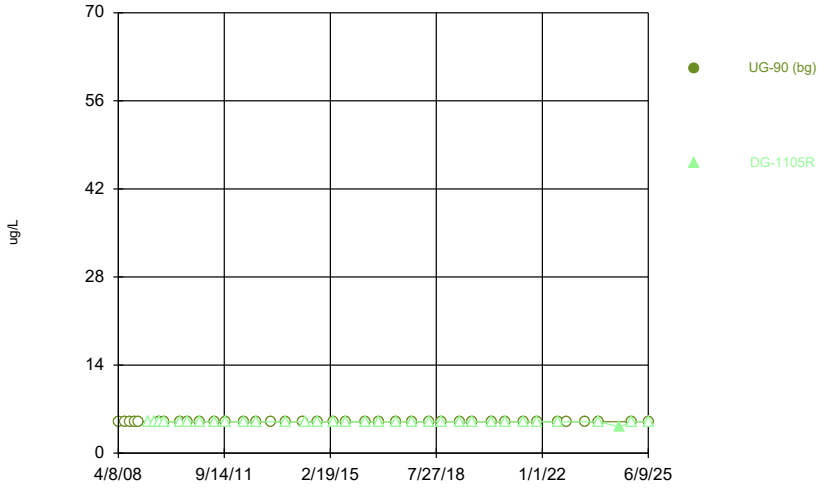

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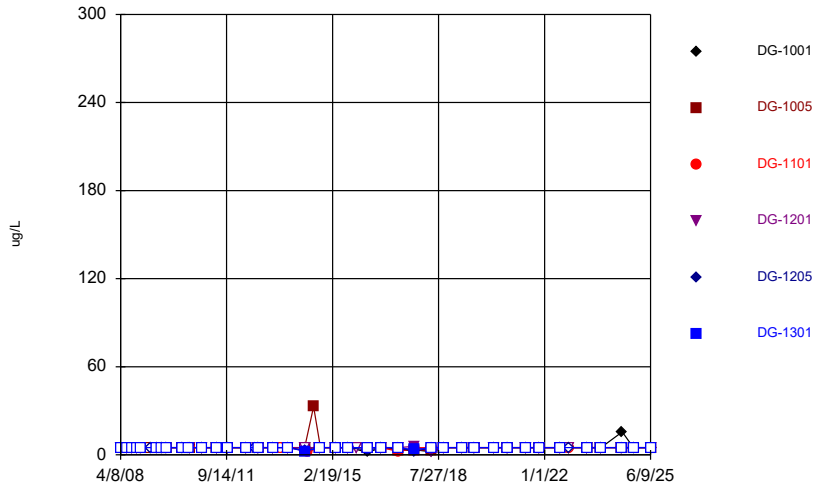

Constituent: Acetone Analysis Run 9/29/2025 11:08 AM View: 2025_SSN-Time_Series
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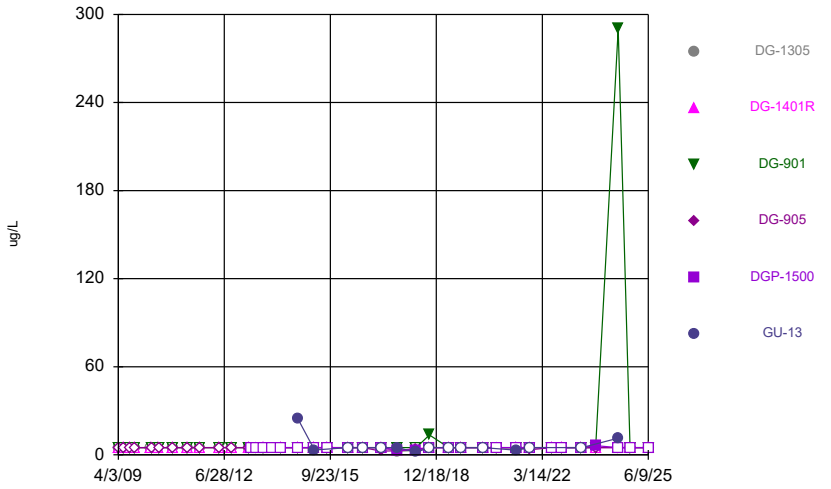
Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Acetone Analysis Run 9/29/2025 11:08 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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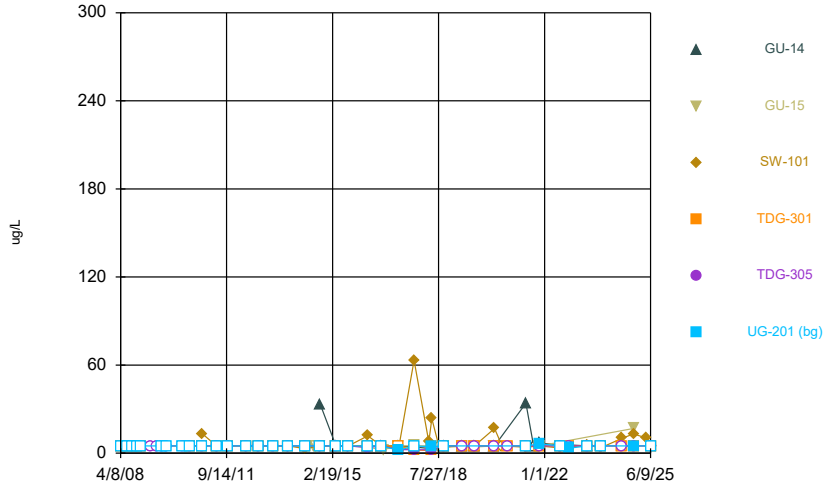
Hollow symbols indicate censored values.

Time Series



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Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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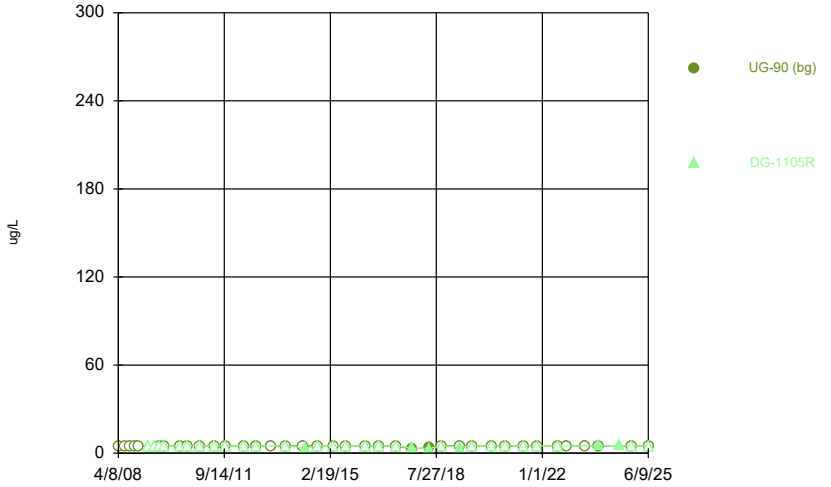
Time Series



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Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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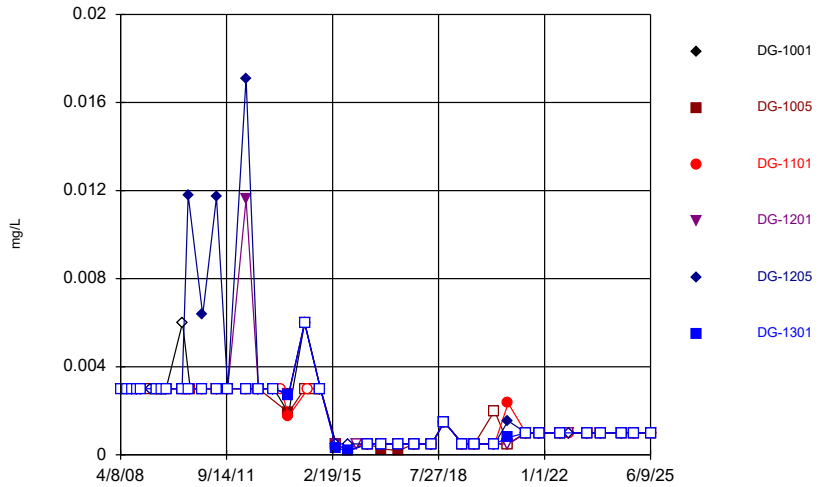
Time Series



Constituent: Antimony Analysis Run 9/29/2025 11:08 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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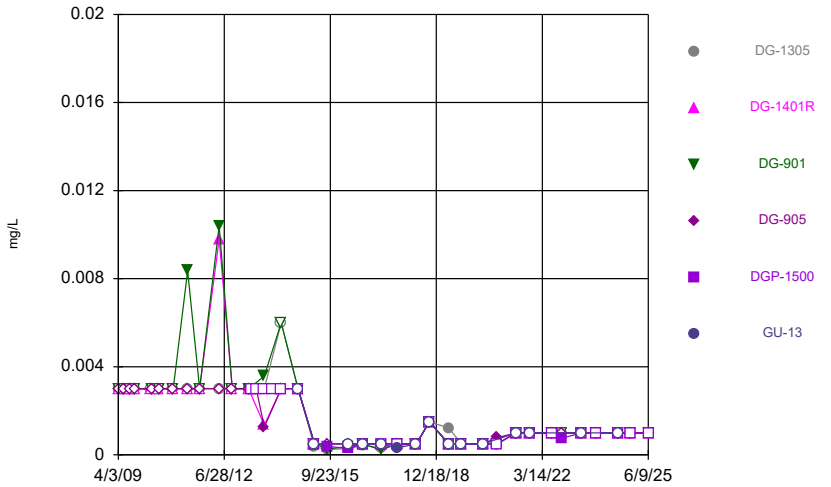
Time Series



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Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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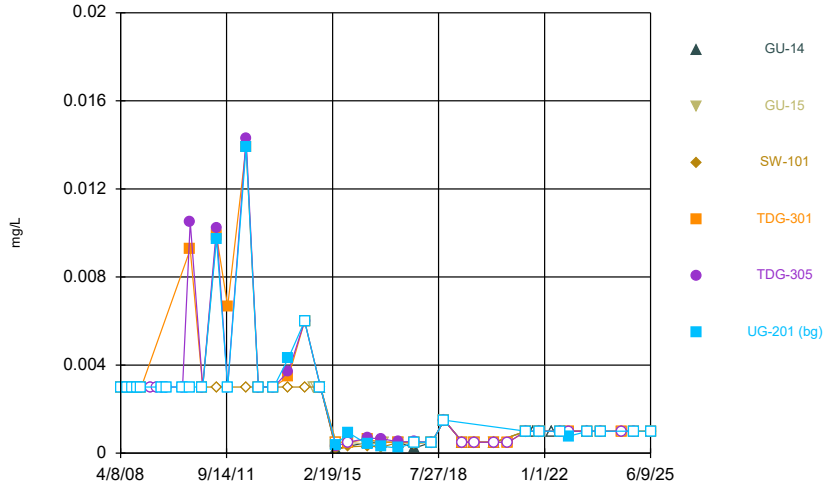
Time Series



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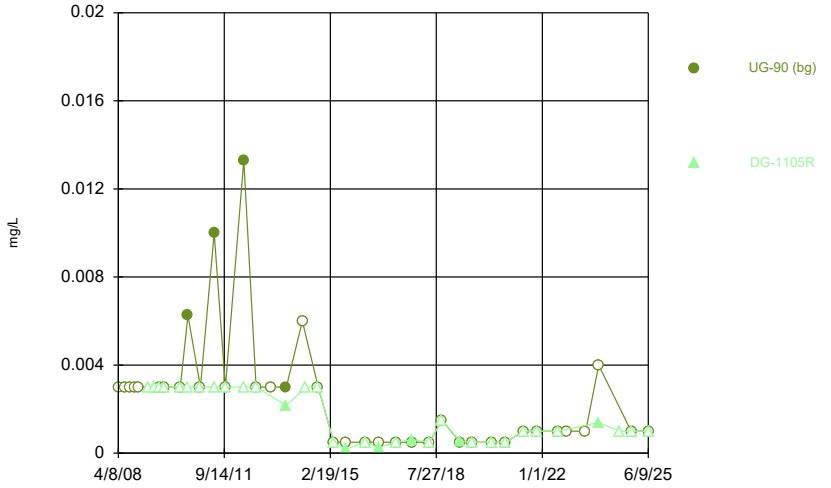
Time Series



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Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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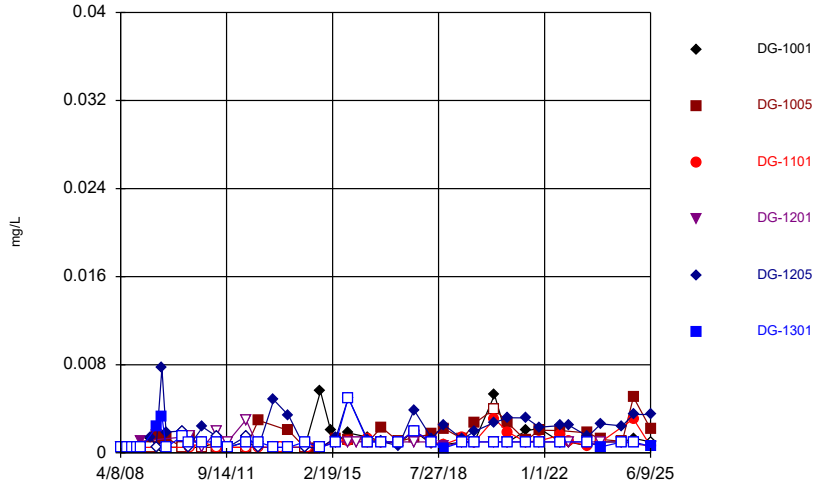
Time Series



Constituent: Arsenic Analysis Run 9/29/2025 11:08 AM View: 2025_SSN-Time_Series
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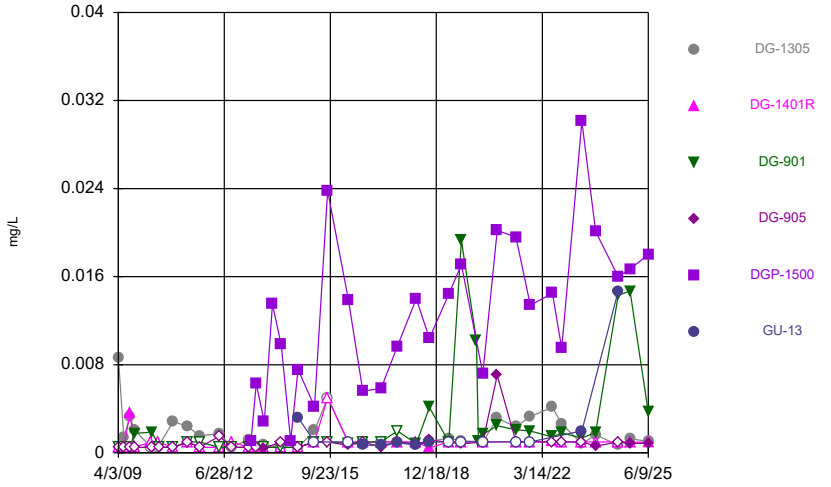
Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



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Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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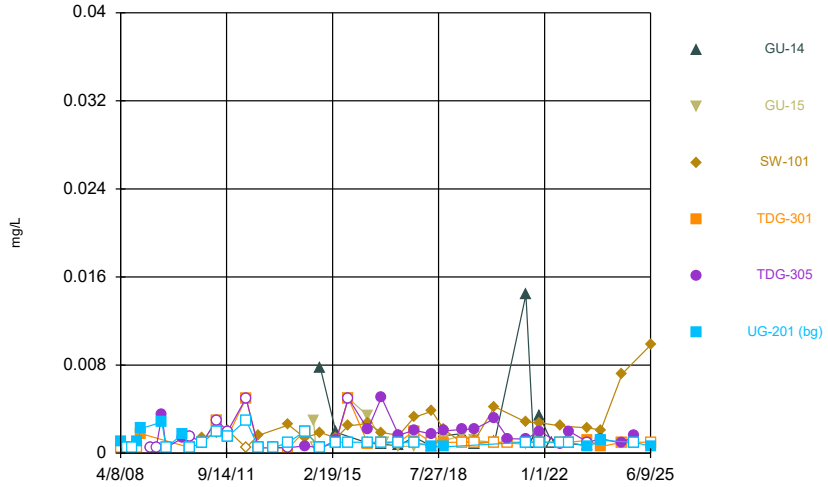

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Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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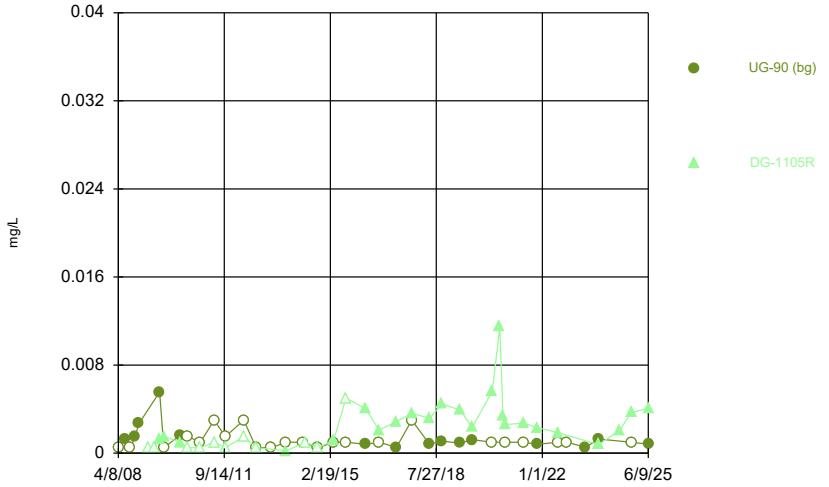
Time Series



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Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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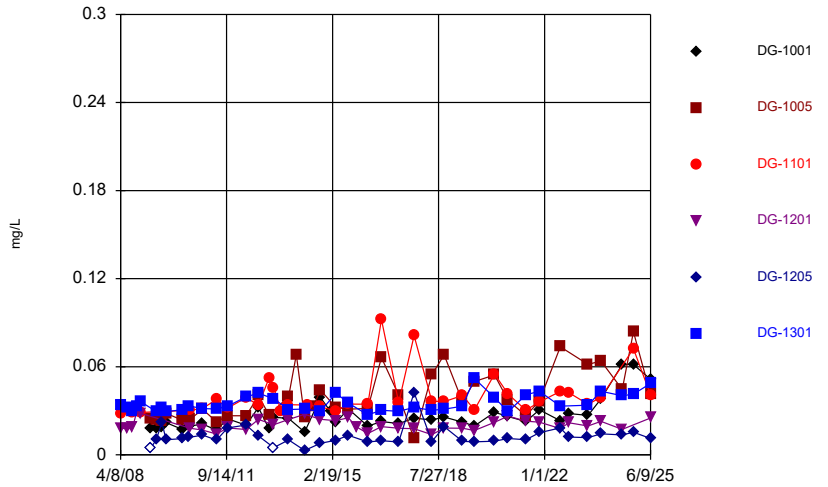
Time Series



Constituent: Barium Analysis Run 9/29/2025 11:08 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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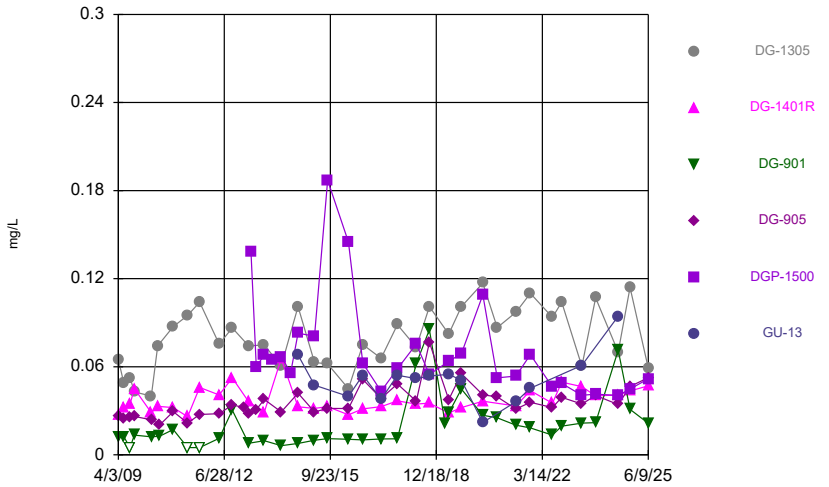
Time Series



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Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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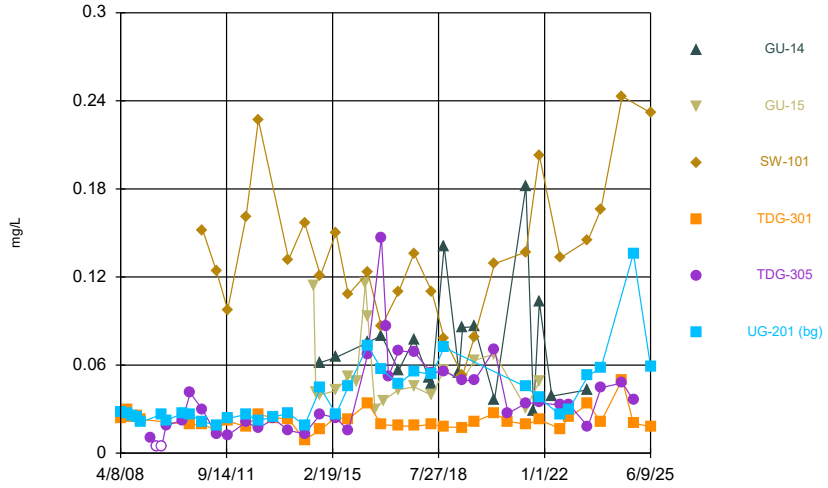
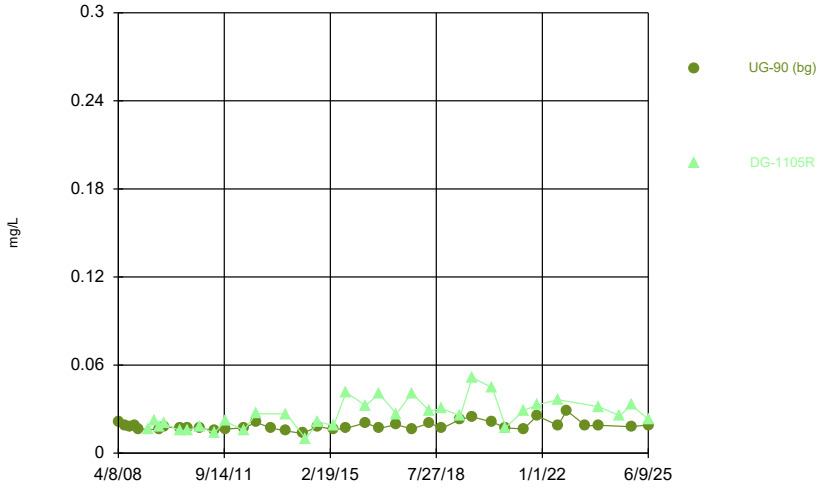


Constituent: Barium Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG

Time Series



Constituent: Barium Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
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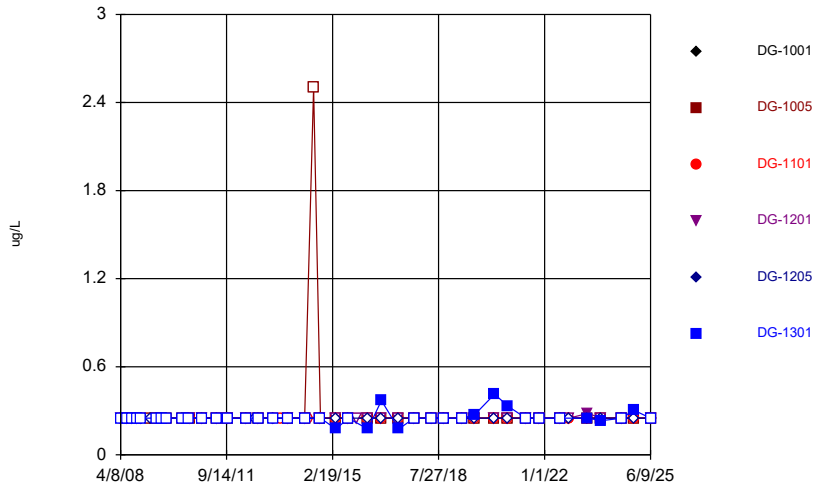

Constituent: Benzene Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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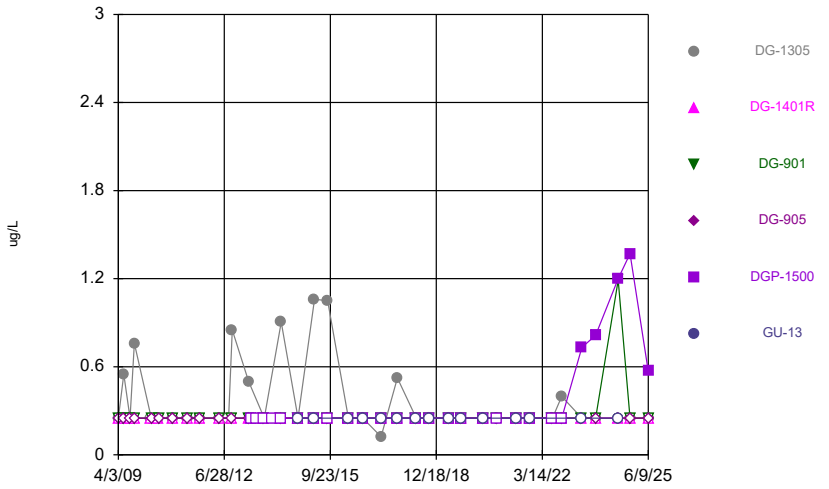
Time Series



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Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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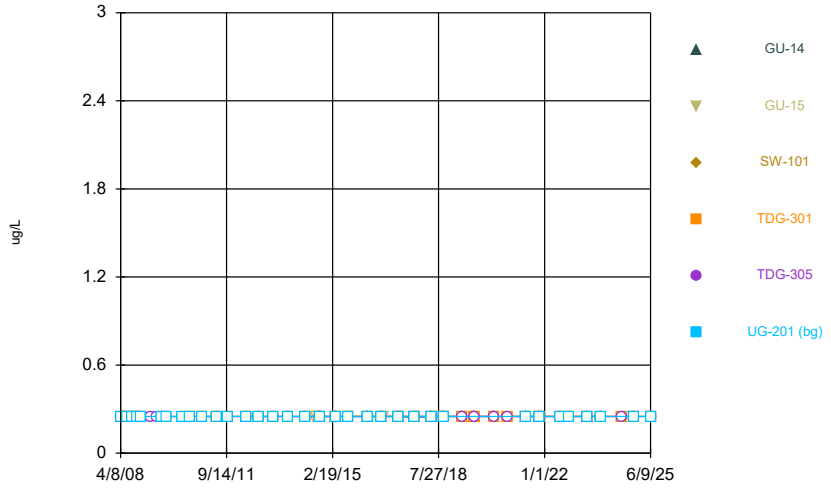

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Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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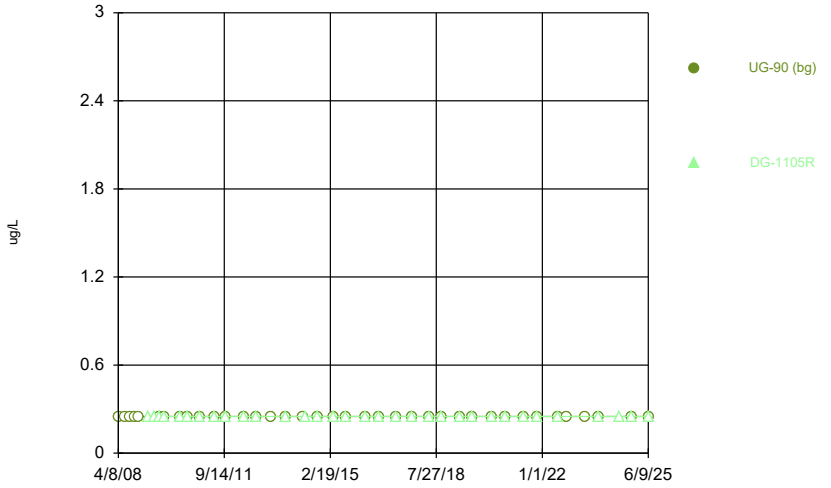

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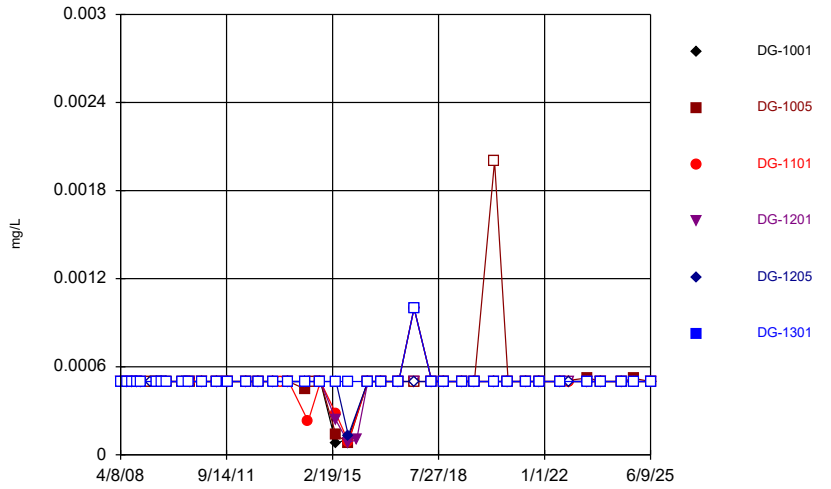

Constituent: Beryllium Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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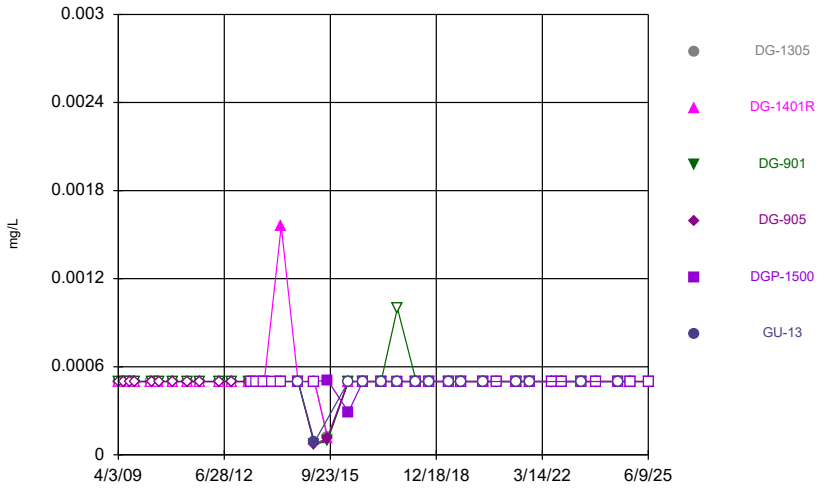

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Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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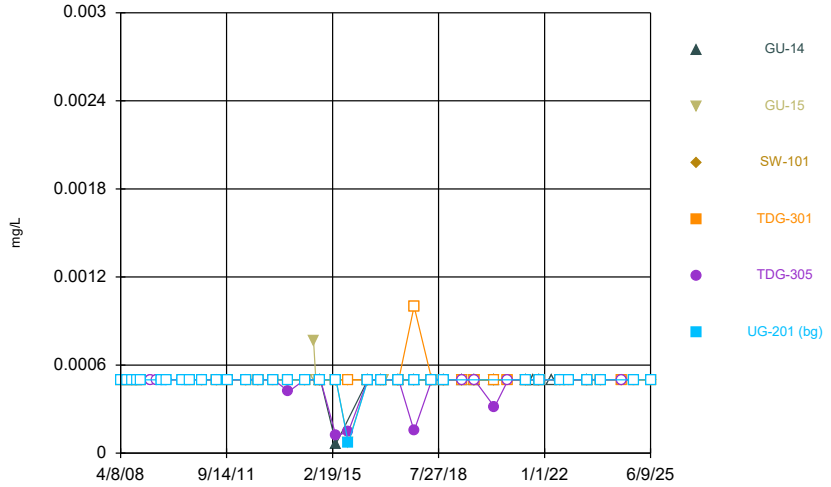

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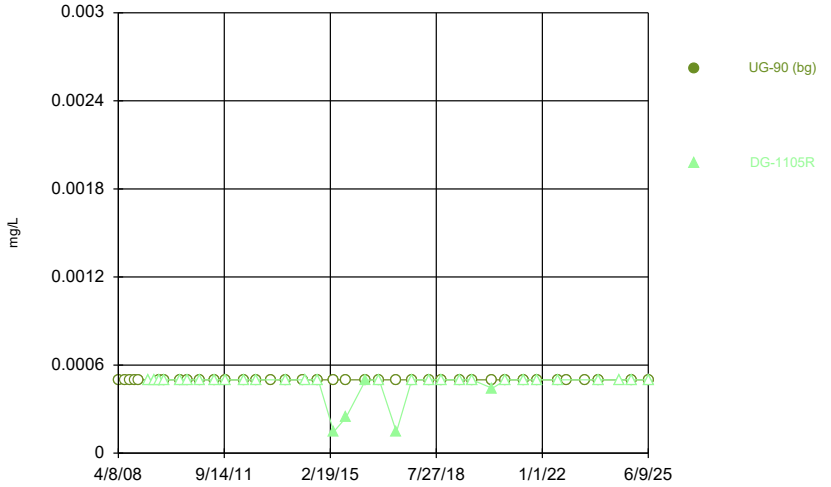

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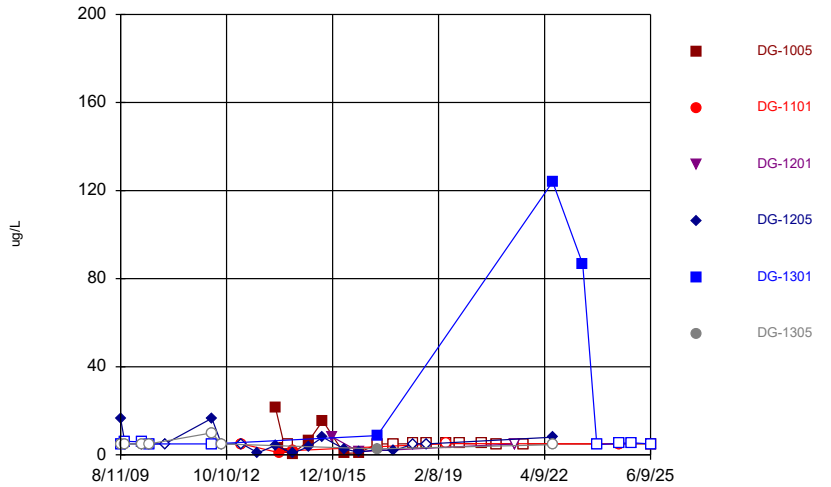

Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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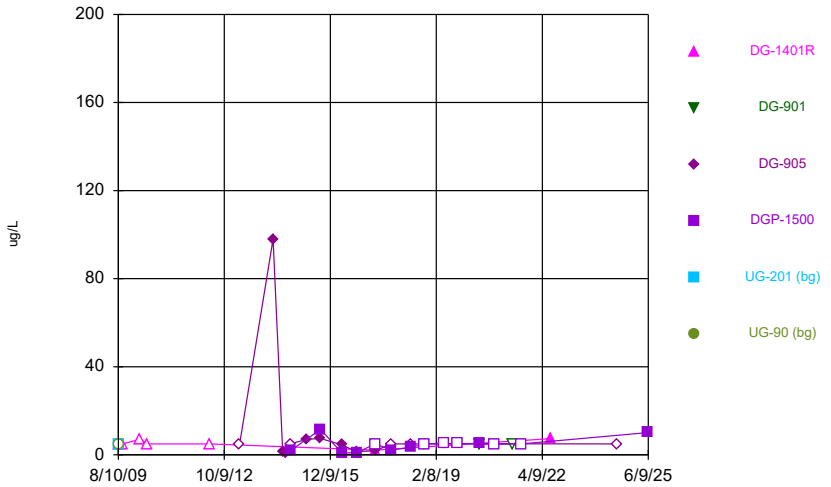
Time Series



Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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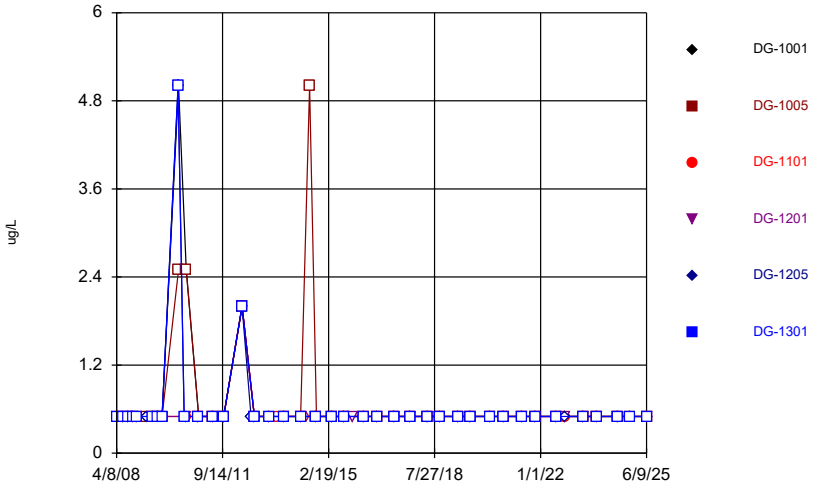
Time Series



Constituent: Bromodichloromethane Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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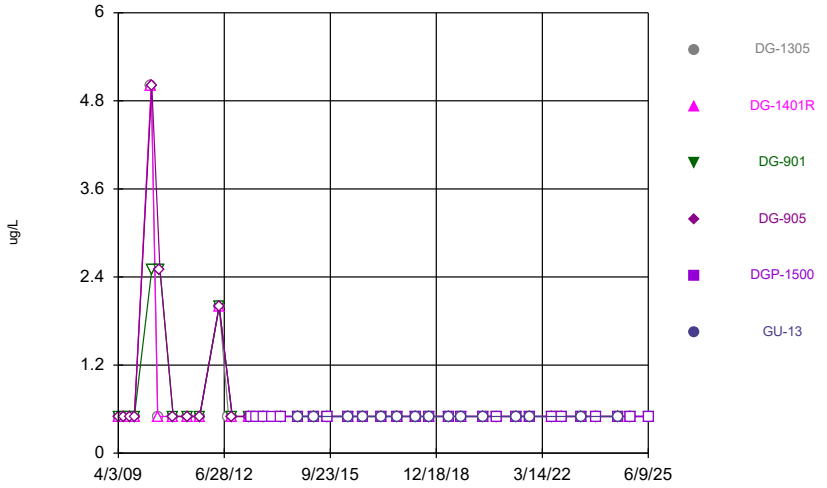
Time Series



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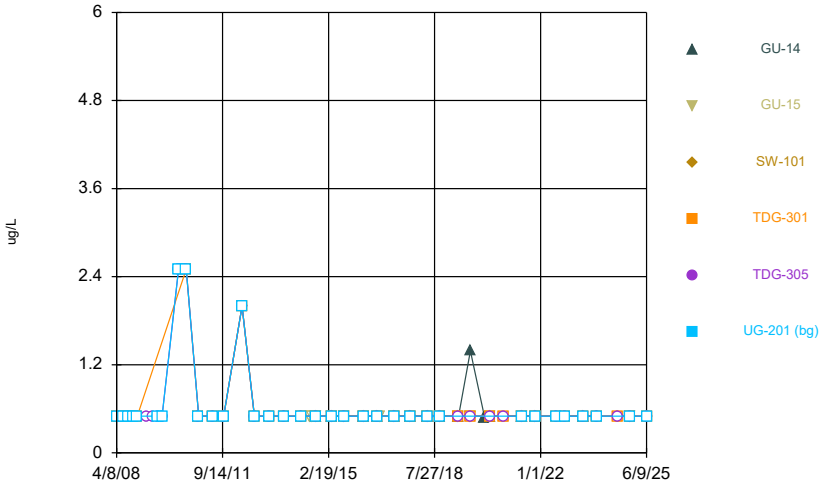
Time Series



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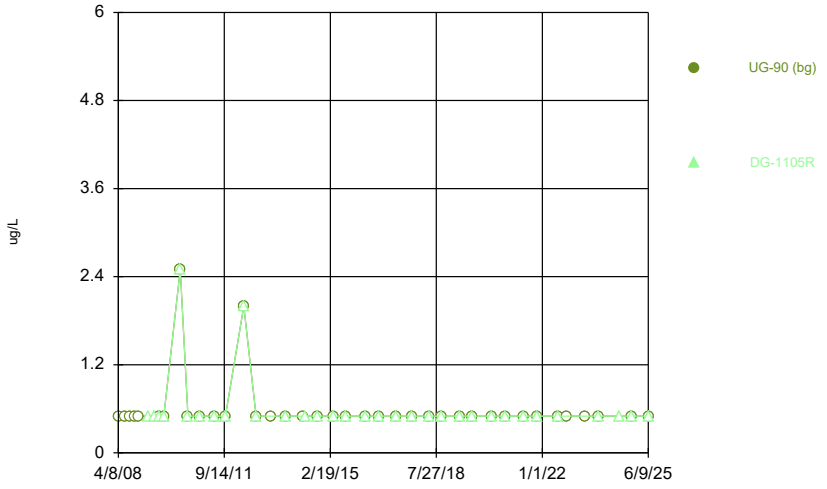

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Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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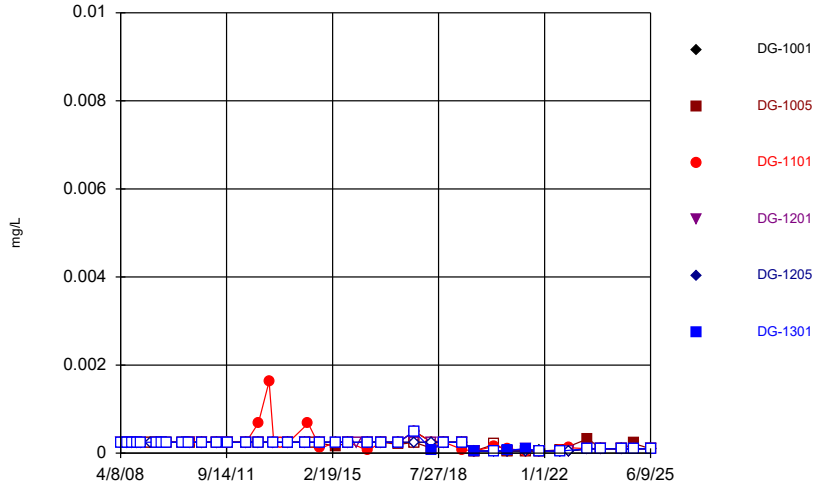
Time Series



Constituent: Cadmium Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
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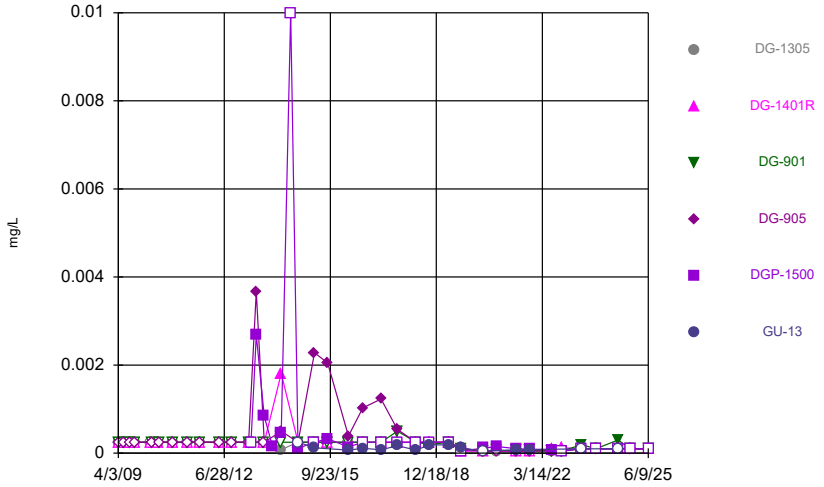
Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



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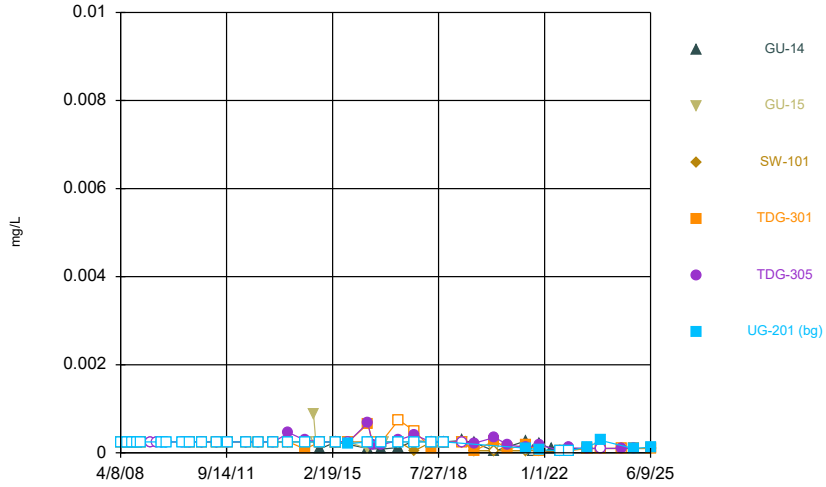

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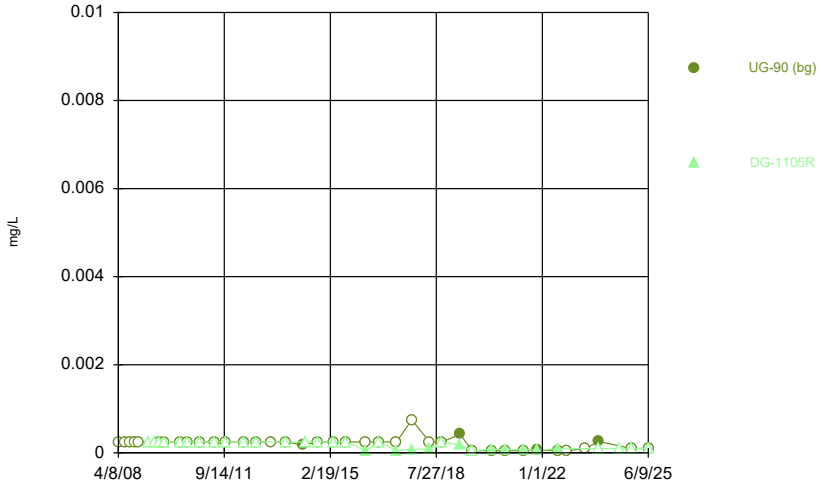

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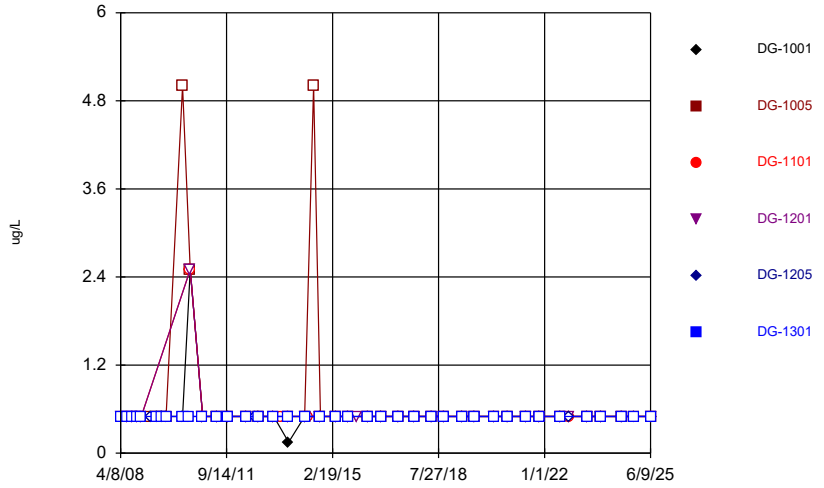

Constituent: Carbon disulfide Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
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Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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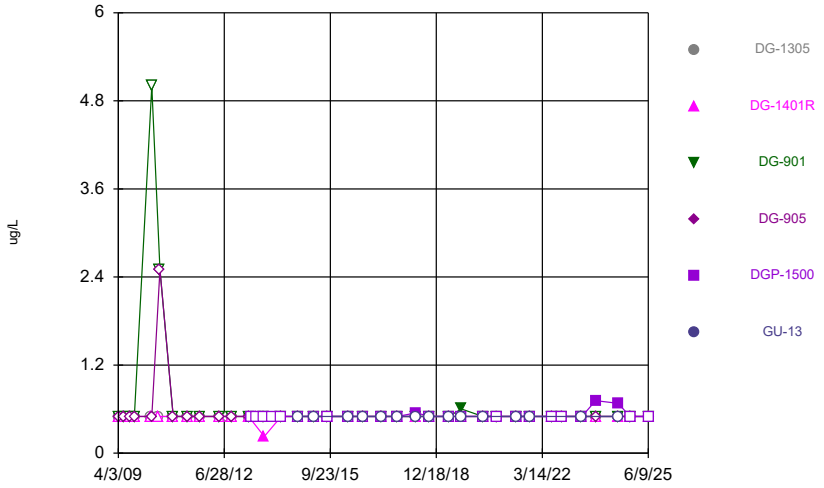
Time Series



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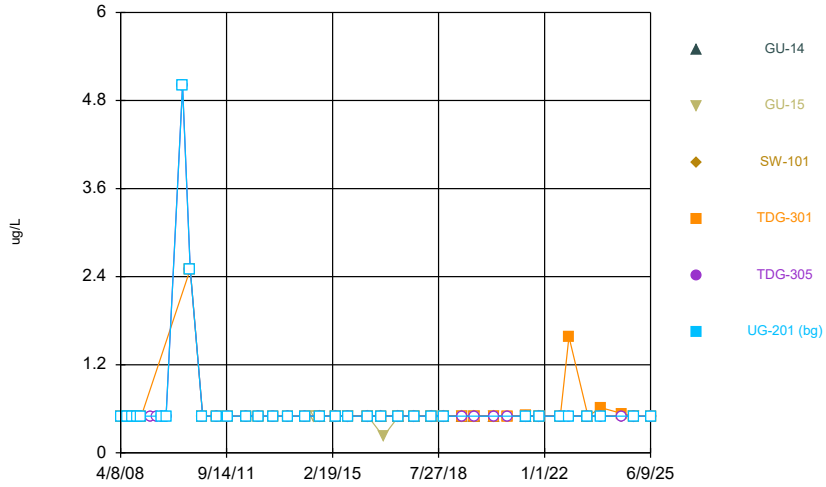

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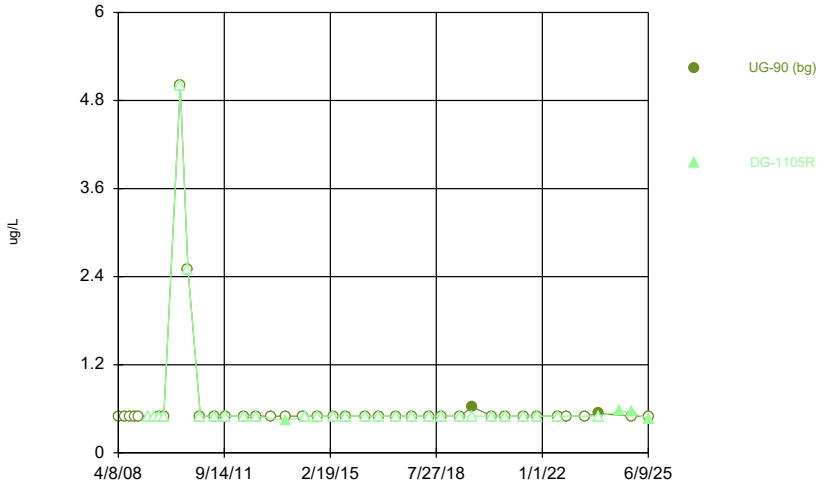
Hollow symbols indicate censored values.

Time Series



Constituent: Carbon disulfide Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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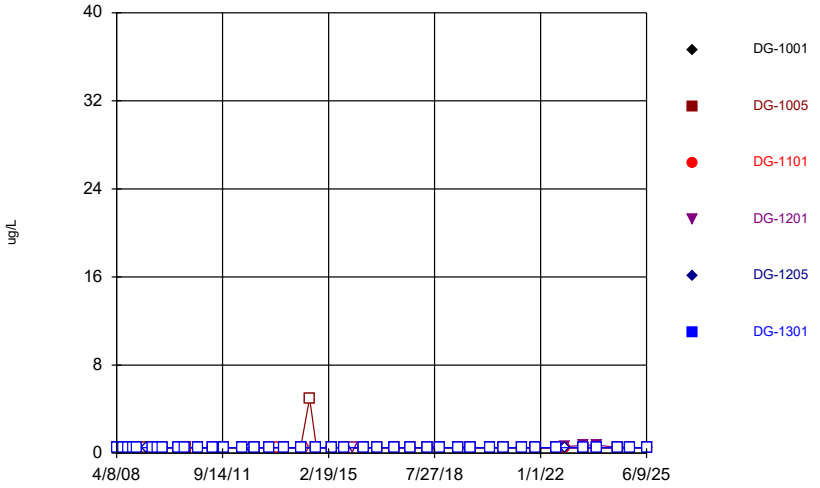
Hollow symbols indicate censored values.

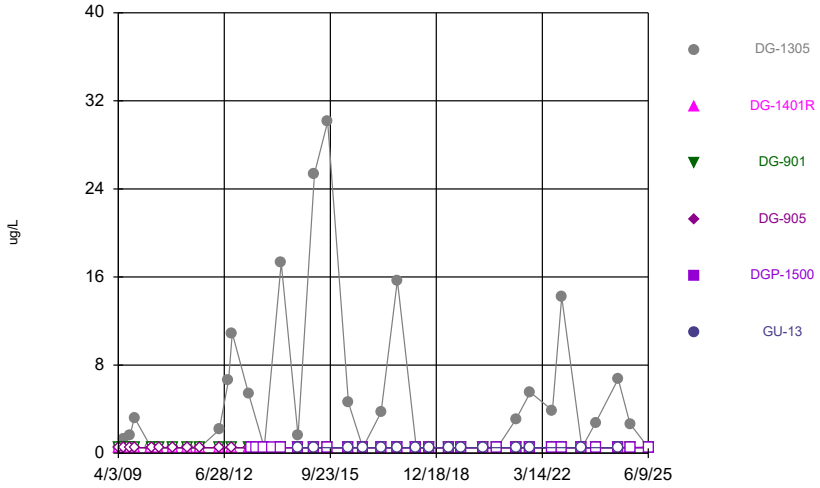
Time Series



Constituent: Chlorobenzene Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chlorobenzene Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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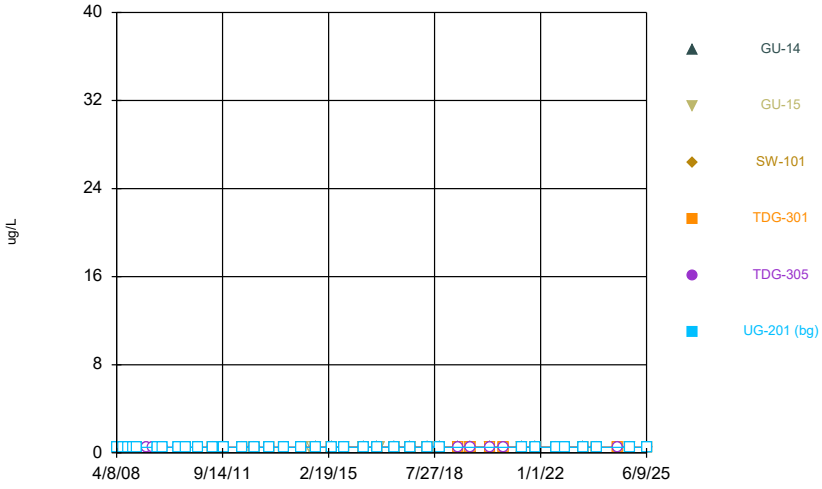
Time Series



Constituent: Chlorobenzene Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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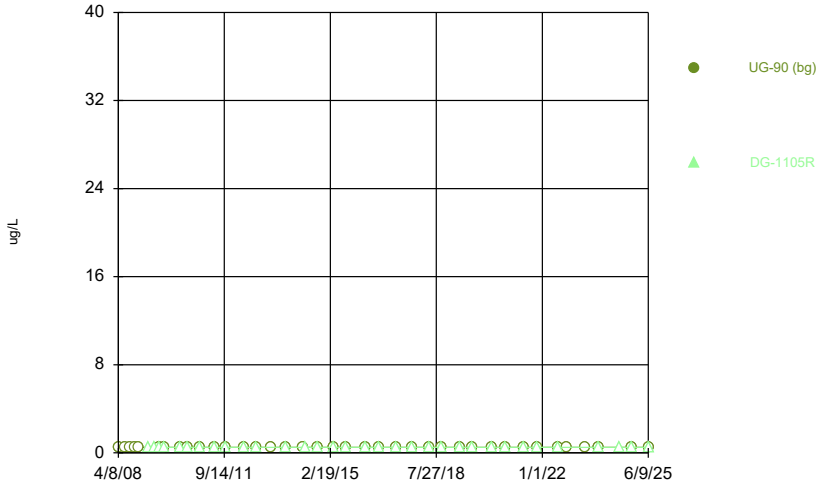
Time Series



Constituent: Chlorobenzene Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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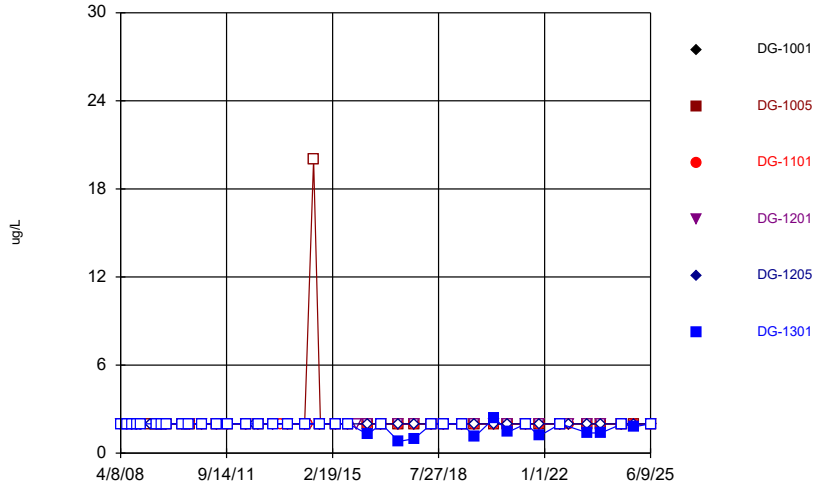
Time Series



Constituent: Chloroethane Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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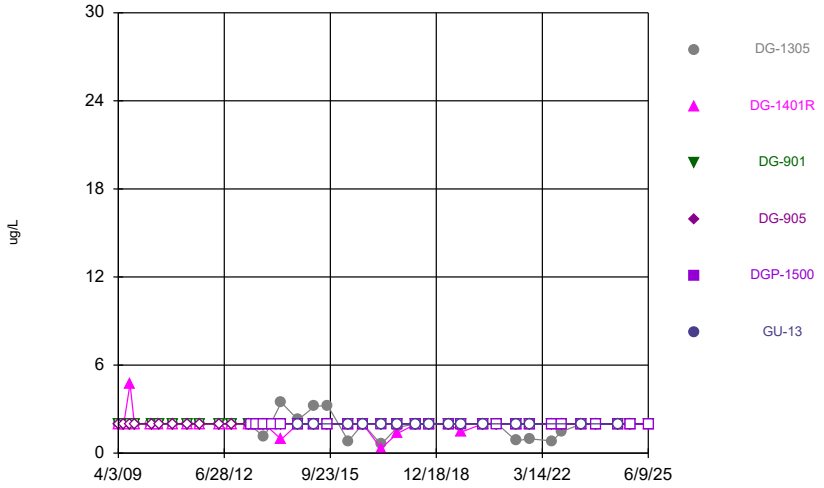
Time Series



Constituent: Chloroethane Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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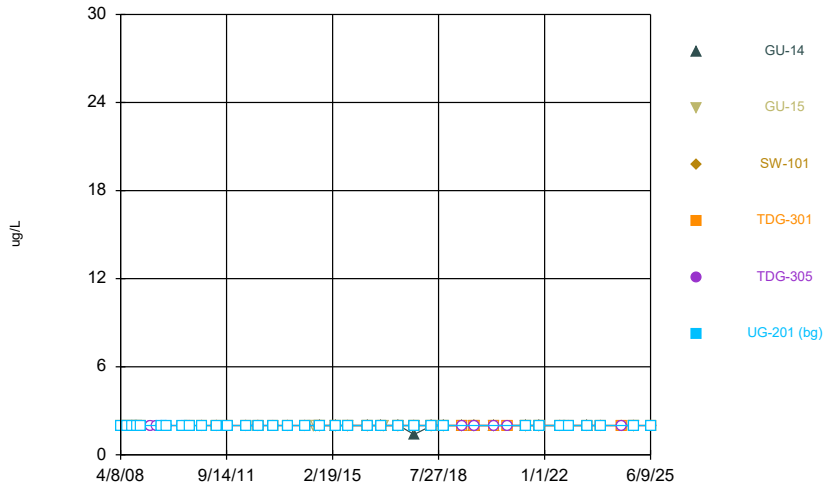
Time Series



Constituent: Chloroethane Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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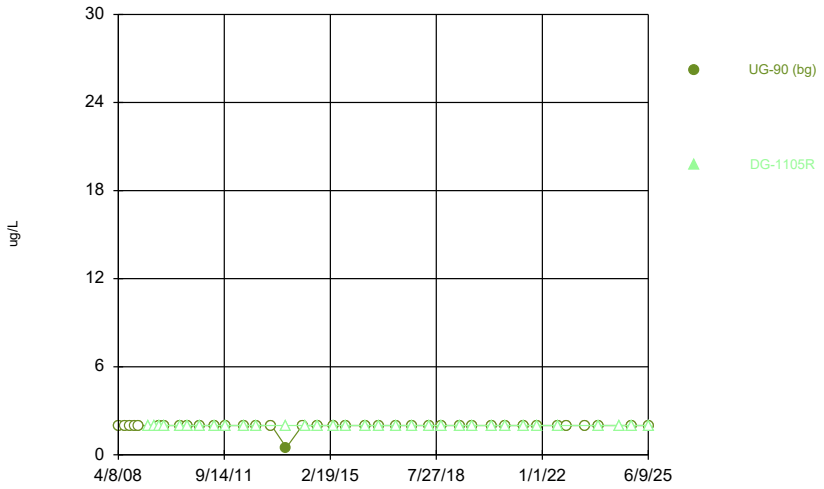
Time Series



Constituent: Chloroethane Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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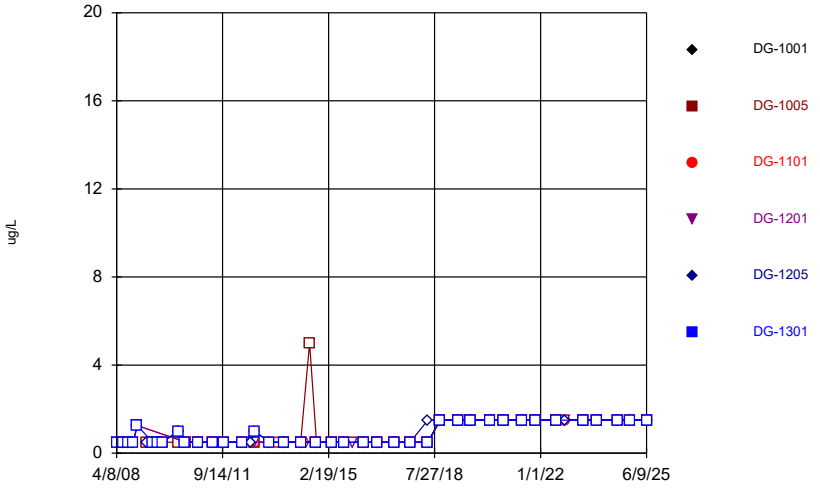
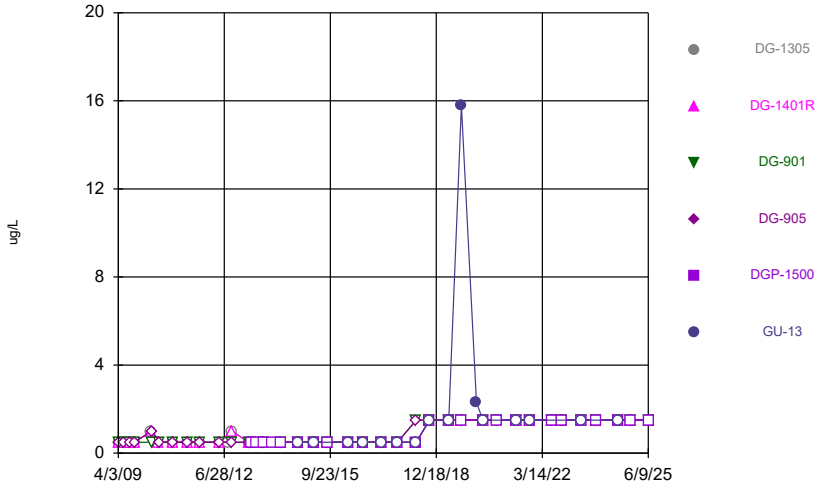
Time Series



Constituent: Chloroform Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

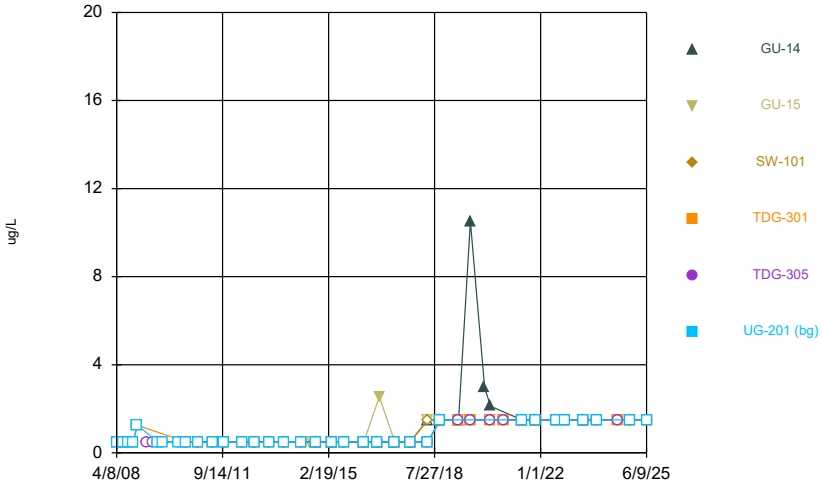
Time Series



Constituent: Chloroform Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chloroform Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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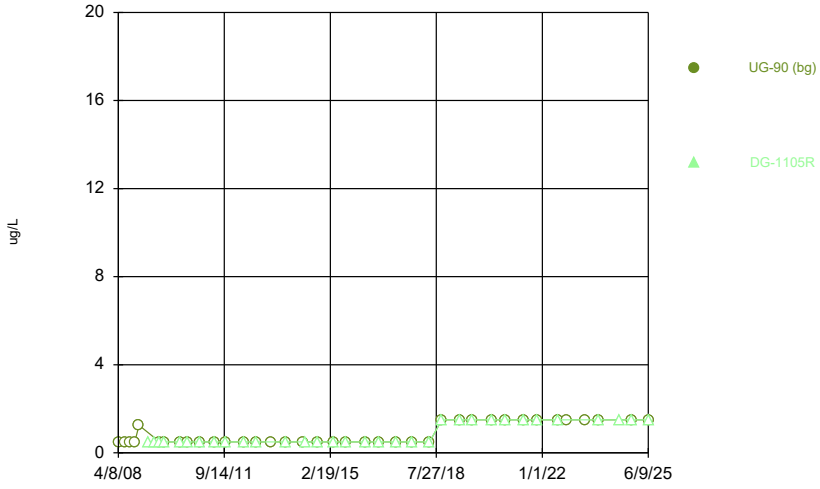
Time Series



Constituent: Chloroform Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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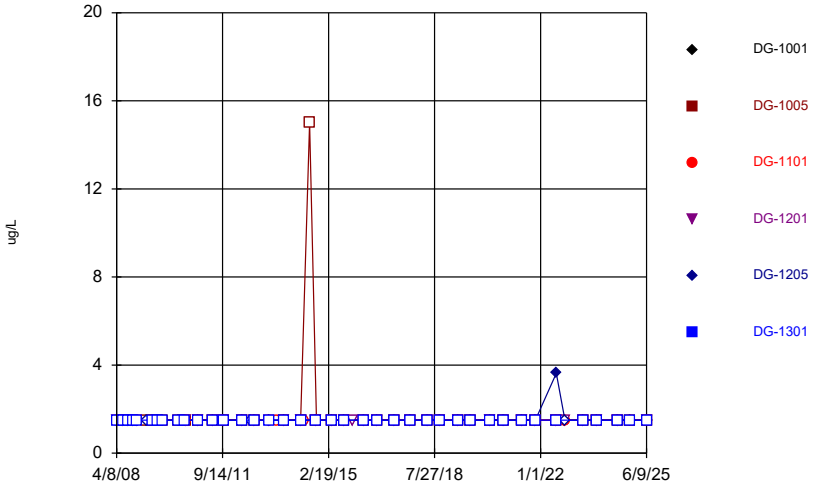
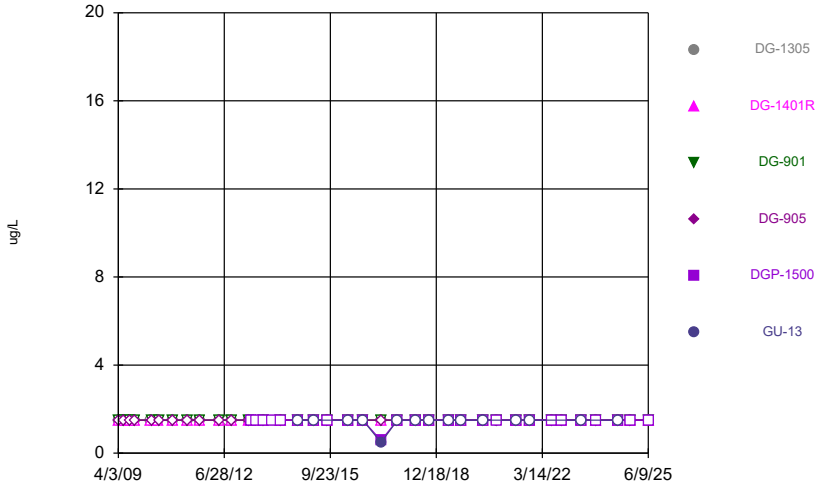
Time Series



Constituent: Chloromethane Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chloromethane Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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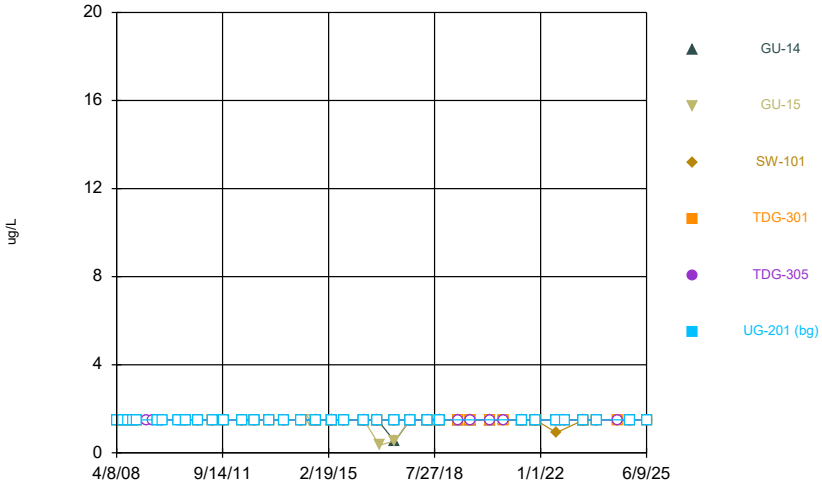
Time Series



Constituent: Chloromethane Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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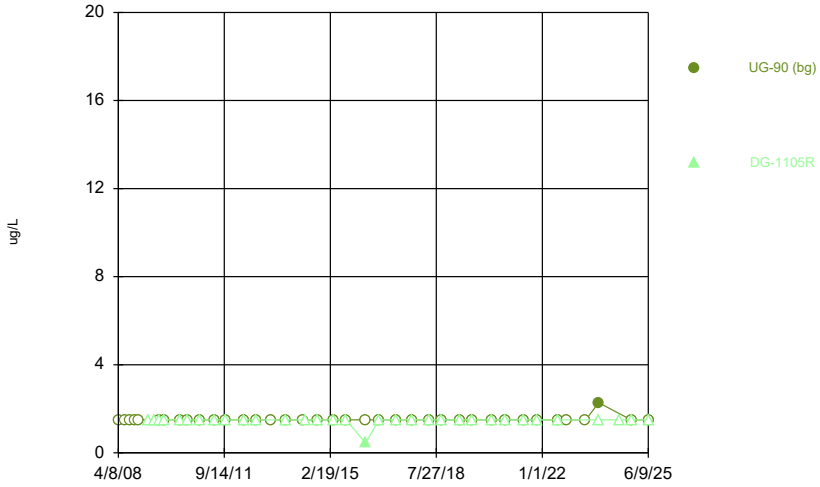
Time Series



Constituent: Chloromethane Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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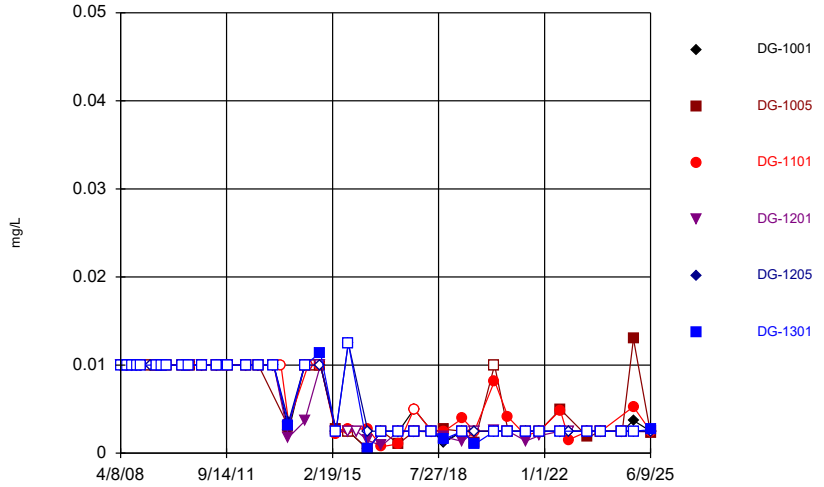
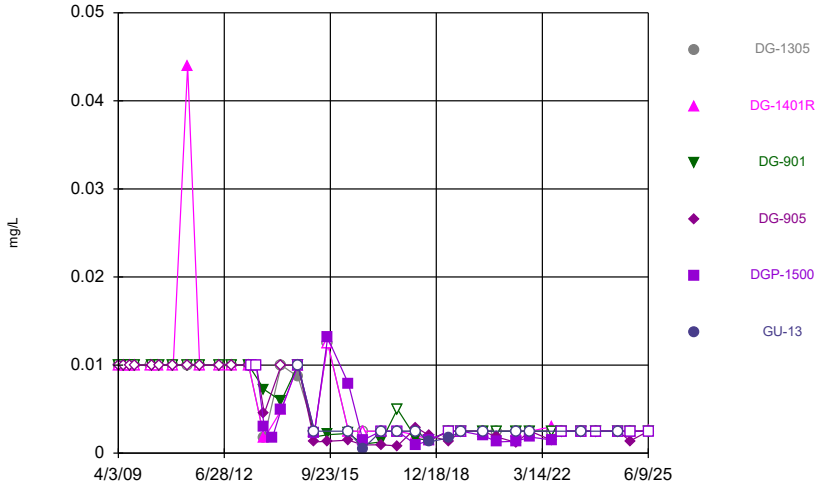
Time Series



Constituent: Chromium Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

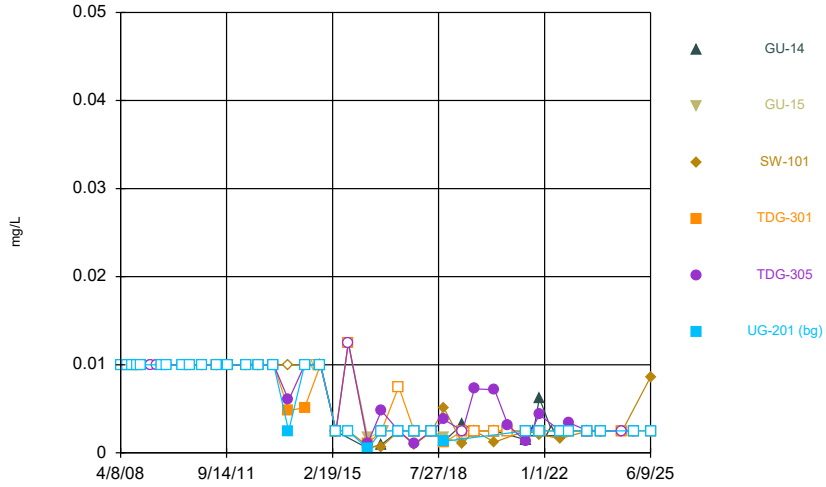
Time Series



Constituent: Chromium Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

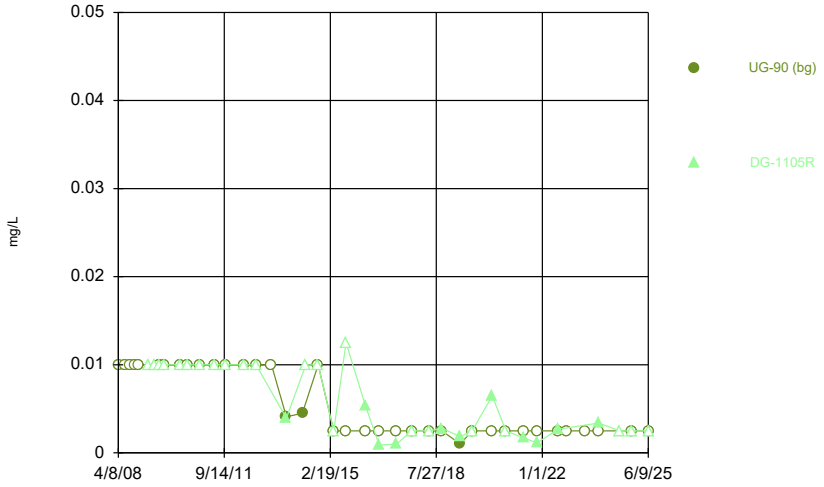
Time Series



Constituent: Chromium Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

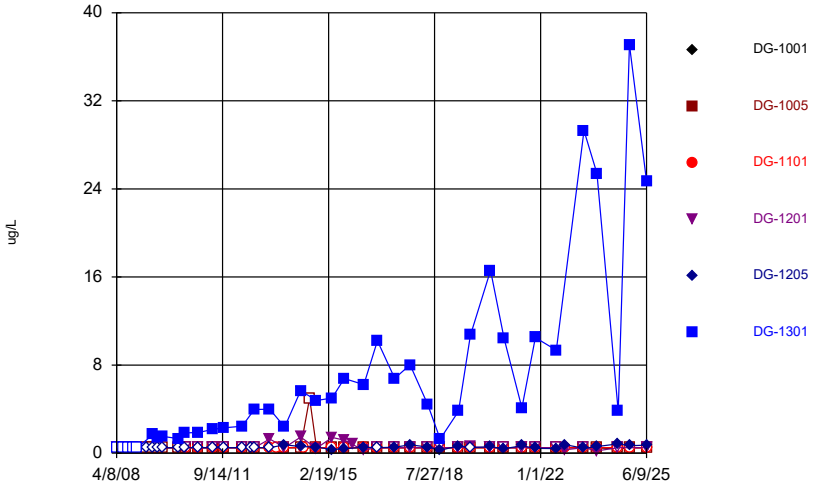
Time Series



Constituent: Chromium Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

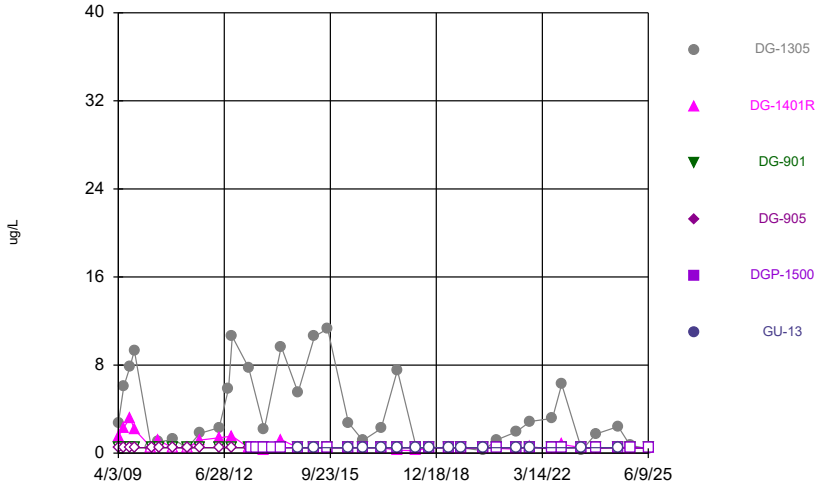
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

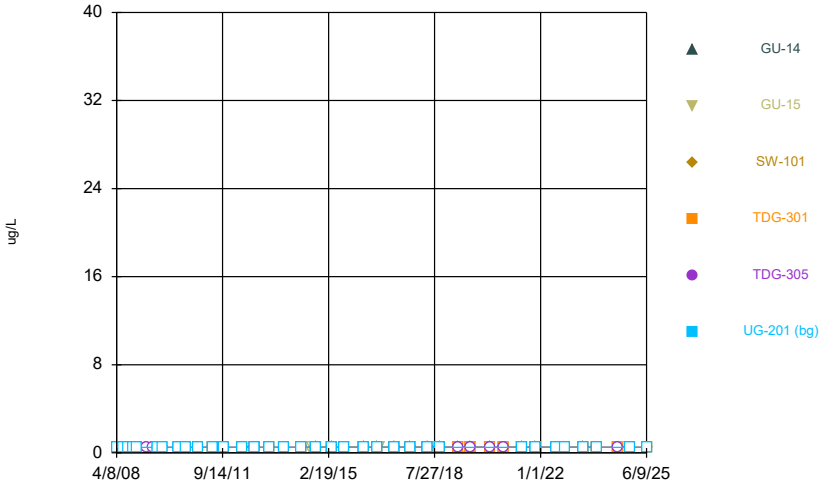
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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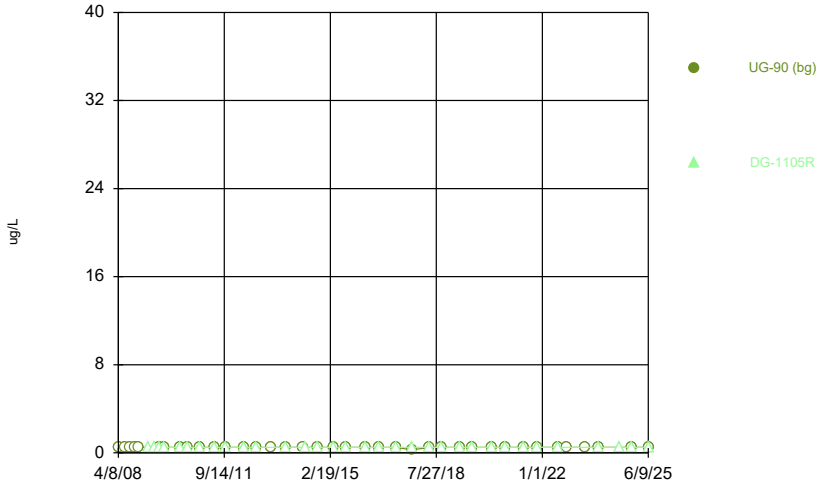
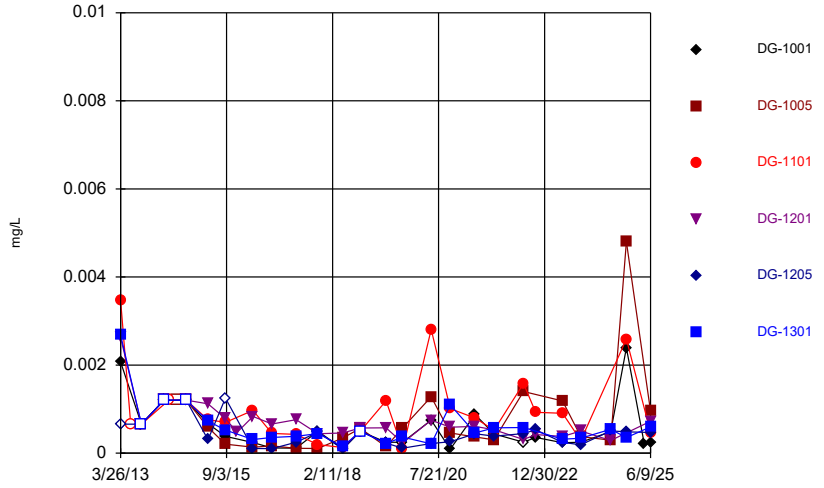
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

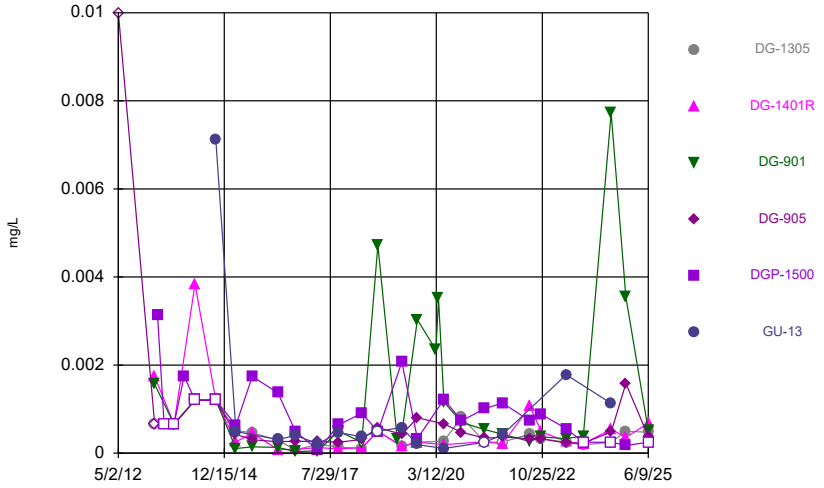
Time Series



Constituent: Cobalt Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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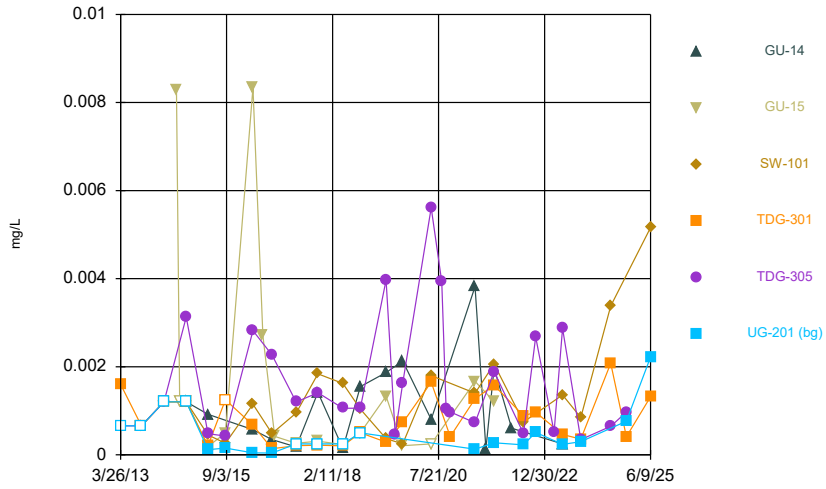
Time Series



Constituent: Cobalt Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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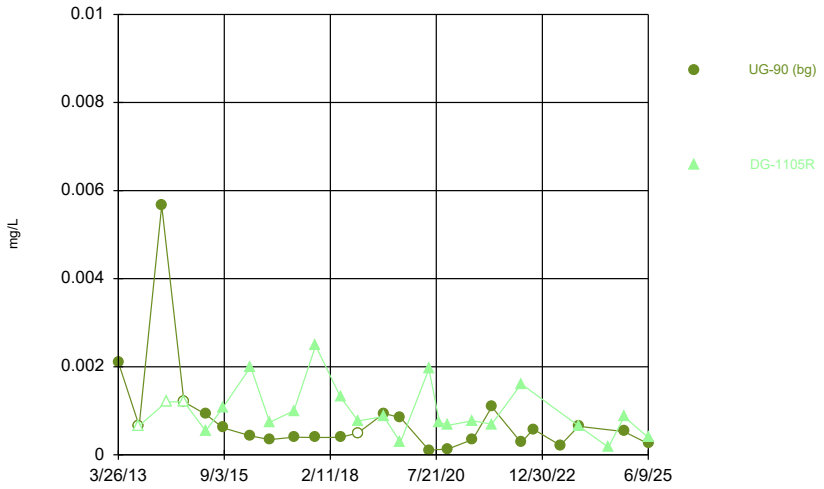
Time Series



Constituent: Cobalt Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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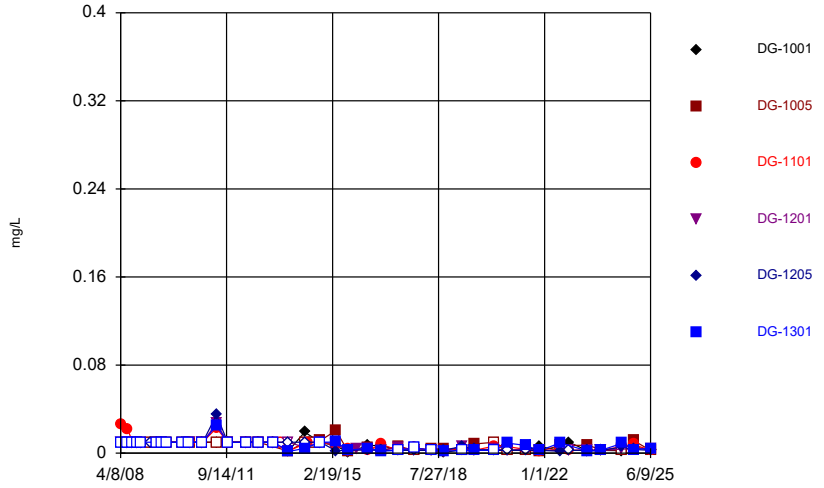
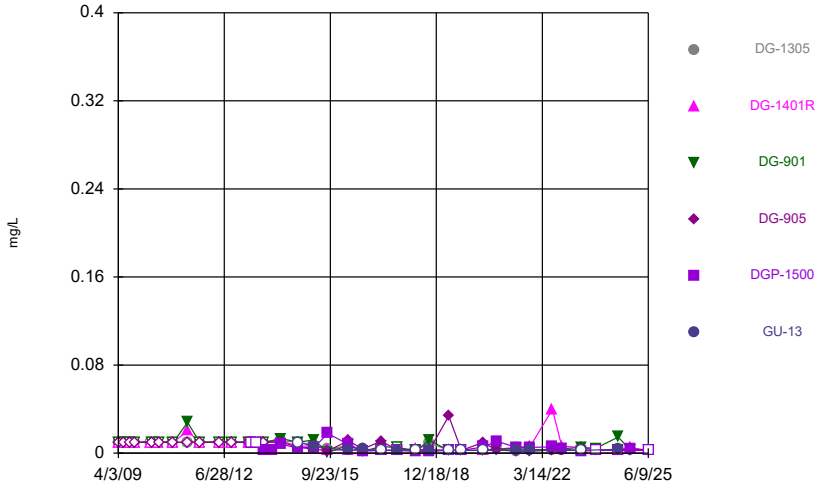
Time Series



Constituent: Copper Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Copper Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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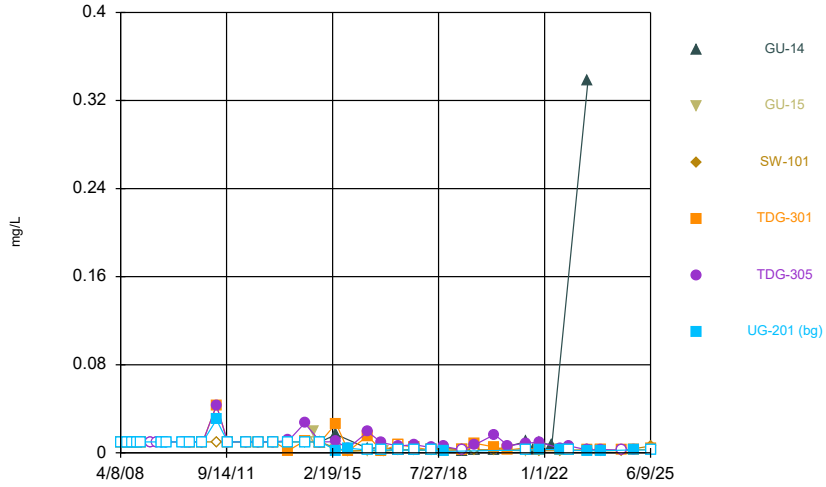
Time Series



Constituent: Copper Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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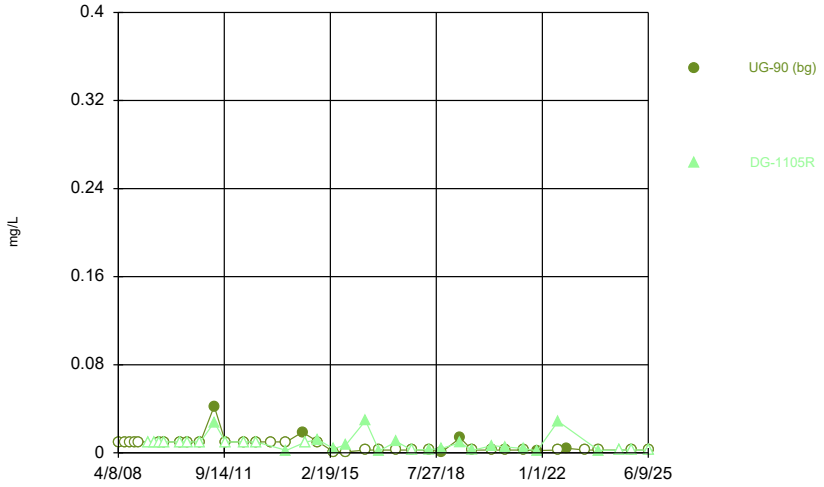
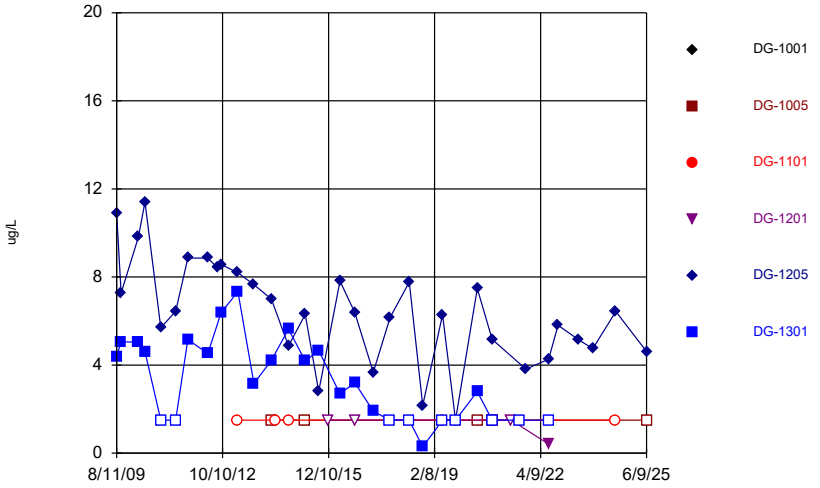
Time Series



Constituent: Copper Analysis Run 9/29/2025 11:09 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

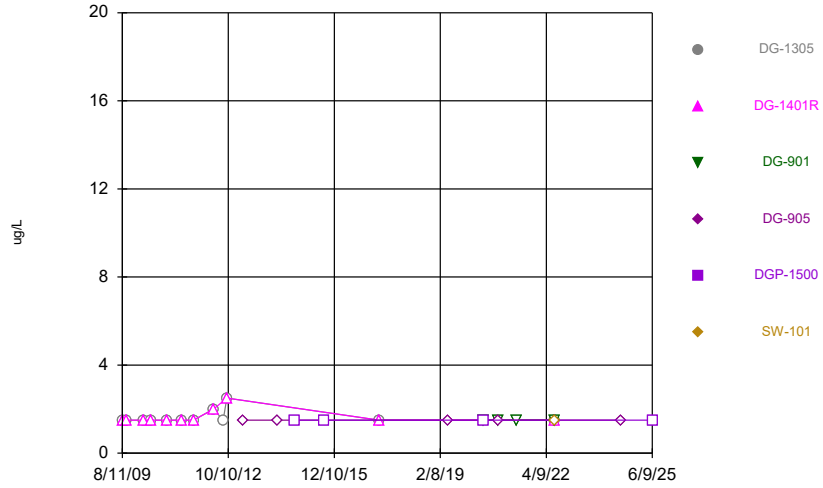
Time Series



Constituent: Dichlorodifluoromethane Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Dichlorodifluoromethane Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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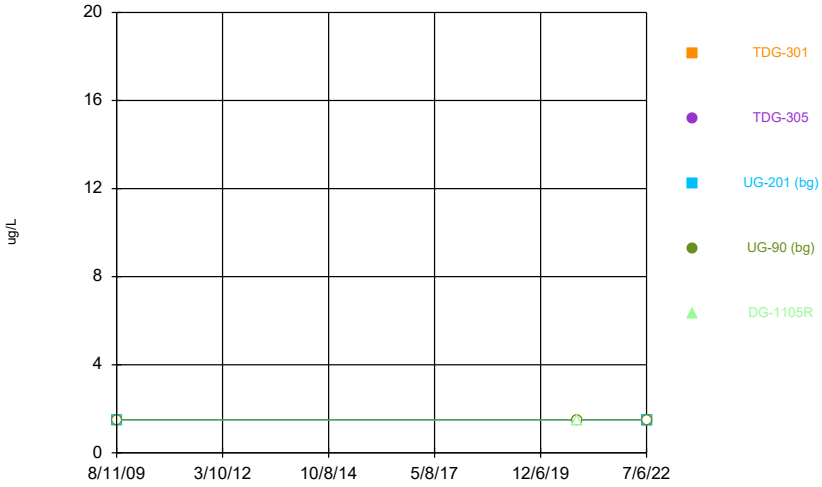
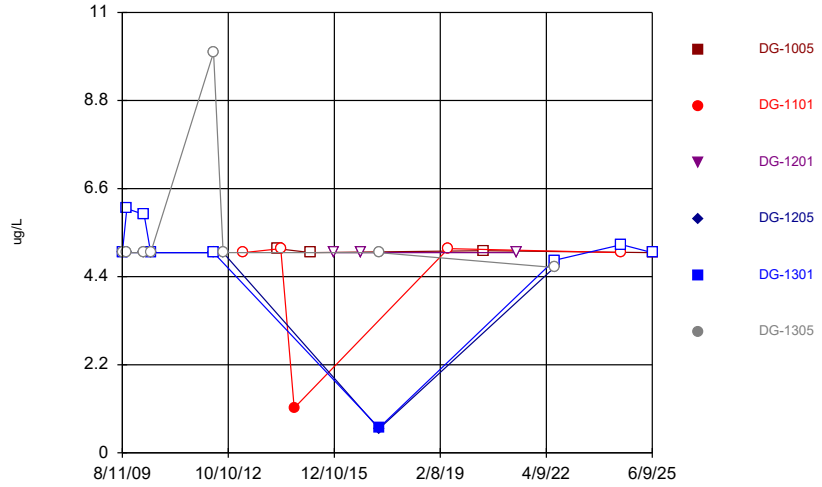
Time Series



Constituent: Dichlorodifluoromethane Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Di-n-butyl phthalate Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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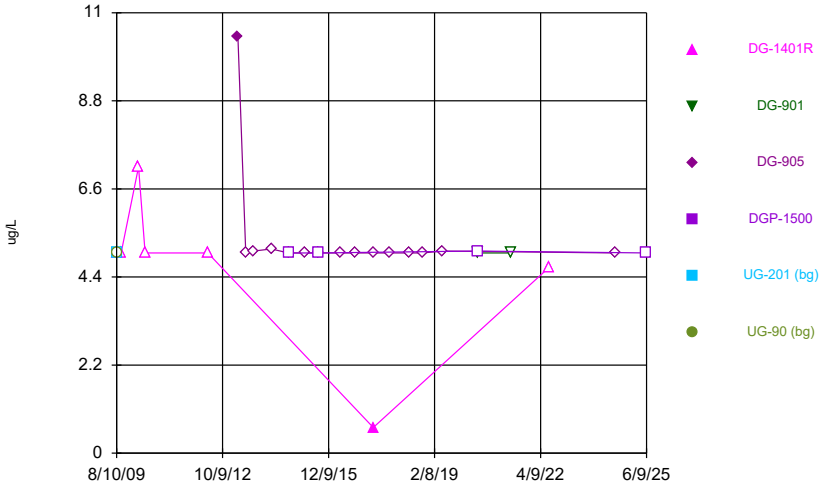
Hollow symbols indicate censored values.

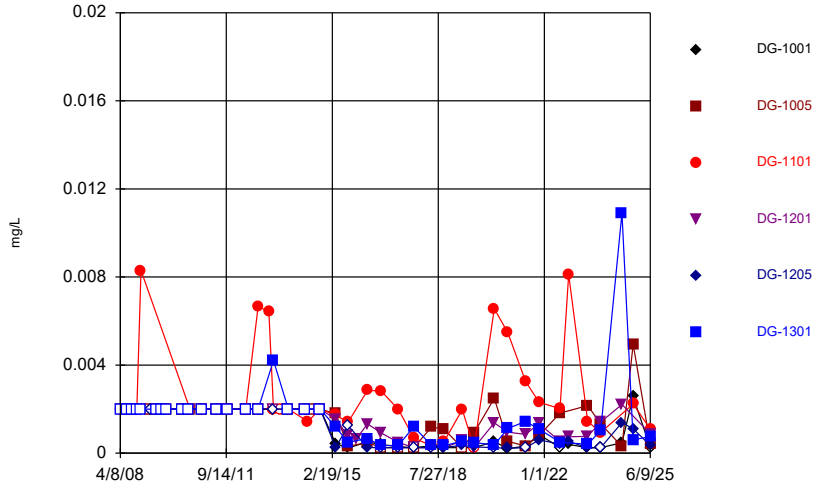
Time Series



Constituent: Di-n-butyl phthalate Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

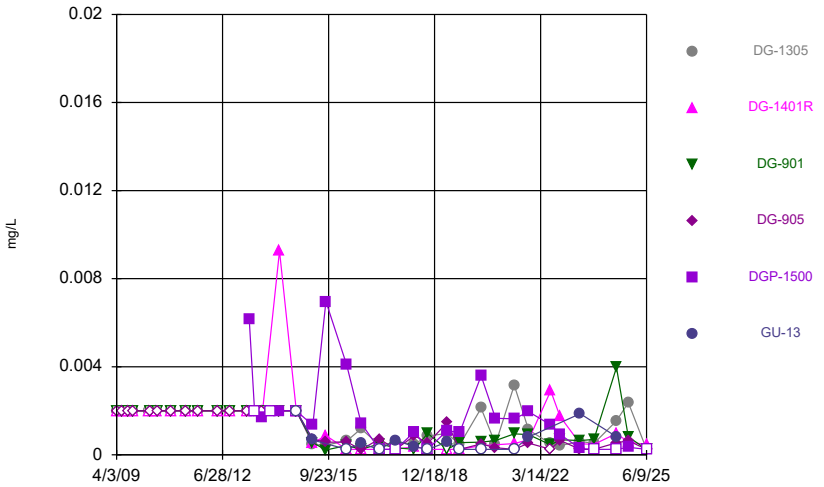
Time Series



Constituent: Lead Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Lead Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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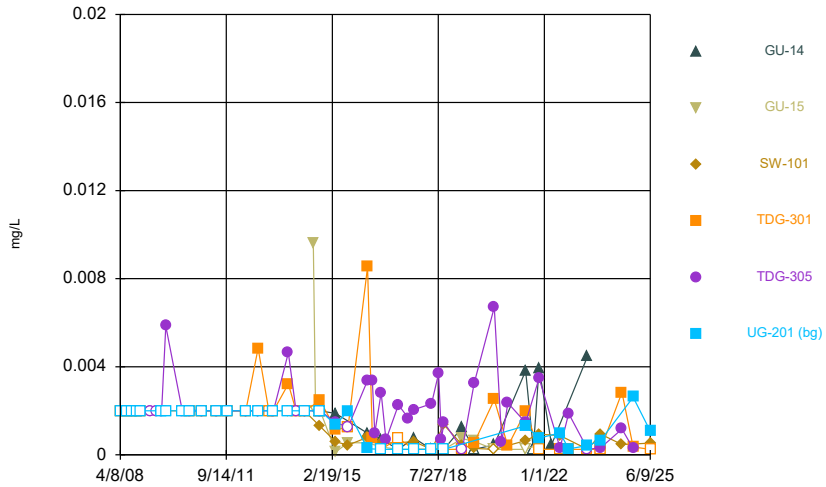
Time Series



Constituent: Lead Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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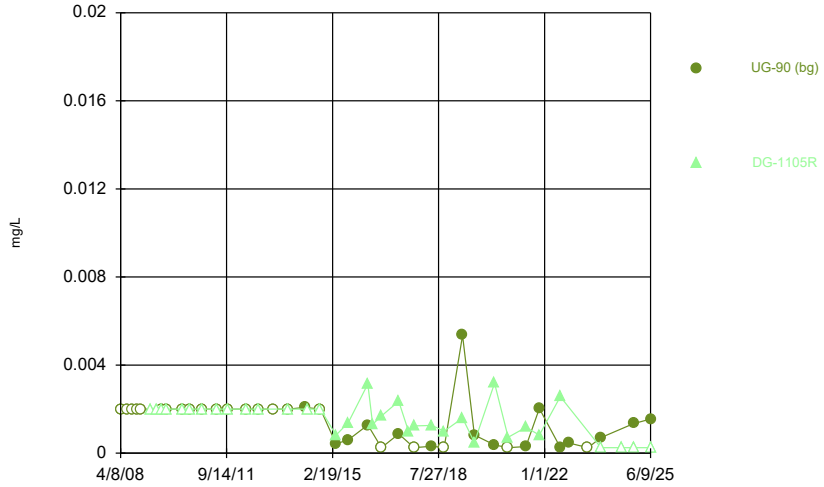
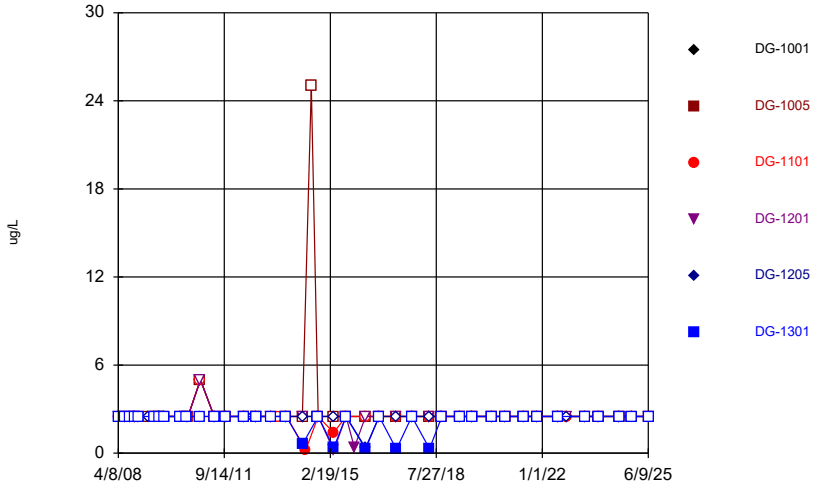
Time Series



Constituent: Lead Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

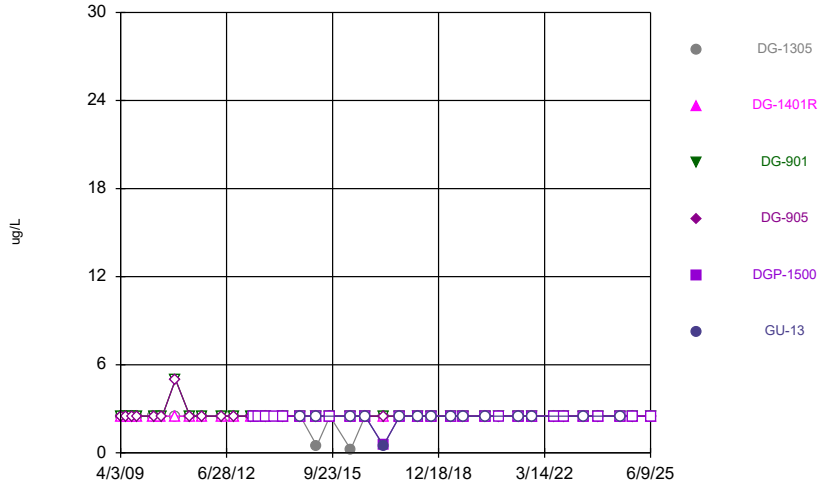
Time Series



Constituent: Methylene Chloride Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

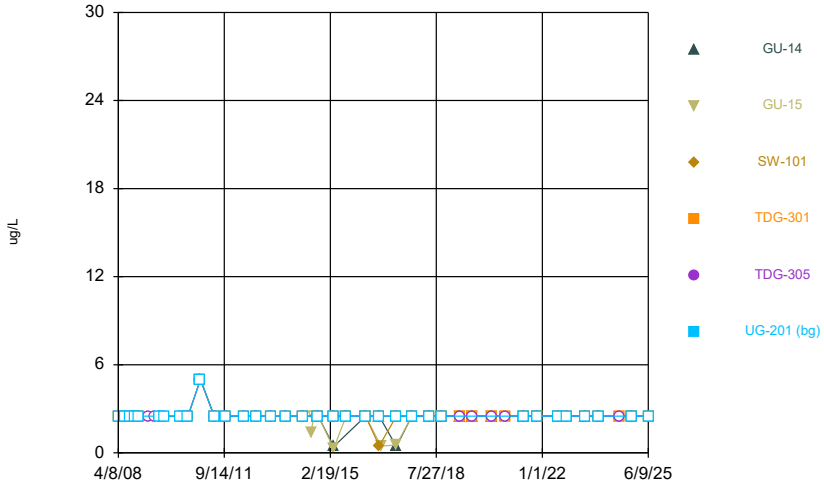
Time Series



Constituent: Methylene Chloride Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Methylene Chloride Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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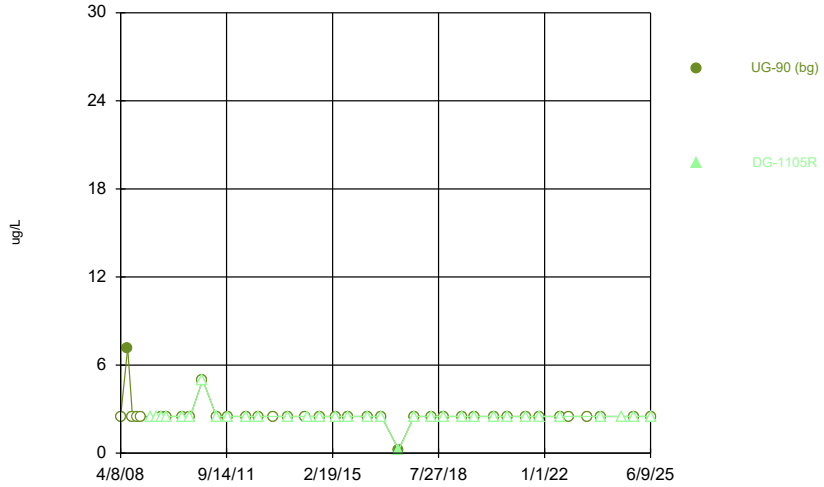
Time Series



Constituent: Methylene Chloride Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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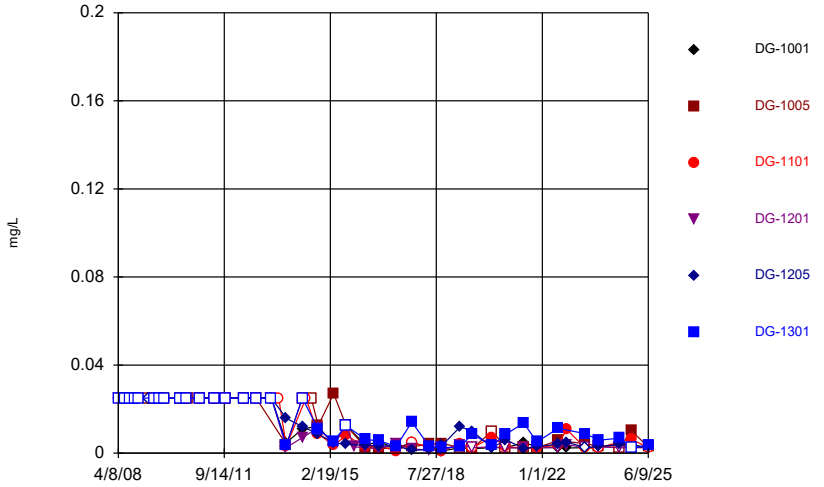
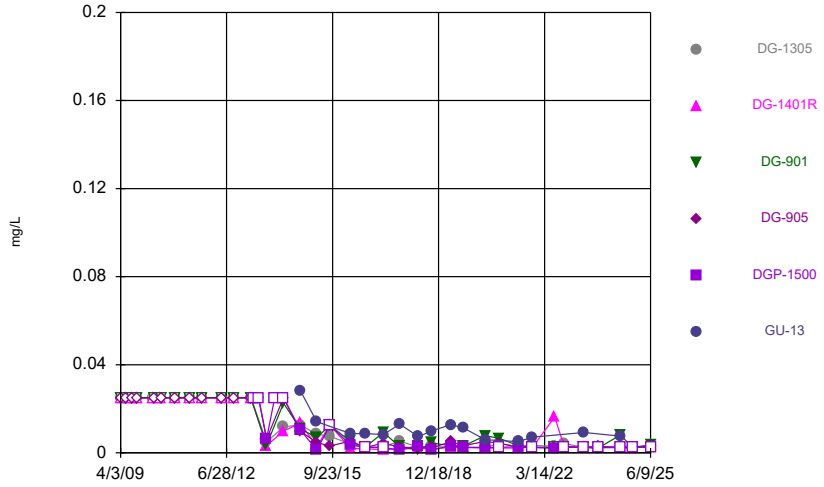
Time Series



Constituent: Nickel Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Nickel Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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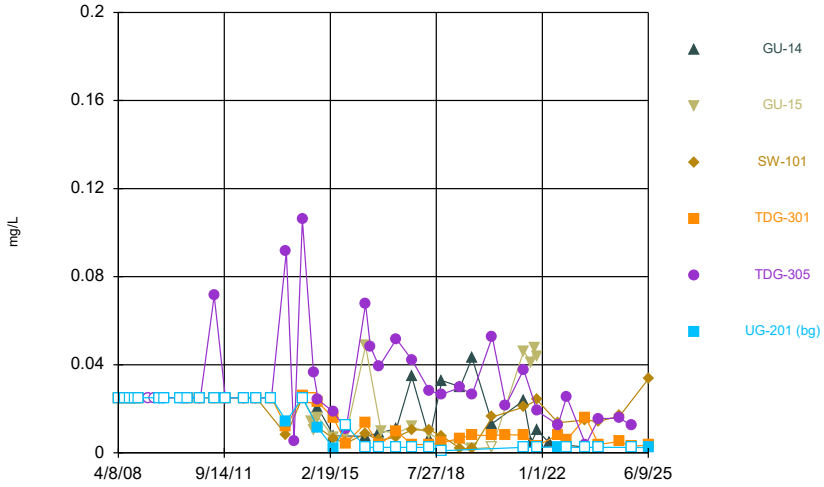
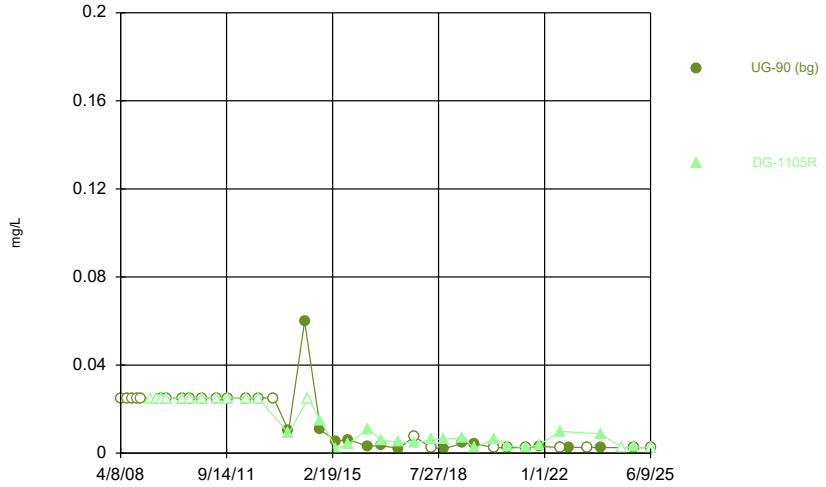
Time Series



Constituent: Nickel Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

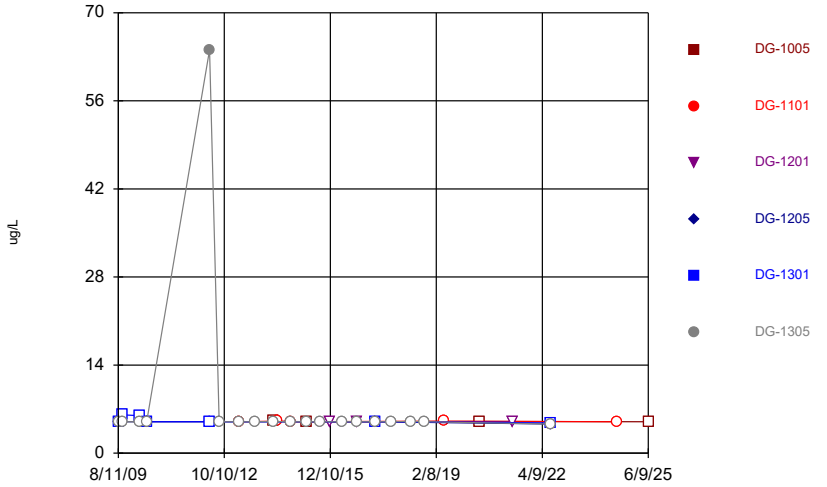
Time Series



Constituent: Nickel Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

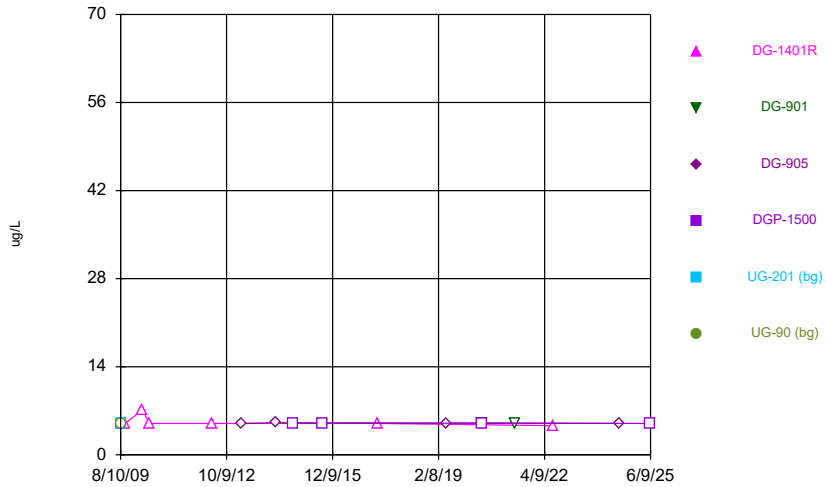
Time Series



Constituent: Parathion-ethyl Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

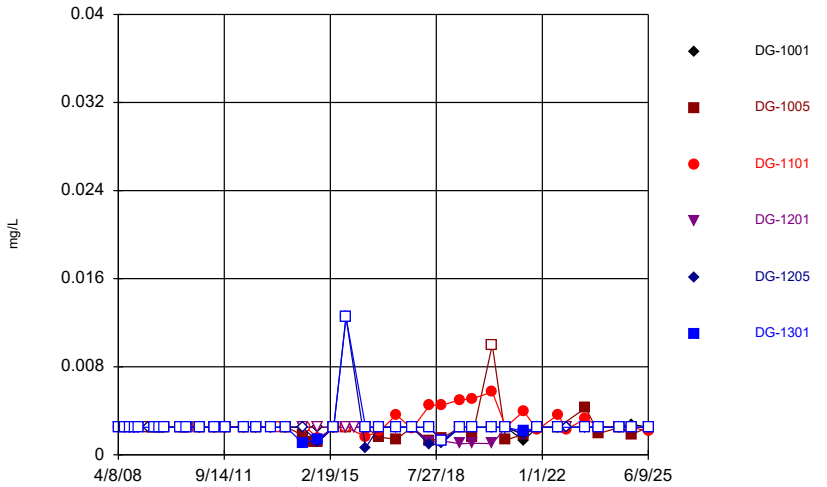
Time Series



Constituent: Parathion-ethyl Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
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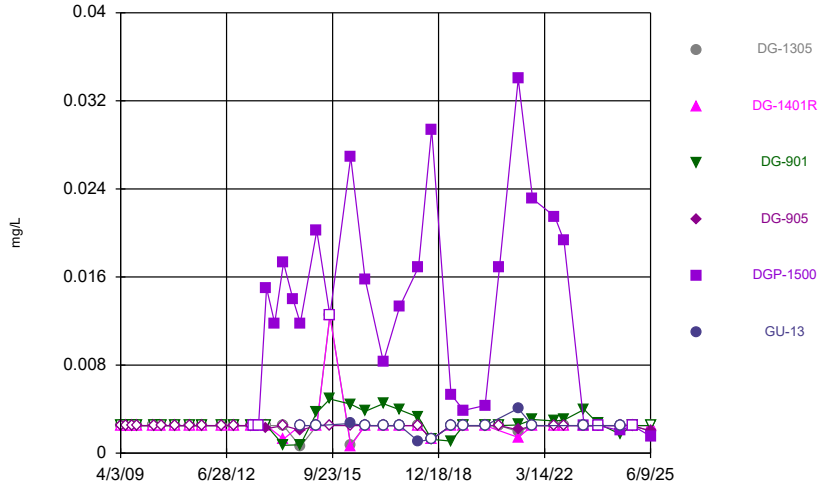
Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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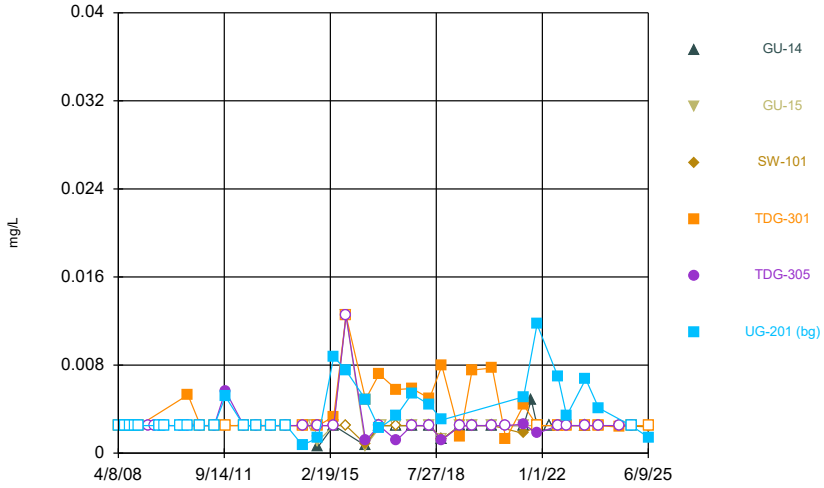
Time Series



Constituent: Selenium Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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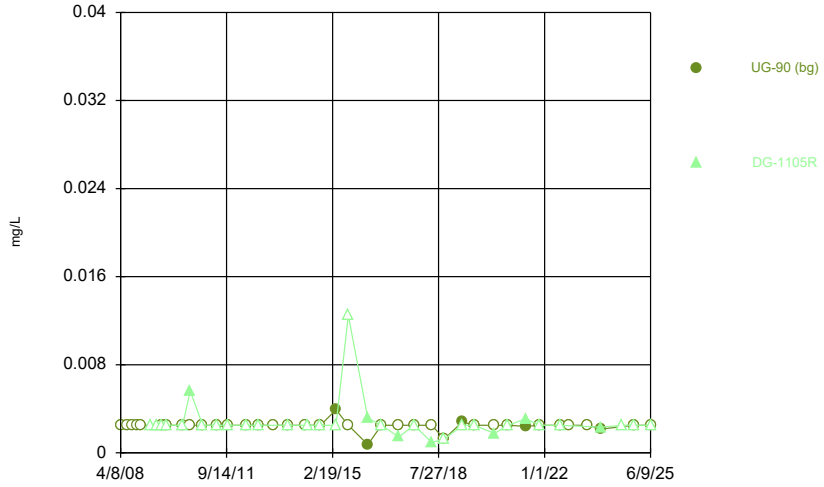
Time Series



Constituent: Selenium Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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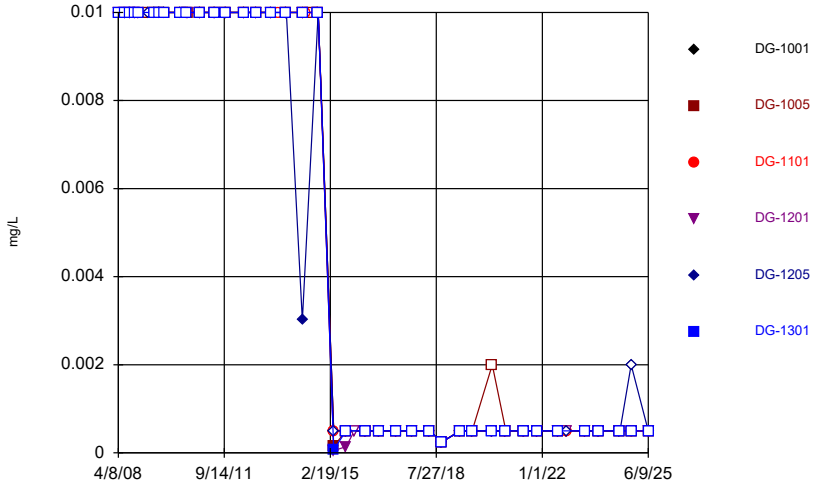

Constituent: Silver Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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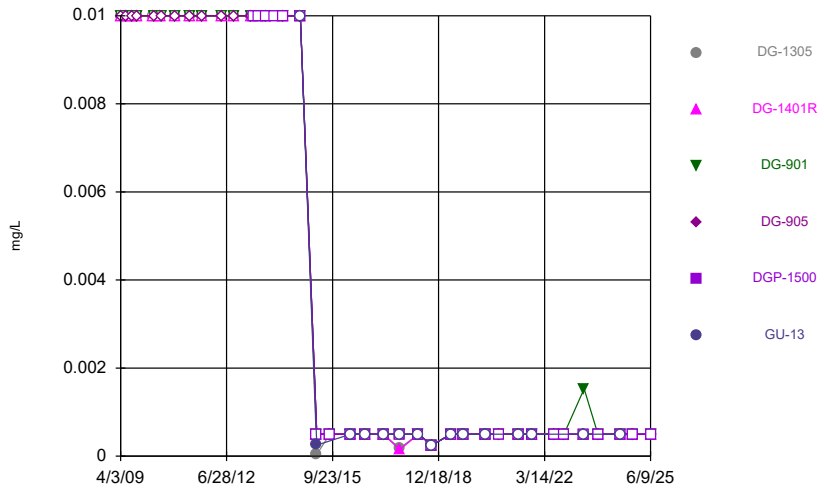
Hollow symbols indicate censored values.

Time Series



Constituent: Silver Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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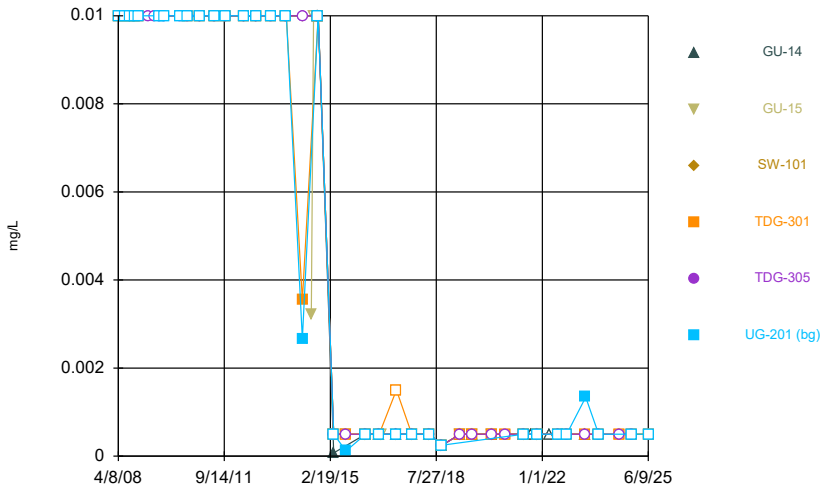
Time Series



Constituent: Silver Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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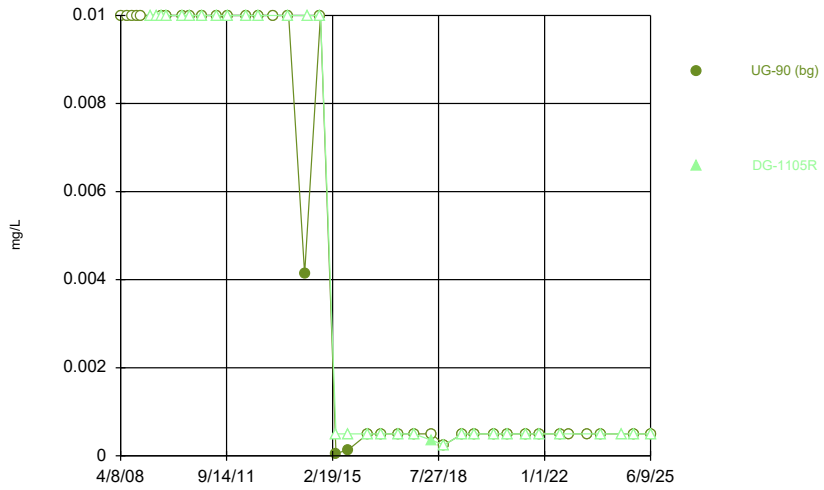
Time Series



Constituent: Silver Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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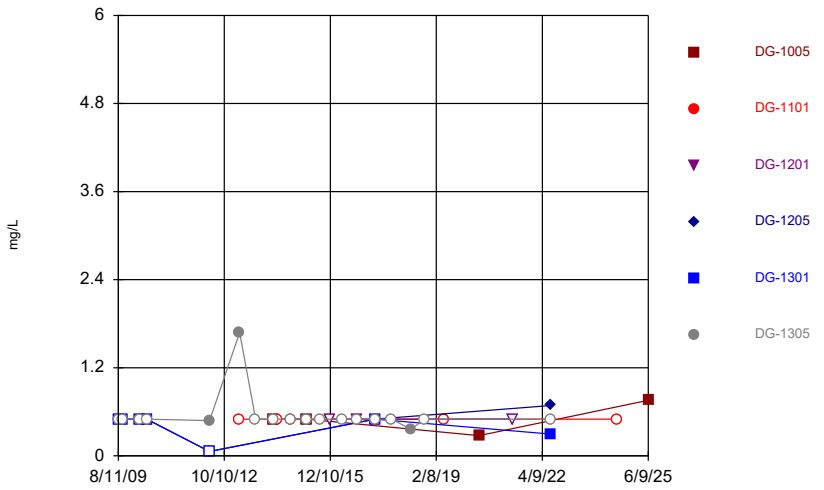
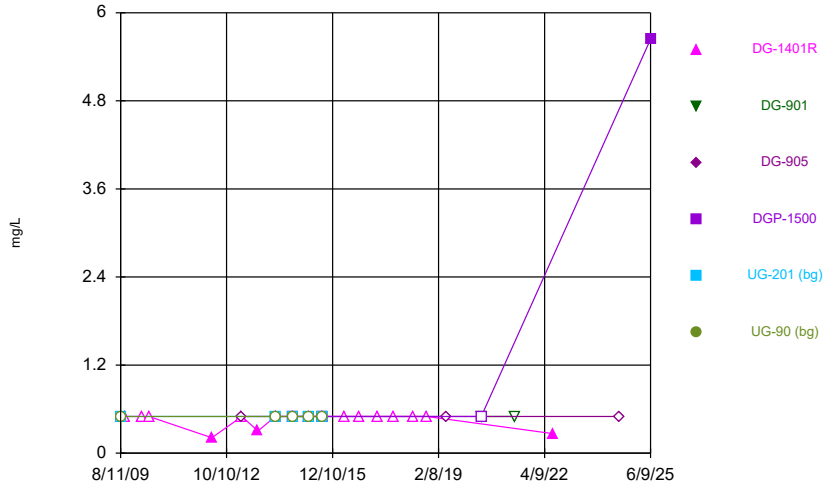
Time Series



Constituent: Sulfide Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

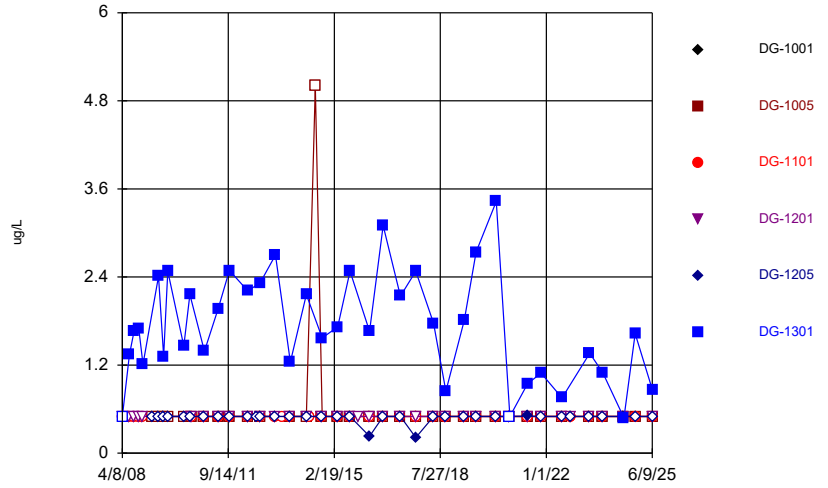
Time Series



Constituent: Sulfide Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

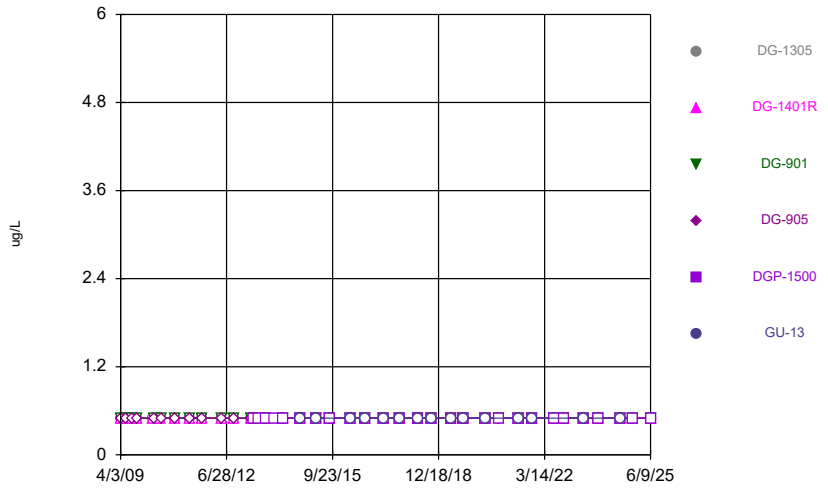
Time Series



Constituent: Tetrachloroethene Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

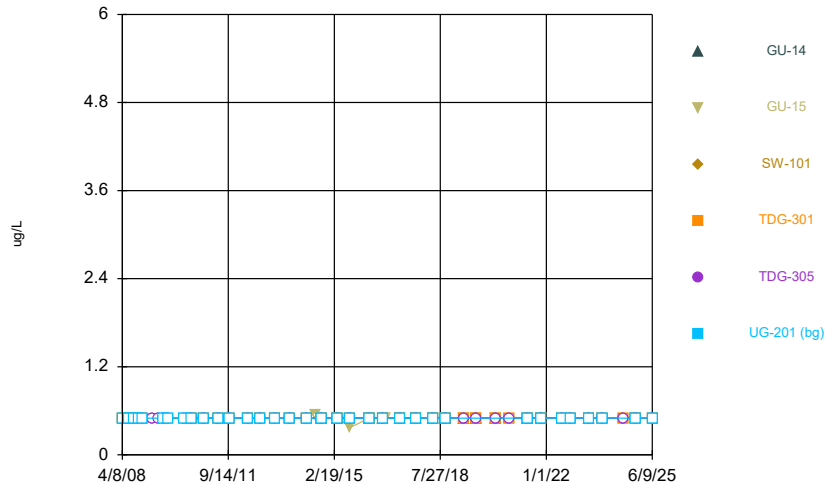
Time Series



Constituent: Tetrachloroethene Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Tetrachloroethene Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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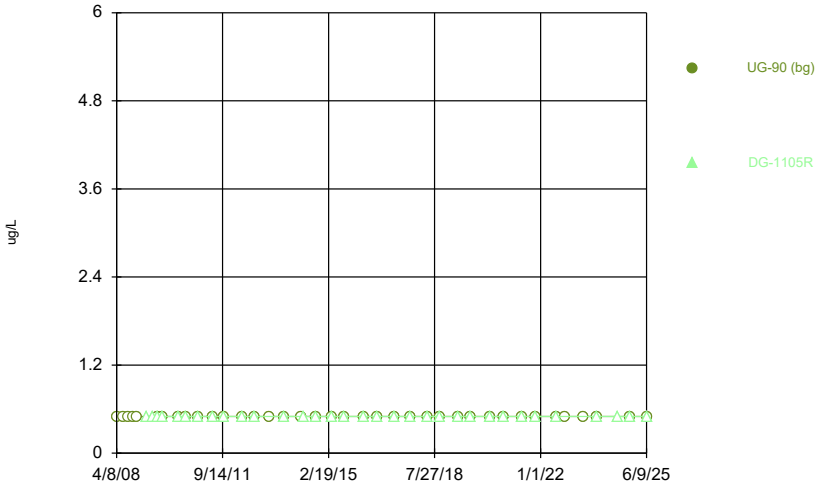
Time Series



Constituent: Tetrachloroethene Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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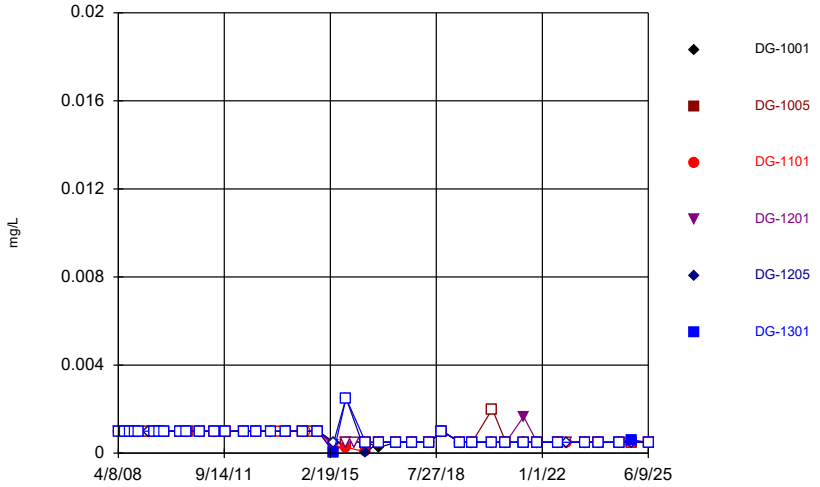
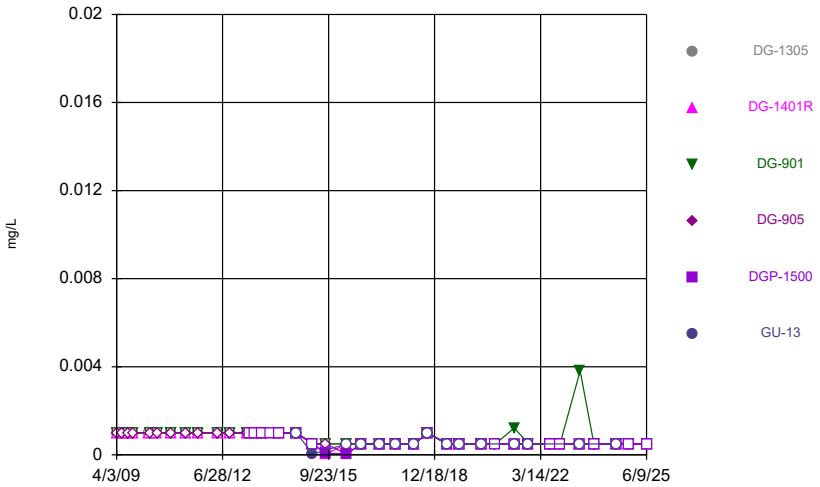
Time Series



Constituent: Thallium Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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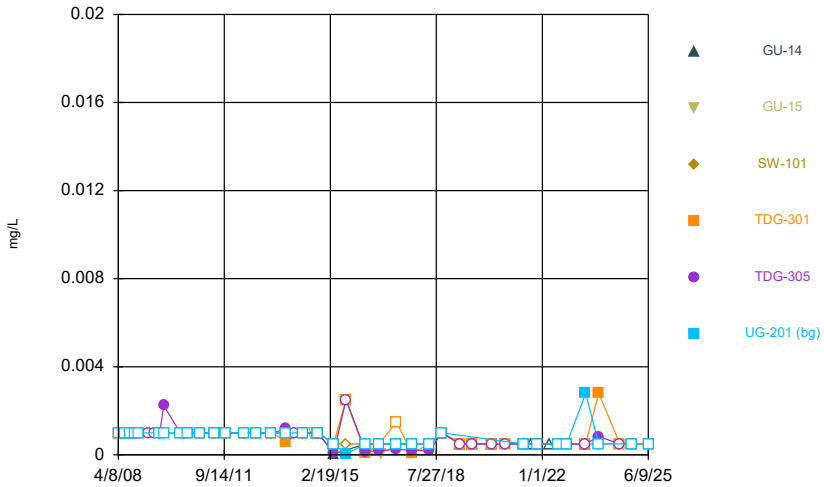
Time Series



Constituent: Thallium Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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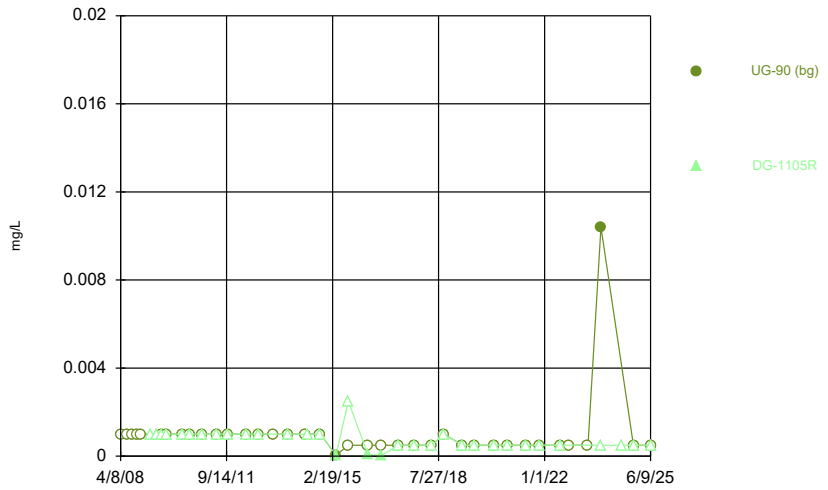
Time Series



Constituent: Thallium Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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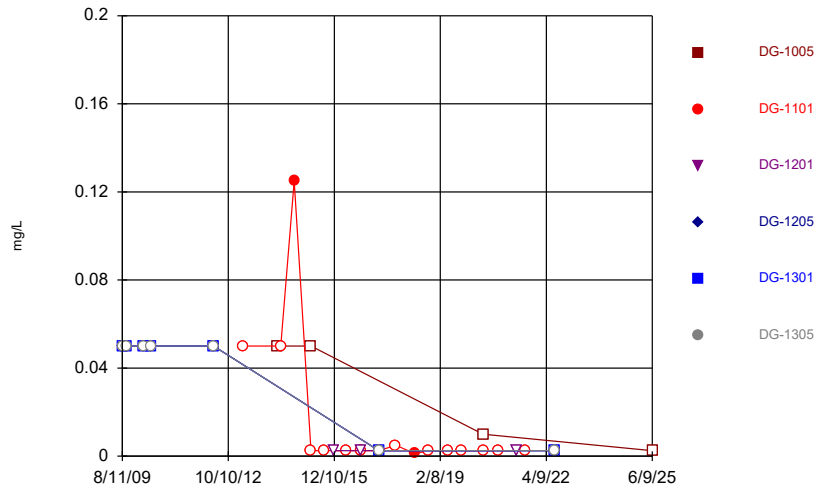
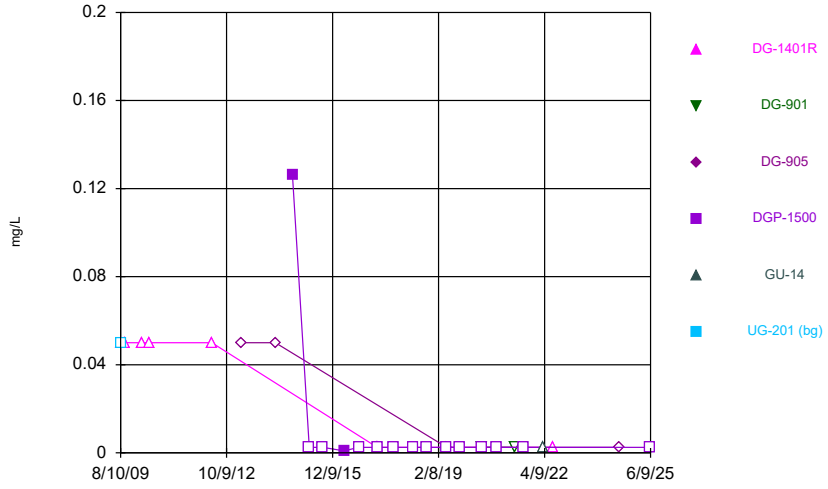
Time Series



Constituent: Tin Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

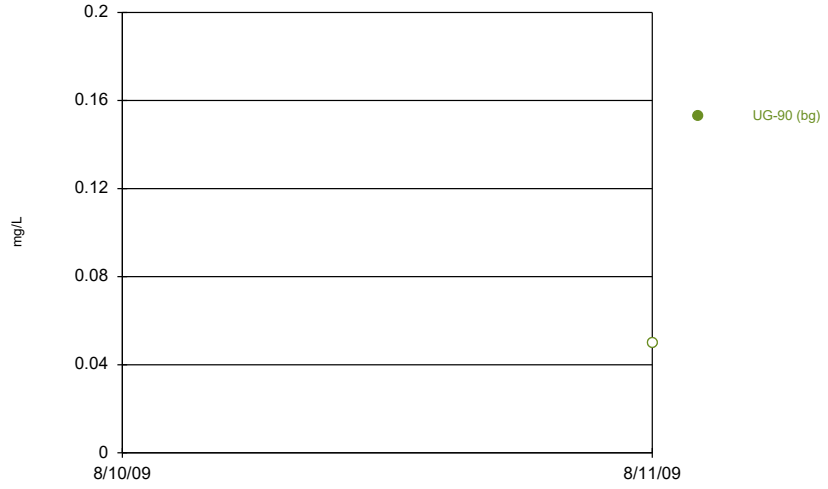
Time Series



Constituent: Tin Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Tin Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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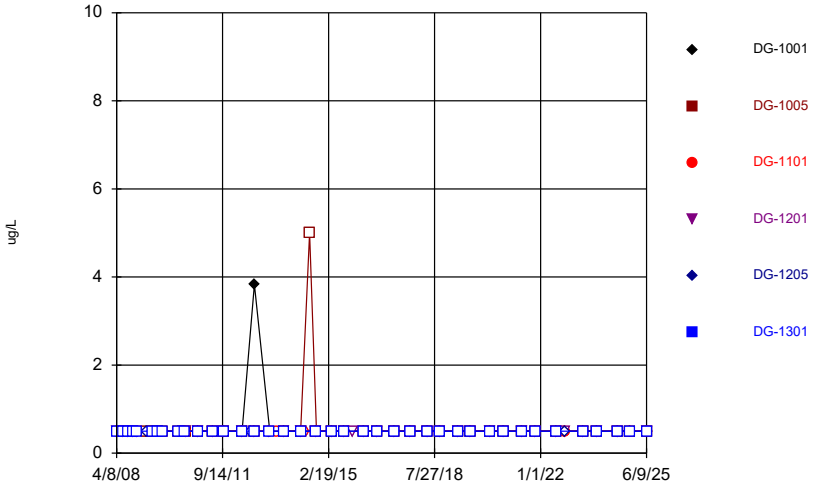
Hollow symbols indicate censored values.

Time Series



Constituent: Toluene Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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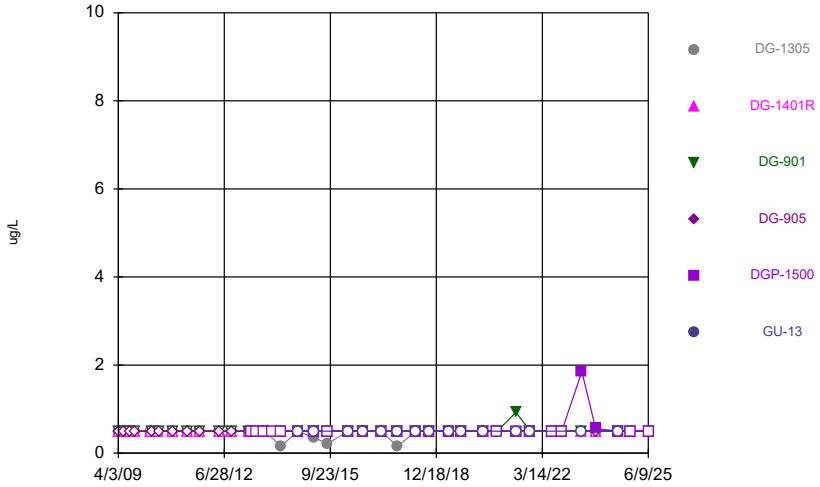
Hollow symbols indicate censored values.

Time Series



Constituent: Toluene Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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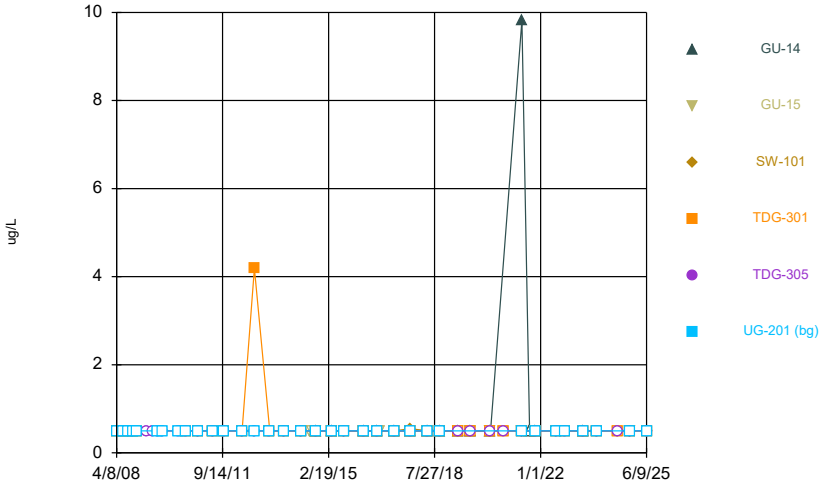
Hollow symbols indicate censored values.

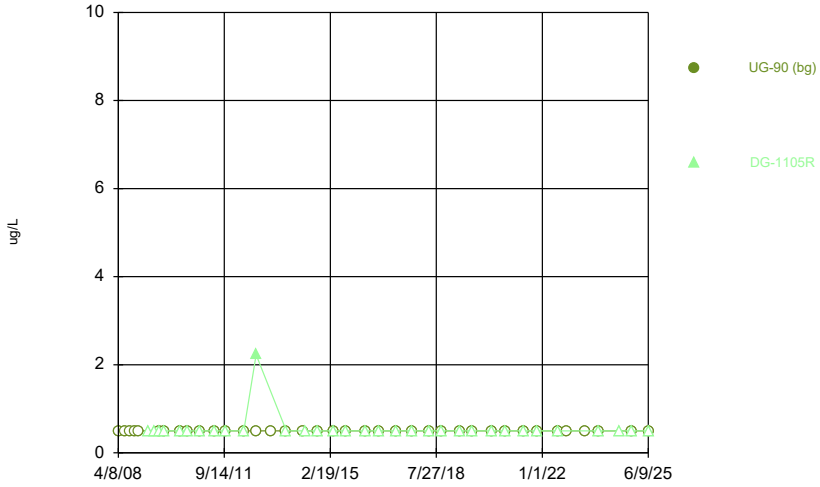
Time Series



Constituent: Toluene Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

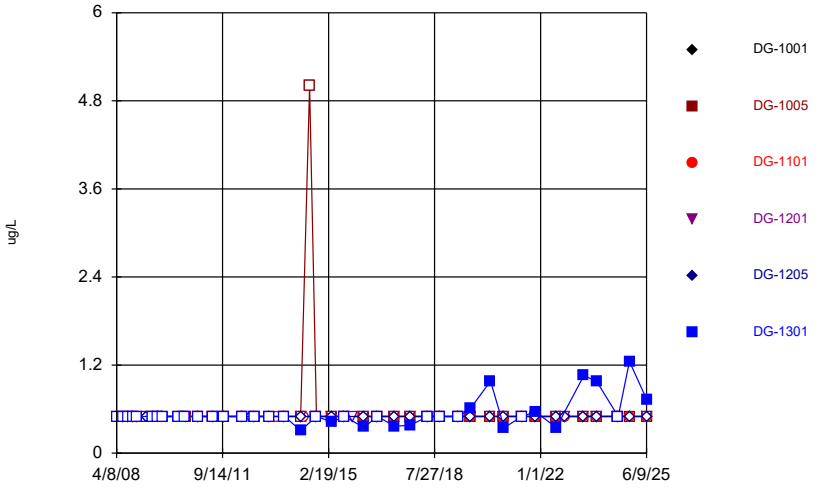
Time Series



Constituent: Toluene Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

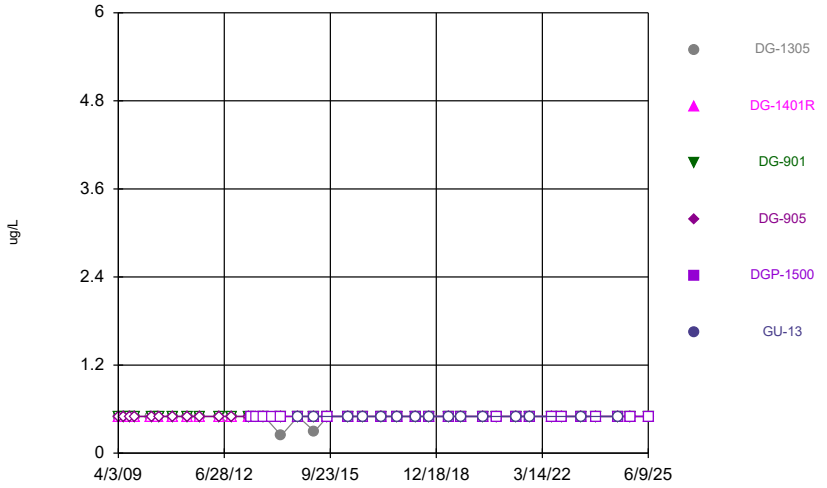
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

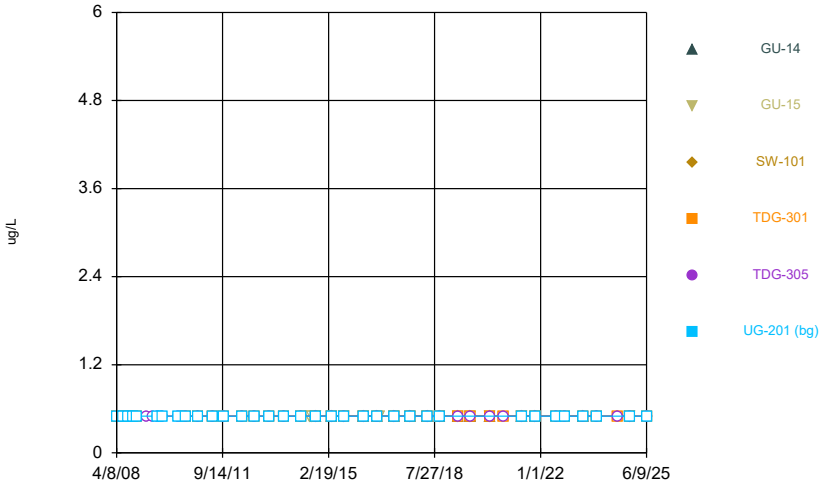
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

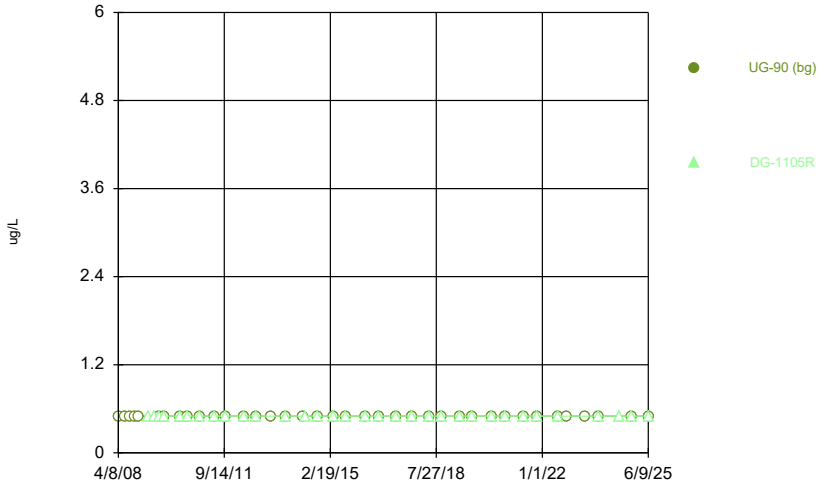
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

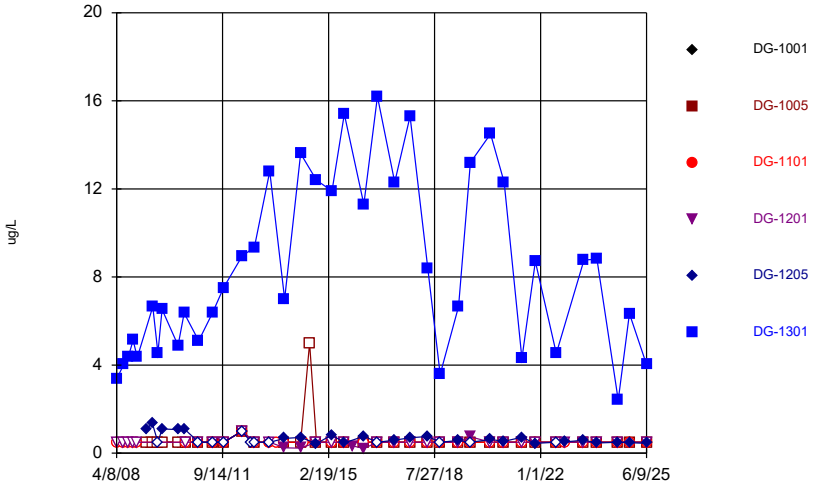
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

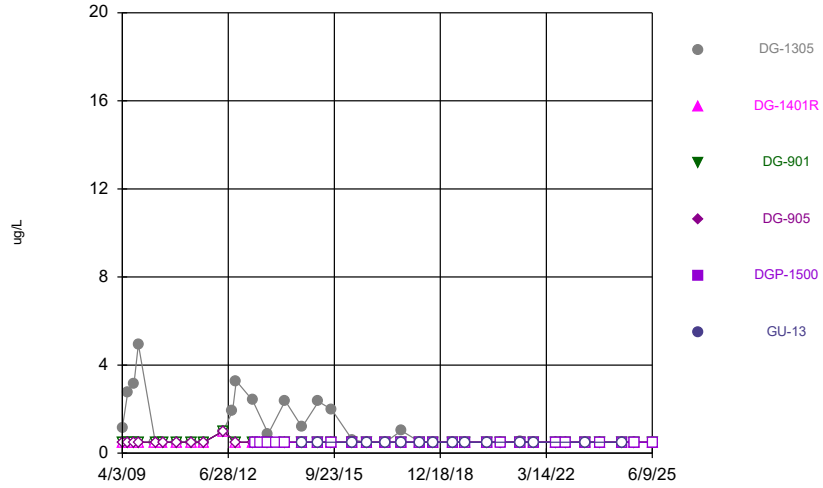
Time Series



Constituent: Trichloroethene Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

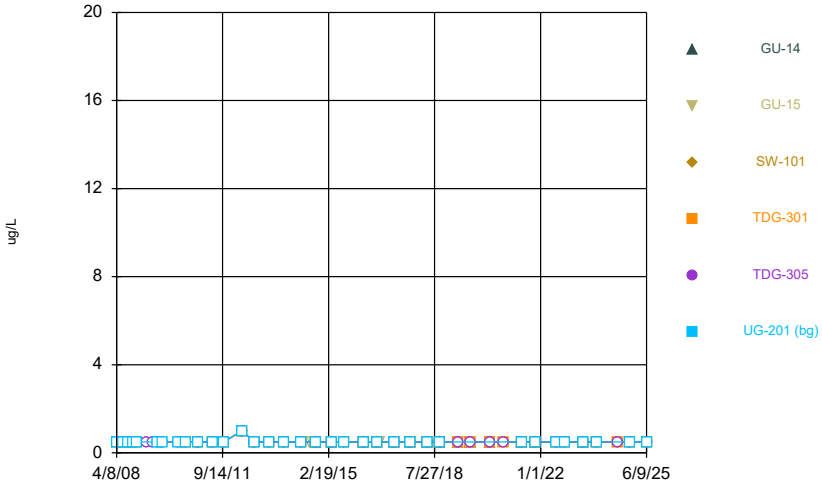
Time Series



Constituent: Trichloroethene Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

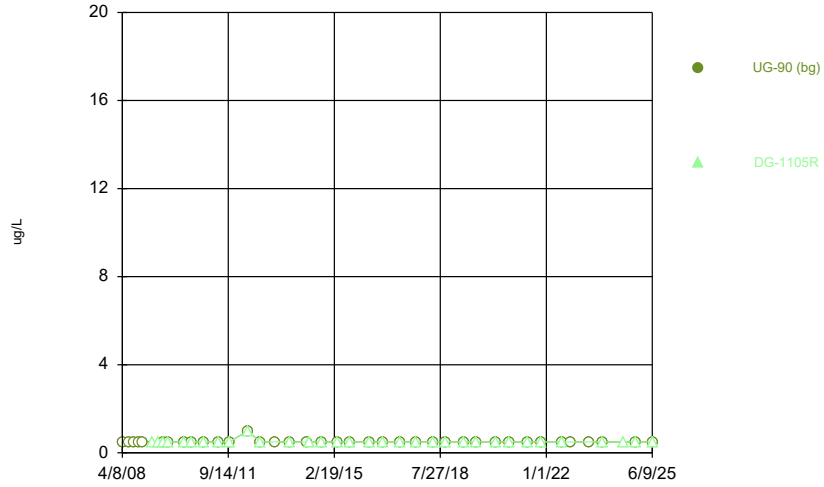
Time Series



Constituent: Trichloroethene Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

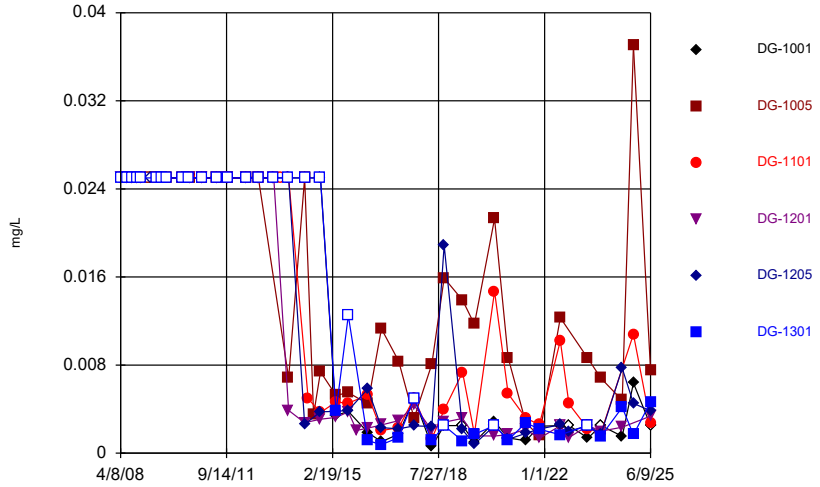
Time Series



Constituent: Trichloroethene Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Vanadium Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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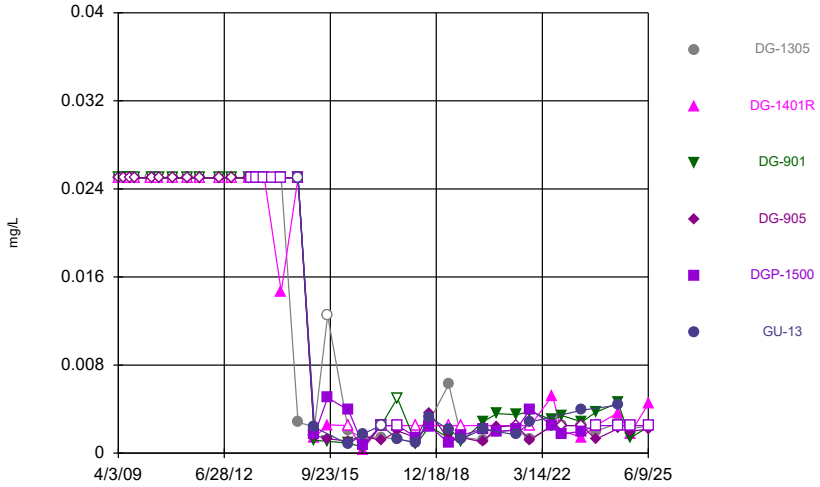
Hollow symbols indicate censored values.

Time Series



Constituent: Vanadium Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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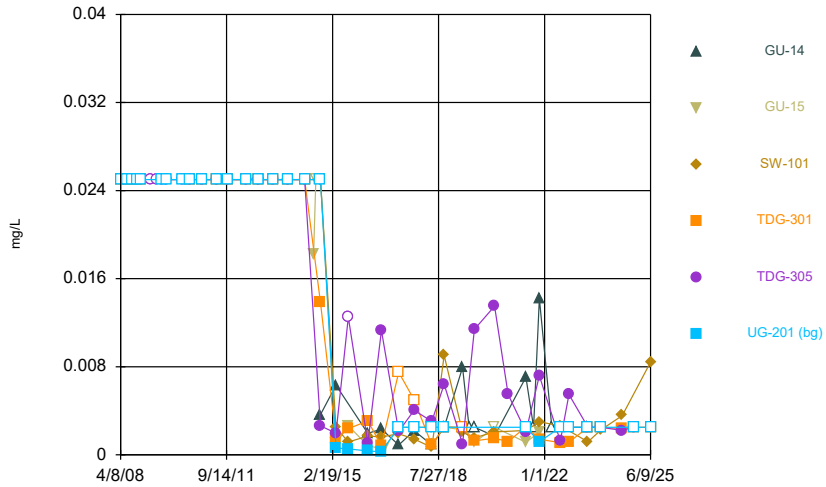
Hollow symbols indicate censored values.

Time Series



Constituent: Vanadium Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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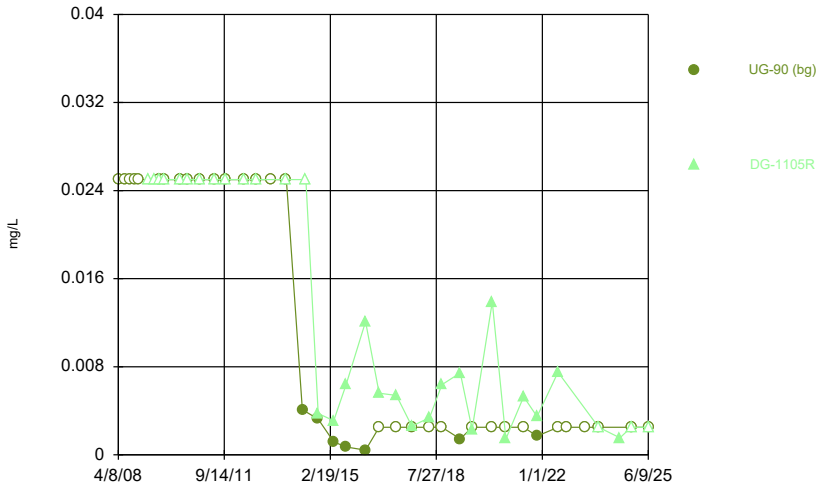
Time Series



Constituent: Vanadium Analysis Run 9/29/2025 11:10 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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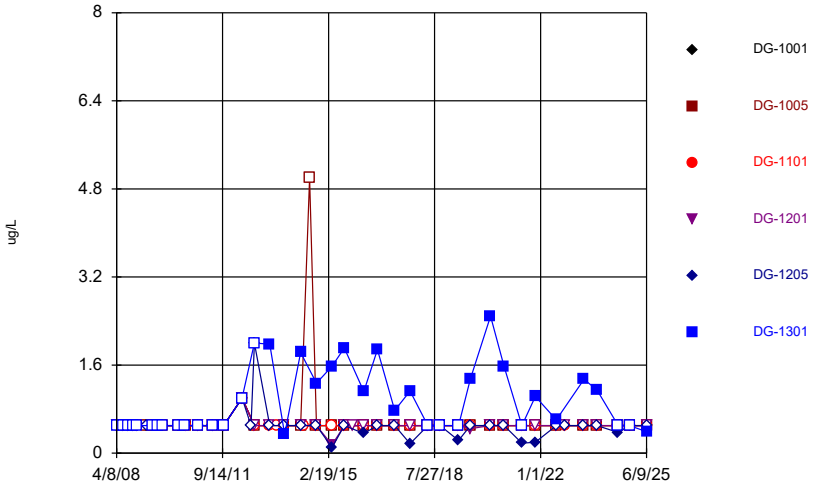
Time Series



Constituent: Vinyl chloride Analysis Run 9/29/2025 11:11 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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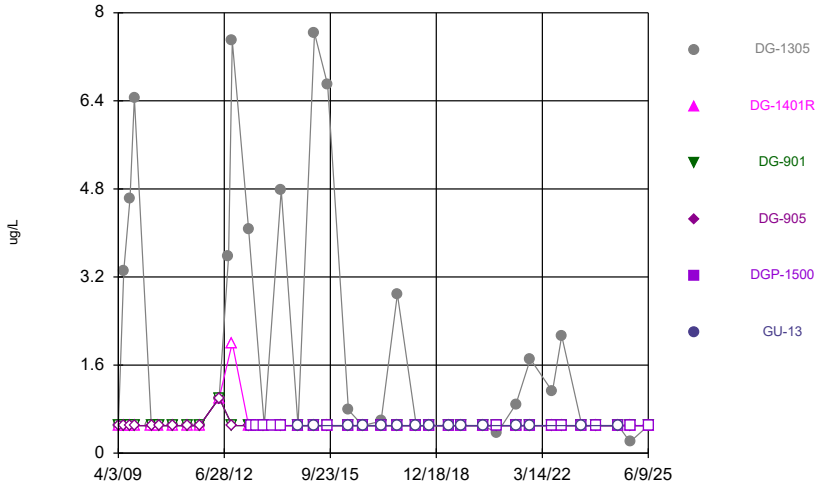
Hollow symbols indicate censored values.

Time Series



Constituent: Vinyl chloride Analysis Run 9/29/2025 11:11 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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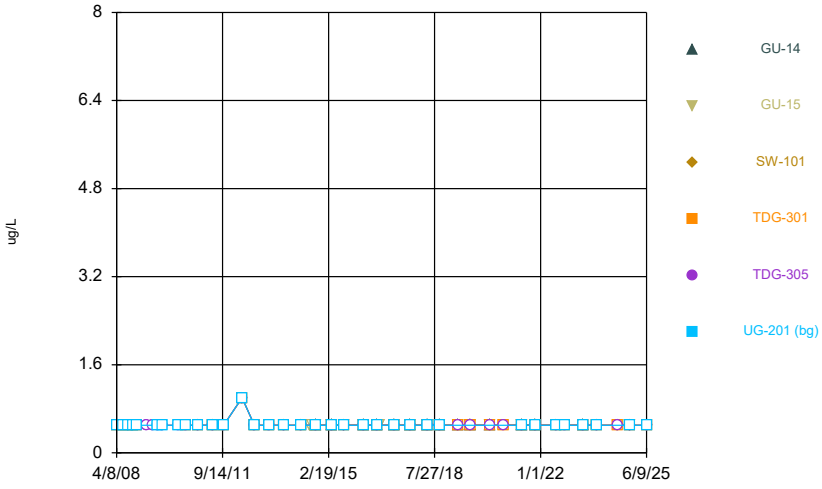
Hollow symbols indicate censored values.

Time Series



Constituent: Vinyl chloride Analysis Run 9/29/2025 11:11 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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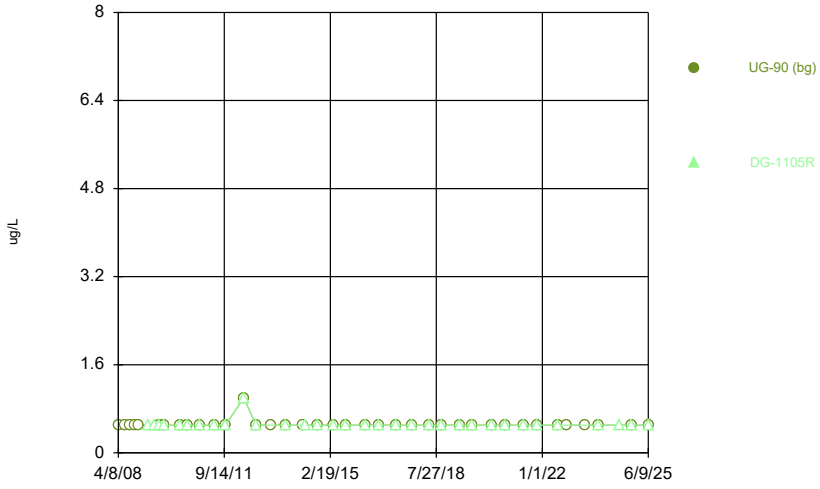
Time Series



Constituent: Vinyl chloride Analysis Run 9/29/2025 11:11 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
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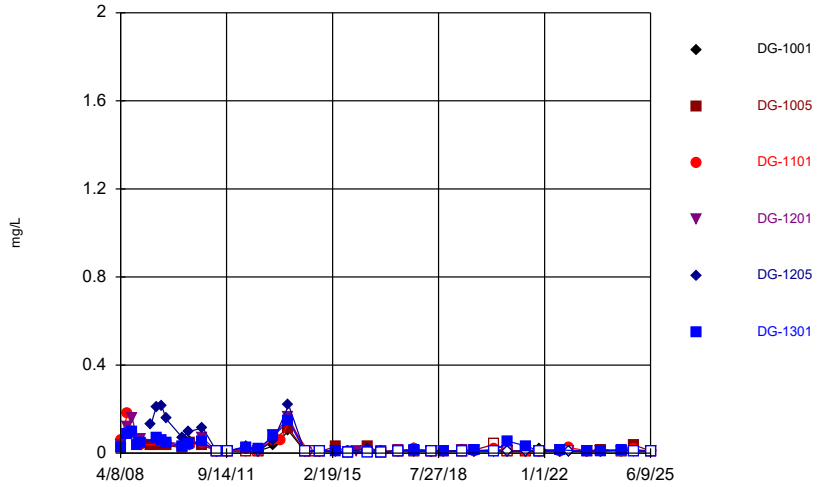
Time Series



Constituent: Zinc Analysis Run 9/29/2025 11:11 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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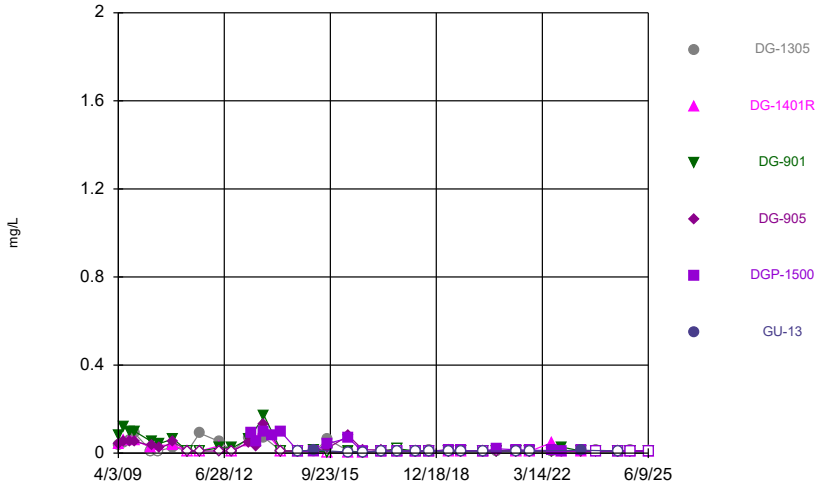
Time Series



Constituent: Zinc Analysis Run 9/29/2025 11:11 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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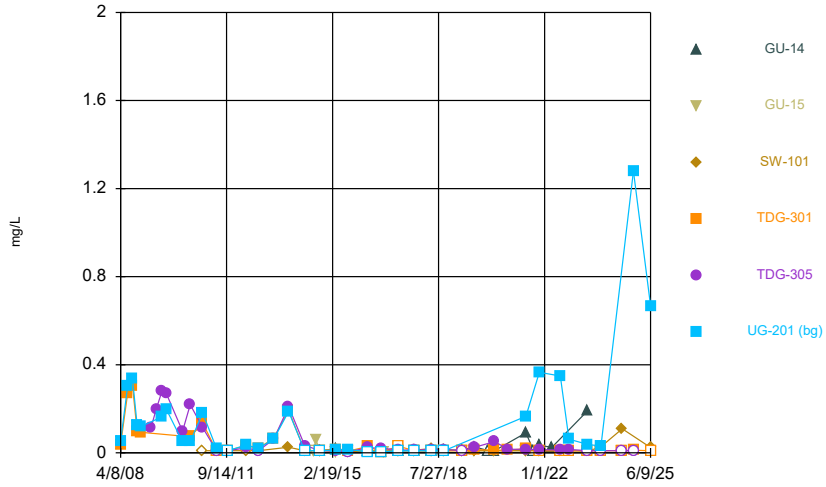
Time Series



Constituent: Zinc Analysis Run 9/29/2025 11:11 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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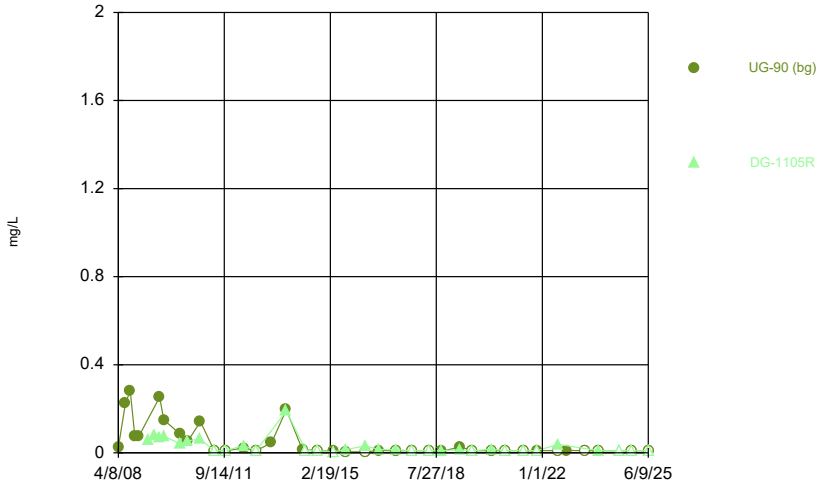
Time Series



Constituent: Zinc Analysis Run 9/29/2025 11:11 AM View: 2025_SSN-Time_Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Outlier Tests Summary Table and Graphs

Outlier Analysis

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master Printed 8/8/2025, 1:50 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (mg/L)	**UG-201,UG-90**	**Yes**	**0.0139,0.0133**	**n/a w/combined bg**	**OH**	**NaN**	**72**	**0.002556**	**0.002695**	**n/a**	**n/a**
Arsenic (mg/L)	**UG-201,UG-90**	**Yes**	**0.00555**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**72**	**0.001194**	**0.0008418**	**unknown**	**ShapiroFrancia**
Barium (mg/L)	**UG-201,UG-90**	**Yes**	**0.0733,0.0572,0.072,0.0579,0.136,0.059**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**72**	**0.0283**	**0.01906**	**unknown**	**ShapiroFrancia**
Beryllium (mg/L)	UG-201,UG-90	No	n/a	n/a w/combined bg	OH	NaN	72	0.000494	0.00005103	n/a	n/a
Cadmium (mg/L)	UG-201,UG-90	No	n/a	n/a w/combined bg	OH	NaN	72	0.0002175	0.0001017	n/a	n/a
Chromium (mg/L)	UG-201,UG-90	No	n/a	n/a w/combined bg	OH	NaN	72	0.005921	0.003805	n/a	n/a
Cobalt (mg/L)	UG-201,UG-90	No	n/a	n/a w/combined bg	EPA/OH	0.05	44	0.0006727	0.0009043	ln(x)	ShapiroWilk
Copper (mg/L)	**UG-201,UG-90**	**Yes**	**0.0423**	**n/a w/combined bg**	**OH**	**NaN**	**72**	**0.007211**	**0.006513**	**n/a**	**n/a**
Lead (mg/L)	UG-201,UG-90	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	72	0.001431	0.000897	unknown	ShapiroFrancia
Nickel (mg/L)	UG-201,UG-90	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	72	0.01384	0.012	unknown	ShapiroFrancia
Selenium (mg/L)	UG-201,UG-90	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	72	0.00305	0.001733	unknown	ShapiroFrancia
Silver (mg/L)	UG-201,UG-90	No	n/a	n/a w/combined bg	OH	NaN	72	0.005055	0.004738	n/a	n/a
Thallium (mg/L)	**UG-201,UG-90**	**Yes**	**0.0104**	**n/a w/combined bg**	**OH**	**NaN**	**72**	**0.0009204**	**0.001189**	**n/a**	**n/a**
Vanadium (mg/L)	UG-201,UG-90	No	n/a	n/a w/combined bg	OH	NaN	72	0.01293	0.01152	n/a	n/a
Zinc (mg/L)	**UG-201,UG-90**	**Yes**	**1.28,0.668**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**72**	**0.09547**	**0.1842**	**unknown**	**ShapiroFrancia**

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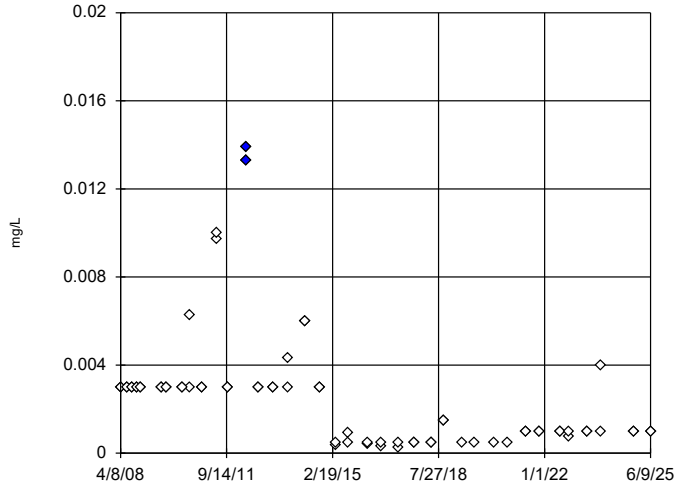
Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 72

Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Antimony Analysis Run 8/8/2025 1:37 PM View: 2025_SSN-BG_Outliers
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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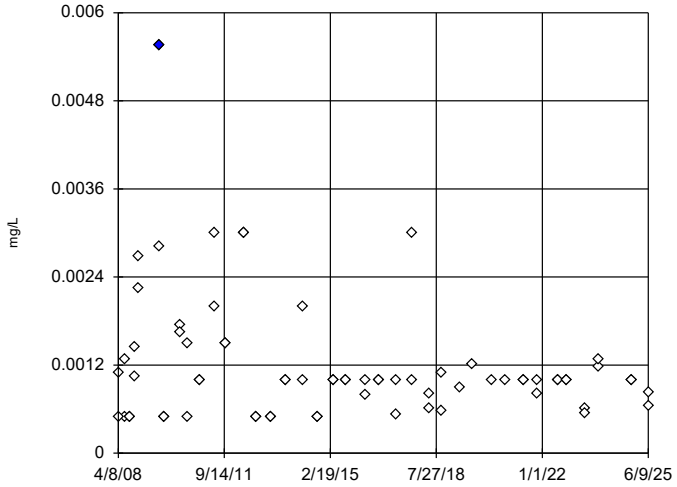
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 72

Outlier is drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

High cutoff = 0.003122, low cutoff = -0.001246, based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 8/8/2025 1:37 PM View: 2025_SSN-BG_Outliers
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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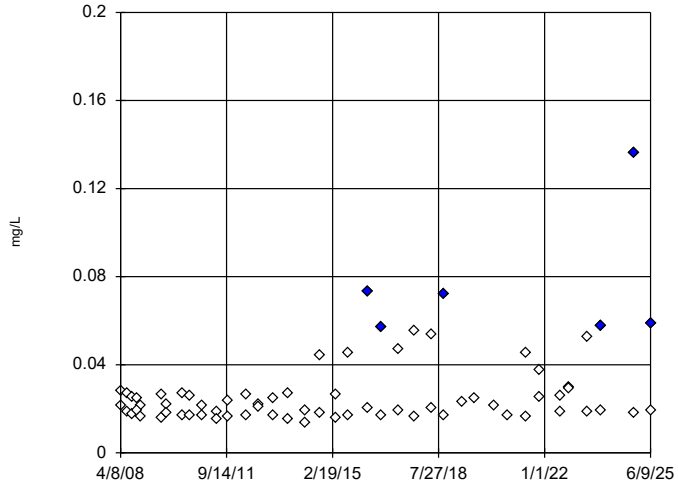
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 72

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

High cutoff = 0.056, low cutoff = -0.01138, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 8/8/2025 1:37 PM View: 2025_SSN-BG_Outliers
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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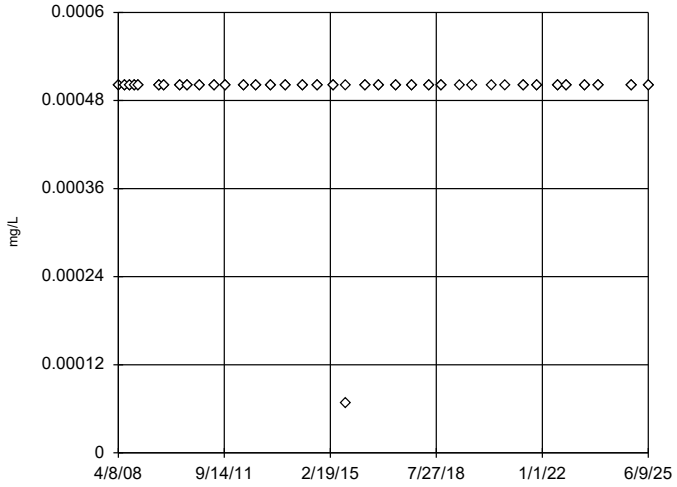
Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



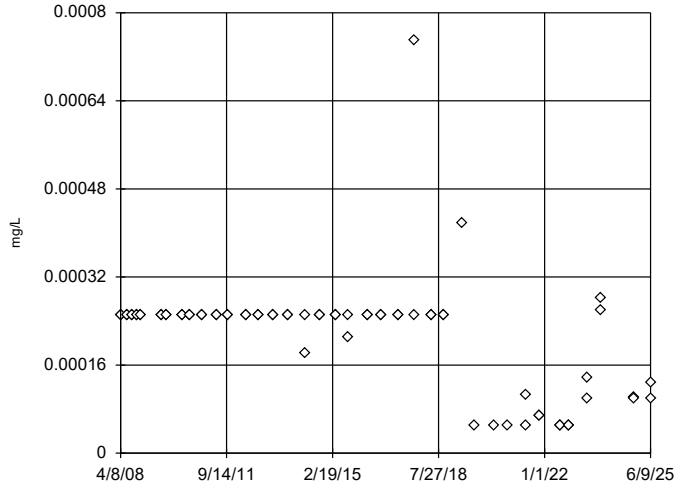
n = 72

No statistical outliers.

Constituent: Beryllium Analysis Run 8/8/2025 1:37 PM View: 2025_SSN-BG_Outliers
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 72

No statistical outliers.

Constituent: Cadmium Analysis Run 8/8/2025 1:37 PM View: 2025_SSN-BG_Outliers

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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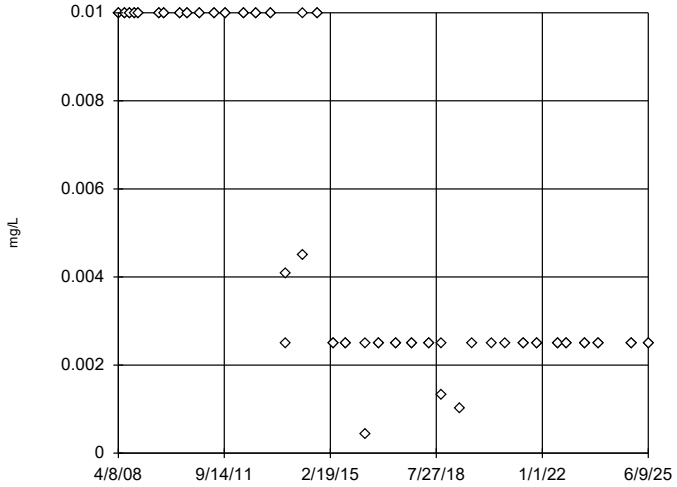
Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 72

No statistical outliers.

Constituent: Chromium Analysis Run 8/8/2025 1:37 PM View: 2025_SSN-BG_Outliers

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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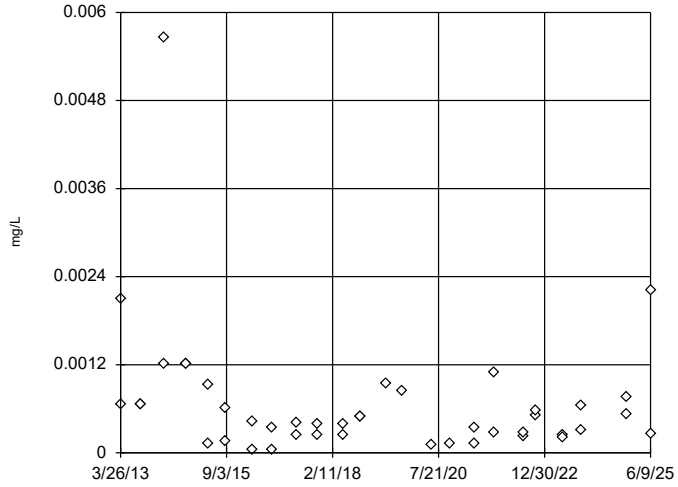
EPA Screening (suspected outliers for Rosner's Test)

UG-201,UG-90



n = 44

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.0006727, std. dev. 0.0009043, critical Tn 2.905

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.983
Critical = 0.924 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Cobalt Analysis Run 8/8/2025 1:37 PM View: 2025_SSN-BG_Outliers

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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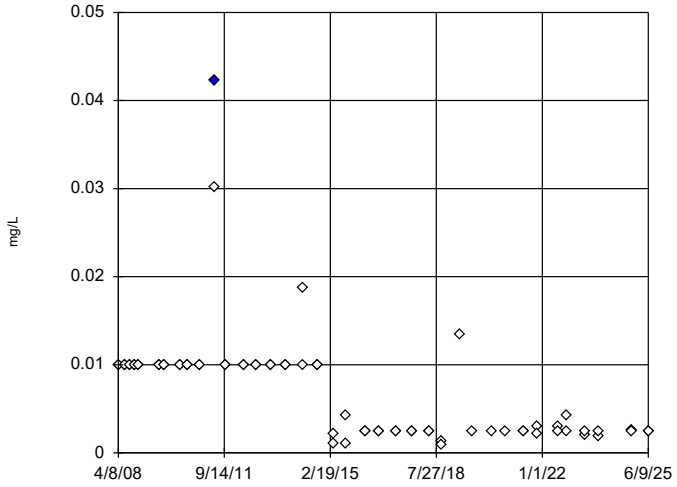
Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 72

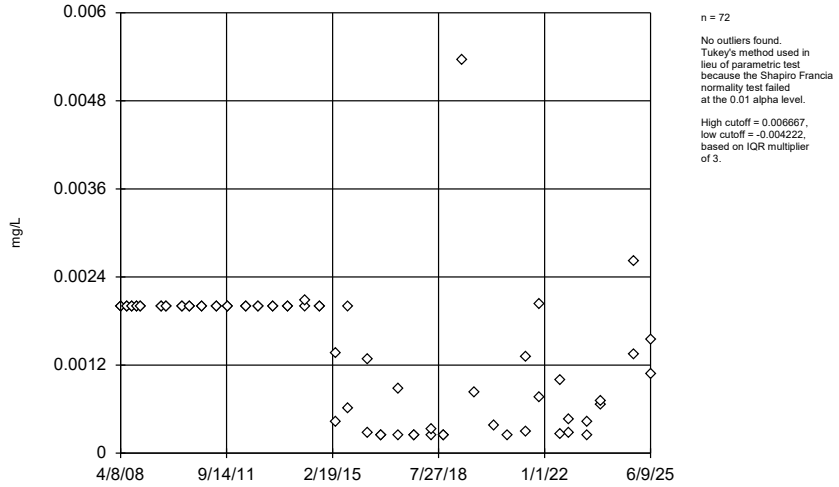
Statistical outlier is drawn as solid.
Outlier per Ohio method.

Constituent: Copper Analysis Run 8/8/2025 1:37 PM View: 2025_SSN-BG_Outliers

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 72

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

High cutoff = 0.006667, low cutoff = -0.004222, based on IQR multiplier of 3.

Constituent: Lead Analysis Run 8/8/2025 1:37 PM View: 2025_SSN-BG_Outliers
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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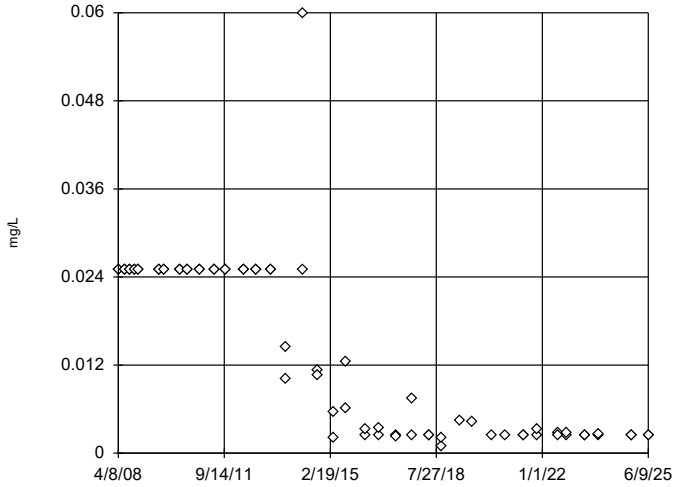
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 72

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

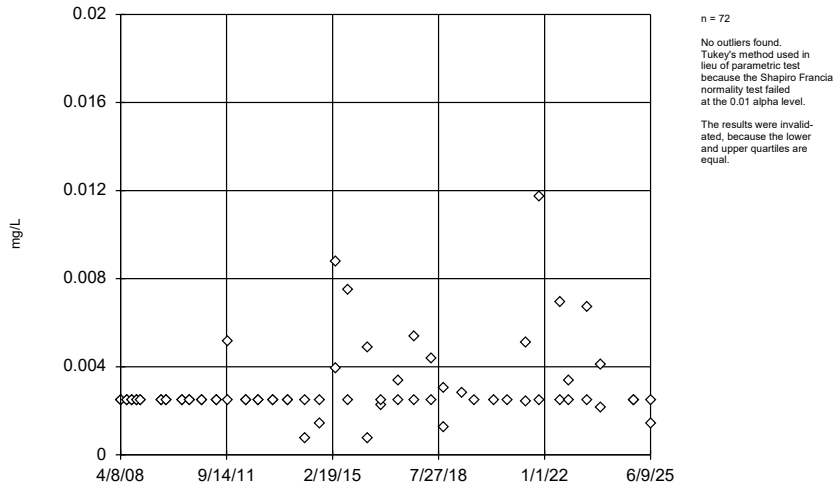
The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Nickel Analysis Run 8/8/2025 1:37 PM View: 2025_SSN-BG_Outliers
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 72

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

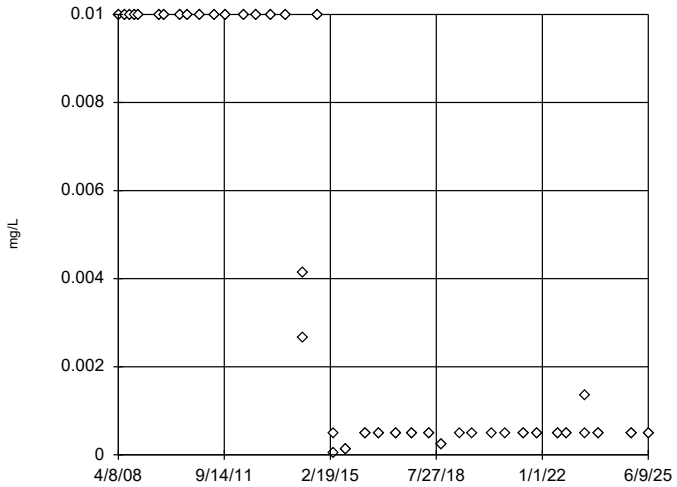
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 8/8/2025 1:37 PM View: 2025_SSN-BG_Outliers
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 72

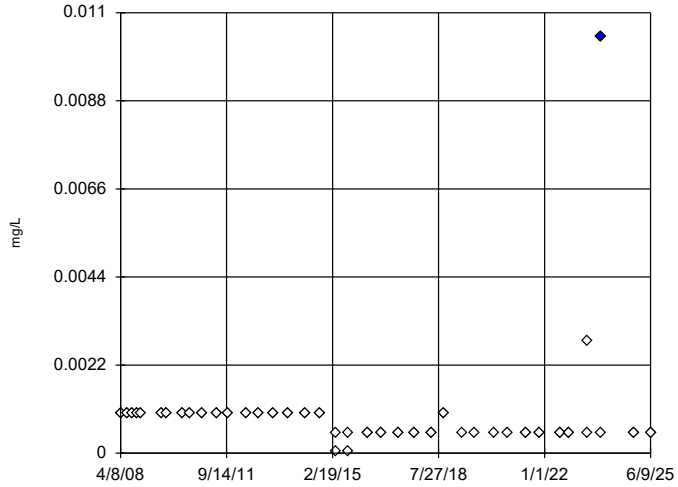
No statistical outliers.

Constituent: Silver Analysis Run 8/8/2025 1:37 PM View: 2025_SSN-BG_Outliers
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 72

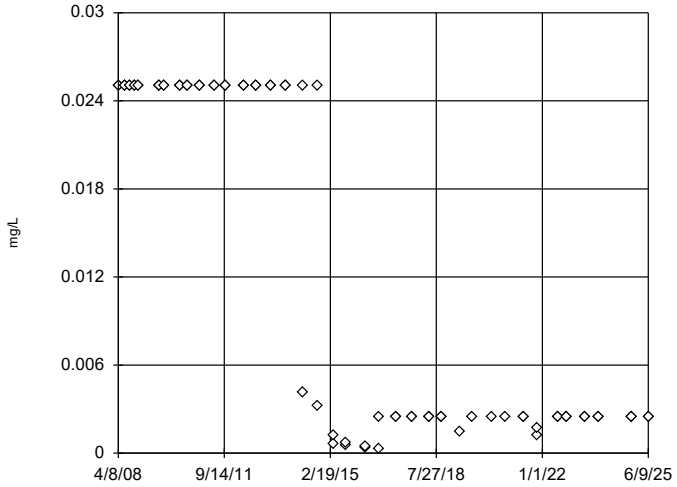
Statistical outlier is drawn as solid.
Outlier per Ohio method.

Constituent: Thallium Analysis Run 8/8/2025 1:37 PM View: 2025_SSN-BG_Outliers
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 72

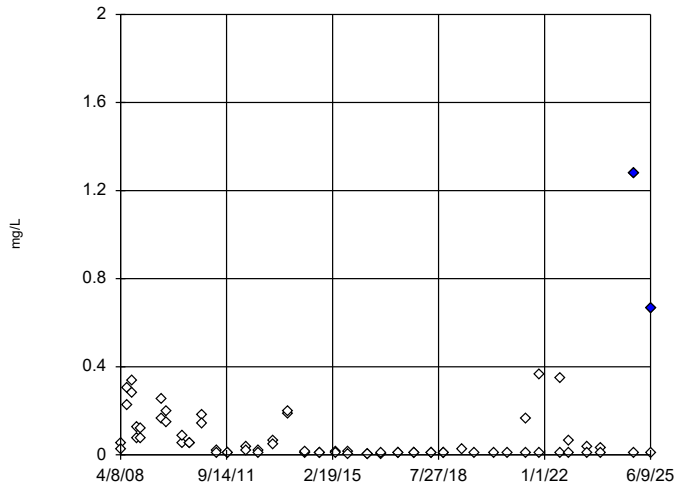
No statistical outliers.

Constituent: Vanadium Analysis Run 8/8/2025 1:37 PM View: 2025_SSN-BG_Outliers
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 72

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

High cutoff = 0.464, low cutoff = -0.3305, based on IQR multiplier of 3.

Constituent: Zinc Analysis Run 8/8/2025 1:37 PM View: 2025_SSN-BG_Outliers
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Interwell Prediction Limit Summary Table and Graphs

Prediction Limit

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master Printed 9/29/2025, 11:58 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	DG-1005	0.00555	n/a	6/9/2025	0.00219	No	72	UG-201,UG-90	n/a	n/a	65.28	n/a	n/a	0.00001497	NP Inter (NDs) 1 of 3
Arsenic (mg/L)	DG-1205	0.00555	n/a	6/9/2025	0.00348	No	72	UG-201,UG-90	n/a	n/a	65.28	n/a	n/a	0.00001497	NP Inter (NDs) 1 of 3
Arsenic (mg/L)	DG-901	0.00555	n/a	6/9/2025	0.00369	No	72	UG-201,UG-90	n/a	n/a	65.28	n/a	n/a	0.00001497	NP Inter (NDs) 1 of 3
Arsenic (mg/L)	**DGP-1500**	**0.00555**	**n/a**	**6/9/2025**	**0.018**	**Yes**	**72**	**UG-201,UG-90**	**n/a**	**n/a**	**65.28**	**n/a**	**n/a**	**0.00001497**	**NP Inter (NDs) 1 of 3**
Arsenic (mg/L)	DG-1105R	0.00555	n/a	6/9/2025	0.00407	No	72	UG-201,UG-90	n/a	n/a	65.28	n/a	n/a	0.00001497	NP Inter (NDs) 1 of 3
Barium (mg/L)	DG-1001	0.136	n/a	6/9/2025	0.0515	No	72	UG-90,UG-201	n/a	n/a	0	n/a	n/a	0.00001497	NP Inter (normality) 1 of 3
Barium (mg/L)	DG-1005	0.136	n/a	6/9/2025	0.041	No	72	UG-90,UG-201	n/a	n/a	0	n/a	n/a	0.00001497	NP Inter (normality) 1 of 3
Barium (mg/L)	DG-1101	0.136	n/a	6/9/2025	0.0409	No	72	UG-90,UG-201	n/a	n/a	0	n/a	n/a	0.00001497	NP Inter (normality) 1 of 3
Barium (mg/L)	DG-1201	0.136	n/a	6/9/2025	0.0251	No	72	UG-90,UG-201	n/a	n/a	0	n/a	n/a	0.00001497	NP Inter (normality) 1 of 3
Barium (mg/L)	DG-1205	0.136	n/a	6/9/2025	0.0112	No	72	UG-90,UG-201	n/a	n/a	0	n/a	n/a	0.00001497	NP Inter (normality) 1 of 3
Barium (mg/L)	DG-1301	0.136	n/a	6/9/2025	0.0486	No	72	UG-90,UG-201	n/a	n/a	0	n/a	n/a	0.00001497	NP Inter (normality) 1 of 3
Barium (mg/L)	DG-1305	0.136	n/a	6/9/2025	0.05915	No	72	UG-90,UG-201	n/a	n/a	0	n/a	n/a	0.00001497	NP Inter (normality) 1 of 3
Barium (mg/L)	DG-1401R	0.136	n/a	6/9/2025	0.047	No	72	UG-90,UG-201	n/a	n/a	0	n/a	n/a	0.00001497	NP Inter (normality) 1 of 3
Barium (mg/L)	DG-901	0.136	n/a	6/9/2025	0.0215	No	72	UG-90,UG-201	n/a	n/a	0	n/a	n/a	0.00001497	NP Inter (normality) 1 of 3
Barium (mg/L)	DG-905	0.136	n/a	6/9/2025	0.0526	No	72	UG-90,UG-201	n/a	n/a	0	n/a	n/a	0.00001497	NP Inter (normality) 1 of 3
Barium (mg/L)	DGP-1500	0.136	n/a	6/9/2025	0.0518	No	72	UG-90,UG-201	n/a	n/a	0	n/a	n/a	0.00001497	NP Inter (normality) 1 of 3
Barium (mg/L)	TDG-301	0.136	n/a	6/9/2025	0.0181	No	72	UG-90,UG-201	n/a	n/a	0	n/a	n/a	0.00001497	NP Inter (normality) 1 of 3
Barium (mg/L)	DG-1105R	0.136	n/a	6/9/2025	0.0232	No	72	UG-90,UG-201	n/a	n/a	0	n/a	n/a	0.00001497	NP Inter (normality) 1 of 3
Cobalt (mg/L)	DG-1005	0.00193	n/a	6/9/2025	0.00095	No	44	UG-201,UG-90	-7.96	0.9958	25	Kaplan-Meier	ln(x)	0.0001951	Param Inter 1 of 3
Cobalt (mg/L)	DG-1201	0.00193	n/a	6/9/2025	0.000723	No	44	UG-201,UG-90	-7.96	0.9958	25	Kaplan-Meier	ln(x)	0.0001951	Param Inter 1 of 3
Cobalt (mg/L)	DG-1301	0.00193	n/a	6/9/2025	0.000596	No	44	UG-201,UG-90	-7.96	0.9958	25	Kaplan-Meier	ln(x)	0.0001951	Param Inter 1 of 3
Cobalt (mg/L)	DG-1305	0.00193	n/a	6/9/2025	0.0004785	No	44	UG-201,UG-90	-7.96	0.9958	25	Kaplan-Meier	ln(x)	0.0001951	Param Inter 1 of 3
Cobalt (mg/L)	DG-1401R	0.00193	n/a	6/9/2025	0.000681	No	44	UG-201,UG-90	-7.96	0.9958	25	Kaplan-Meier	ln(x)	0.0001951	Param Inter 1 of 3
Cobalt (mg/L)	DG-901	0.00193	n/a	6/9/2025	0.000518	No	44	UG-201,UG-90	-7.96	0.9958	25	Kaplan-Meier	ln(x)	0.0001951	Param Inter 1 of 3
Cobalt (mg/L)	DG-905	0.00193	n/a	6/9/2025	0.0003845	No	44	UG-201,UG-90	-7.96	0.9958	25	Kaplan-Meier	ln(x)	0.0001951	Param Inter 1 of 3
Cobalt (mg/L)	TDG-301	0.00193	n/a	6/9/2025	0.00132	No	44	UG-201,UG-90	-7.96	0.9958	25	Kaplan-Meier	ln(x)	0.0001951	Param Inter 1 of 3
Lead (mg/L)	DG-1101	0.00535	n/a	6/9/2025	0.00109	No	72	UG-201,UG-90	n/a	n/a	62.5	n/a	n/a	0.00001497	NP Inter (NDs) 1 of 3
Lead (mg/L)	DG-1201	0.00535	n/a	6/9/2025	0.000885	No	72	UG-201,UG-90	n/a	n/a	62.5	n/a	n/a	0.00001497	NP Inter (NDs) 1 of 3
Lead (mg/L)	DG-1301	0.00535	n/a	6/9/2025	0.000749	No	72	UG-201,UG-90	n/a	n/a	62.5	n/a	n/a	0.00001497	NP Inter (NDs) 1 of 3
Vanadium (mg/L)	DG-1005	0.025	n/a	6/9/2025	0.00751	No	72	UG-201,UG-90	n/a	n/a	83.33	n/a	n/a	0.00001497	NP Inter (NDs) 1 of 3

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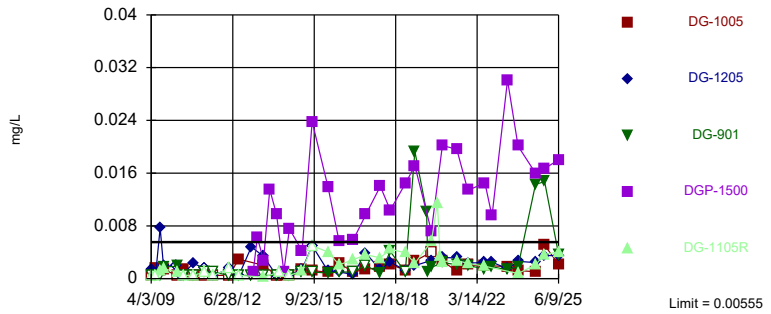
Hollow symbols indicate censored values.

Exceeds Limit: DGP-1500

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 72 background values. 65.28% NDs. Annual per-constituent alpha = 0.0005388. Individual comparison alpha = 0.00001497 (1 of 3). Comparing 5 points to limit. Assumes 13 future values.

Constituent: Arsenic Analysis Run 9/29/2025 11:54 AM View: 2025_SSN-AM_Interwell_PL
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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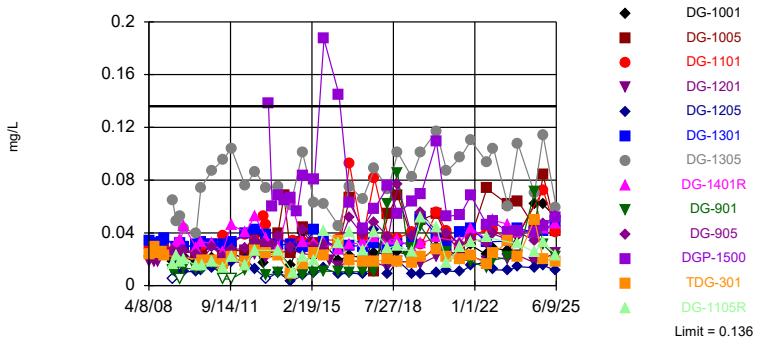
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 72 background values. Annual per-constituent alpha = 0.0005388. Individual comparison alpha = 0.00001497 (1 of 3). Comparing 13 points to limit. Assumes 5 future values.

Constituent: Barium Analysis Run 9/29/2025 11:54 AM View: 2025_SSN-AM_Interwell_PL
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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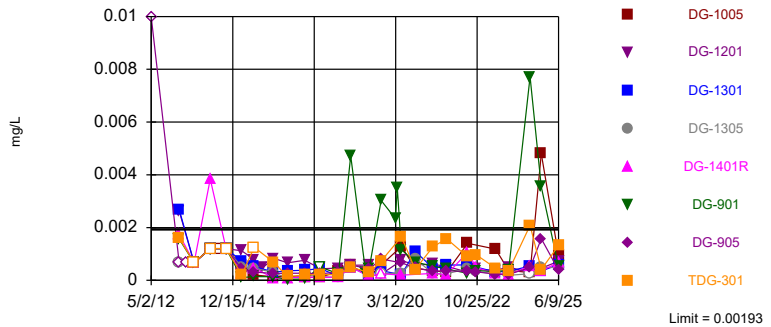
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-7.96, Std. Dev.=0.9958, n=44, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.983, critical = 0.924. Kappa = 1.717 (c=15, w=18, 1 of 3, event alpha = 0.05132). Report alpha = 0.003506. Individual comparison alpha = 0.0001951. Comparing 8 points to limit. Assumes 10 future values.

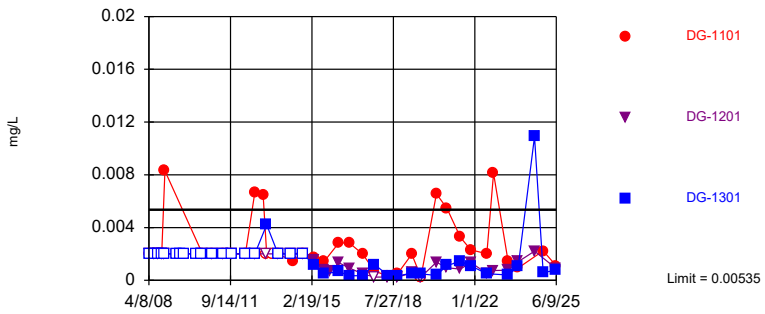
Constituent: Cobalt Analysis Run 9/29/2025 11:54 AM View: 2025_SSN-AM_Interwell_PL
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 72 background values. 62.5% NDs. Annual per-constituent alpha = 0.0005388. Individual comparison alpha = 0.00001497 (1 of 3). Comparing 3 points to limit. Assumes 15 future values.

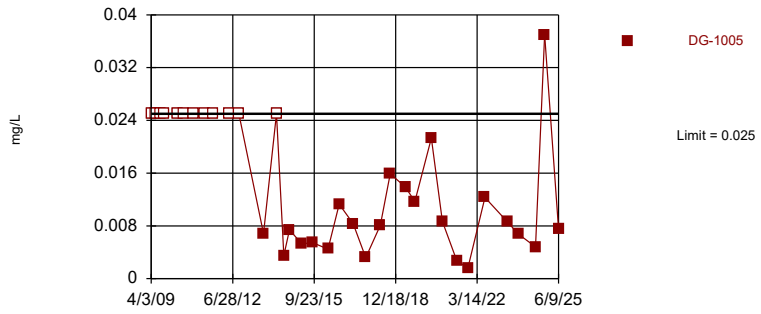
Constituent: Lead Analysis Run 9/29/2025 11:54 AM View: 2025_SSN-AM_Interwell_PL
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.00 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 72 background values. 83.33% NDs. Annual per-constituent alpha = 0.0005388. Individual comparison alpha = 0.00001497 (1 of 3). Assumes 17 future values.

Constituent: Vanadium Analysis Run 9/29/2025 11:54 AM View: 2025_SSN-AM_Interwell_PL

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Mann-Kendall/Sen's Slope Trend Test Summary Table and Graphs

Trend Test

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM Printed 8/11/2025, 1:50 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
1,1-Dichloroethane (ug/L)	DG-1205	0.2695	16	21	No	8	0	0.01	NP
1,1-Dichloroethane (ug/L)	DG-1301	1.113	6	21	No	8	0	0.01	NP
1,1-Dichloroethane (ug/L)	DG-1305	-1.598	-14	-21	No	8	0	0.01	NP
1,1-Dichloroethane (ug/L)	DG-1401R	0.04199	2	21	No	8	0	0.01	NP
1,2-Dichloropropane (ug/L)	DG-1205	0.06219	8	21	No	8	0	0.01	NP
1,2-Dichloropropane (ug/L)	DG-1301	0.08511	9	21	No	8	25	0.01	NP
1,2-Dichloropropane (ug/L)	DG-1305	0.003052	5	21	No	8	37.5	0.01	NP
1,4-Dichlorobenzene (ug/L)	DG-1305	-0.08759	-9	-21	No	8	25	0.01	NP
Acetone (ug/L)	DG-901	0	3	21	No	8	87.5	0.01	NP
Arsenic (mg/L)	DG-901	0.001125	12	21	No	8	0	0.01	NP
Arsenic (mg/L)	DG-1005	0.0000499	4	21	No	8	0	0.01	NP
Arsenic (mg/L)	DG-1101	-0.00003661	-4	-21	No	8	12.5	0.01	NP
Arsenic (mg/L)	DG-1205	0.0002703	14	21	No	8	0	0.01	NP
Arsenic (mg/L)	DG-1305	-0.0006858	-16	-21	No	8	0	0.01	NP
Arsenic (mg/L)	DGP-1500	0.001235	10	21	No	8	0	0.01	NP
Barium (mg/L)	DG-901	0.003069	16	21	No	8	0	0.01	NP
Barium (mg/L)	DG-905	0.004103	14	21	No	8	0	0.01	NP
Barium (mg/L)	DG-1005	0.004816	8	21	No	8	0	0.01	NP
Barium (mg/L)	DG-1101	0.002875	10	21	No	8	0	0.01	NP
Barium (mg/L)	DG-1201	-0.0001448	-2	-21	No	8	0	0.01	NP
Barium (mg/L)	DG-1205	-0.0006035	-8	-21	No	8	0	0.01	NP
Barium (mg/L)	DG-1301	0.001687	9	21	No	8	0	0.01	NP
Barium (mg/L)	DG-1305	-0.009021	-6	-21	No	8	0	0.01	NP
Barium (mg/L)	DG-1401R	0.0008922	4	21	No	8	0	0.01	NP
Barium (mg/L)	DGP-1500	-0.001561	-6	-21	No	8	0	0.01	NP
Benzene (ug/L)	DG-901	0	3	21	No	8	87.5	0.01	NP
Benzene (ug/L)	DGP-1500	0.3604	17	21	No	8	37.5	0.01	NP
Bis[2-ethylhexyl]phthalate (ug/L)	DG-1301	-0.3257	-5	-21	No	8	62.5	0.01	NP
Bis[2-ethylhexyl]phthalate (ug/L)	DGP-1500	0.1743	12	21	No	8	62.5	0.01	NP
Cadmium (mg/L)	DG-901	0.00001755	10	21	No	8	62.5	0.01	NP
Cadmium (mg/L)	DG-1005	0.0000173	14	21	No	8	62.5	0.01	NP
Cadmium (mg/L)	DG-1101	0.00001366	13	21	No	8	62.5	0.01	NP
Cadmium (mg/L)	DG-1201	0	5	21	No	8	87.5	0.01	NP
Cadmium (mg/L)	DG-1301	0	3	21	No	8	87.5	0.01	NP
Cadmium (mg/L)	DG-1401R	0	8	21	No	8	75	0.01	NP
Chlorobenzene (ug/L)	DG-1305	-1.269	-10	-21	No	8	12.5	0.01	NP
Chloromethane (ug/L)	DG-1205	0	-5	-21	No	8	87.5	0.01	NP
Chromium (mg/L)	DG-1005	0	0	21	No	8	50	0.01	NP
Chromium (mg/L)	DG-1101	0.0001507	8	21	No	8	50	0.01	NP
cis-1,2-Dichloroethene (ug/L)	DG-1301	5.266	8	21	No	8	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	DG-1305	-0.7675	-12	-21	No	8	0	0.01	NP
Cobalt (mg/L)	DG-901	0.00008925	12	21	No	8	0	0.01	NP
Cobalt (mg/L)	DG-905	0.0000202	4	21	No	8	0	0.01	NP
Cobalt (mg/L)	DG-1005	0.00008999	4	21	No	8	0	0.01	NP
Cobalt (mg/L)	DG-1101	-0.00002642	-2	-21	No	8	0	0.01	NP
Cobalt (mg/L)	DG-1201	-0.00002902	-4	-21	No	8	0	0.01	NP
Cobalt (mg/L)	DG-1205	0.00001291	2	21	No	8	0	0.01	NP
Cobalt (mg/L)	DG-1301	0.000006329	4	21	No	8	0	0.01	NP
Cobalt (mg/L)	DG-1305	0.00001854	5	21	No	8	37.5	0.01	NP
Cobalt (mg/L)	DG-1401R	0.00004084	4	21	No	8	0	0.01	NP

Trend Test

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM Printed 8/11/2025, 1:50 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Cobalt (mg/L)	DGP-1500	-0.0002527	-21	-21	No	8	37.5	0.01	NP
Copper (mg/L)	DG-901	0.00007411	2	21	No	8	12.5	0.01	NP
Copper (mg/L)	DG-1005	0.0002	5	21	No	8	37.5	0.01	NP
Copper (mg/L)	DG-1101	-0.00001322	-1	-21	No	8	25	0.01	NP
Copper (mg/L)	DG-1205	0.0001127	10	21	No	8	62.5	0.01	NP
Copper (mg/L)	DG-1301	0.0002615	2	21	No	8	0	0.01	NP
Copper (mg/L)	DG-1401R	-0.001371	-18	-21	No	8	12.5	0.01	NP
Copper (mg/L)	DGP-1500	-0.0007269	-11	-21	No	8	37.5	0.01	NP
Dichlorodifluoromethane (ug/L)	DG-1205	0.2734	4	21	No	8	0	0.01	NP
Lead (mg/L)	DG-901	-0.00001013	0	21	No	8	12.5	0.01	NP
Lead (mg/L)	DG-905	0	0	21	No	8	50	0.01	NP
Lead (mg/L)	DG-1005	0.000184	4	21	No	8	0	0.01	NP
Lead (mg/L)	DG-1101	-0.0005444	-14	-21	No	8	0	0.01	NP
Lead (mg/L)	DG-1201	0.00009086	10	21	No	8	0	0.01	NP
Lead (mg/L)	DG-1205	-9.4e-7	0	21	No	8	12.5	0.01	NP
Lead (mg/L)	DG-1301	-0.0001013	-4	-21	No	8	0	0.01	NP
Lead (mg/L)	DG-1305	0.00005624	2	21	No	8	12.5	0.01	NP
Lead (mg/L)	DG-1401R	-0.0001629	-14	-21	No	8	0	0.01	NP
Lead (mg/L)	DGP-1500	-0.0004114	-19	-21	No	8	37.5	0.01	NP
Nickel (mg/L)	DG-901	0.000002392	3	21	No	8	37.5	0.01	NP
Nickel (mg/L)	DG-1005	0.0001207	5	21	No	8	37.5	0.01	NP
Nickel (mg/L)	DG-1101	0.00009022	8	21	No	8	25	0.01	NP
Nickel (mg/L)	DG-1205	-0.0001145	-6	-21	No	8	12.5	0.01	NP
Nickel (mg/L)	DG-1301	-0.002464	-16	-21	No	8	12.5	0.01	NP
Nickel (mg/L)	DG-1401R	-0.0001834	-11	-21	No	8	25	0.01	NP
Selenium (mg/L)	DG-1005	0	0	21	No	8	50	0.01	NP
Selenium (mg/L)	DGP-1500	-0.006733	-21	-21	No	8	25	0.01	NP
Silver (mg/L)	DG-901	0	-1	-21	No	8	87.5	0.01	NP
Sulfide (mg/L)	DGP-1500	0.2402	3	8	No	4	75	0.01	NP
Tetrachloroethene (ug/L)	DG-1301	0.02214	2	21	No	8	0	0.01	NP
Thallium (mg/L)	DG-901	0	-1	-21	No	8	87.5	0.01	NP
Thallium (mg/L)	DG-1201	0	-7	-21	No	8	87.5	0.01	NP
Toluene (ug/L)	DGP-1500	0	-1	-21	No	8	75	0.01	NP
trans-1,2-Dichloroethene (ug/L)	DG-1301	0.1302	9	21	No	8	25	0.01	NP
Trichloroethene (ug/L)	DG-1301	-0.1217	-2	-21	No	8	0	0.01	NP
Vanadium (mg/L)	DG-1005	0.001421	8	21	No	8	0	0.01	NP
Vanadium (mg/L)	DG-1101	-0.0001748	-2	-21	No	8	0	0.01	NP
Vanadium (mg/L)	DG-1205	0.0006108	8	21	No	8	12.5	0.01	NP
Vanadium (mg/L)	DG-1401R	0.0001119	1	21	No	8	25	0.01	NP
Vinyl chloride (ug/L)	DG-1301	-0.06331	-9	-21	No	8	37.5	0.01	NP
Vinyl chloride (ug/L)	DG-1305	-0.3604	-16	-21	No	8	50	0.01	NP
Zinc (mg/L)	DG-901	0	0	21	No	8	62.5	0.01	NP
Zinc (mg/L)	DG-1005	0	4	21	No	8	50	0.01	NP
Zinc (mg/L)	DG-1101	0	3	21	No	8	75	0.01	NP
Zinc (mg/L)	DG-1301	-0.001356	-5	-21	No	8	37.5	0.01	NP
Zinc (mg/L)	DG-1401R	0	-5	-21	No	8	75	0.01	NP

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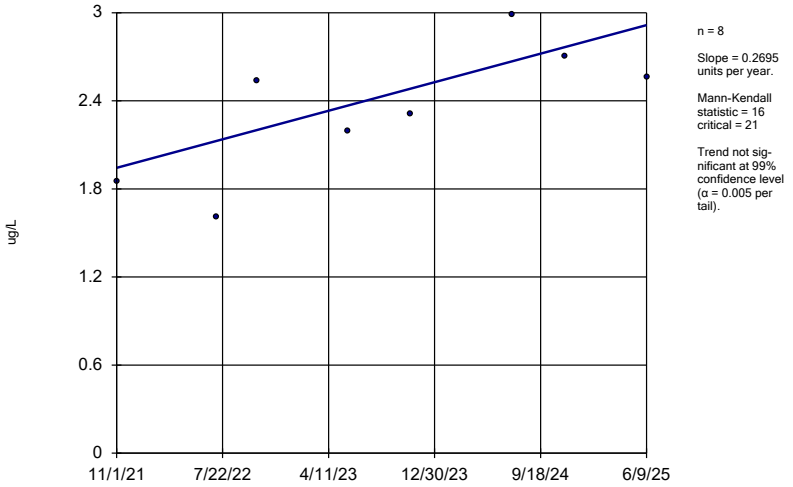
Sen's Slope Estimator

DG-1205



n = 8

Slope = 0.2695 units per year.

Mann-Kendall statistic = 16 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: 1,1-Dichloroethane Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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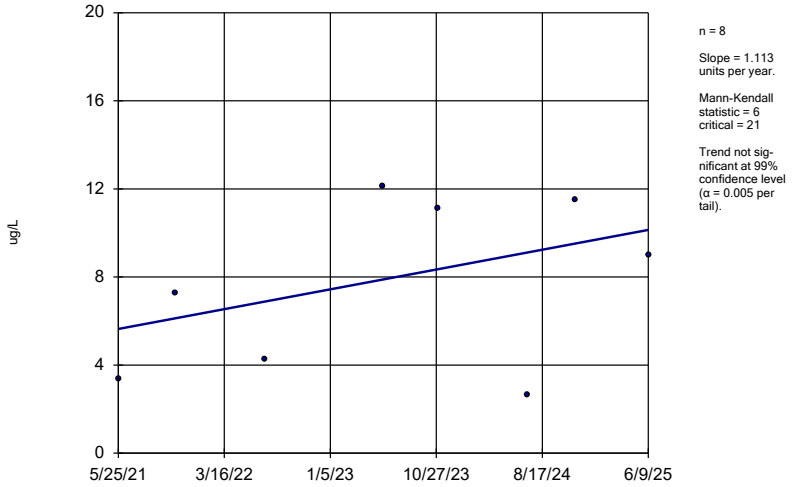
Sen's Slope Estimator

DG-1301



n = 8

Slope = 1.113 units per year.

Mann-Kendall statistic = 6 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: 1,1-Dichloroethane Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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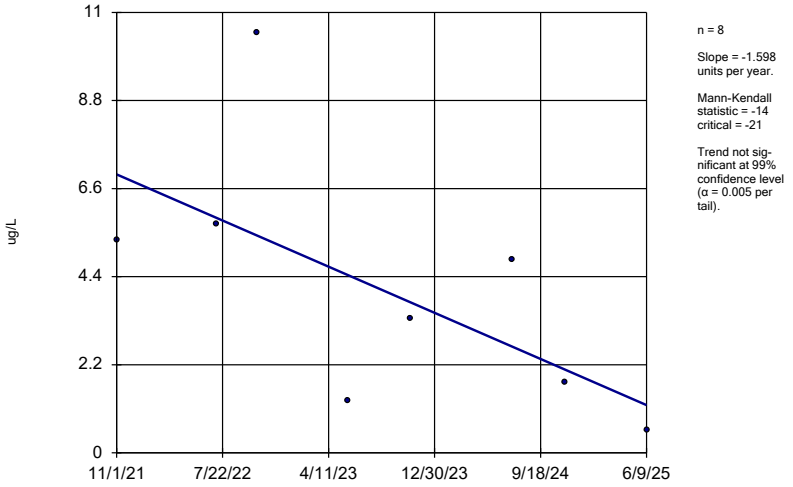
Sen's Slope Estimator

DG-1305



n = 8

Slope = -1.598 units per year.

Mann-Kendall statistic = -14 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: 1,1-Dichloroethane Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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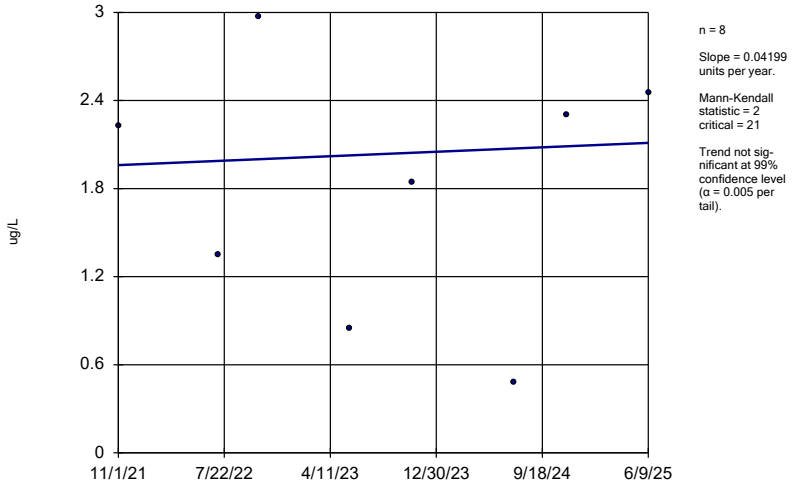
Sen's Slope Estimator

DG-1401R



n = 8

Slope = 0.04199 units per year.

Mann-Kendall statistic = 2 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: 1,1-Dichloroethane Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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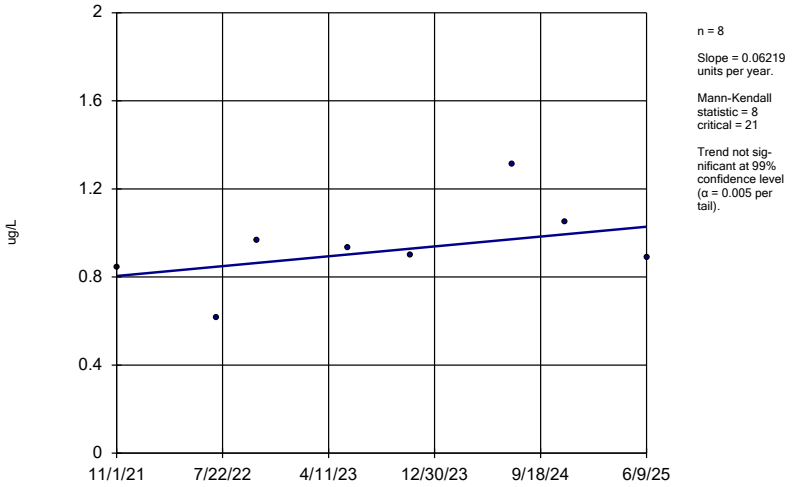
Sen's Slope Estimator

DG-1205



n = 8

Slope = 0.06219 units per year.

Mann-Kendall statistic = 8
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: 1,2-Dichloropropane Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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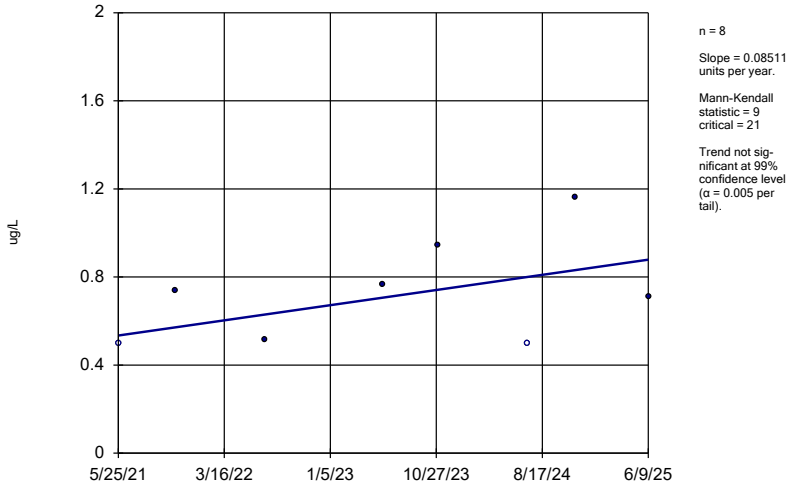
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1301



n = 8

Slope = 0.08511 units per year.

Mann-Kendall statistic = 9
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: 1,2-Dichloropropane Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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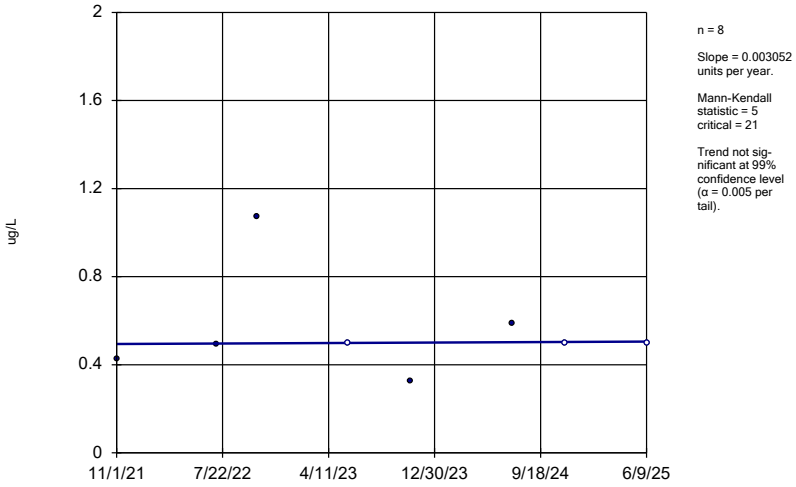
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1305



n = 8

Slope = 0.003052 units per year.

Mann-Kendall statistic = 5
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: 1,2-Dichloropropane Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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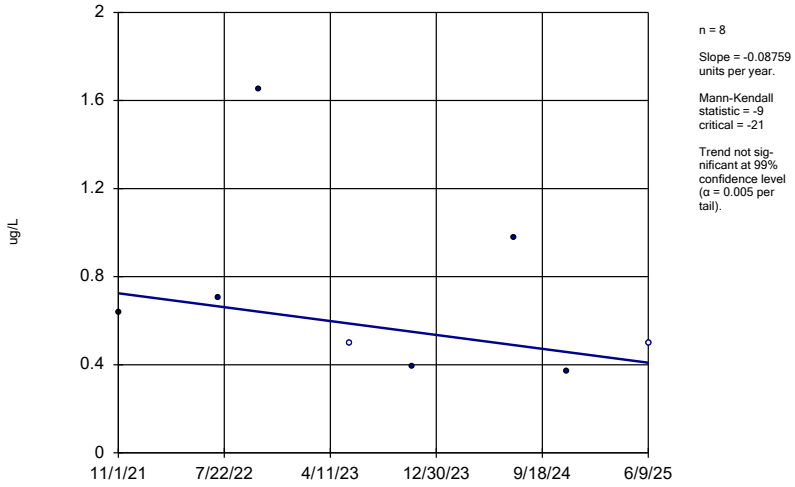
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1305



n = 8

Slope = -0.08759 units per year.

Mann-Kendall statistic = -9
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: 1,4-Dichlorobenzene Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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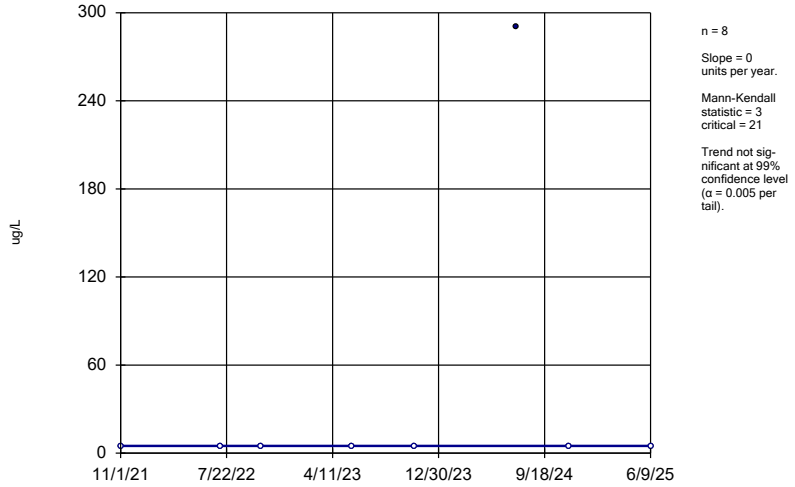
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-901



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 3 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Acetone Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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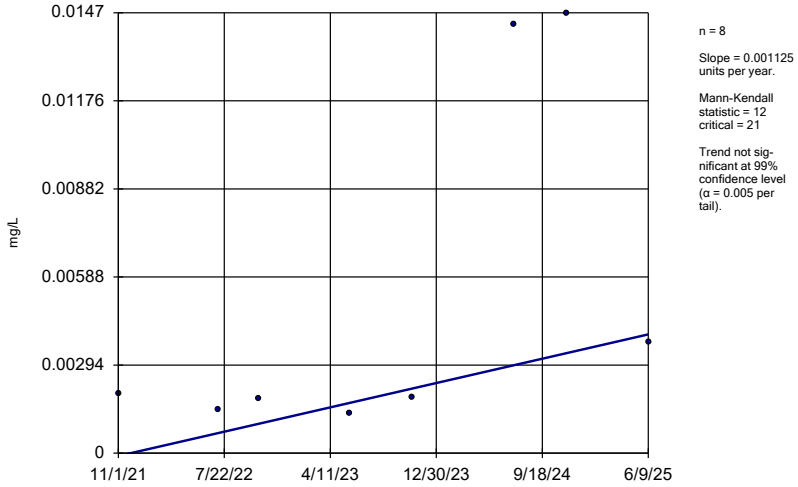
Sen's Slope Estimator

DG-901



n = 8

Slope = 0.001125 units per year.

Mann-Kendall statistic = 12 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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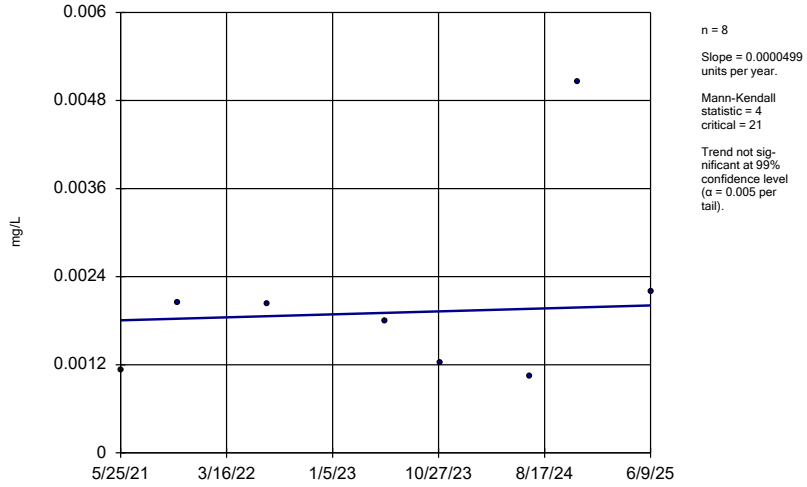
Sen's Slope Estimator

DG-1005



n = 8

Slope = 0.0000499 units per year.

Mann-Kendall statistic = 4 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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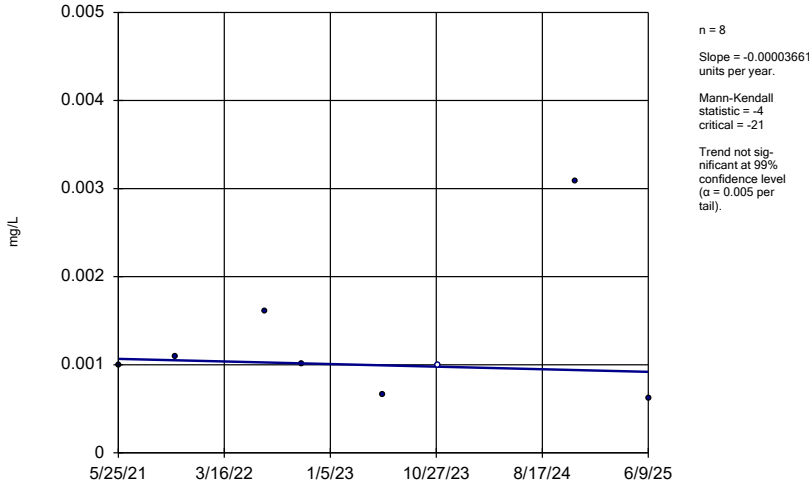
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1101



n = 8

Slope = -0.00003661 units per year.

Mann-Kendall statistic = -4 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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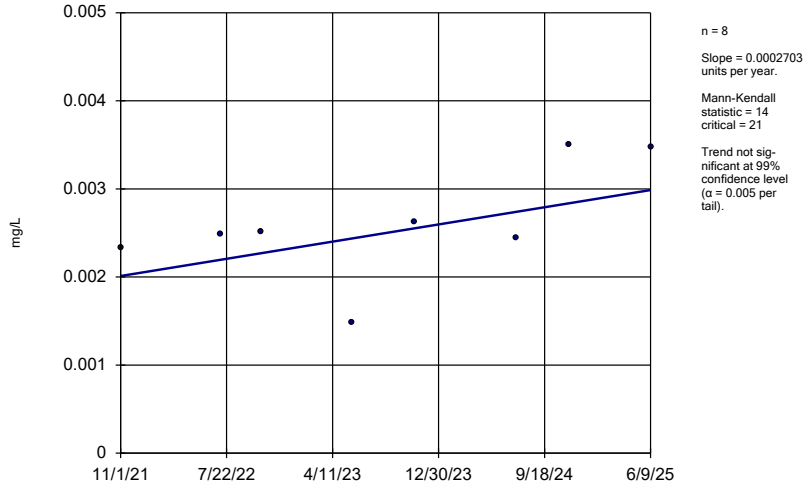
Sen's Slope Estimator

DG-1205



n = 8

Slope = 0.0002703 units per year.

Mann-Kendall statistic = 14 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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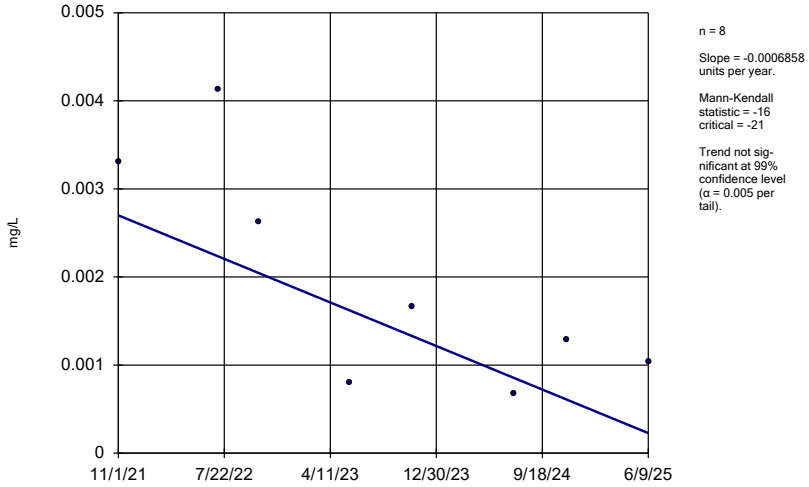
Sen's Slope Estimator

DG-1305



n = 8

Slope = -0.0006858 units per year.

Mann-Kendall statistic = -16 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

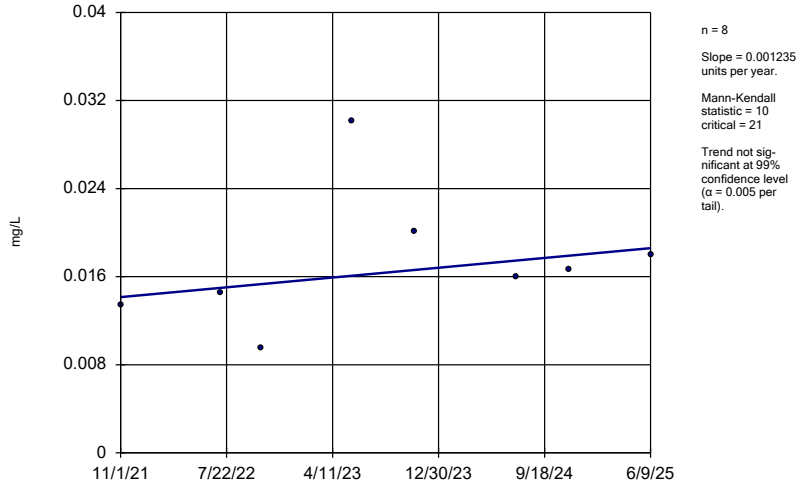
Constituent: Arsenic Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DGP-1500



n = 8

Slope = 0.001235 units per year.

Mann-Kendall statistic = 10 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

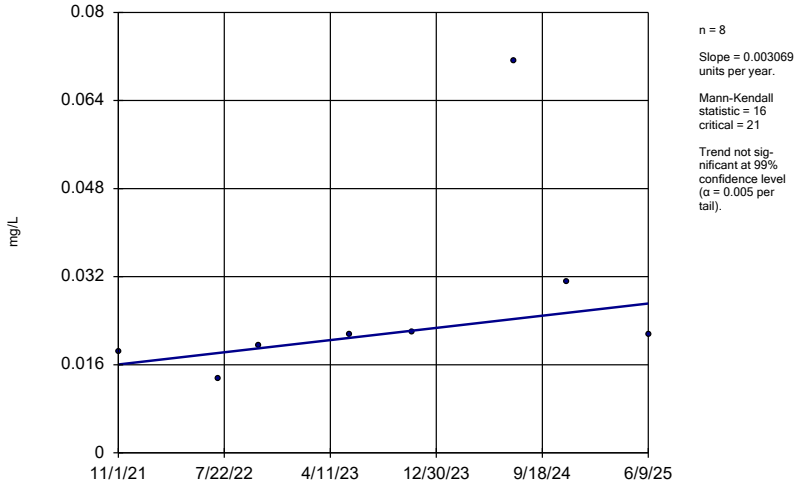
Constituent: Arsenic Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-901



n = 8

Slope = 0.003069 units per year.

Mann-Kendall statistic = 16 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

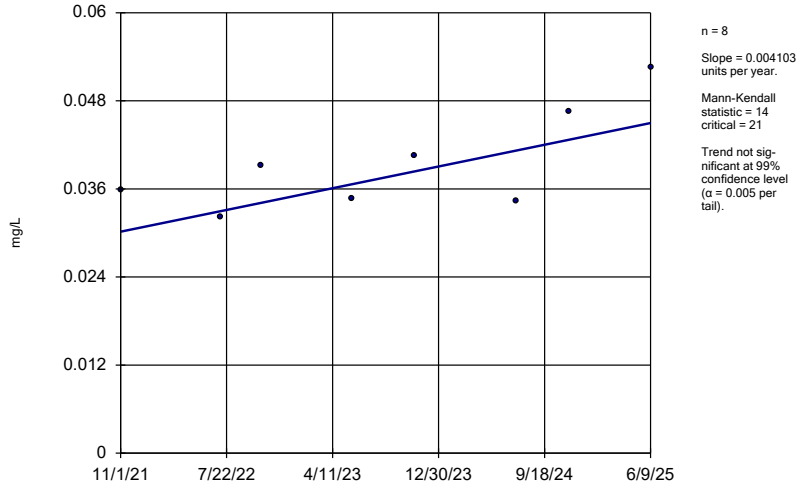
Constituent: Barium Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-905



n = 8

Slope = 0.004103 units per year.

Mann-Kendall statistic = 14 critical = 21

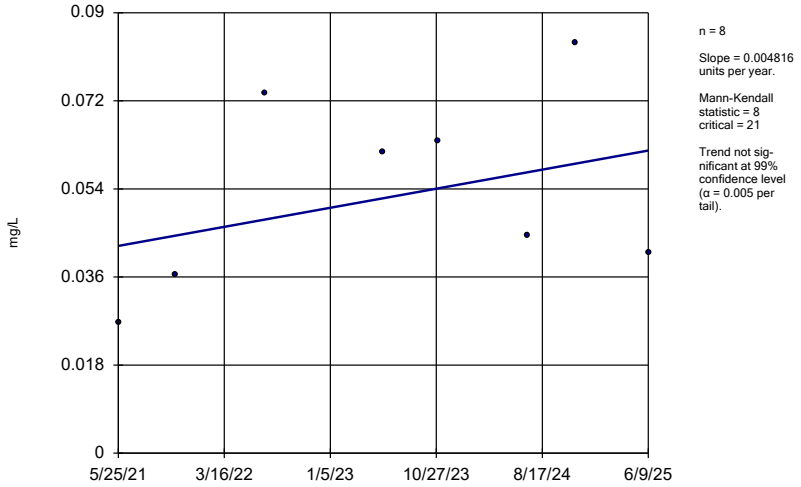
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1005



n = 8

Slope = 0.004816 units per year.

Mann-Kendall statistic = 8 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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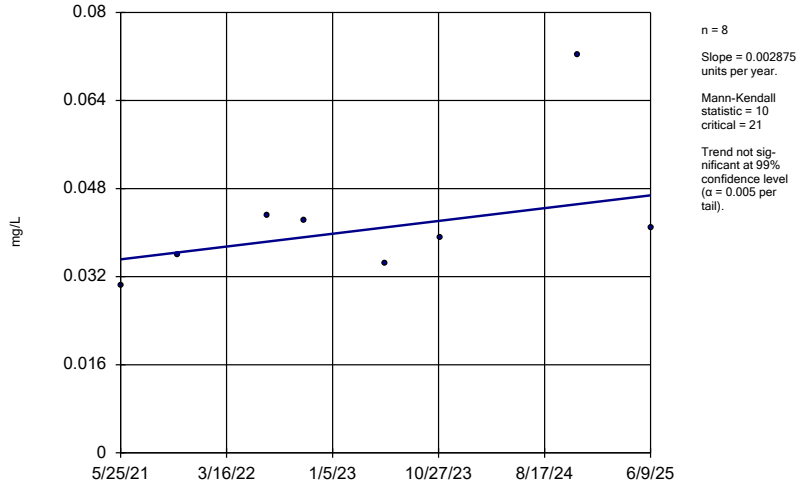
Sen's Slope Estimator

DG-1101



n = 8

Slope = 0.002875 units per year.

Mann-Kendall statistic = 10 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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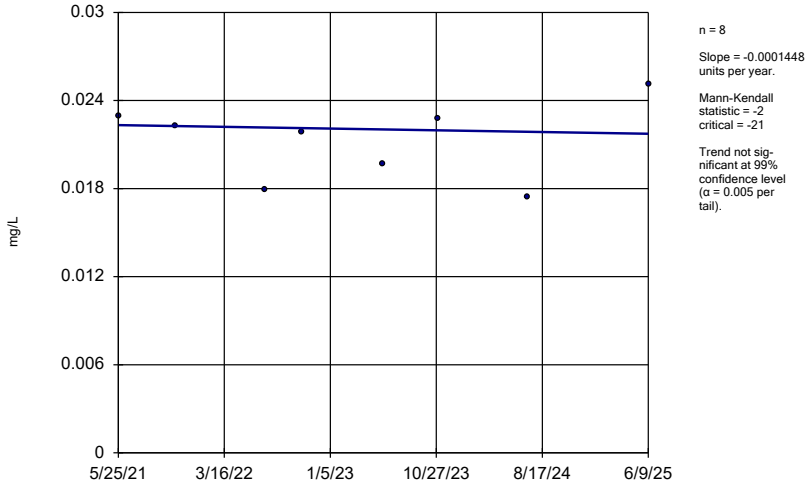
Sen's Slope Estimator

DG-1201



n = 8

Slope = -0.0001448 units per year.

Mann-Kendall statistic = -2 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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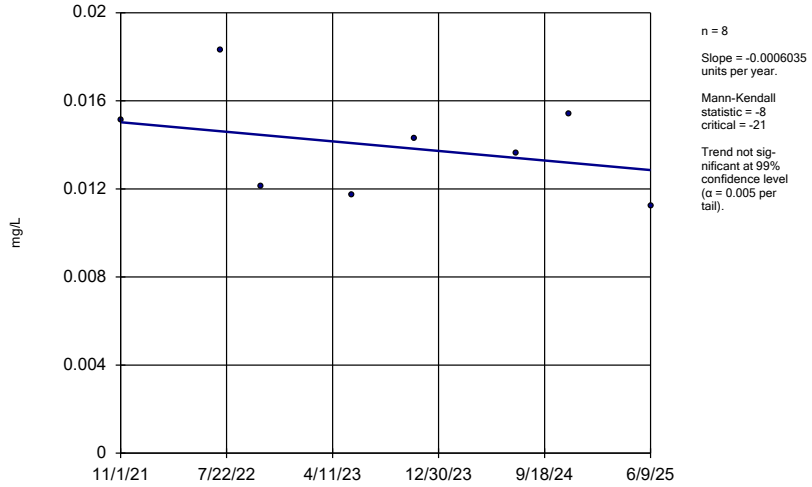
Sen's Slope Estimator

DG-1205



n = 8

Slope = -0.0006035 units per year.

Mann-Kendall statistic = -8
critical = -21

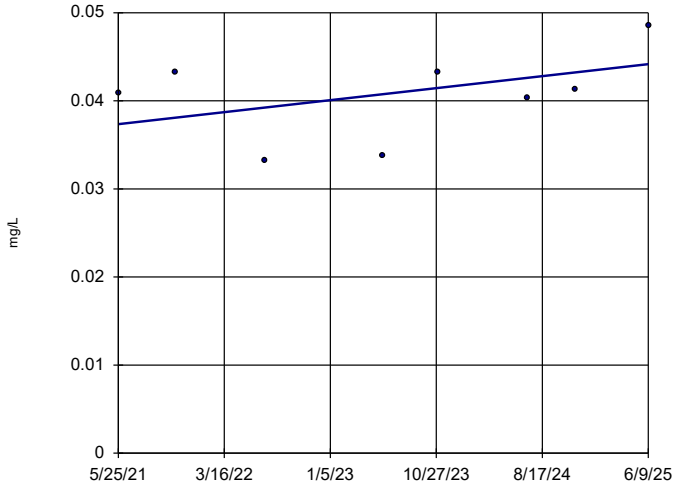
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1301



n = 8

Slope = 0.001687 units per year.

Mann-Kendall statistic = 9
critical = 21

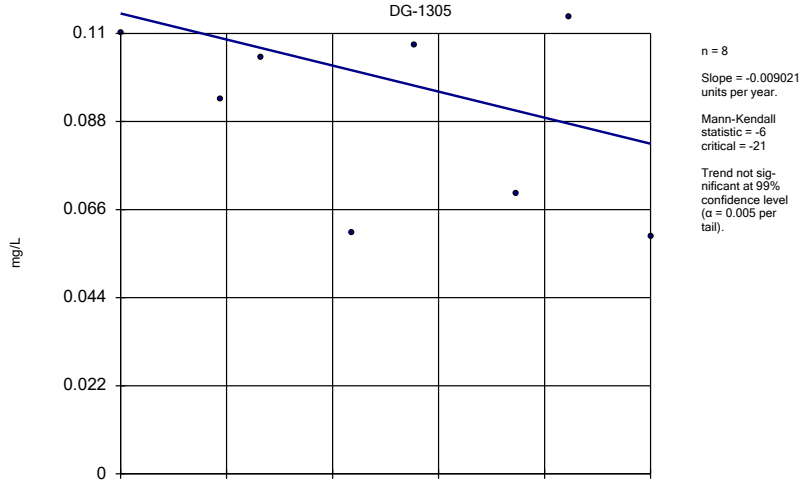
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1305



n = 8

Slope = -0.009021 units per year.

Mann-Kendall statistic = -6
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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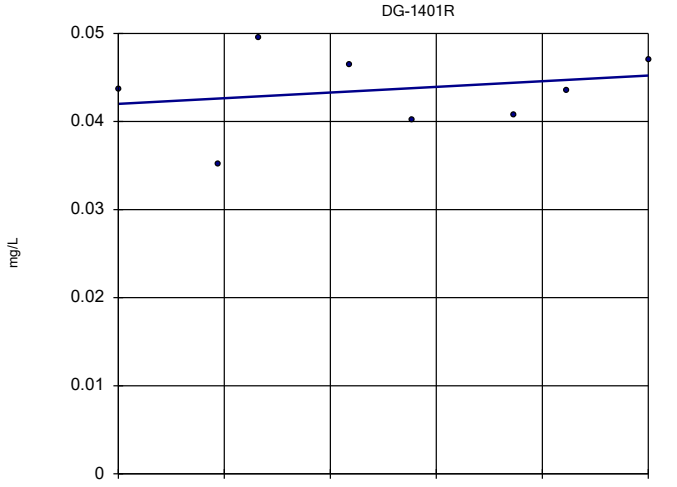
Sen's Slope Estimator

DG-1401R



n = 8

Slope = 0.0008922 units per year.

Mann-Kendall statistic = 4
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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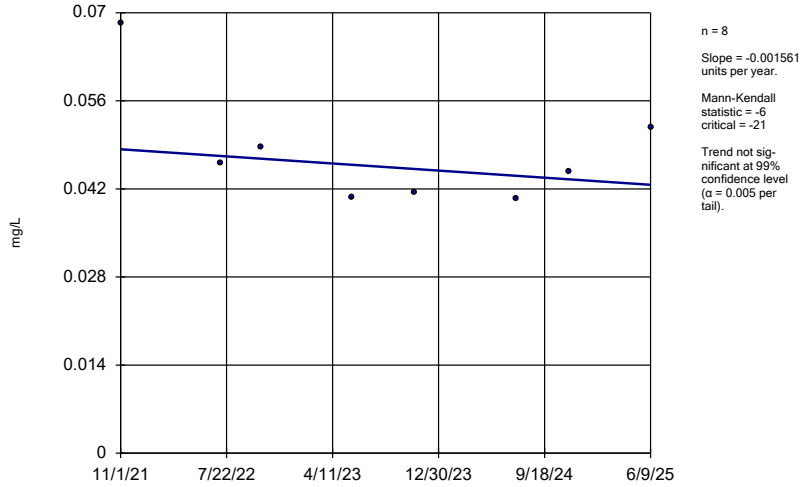
Sen's Slope Estimator

DGP-1500



n = 8

Slope = -0.001561 units per year.

Mann-Kendall statistic = -6
critical = -21

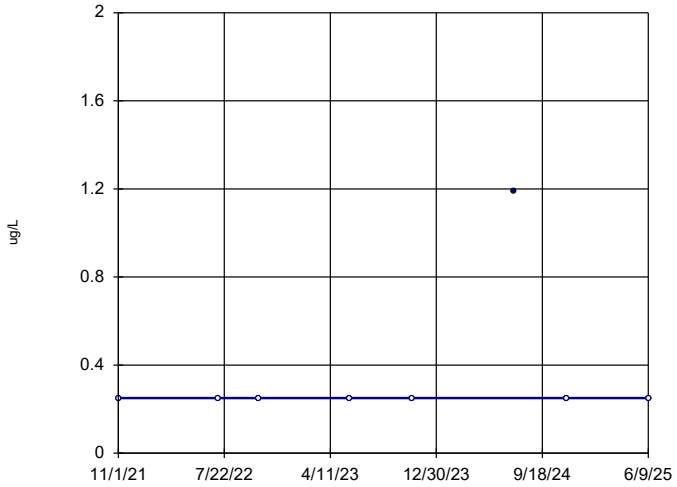
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-901



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 3
critical = 21

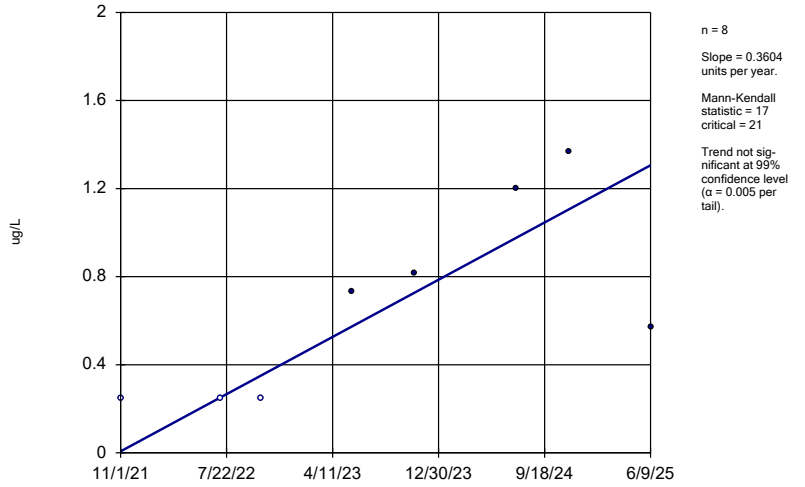
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Benzene Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGP-1500



n = 8

Slope = 0.3604 units per year.

Mann-Kendall statistic = 17
critical = 21

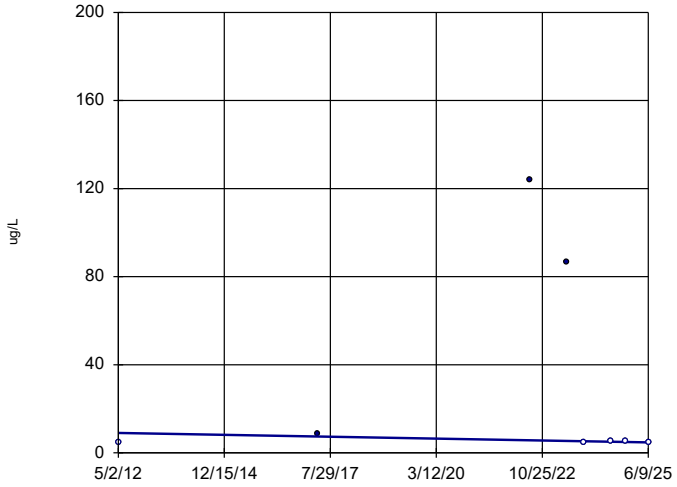
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Benzene Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1301



n = 8

Slope = -0.3257 units per year.

Mann-Kendall statistic = -5
critical = -21

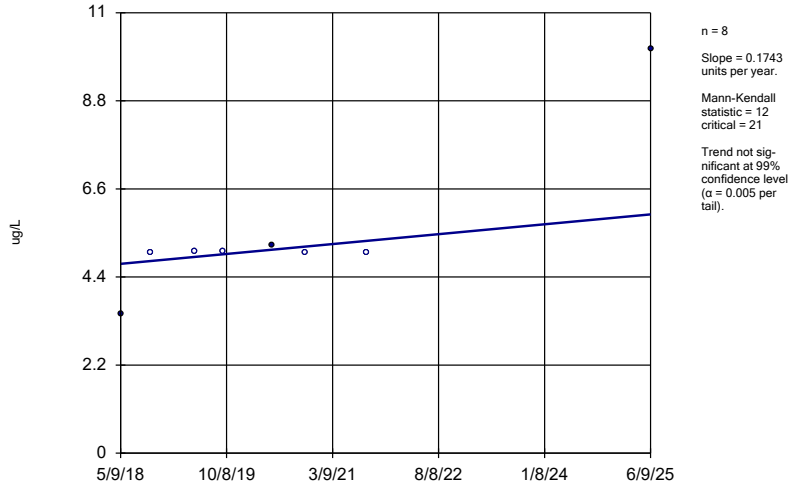
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGP-1500



n = 8

Slope = 0.1743 units per year.

Mann-Kendall statistic = 12
critical = 21

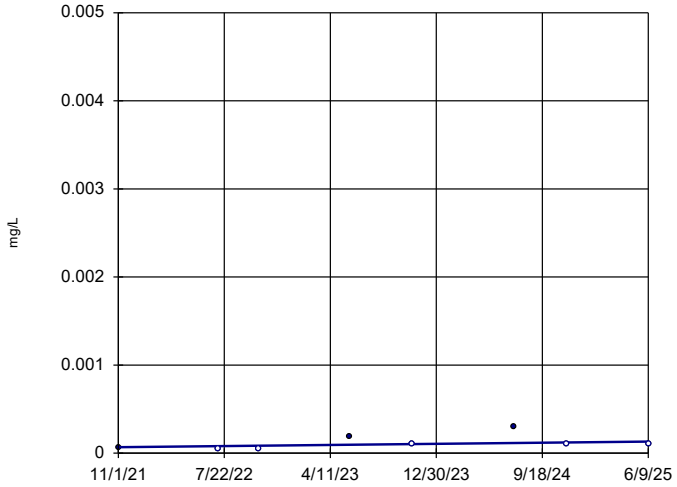
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 8/11/2025 1:45 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-901



n = 8

Slope = 0.00001755 units per year.

Mann-Kendall statistic = 10
critical = 21

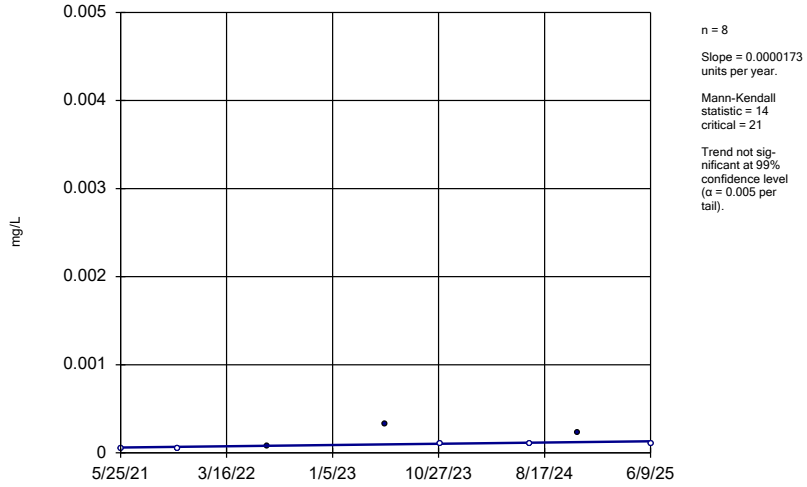
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1005



n = 8

Slope = 0.0000173 units per year.

Mann-Kendall statistic = 14
critical = 21

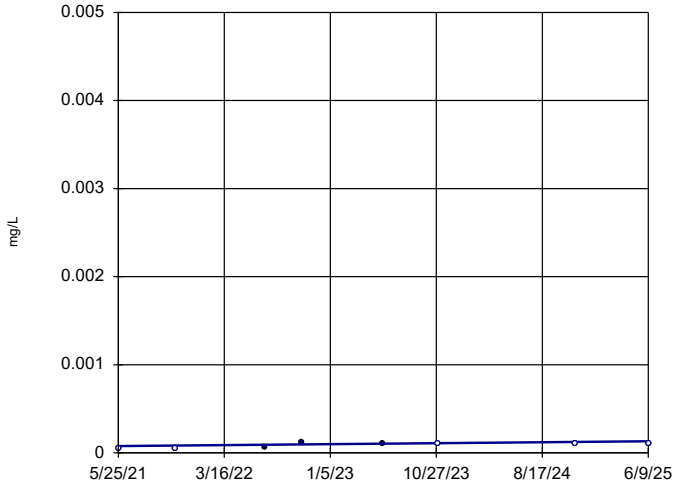
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1101



n = 8

Slope = 0.00001366 units per year.

Mann-Kendall statistic = 13
critical = 21

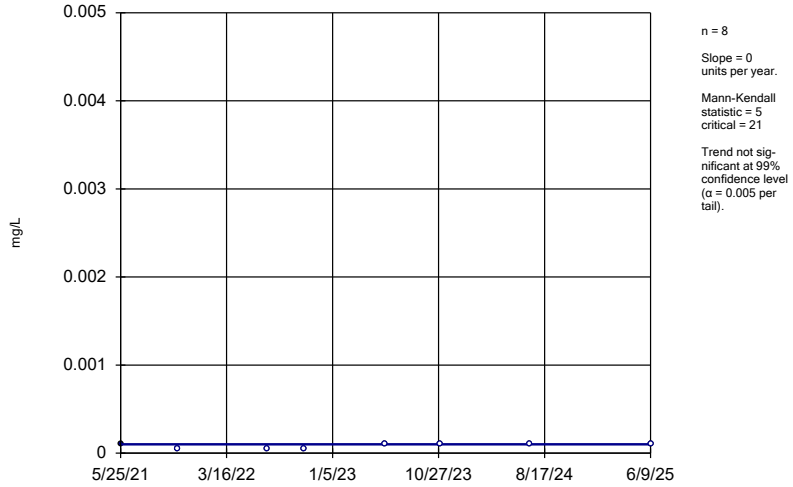
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1201



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 5 critical = 21

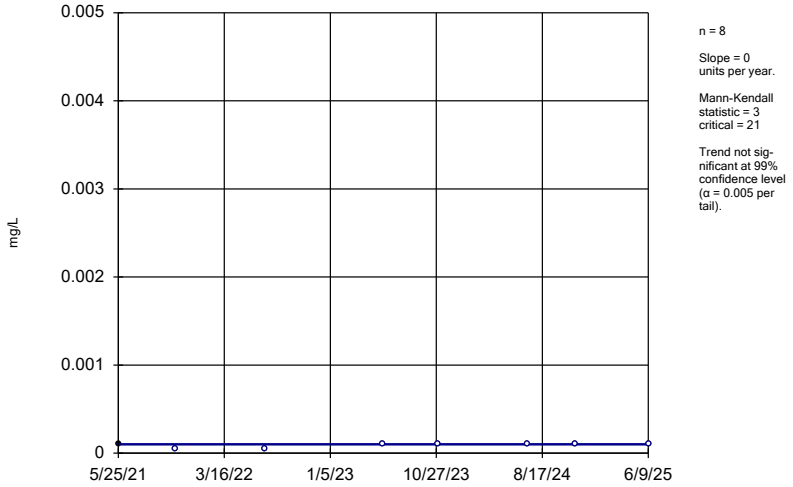
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1301



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 3 critical = 21

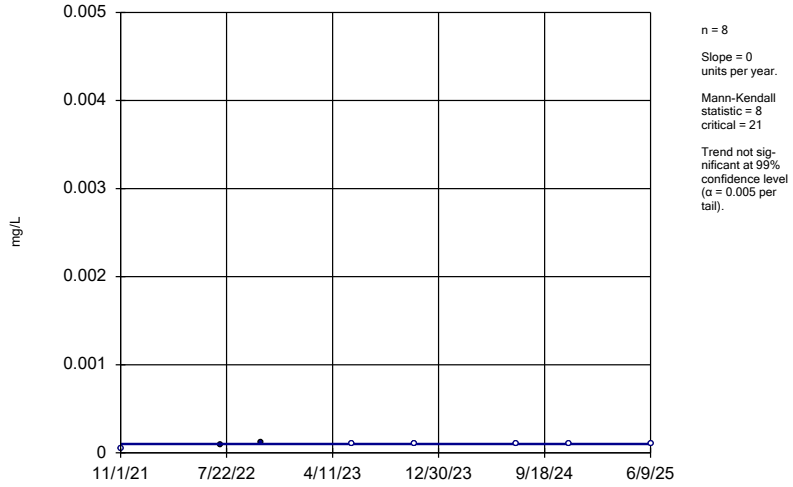
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1401R



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 8 critical = 21

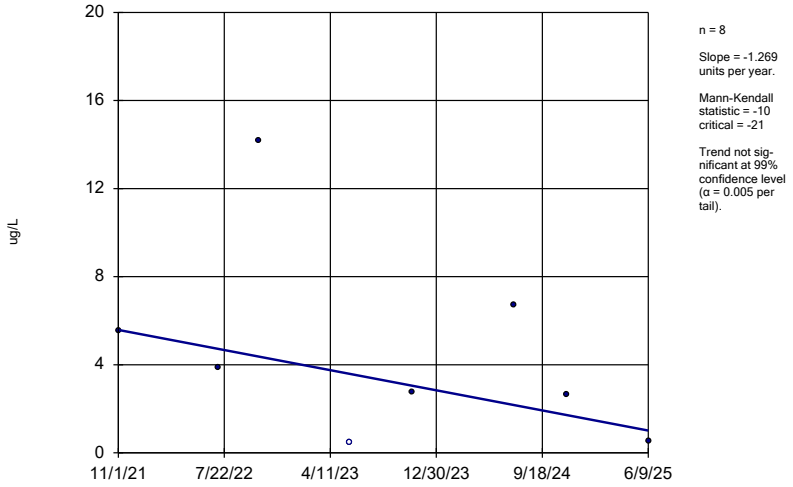
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1305



n = 8

Slope = -1.269 units per year.

Mann-Kendall statistic = -10 critical = -21

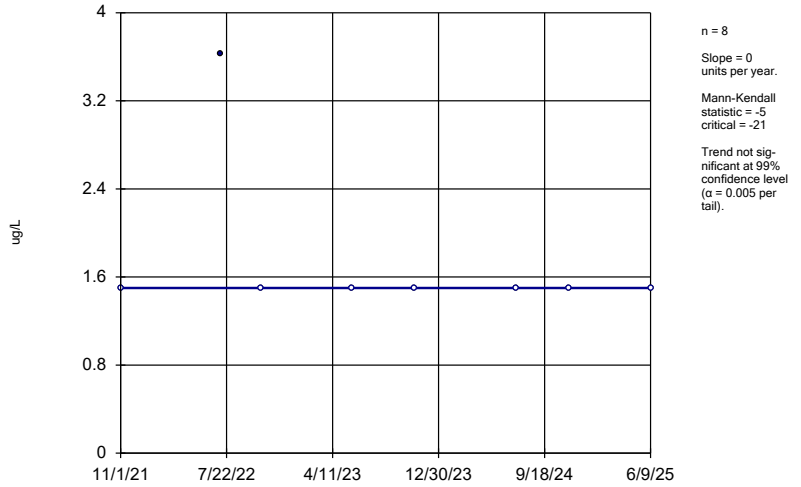
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chlorobenzene Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1205



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = -5 critical = -21

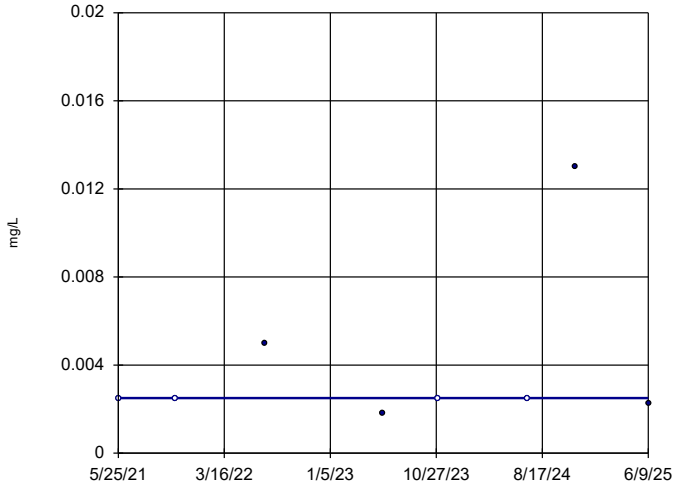
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloromethane Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1005



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 21

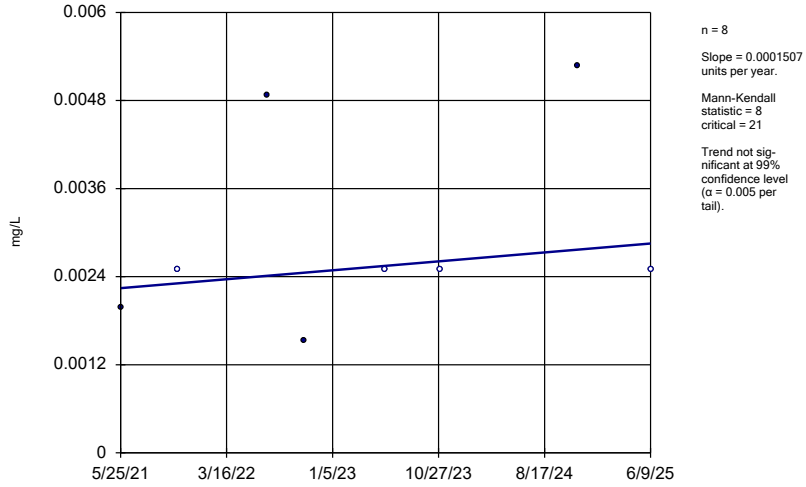
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chromium Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1101



n = 8

Slope = 0.0001507 units per year.

Mann-Kendall statistic = 8 critical = 21

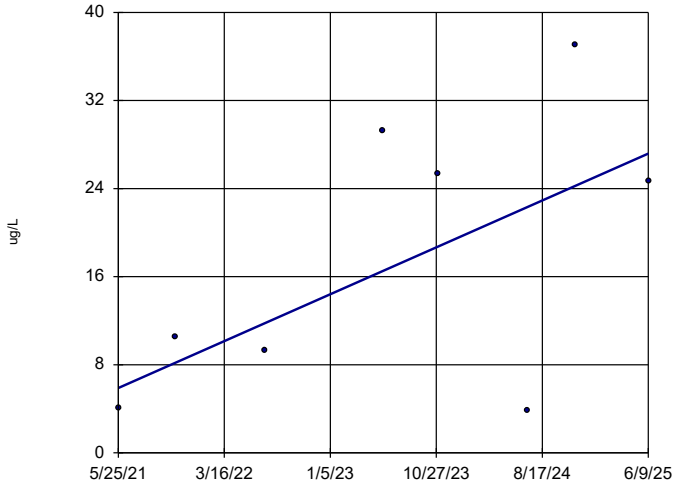
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chromium Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1301



n = 8

Slope = 5.266 units per year.

Mann-Kendall statistic = 8 critical = 21

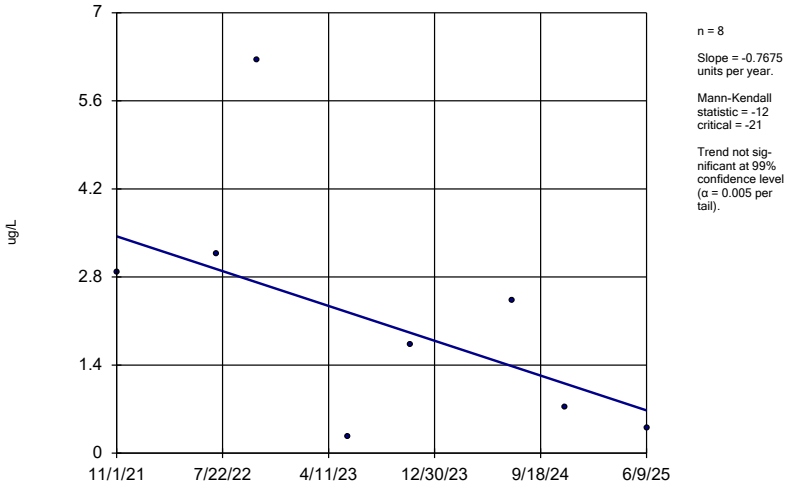
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: cis-1,2-Dichloroethene Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1305



n = 8

Slope = -0.7675 units per year.

Mann-Kendall statistic = -12 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

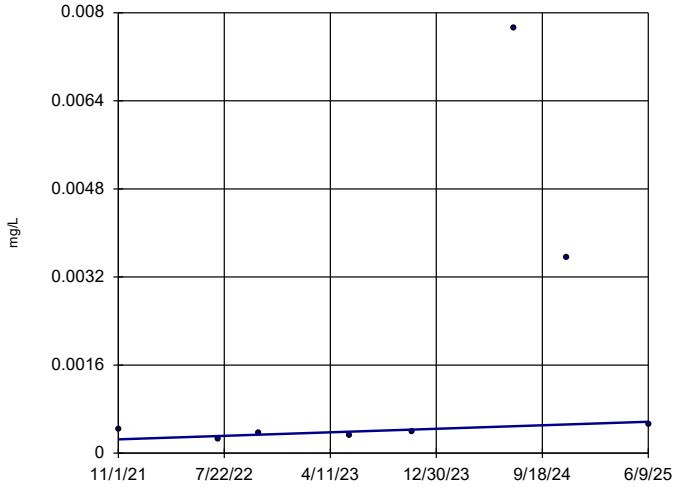
Constituent: cis-1,2-Dichloroethene Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-901



n = 8

Slope = 0.00008925 units per year.

Mann-Kendall statistic = 12 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

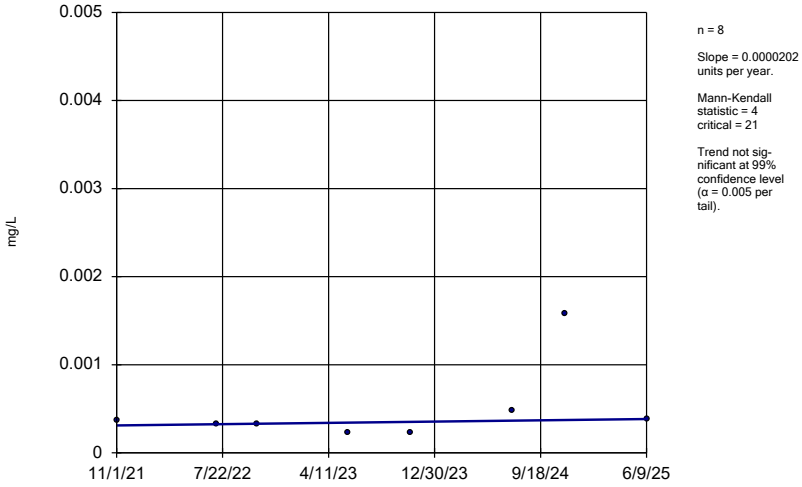
Constituent: Cobalt Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-905



n = 8

Slope = 0.0000202 units per year.

Mann-Kendall statistic = 4 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

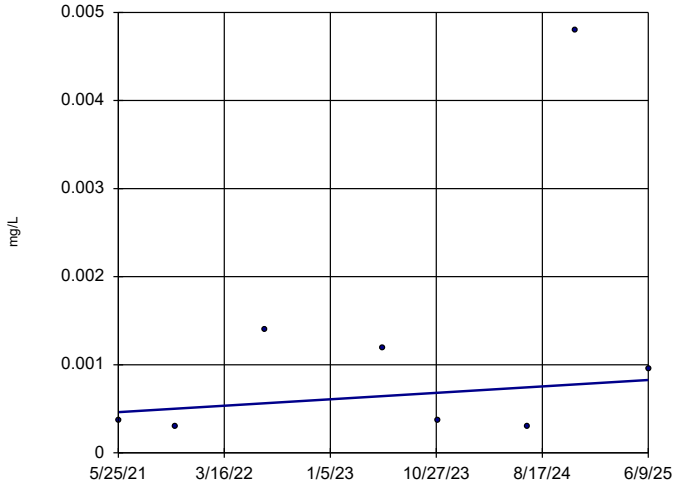
Constituent: Cobalt Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1005



n = 8

Slope = 0.00008999 units per year.

Mann-Kendall statistic = 4 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

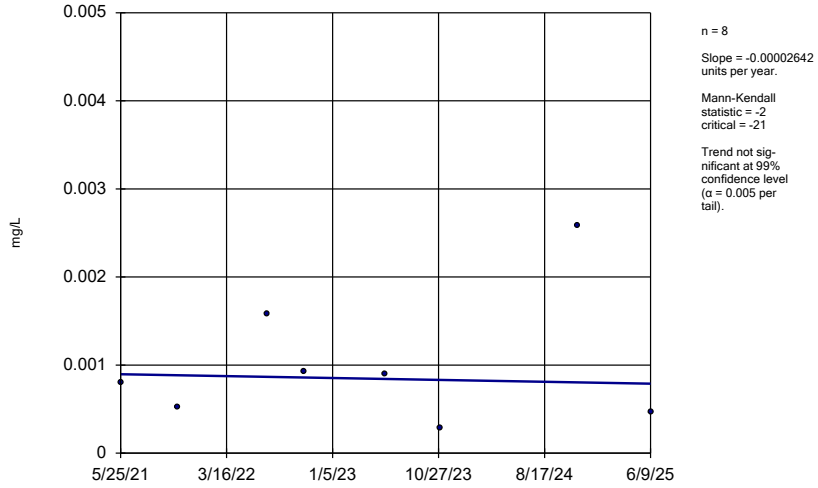
Constituent: Cobalt Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1101



n = 8

Slope = -0.00002642 units per year.

Mann-Kendall statistic = -2
critical = -21

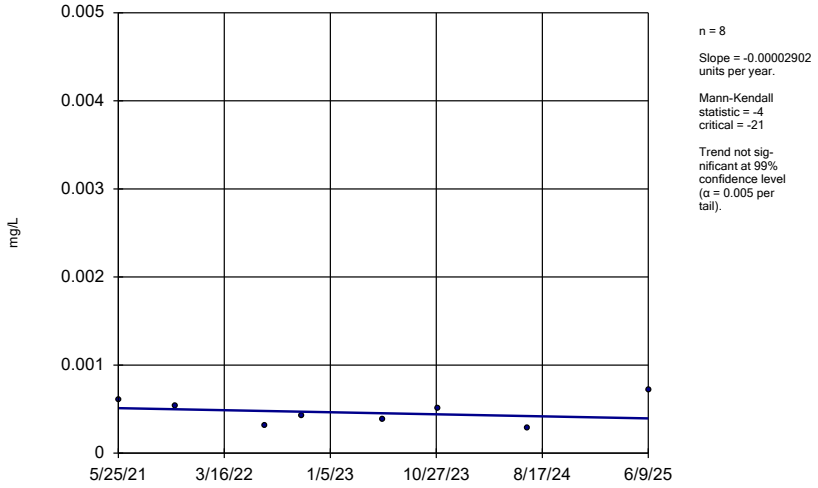
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1201



n = 8

Slope = -0.00002902 units per year.

Mann-Kendall statistic = -4
critical = -21

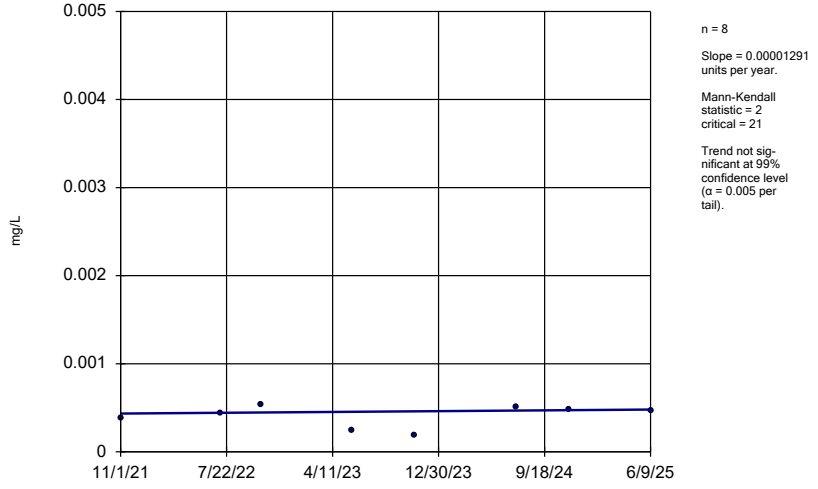
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1205



n = 8

Slope = 0.00001291 units per year.

Mann-Kendall statistic = 2
critical = 21

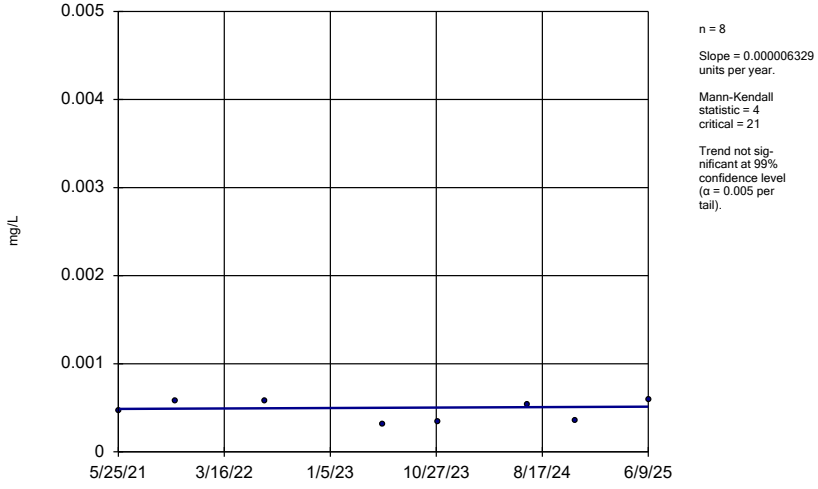
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1301



n = 8

Slope = 0.000006329 units per year.

Mann-Kendall statistic = 4
critical = 21

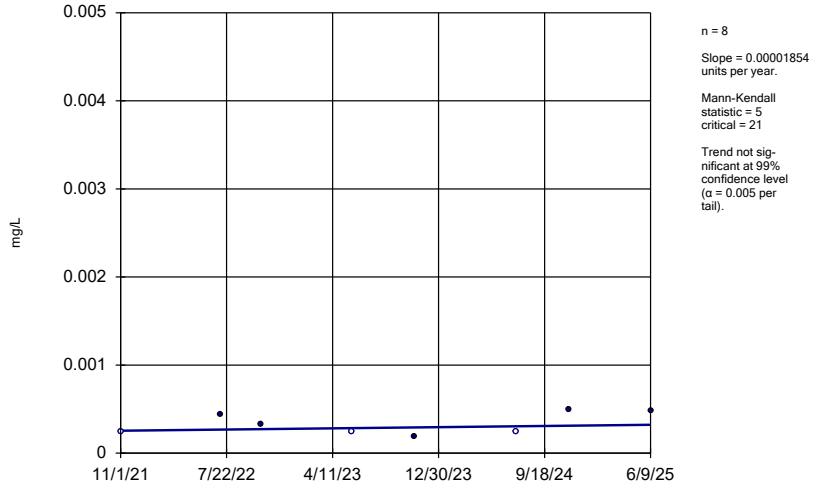
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1305



n = 8

Slope = 0.00001854 units per year.

Mann-Kendall statistic = 5
critical = 21

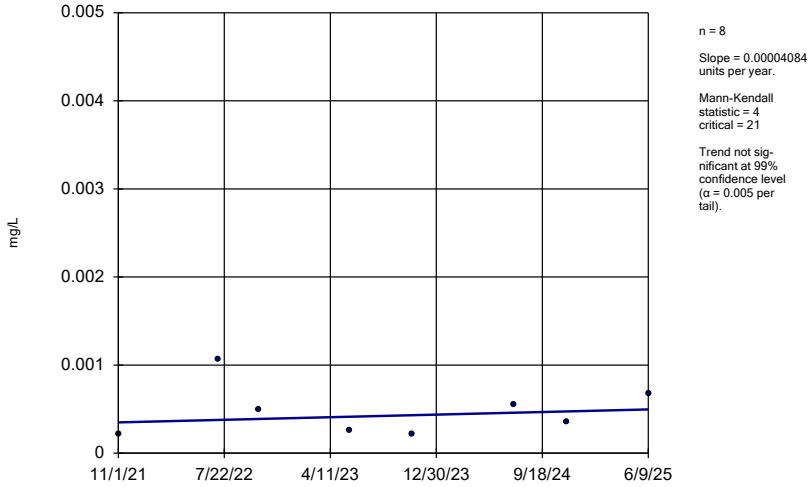
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1401R



n = 8

Slope = 0.00004084 units per year.

Mann-Kendall statistic = 4
critical = 21

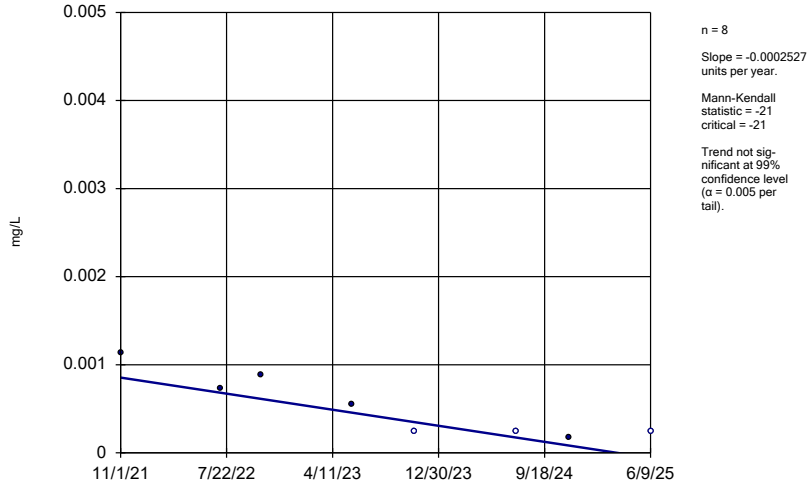
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGP-1500



n = 8

Slope = -0.0002527 units per year.

Mann-Kendall statistic = -21
critical = -21

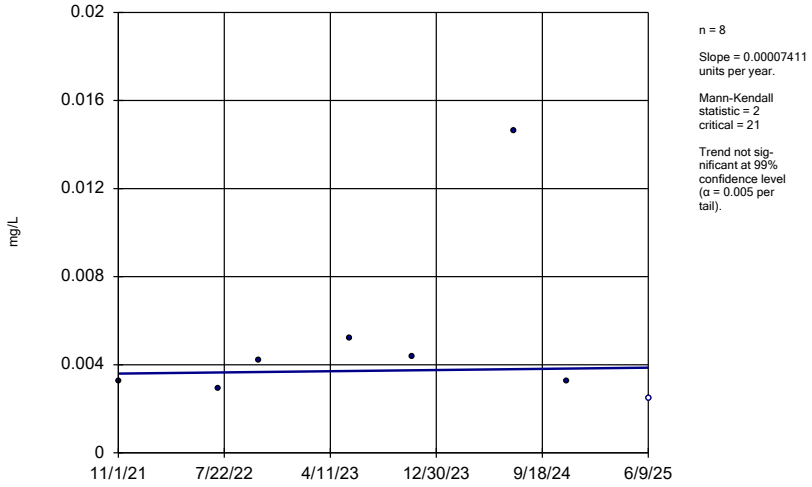
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-901



n = 8

Slope = 0.00007411 units per year.

Mann-Kendall statistic = 2
critical = 21

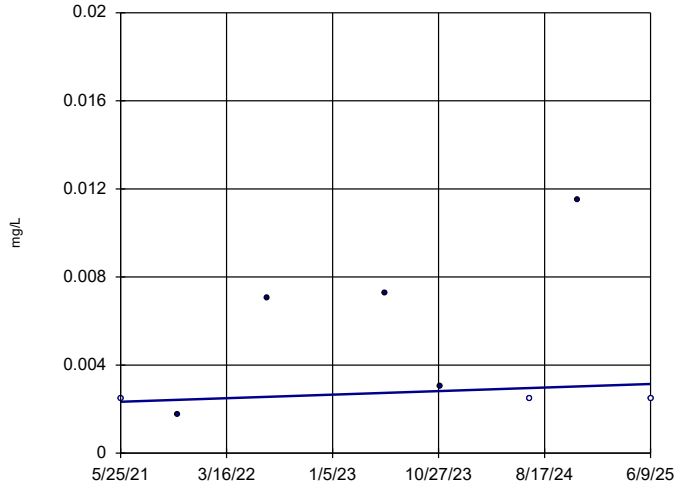
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Copper Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1005



n = 8

Slope = 0.0002 units per year.

Mann-Kendall statistic = 5
critical = 21

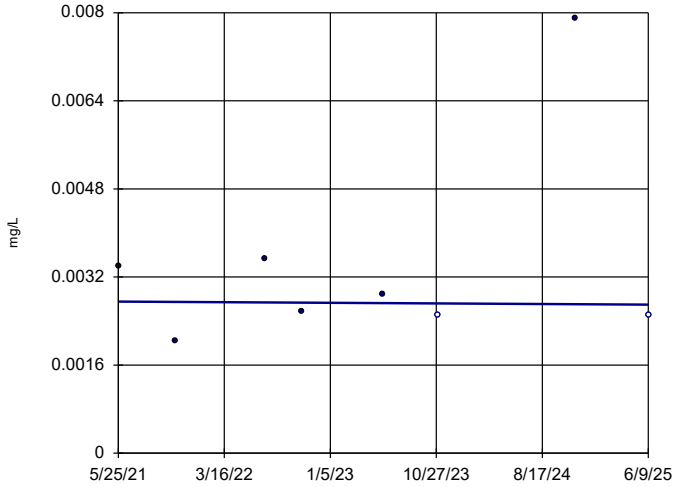
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Copper Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1101



n = 8

Slope = -0.00001322 units per year.

Mann-Kendall statistic = -1
critical = -21

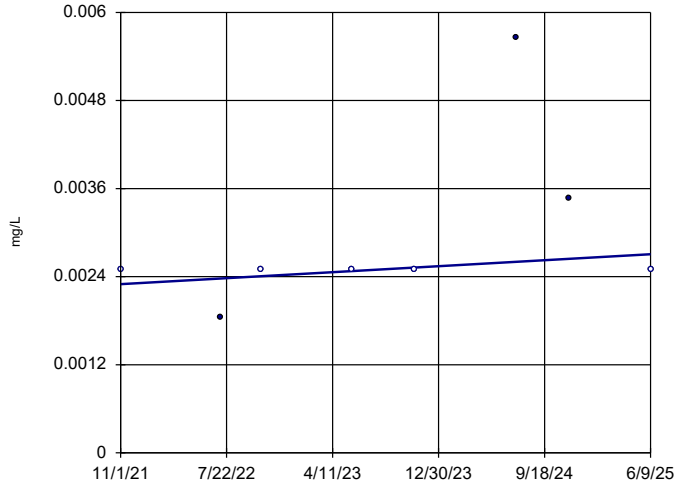
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Copper Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1205



n = 8

Slope = 0.0001127 units per year.

Mann-Kendall statistic = 10
critical = 21

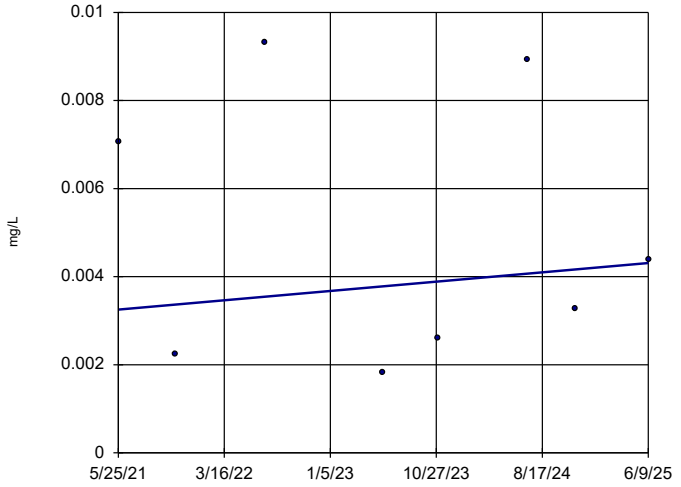
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Copper Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1301



n = 8

Slope = 0.0002615 units per year.

Mann-Kendall statistic = 2
critical = 21

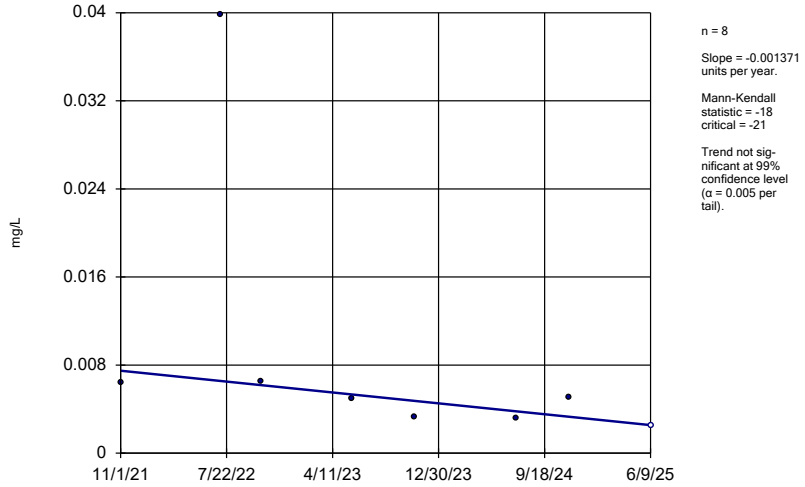
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Copper Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1401R



n = 8

Slope = -0.001371 units per year.

Mann-Kendall statistic = -18
critical = -21

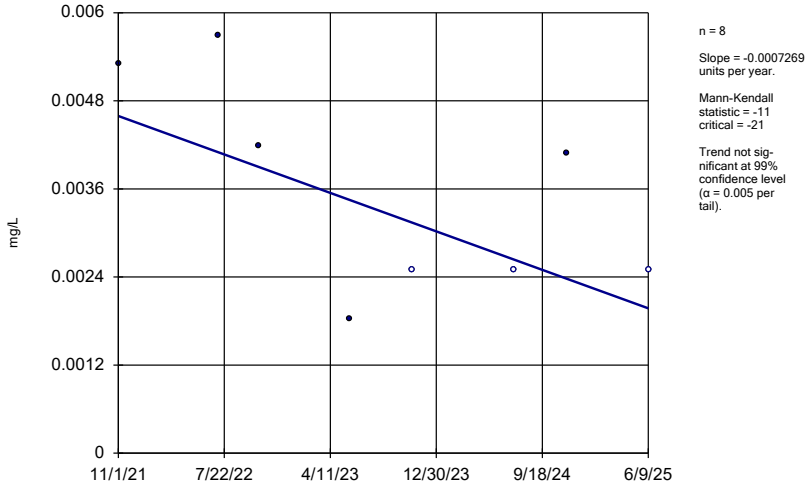
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Copper Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGP-1500



n = 8

Slope = -0.0007269 units per year.

Mann-Kendall statistic = -11
critical = -21

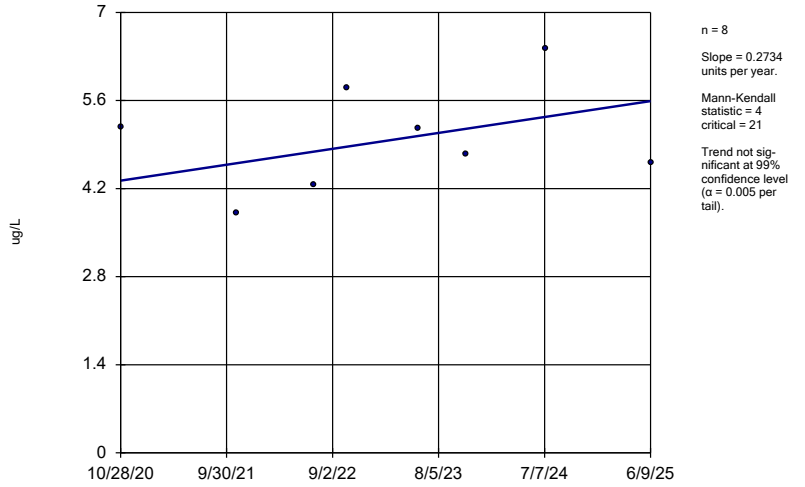
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Copper Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1205



n = 8

Slope = 0.2734 units per year.

Mann-Kendall statistic = 4
critical = 21

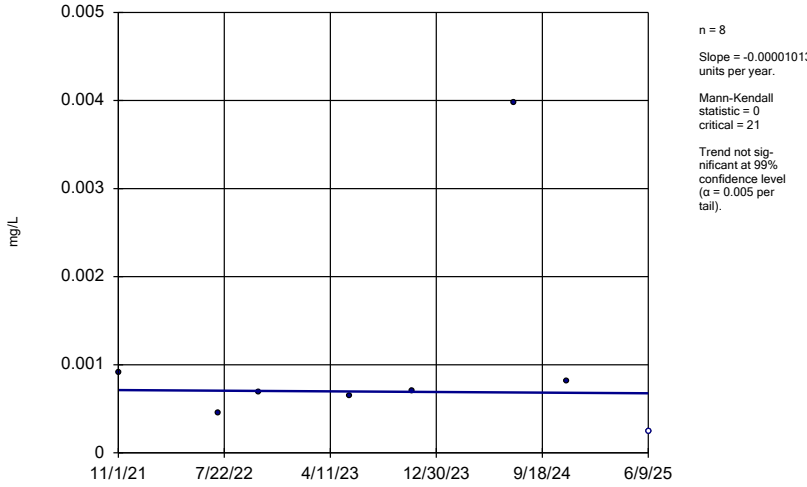
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Dichlorodifluoromethane Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-901



n = 8

Slope = -0.00001013 units per year.

Mann-Kendall statistic = 0
critical = 21

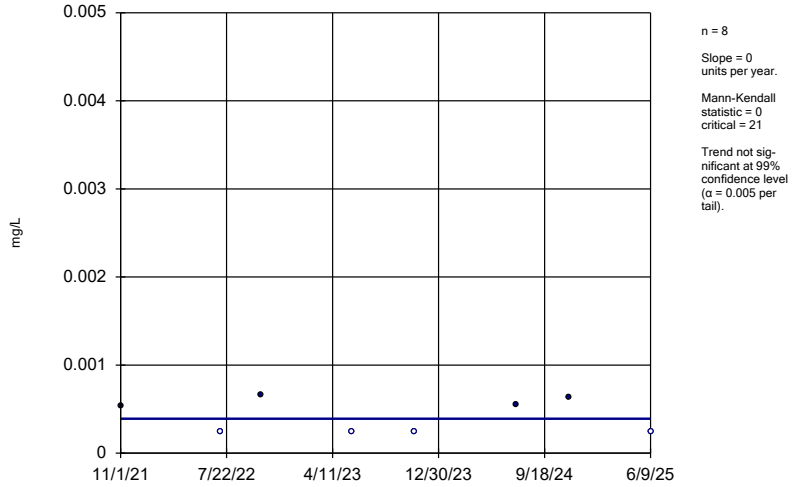
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-905



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 21

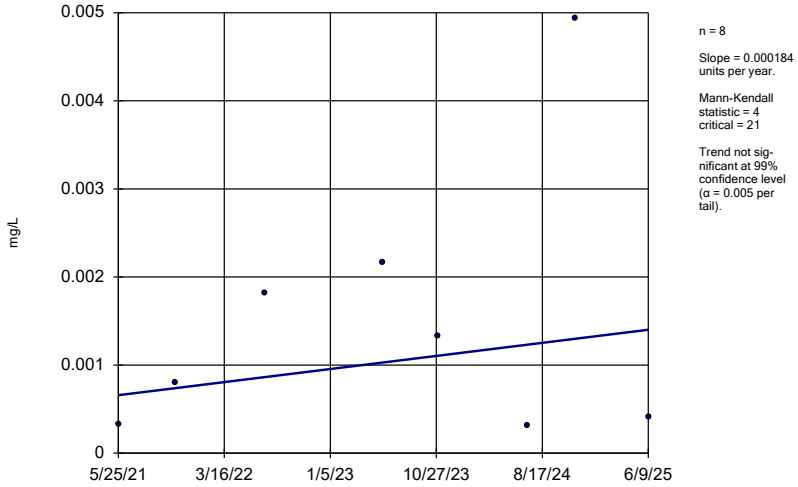
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1005



n = 8

Slope = 0.000184 units per year.

Mann-Kendall statistic = 4 critical = 21

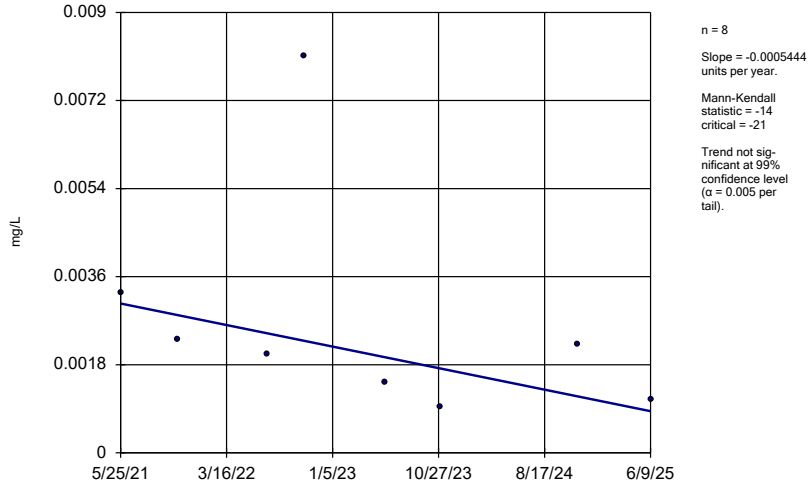
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1101



n = 8

Slope = -0.0005444 units per year.

Mann-Kendall statistic = -14 critical = -21

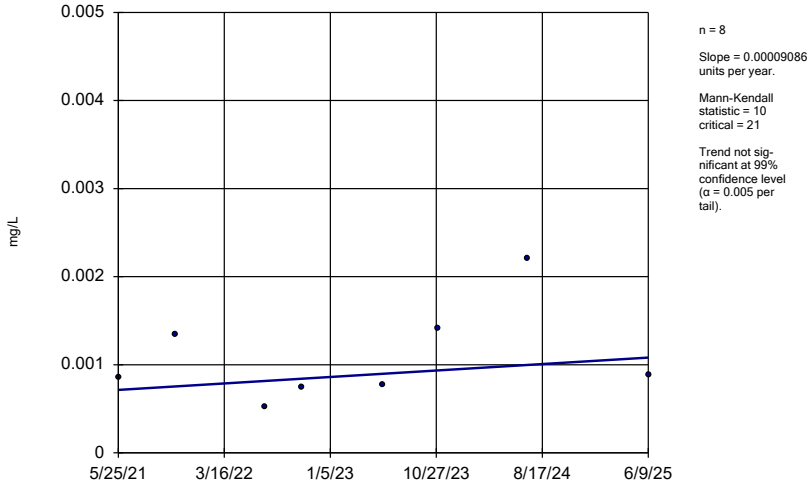
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1201



n = 8

Slope = 0.00009086 units per year.

Mann-Kendall statistic = 10 critical = 21

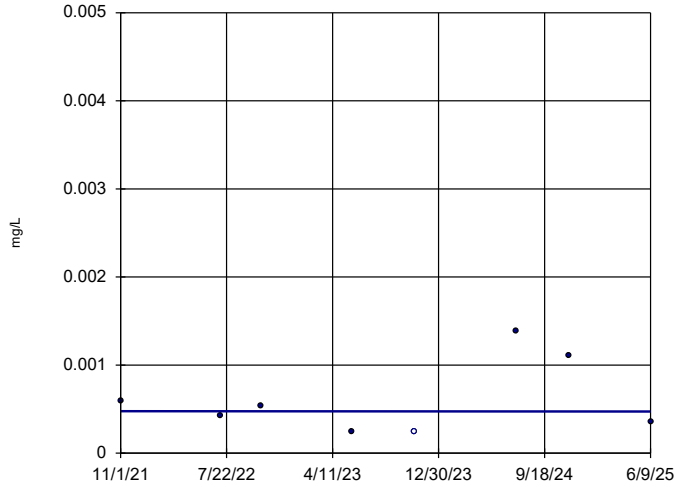
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1205



n = 8

Slope = -9.4e-7 units per year.

Mann-Kendall statistic = 0
critical = 21

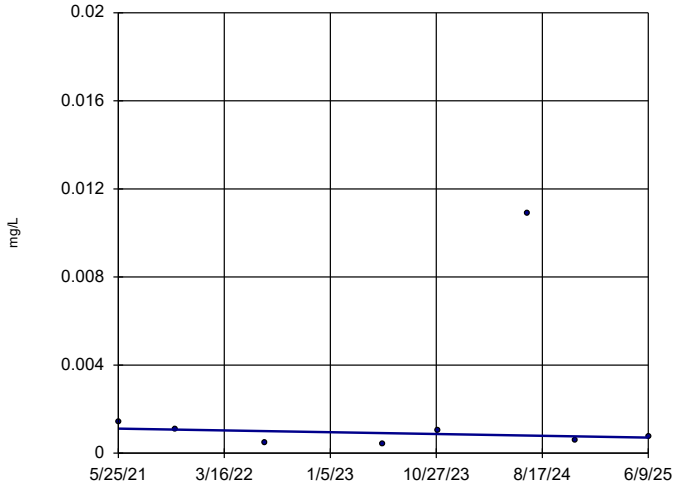
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1301



n = 8

Slope = -0.0001013 units per year.

Mann-Kendall statistic = -4
critical = -21

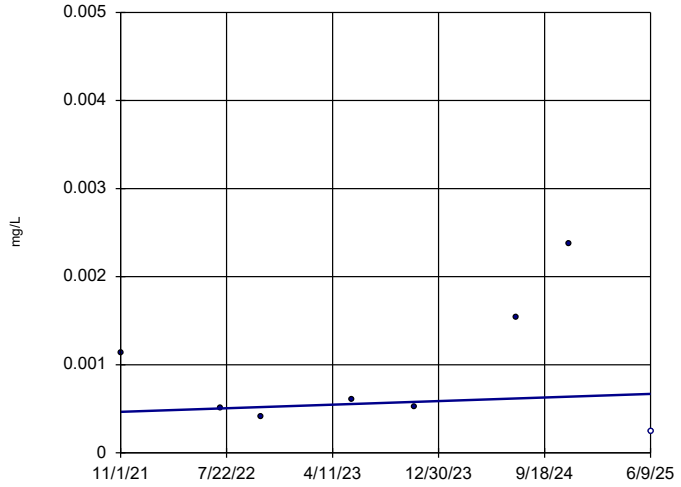
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1305



n = 8

Slope = 0.00005624 units per year.

Mann-Kendall statistic = 2
critical = 21

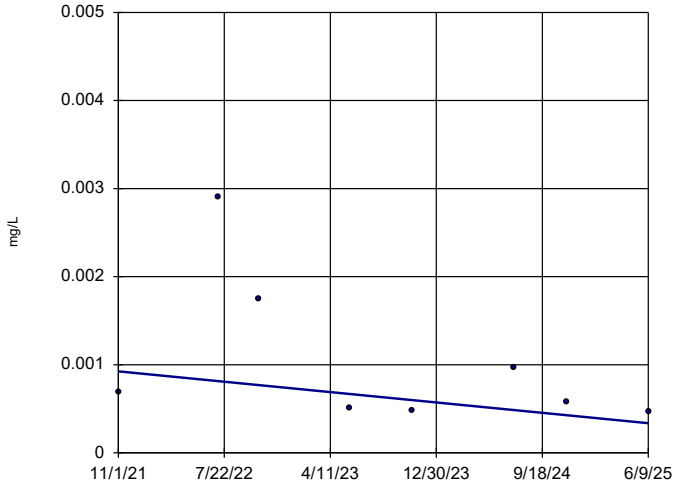
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1401R



n = 8

Slope = -0.0001629 units per year.

Mann-Kendall statistic = -14
critical = -21

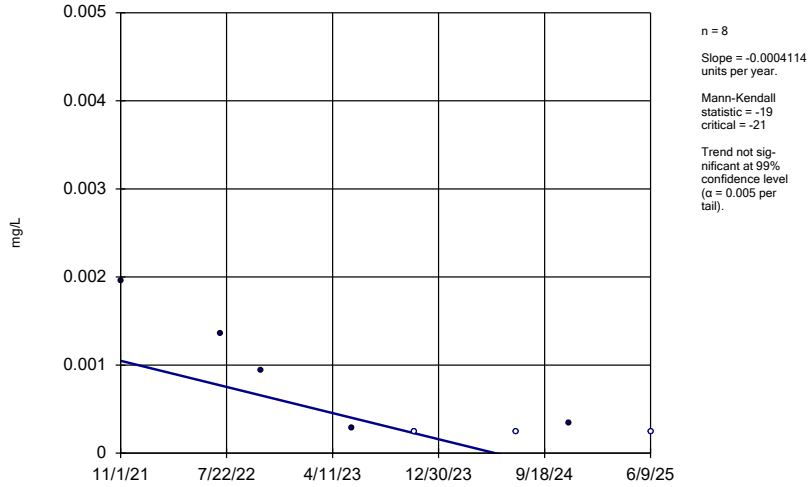
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGP-1500



n = 8

Slope = -0.0004114 units per year.

Mann-Kendall statistic = -19
critical = -21

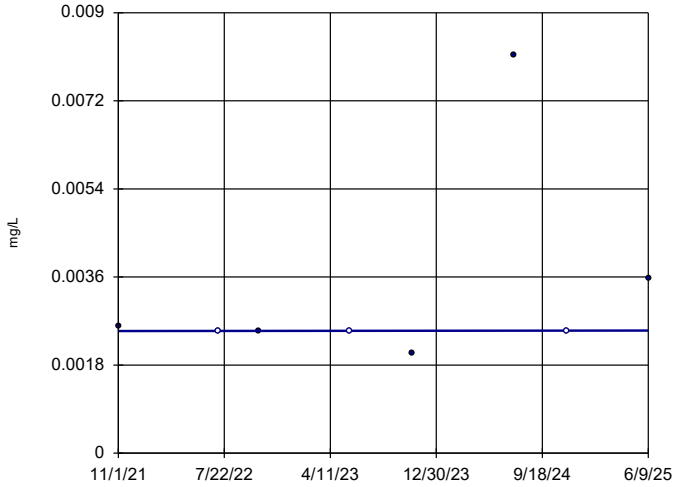
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-901



n = 8

Slope = 0.000002392 units per year.

Mann-Kendall statistic = 3
critical = 21

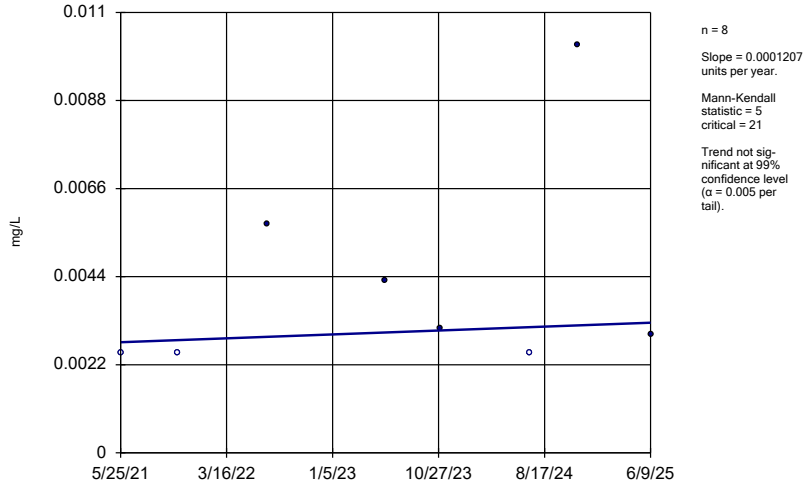
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1005



n = 8

Slope = 0.0001207 units per year.

Mann-Kendall statistic = 5
critical = 21

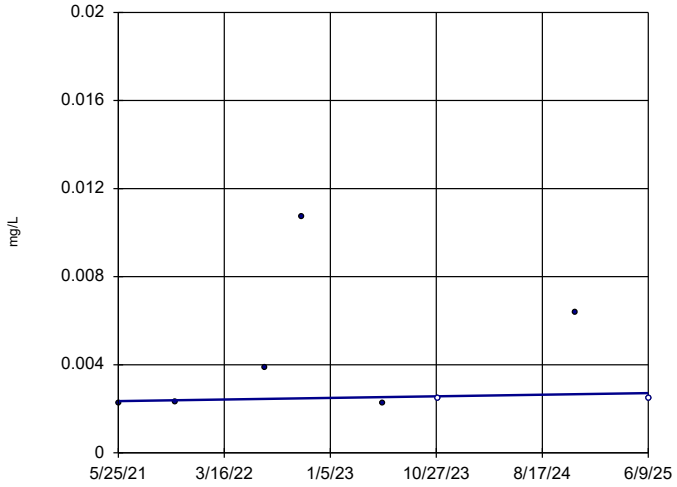
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1101



n = 8

Slope = 0.00009022 units per year.

Mann-Kendall statistic = 8
critical = 21

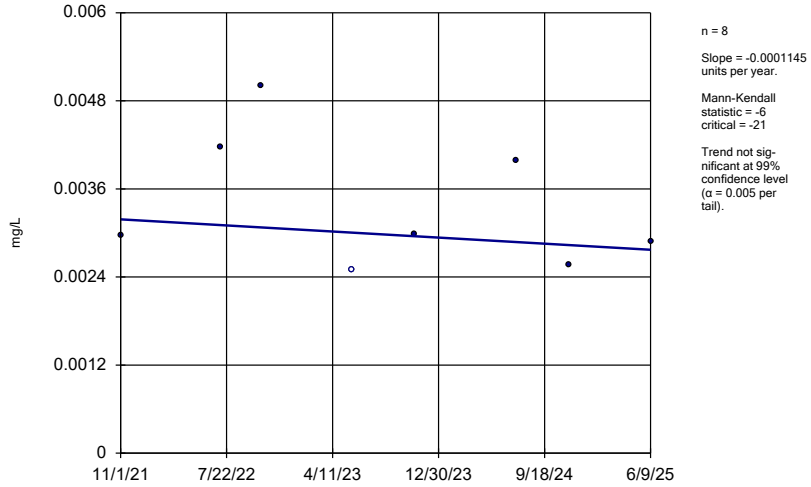
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1205



n = 8

Slope = -0.0001145 units per year.

Mann-Kendall statistic = -6
critical = -21

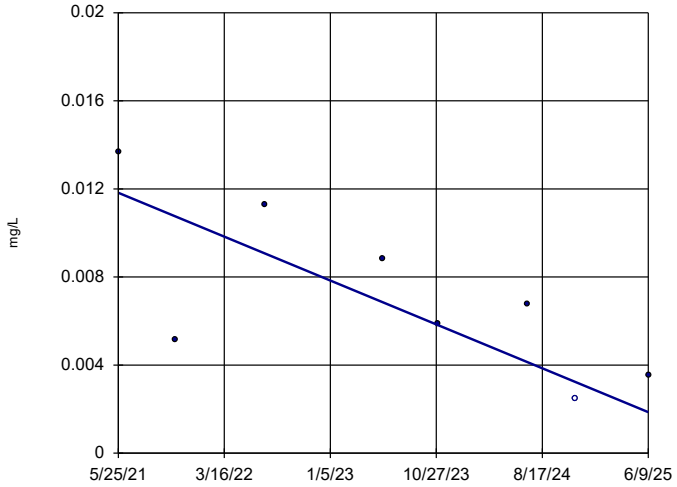
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1301



n = 8

Slope = -0.002464 units per year.

Mann-Kendall statistic = -16
critical = -21

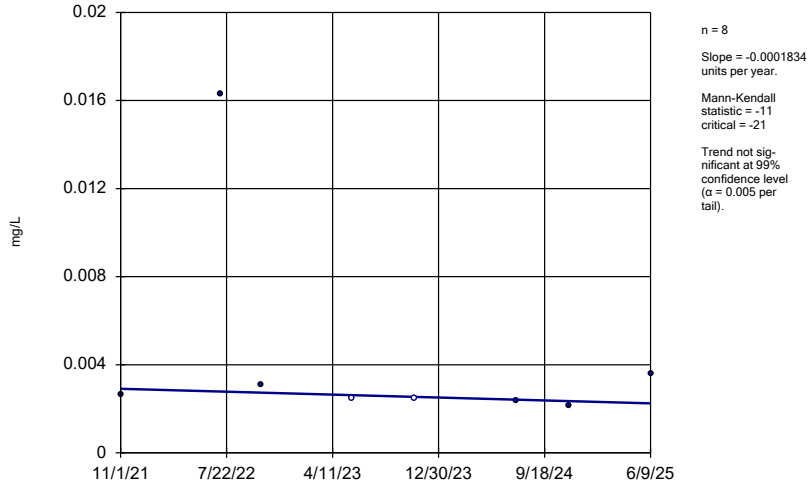
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1401R



n = 8

Slope = -0.0001834 units per year.

Mann-Kendall statistic = -11
critical = -21

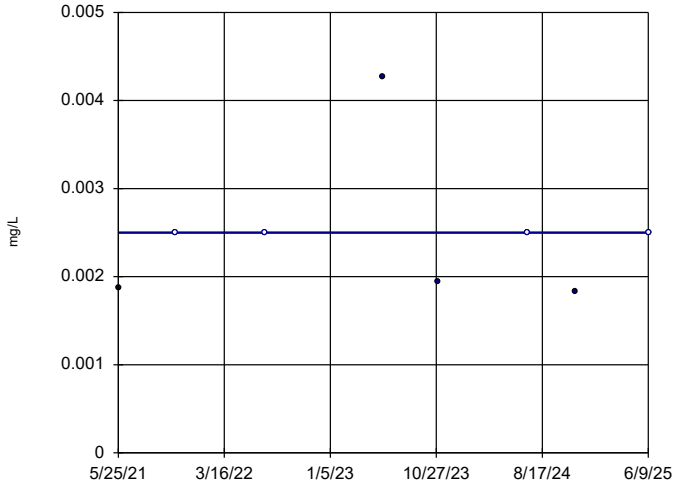
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1005



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 21

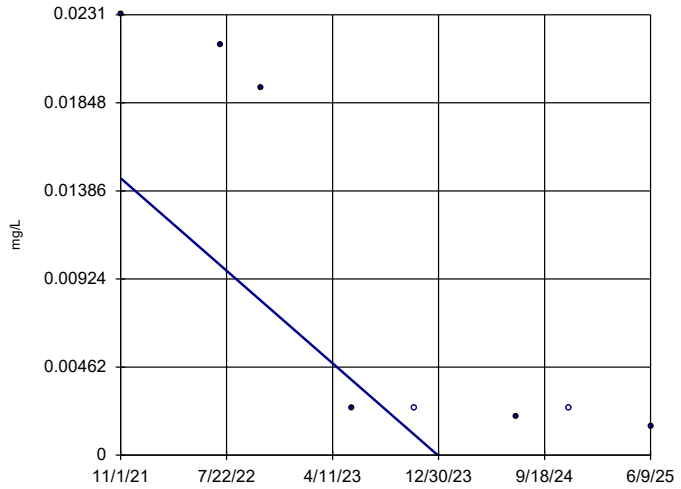
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGP-1500



n = 8

Slope = -0.006733 units per year.

Mann-Kendall statistic = -21
critical = -21

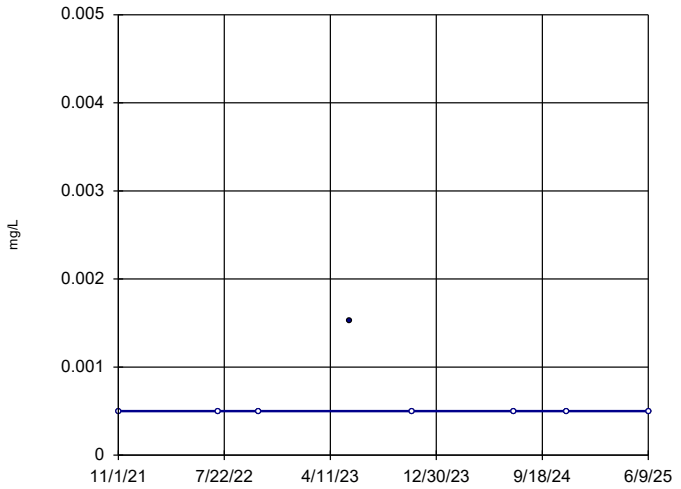
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-901



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = -1
critical = -21

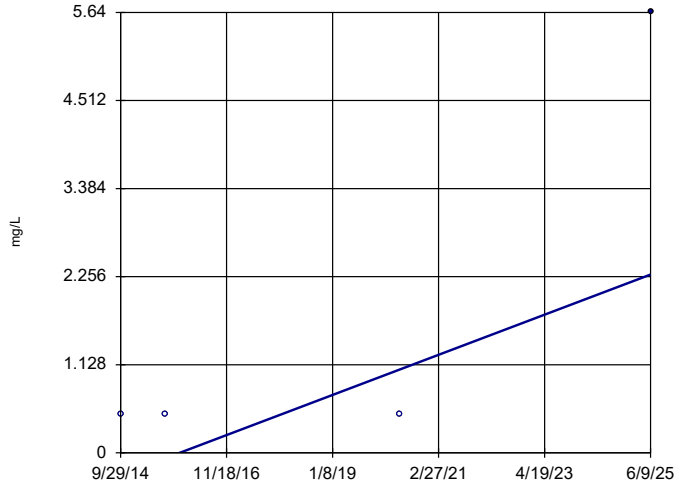
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Silver Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGP-1500



n = 4

Slope = 0.2402 units per year.

Mann-Kendall statistic = 3
critical = 8

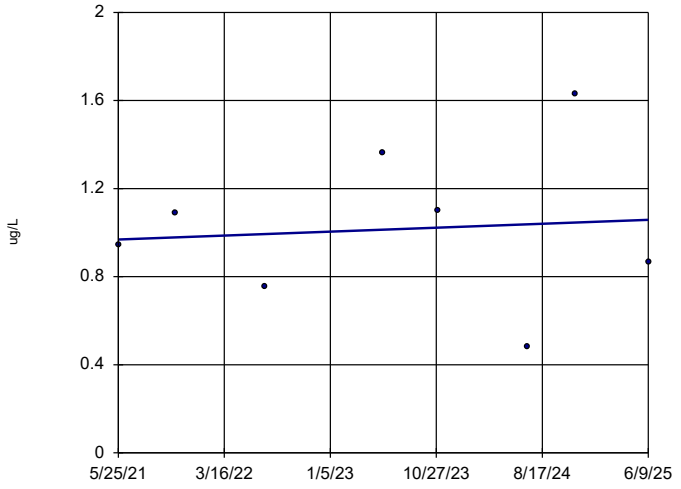
Trend not significant at 99% confidence level (α = 0.005 per tail).
With n = 4, no data set will result in a significant Mann-Kendall statistic.

Constituent: Sulfide Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1301



n = 8

Slope = 0.02214 units per year.

Mann-Kendall statistic = 2
critical = 21

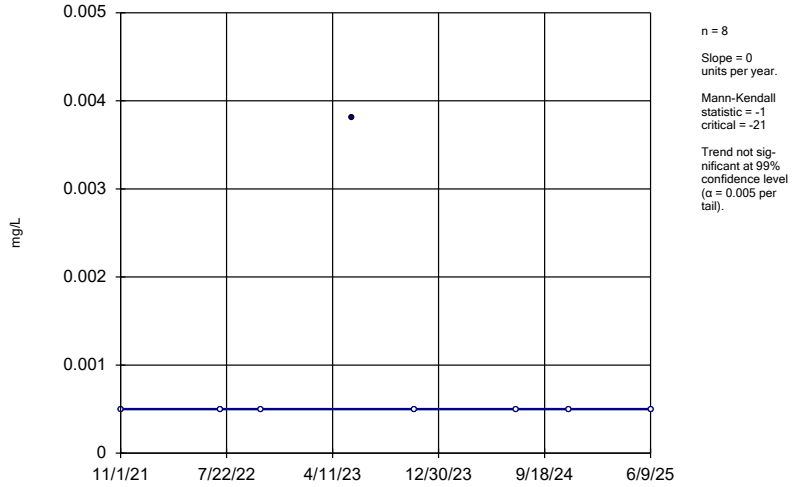
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Tetrachloroethene Analysis Run 8/11/2025 1:46 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-901



n = 8

Slope = 0
units per year.

Mann-Kendall
statistic = -1
critical = -21

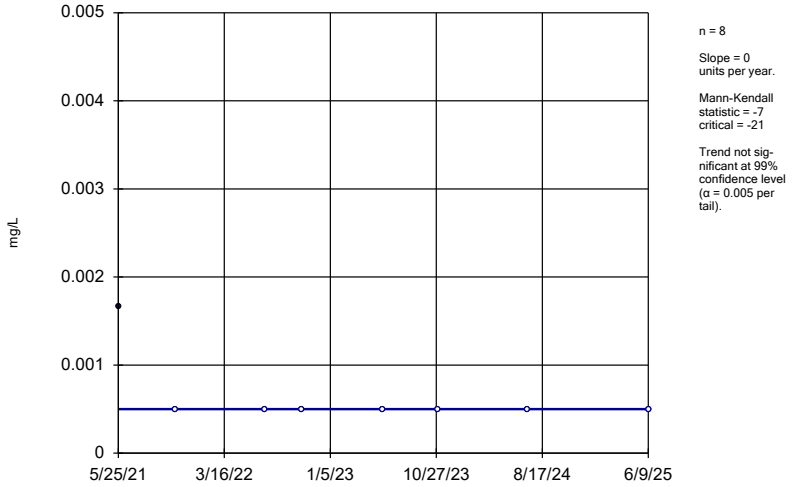
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Thallium Analysis Run 8/11/2025 1:47 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1201



n = 8

Slope = 0
units per year.

Mann-Kendall
statistic = -7
critical = -21

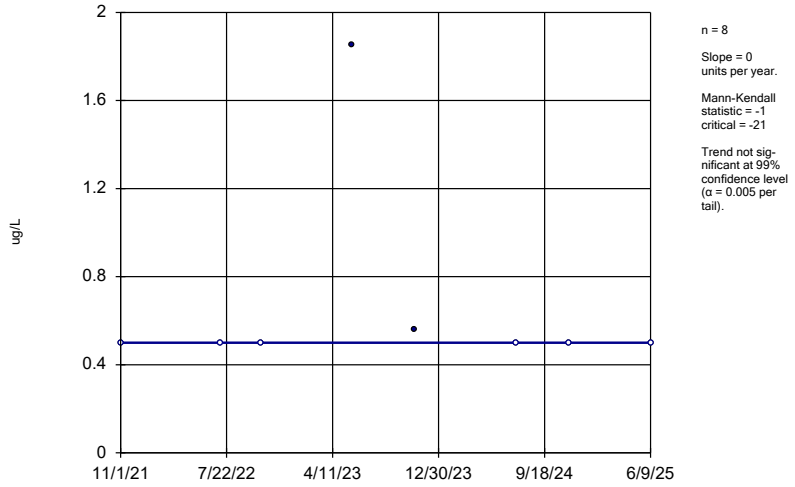
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Thallium Analysis Run 8/11/2025 1:47 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGP-1500



n = 8

Slope = 0
units per year.

Mann-Kendall
statistic = -1
critical = -21

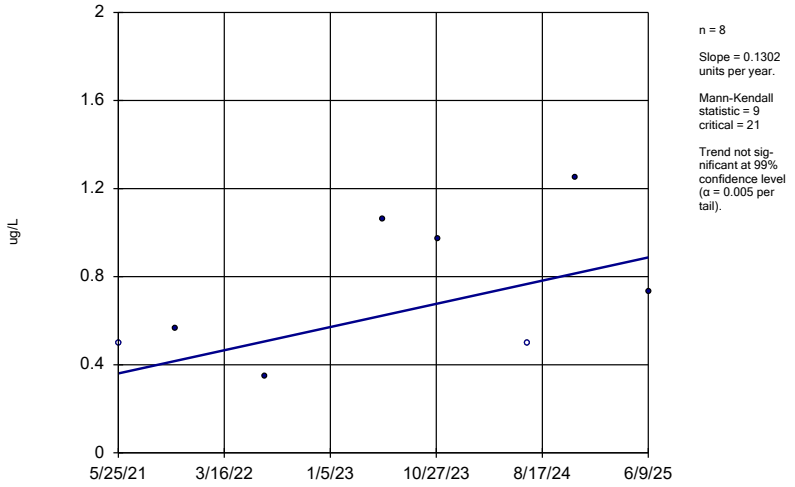
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Toluene Analysis Run 8/11/2025 1:47 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1301



n = 8

Slope = 0.1302
units per year.

Mann-Kendall
statistic = 9
critical = 21

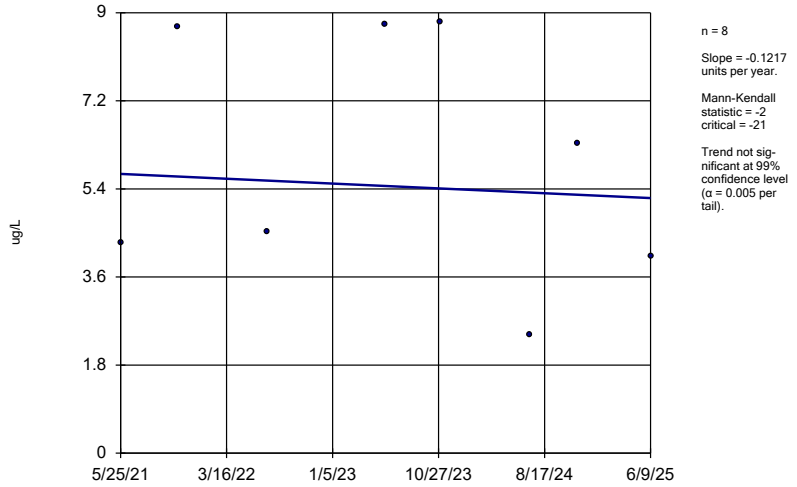
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: trans-1,2-Dichloroethene Analysis Run 8/11/2025 1:47 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1301



n = 8

Slope = -0.1217 units per year.

Mann-Kendall statistic = -2 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

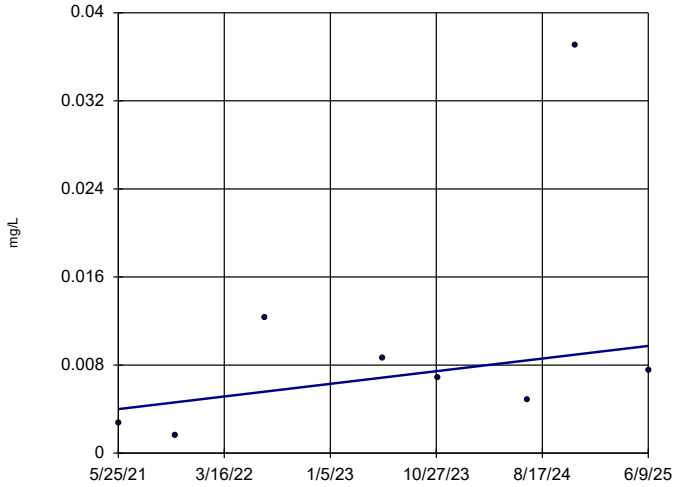
Constituent: Trichloroethene Analysis Run 8/11/2025 1:47 PM View: 2025_SSN-Mann_Kendall

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1005



n = 8

Slope = 0.001421 units per year.

Mann-Kendall statistic = 8 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

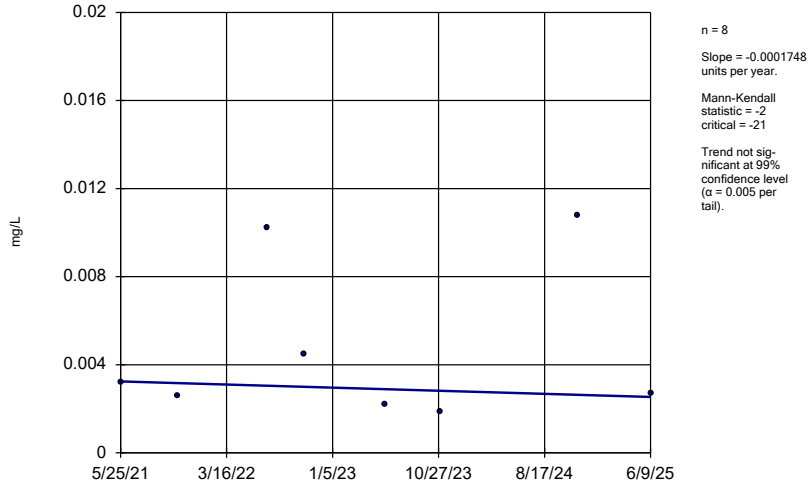
Constituent: Vanadium Analysis Run 8/11/2025 1:47 PM View: 2025_SSN-Mann_Kendall

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1101



n = 8

Slope = -0.0001748 units per year.

Mann-Kendall statistic = -2 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Vanadium Analysis Run 8/11/2025 1:47 PM View: 2025_SSN-Mann_Kendall

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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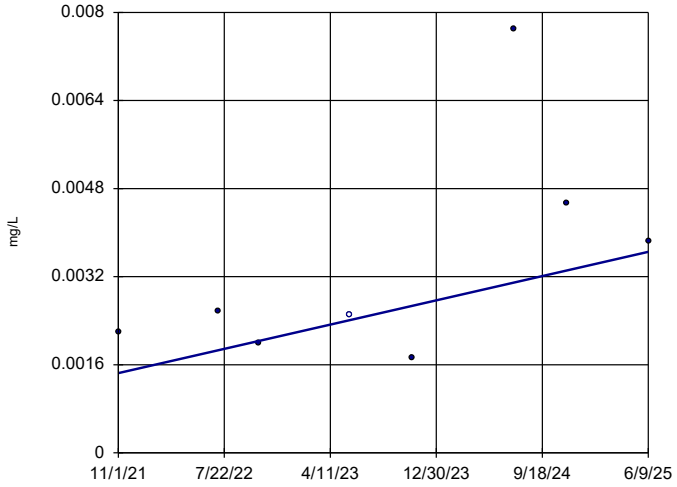
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1205



n = 8

Slope = 0.0006108 units per year.

Mann-Kendall statistic = 8 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Vanadium Analysis Run 8/11/2025 1:47 PM View: 2025_SSN-Mann_Kendall

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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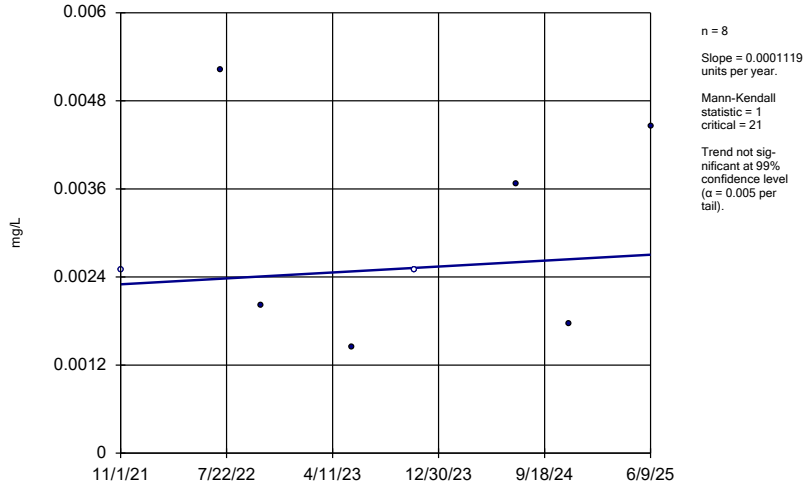
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1401R



n = 8

Slope = 0.0001119 units per year.

Mann-Kendall statistic = 1
critical = 21

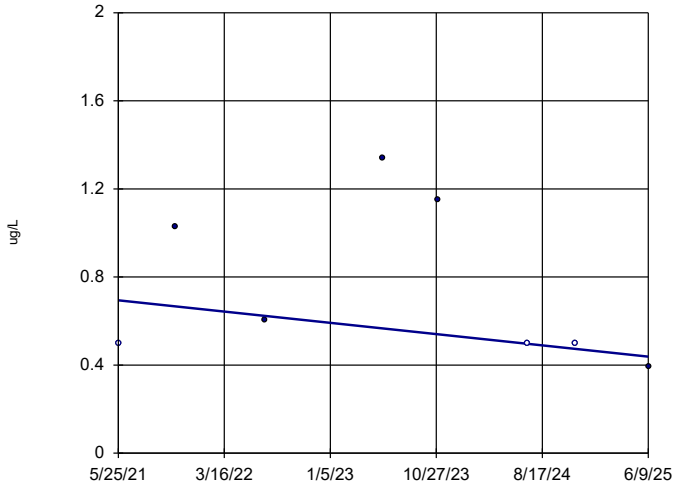
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Vanadium Analysis Run 8/11/2025 1:47 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1301



n = 8

Slope = -0.06331 units per year.

Mann-Kendall statistic = -9
critical = -21

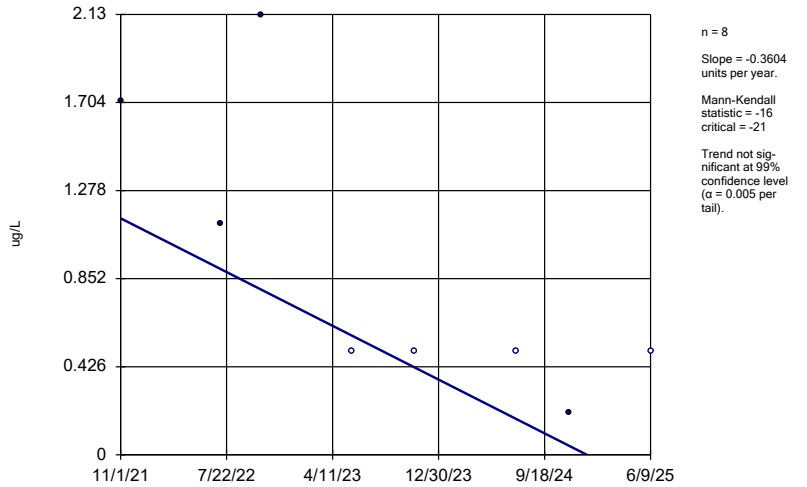
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Vinyl chloride Analysis Run 8/11/2025 1:47 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1305



n = 8

Slope = -0.3604 units per year.

Mann-Kendall statistic = -16
critical = -21

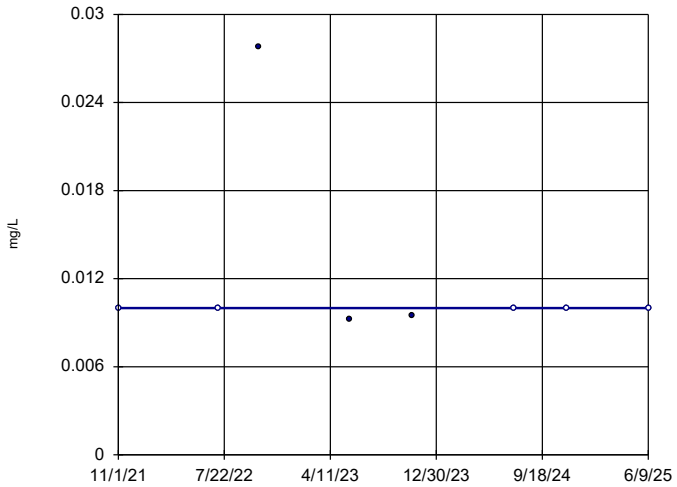
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Vinyl chloride Analysis Run 8/11/2025 1:47 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-901



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 21

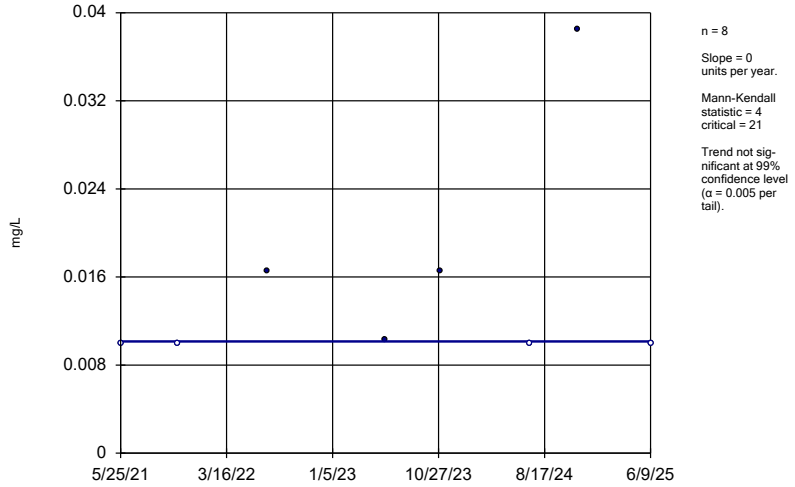
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Zinc Analysis Run 8/11/2025 1:47 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1005



n = 8

Slope = 0
units per year.

Mann-Kendall
statistic = 4
critical = 21

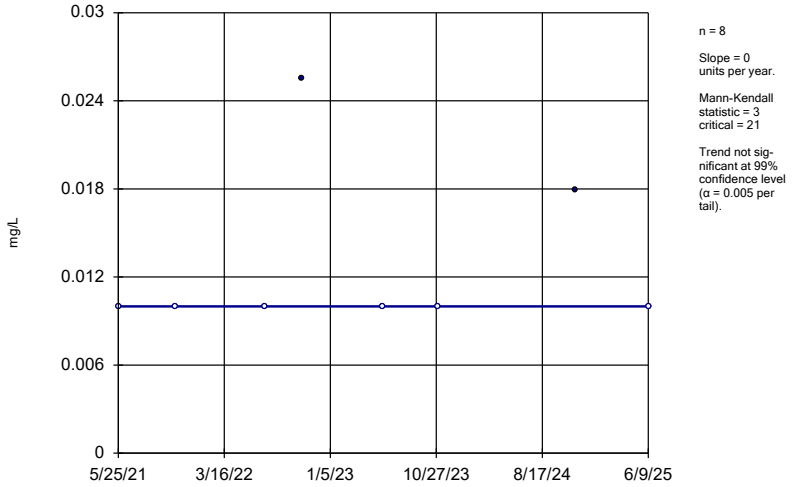
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Zinc Analysis Run 8/11/2025 1:47 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1101



n = 8

Slope = 0
units per year.

Mann-Kendall
statistic = 3
critical = 21

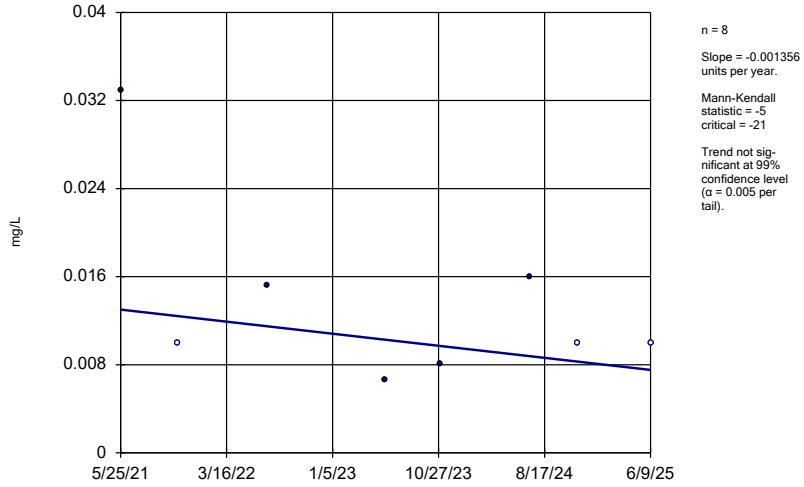
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Zinc Analysis Run 8/11/2025 1:47 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1301



n = 8

Slope = -0.001356
units per year.

Mann-Kendall
statistic = -5
critical = -21

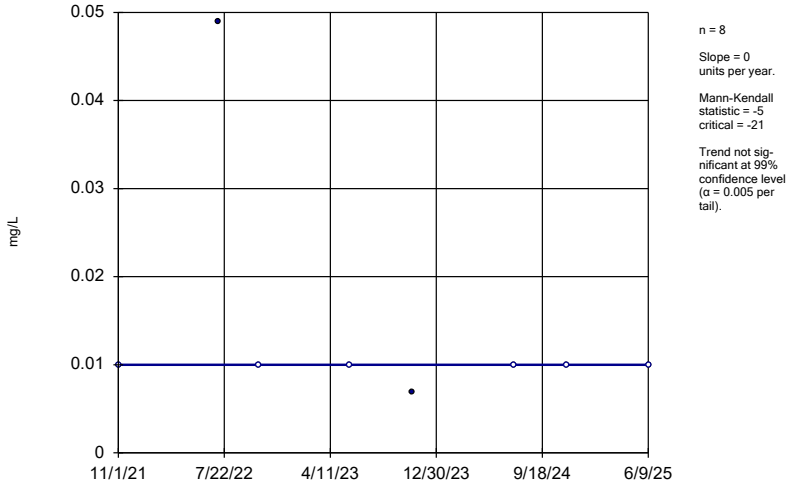
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Zinc Analysis Run 8/11/2025 1:47 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1401R



n = 8

Slope = 0
units per year.

Mann-Kendall
statistic = -5
critical = -21

Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Zinc Analysis Run 8/11/2025 1:47 PM View: 2025_SSN-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Confidence Interval Summary Table and Graphs

Confidence Interval

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM Printed 8/11/2025, 2:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
1,1-Dichloroethane (ug/L)	DG-1205	2.824	1.864	140	No	8	0	No	0.01	Param.
1,1-Dichloroethane (ug/L)	DG-1301	11.72	3.579	140	No	8	0	No	0.01	Param.
1,1-Dichloroethane (ug/L)	DG-1305	7.564	0.7758	140	No	8	0	No	0.01	Param.
1,1-Dichloroethane (ug/L)	DG-1401R	2.712	0.9044	140	No	8	0	No	0.01	Param.
1,2-Dichloropropane (ug/L)	DG-1205	1.146	0.7317	5	No	8	0	No	0.01	Param.
1,2-Dichloropropane (ug/L)	DG-1301	0.9897	0.5862	5	No	8	25	No	0.01	Param.
1,2-Dichloropropane (ug/L)	DG-1305	1.07	0.327	5	No	8	37.5	No	0.004	NP (normality)
1,4-Dichlorobenzene (ug/L)	DG-1305	1.17	0.3206	75	No	8	25	No	0.01	Param.
Acetone (ug/L)	DG-901	290	5	6300	No	8	87.5	No	0.004	NP (NDs)
Arsenic (mg/L)	DG-901	0.0147	0.00134	0.01	No	8	0	No	0.004	NP (normality)
Arsenic (mg/L)	DG-1005	0.00506	0.00104	0.01	No	8	0	No	0.004	NP (normality)
Arsenic (mg/L)	DG-1101	0.00308	0.000617	0.01	No	8	12.5	No	0.004	NP (normality)
Arsenic (mg/L)	DG-1205	0.003294	0.001921	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	DG-1305	0.003292	0.0005897	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	**DGP-1500**	**0.02372**	**0.01085**	**0.01**	**Yes**	**8**	**0**	**No**	**0.01**	**Param.**
Barium (mg/L)	DG-901	0.0713	0.0135	2	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	DG-905	0.04687	0.03208	2	No	8	0	No	0.01	Param.
Barium (mg/L)	DG-1005	0.07492	0.03301	2	No	8	0	No	0.01	Param.
Barium (mg/L)	DG-1101	0.0723	0.0304	2	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	DG-1201	0.02407	0.01841	2	No	8	0	No	0.01	Param.
Barium (mg/L)	DG-1205	0.01645	0.01147	2	No	8	0	No	0.01	Param.
Barium (mg/L)	DG-1301	0.04597	0.03521	2	No	8	0	No	0.01	Param.
Barium (mg/L)	DG-1305	0.1142	0.06537	2	No	8	0	No	0.01	Param.
Barium (mg/L)	DG-1401R	0.04812	0.03845	2	No	8	0	No	0.01	Param.
Barium (mg/L)	DGP-1500	0.05754	0.03801	2	No	8	0	No	0.01	Param.
Benzene (ug/L)	DG-901	1.19	0.25	5	No	8	87.5	No	0.004	NP (NDs)
Benzene (ug/L)	DGP-1500	1.11	0.4365	5	No	8	37.5	No	0.01	Param.
Bis[2-ethylhexyl]phthalate (ug/L)	DG-1301	124	4.715	6	No	8	62.5	No	0.004	NP (NDs)
Bis[2-ethylhexyl]phthalate (ug/L)	DGP-1500	10.1	3.48	6	No	8	62.5	No	0.004	NP (NDs)
Cadmium (mg/L)	DG-901	0.000301	0.00005	0.005	No	8	62.5	No	0.004	NP (NDs)
Cadmium (mg/L)	DG-1005	0.000327	0.00005	0.005	No	8	62.5	No	0.004	NP (NDs)
Cadmium (mg/L)	DG-1101	0.000125	0.00005	0.005	No	8	62.5	No	0.004	NP (NDs)
Cadmium (mg/L)	DG-1201	0.000103	0.00005	0.005	No	8	87.5	No	0.004	NP (NDs)
Cadmium (mg/L)	DG-1301	0.000104	0.00005	0.005	No	8	87.5	No	0.004	NP (NDs)
Cadmium (mg/L)	DG-1401R	0.000125	0.00005	0.005	No	8	75	No	0.004	NP (NDs)
Chlorobenzene (ug/L)	DG-1305	9.318	0	100	No	8	12.5	No	0.01	Param.
Chloromethane (ug/L)	DG-1205	3.63	1.5	3	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	DG-1005	0.013	0.00182	0.1	No	8	50	No	0.004	NP (normality)
Chromium (mg/L)	DG-1101	0.004811	0.001398	0.1	No	8	50	No	0.01	Param.
cis-1,2-Dichloroethene (ug/L)	DG-1301	31.43	4.633	70	No	8	0	No	0.01	Param.
cis-1,2-Dichloroethene (ug/L)	DG-1305	4.319	0.1373	70	No	8	0	No	0.01	Param.
Cobalt (mg/L)	DG-901	0.00772	0.000265	0.0021	No	8	0	No	0.004	NP (normality)
Cobalt (mg/L)	DG-905	0.00158	0.000225	0.0021	No	8	0	No	0.004	NP (normality)
Cobalt (mg/L)	DG-1005	0.0048	0.000294	0.0021	No	8	0	No	0.004	NP (normality)
Cobalt (mg/L)	DG-1101	0.001805	0.0002158	0.0021	No	8	0	No	0.01	Param.
Cobalt (mg/L)	DG-1201	0.0006297	0.0003121	0.0021	No	8	0	No	0.01	Param.
Cobalt (mg/L)	DG-1205	0.0005404	0.0002751	0.0021	No	8	0	No	0.01	Param.
Cobalt (mg/L)	DG-1301	0.0005972	0.000345	0.0021	No	8	0	No	0.01	Param.
Cobalt (mg/L)	DG-1305	0.0005066	0.0002664	0.0021	No	8	37.5	No	0.01	Param.
Cobalt (mg/L)	DG-1401R	0.0007848	0.0001695	0.0021	No	8	0	No	0.01	Param.

Confidence Interval

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM Printed 8/11/2025, 2:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Cobalt (mg/L)	DGP-1500	0.0008831	0.0001201	0.0021	No	8	37.5	No	0.01	Param.
Copper (mg/L)	DG-901	0.0146	0.0025	1.3	No	8	12.5	No	0.004	NP (normality)
Copper (mg/L)	DG-1005	0.008222	0.001245	1.3	No	8	37.5	No	0.01	Param.
Copper (mg/L)	DG-1101	0.00789	0.00205	1.3	No	8	25	No	0.004	NP (normality)
Copper (mg/L)	DG-1205	0.00565	0.00184	1.3	No	8	62.5	No	0.004	NP (NDs)
Copper (mg/L)	DG-1301	0.008182	0.001728	1.3	No	8	0	No	0.01	Param.
Copper (mg/L)	DG-1401R	0.0398	0.0025	1.3	No	8	12.5	No	0.004	NP (normality)
Copper (mg/L)	DGP-1500	0.005305	0.0025	1.3	No	8	37.5	No	0.01	Param.
Dichlorodifluoromethane (ug/L)	DG-1205	5.888	4.117	1000	No	8	0	No	0.01	Param.
Lead (mg/L)	DG-901	0.00397	0.00025	0.015	No	8	12.5	No	0.004	NP (normality)
Lead (mg/L)	DG-905	0.000613	0.0004825	0.015	No	8	50	No	0.01	Param.
Lead (mg/L)	DG-1005	0.003158	0	0.015	No	8	0	No	0.01	Param.
Lead (mg/L)	DG-1101	0.00812	0.000941	0.015	No	8	0	No	0.004	NP (normality)
Lead (mg/L)	DG-1201	0.001669	0.0005166	0.015	No	8	0	No	0.01	Param.
Lead (mg/L)	DG-1205	0.001056	0.0001665	0.015	No	8	12.5	No	0.01	Param.
Lead (mg/L)	DG-1301	0.0109	0.000399	0.015	No	8	0	No	0.004	NP (normality)
Lead (mg/L)	DG-1305	0.001684	0.0001511	0.015	No	8	12.5	No	0.01	Param.
Lead (mg/L)	DG-1401R	0.00291	0.000465	0.015	No	8	0	No	0.004	NP (normality)
Lead (mg/L)	DGP-1500	0.001358	0.00009794	0.015	No	8	37.5	No	0.01	Param.
Nickel (mg/L)	DG-901	0.00814	0.00204	0.1	No	8	37.5	No	0.004	NP (normality)
Nickel (mg/L)	DG-1005	0.0102	0.0025	0.1	No	8	37.5	No	0.004	NP (normality)
Nickel (mg/L)	DG-1101	0.0107	0.00228	0.1	No	8	25	No	0.004	NP (normality)
Nickel (mg/L)	DG-1205	0.004336	0.002432	0.1	No	8	12.5	No	0.01	Param.
Nickel (mg/L)	DG-1301	0.01129	0.003139	0.1	No	8	12.5	No	0.01	Param.
Nickel (mg/L)	DG-1401R	0.0163	0.00216	0.1	No	8	25	No	0.004	NP (normality)
Selenium (mg/L)	DG-1005	0.00427	0.00183	0.05	No	8	50	No	0.004	NP (normality)
Selenium (mg/L)	DGP-1500	0.0231	0.00154	0.05	No	8	25	No	0.004	NP (normality)
Silver (mg/L)	DG-901	0.00153	0.0005	0.1	No	8	87.5	No	0.004	NP (NDs)
Sulfide (mg/L)	DGP-1500	5.64	0.5	1	No	4	75	No	0.0625	NP (NDs)
Tetrachloroethene (ug/L)	DG-1301	1.406	0.6505	5	No	8	0	No	0.01	Param.
Thallium (mg/L)	DG-901	0.00381	0.0005	0.0104	No	8	87.5	No	0.004	NP (NDs)
Thallium (mg/L)	DG-1201	0.00166	0.0005	0.0104	No	8	87.5	No	0.004	NP (NDs)
Toluene (ug/L)	DGP-1500	1.85	0.5	1000	No	8	75	No	0.004	NP (NDs)
trans-1,2-Dichloroethene (ug/L)	DG-1301	1.095	0.4661	100	No	8	25	No	0.01	Param.
Trichloroethene (ug/L)	DG-1301	8.67	3.302	5	No	8	0	No	0.01	Param.
Vanadium (mg/L)	DG-1005	0.037	0.00158	0.035	No	8	0	No	0.004	NP (normality)
Vanadium (mg/L)	DG-1101	0.0108	0.00185	0.035	No	8	0	No	0.004	NP (normality)
Vanadium (mg/L)	DG-1205	0.005495	0.001277	0.035	No	8	12.5	No	0.01	Param.
Vanadium (mg/L)	DG-1401R	0.004461	0.001516	0.035	No	8	25	No	0.01	Param.
Vinyl chloride (ug/L)	DG-1301	1.119	0.3854	2	No	8	37.5	No	0.01	Param.
Vinyl chloride (ug/L)	DG-1305	1.539	0	2	No	8	50	No	0.01	Param.
Zinc (mg/L)	DG-901	0.0278	0.0092	2	No	8	62.5	No	0.004	NP (NDs)
Zinc (mg/L)	DG-1005	0.0385	0.01	2	No	8	50	No	0.004	NP (normality)
Zinc (mg/L)	DG-1101	0.0255	0.01	2	No	8	75	No	0.004	NP (NDs)
Zinc (mg/L)	DG-1301	0.0329	0.00667	2	No	8	37.5	No	0.004	NP (normality)
Zinc (mg/L)	DG-1401R	0.0489	0.00696	2	No	8	75	No	0.004	NP (NDs)

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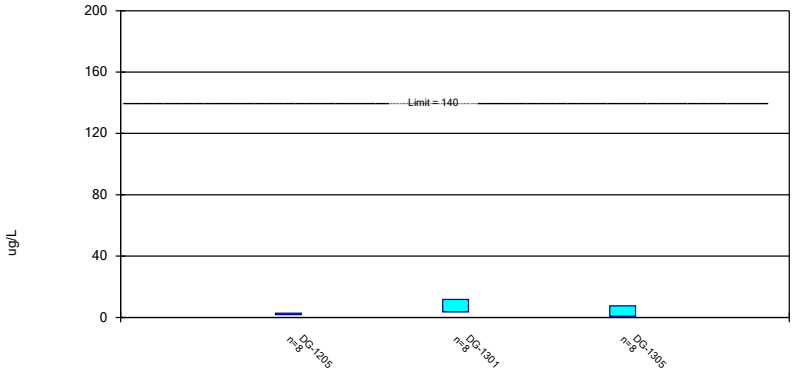
Parametric Confidence Interval

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



Constituent: 1,1-Dichloroethane Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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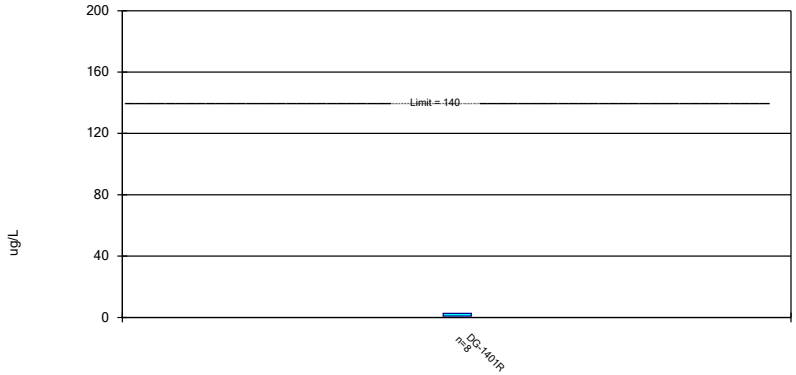
Parametric Confidence Interval

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



Constituent: 1,1-Dichloroethane Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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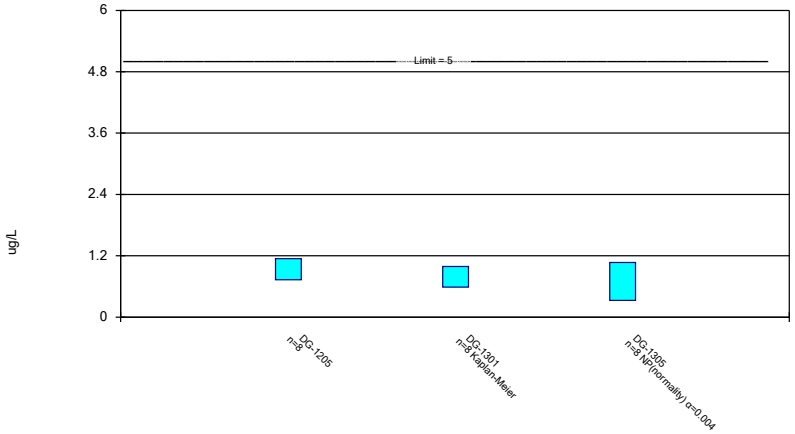
Parametric and Non-Parametric (NP) Confidence Interval

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



Constituent: 1,2-Dichloropropane Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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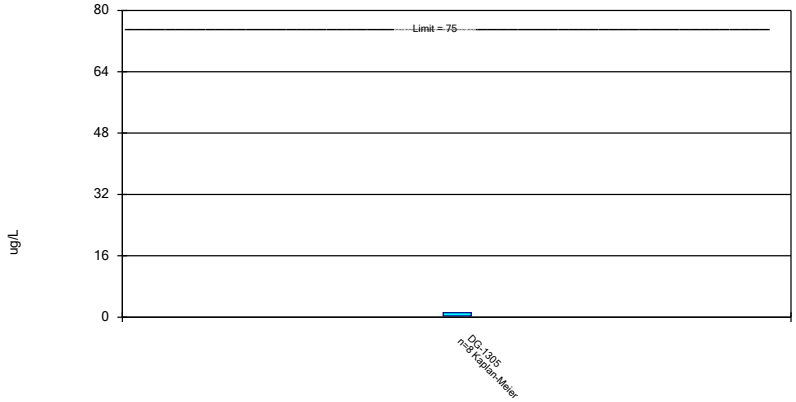
Parametric Confidence Interval

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



Constituent: 1,4-Dichlorobenzene Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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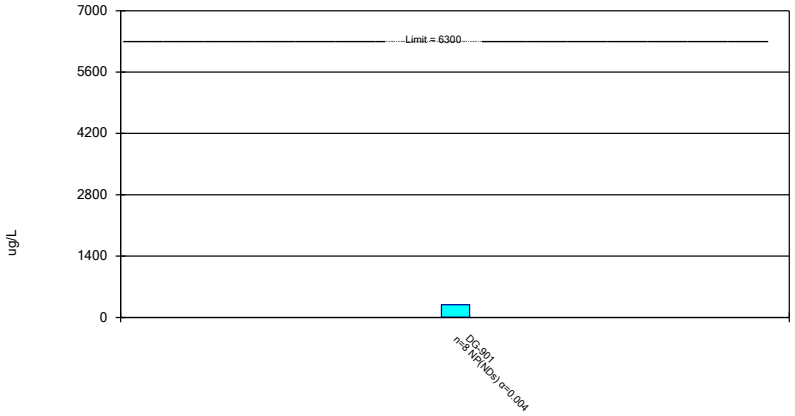
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Acetone Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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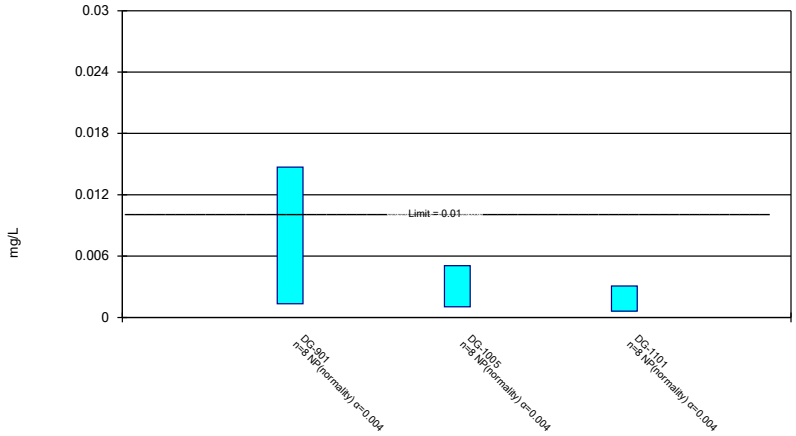
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Arsenic Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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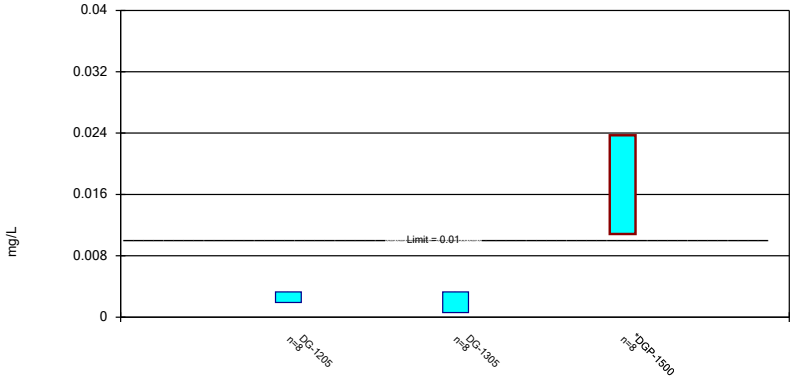
Parametric Confidence Interval

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



Constituent: Arsenic Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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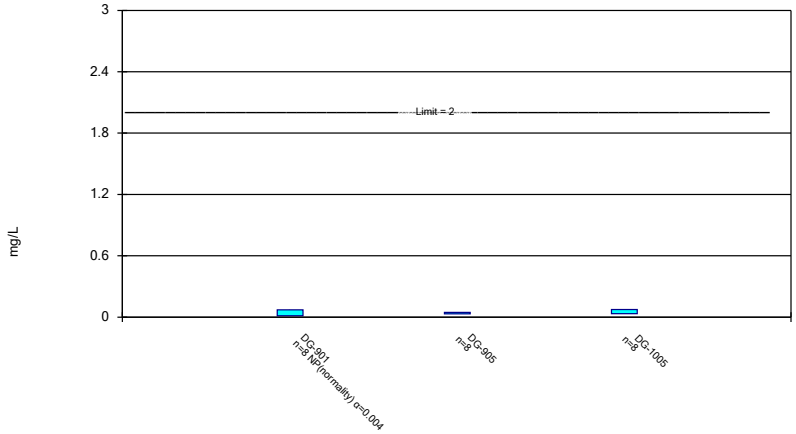
Parametric and Non-Parametric (NP) Confidence Interval

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



Constituent: Barium Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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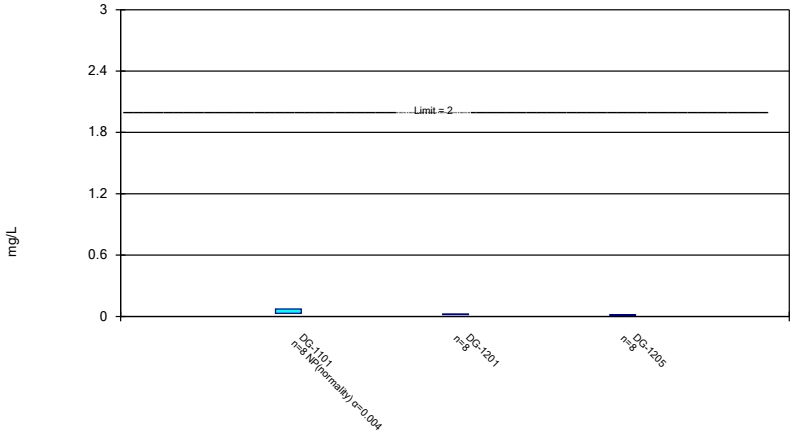
Parametric and Non-Parametric (NP) Confidence Interval

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



Constituent: Barium Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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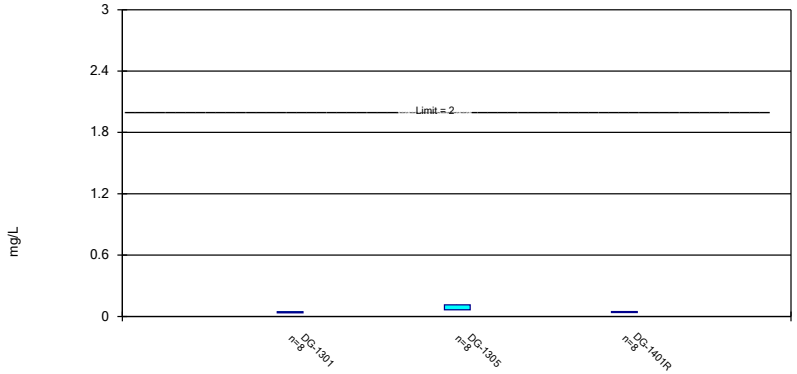
Parametric Confidence Interval

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



Constituent: Barium Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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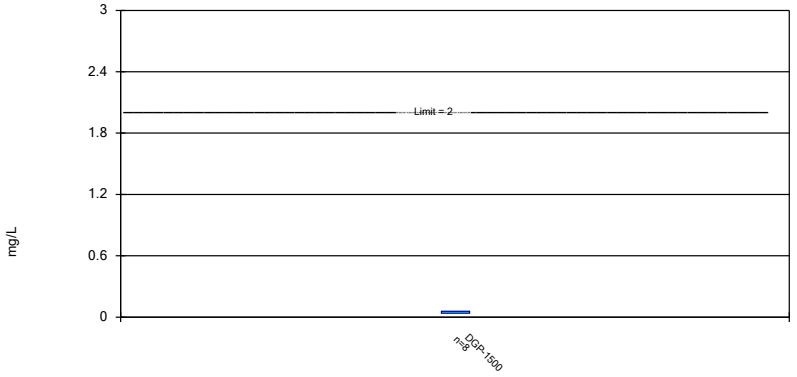
Parametric Confidence Interval

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



Constituent: Barium Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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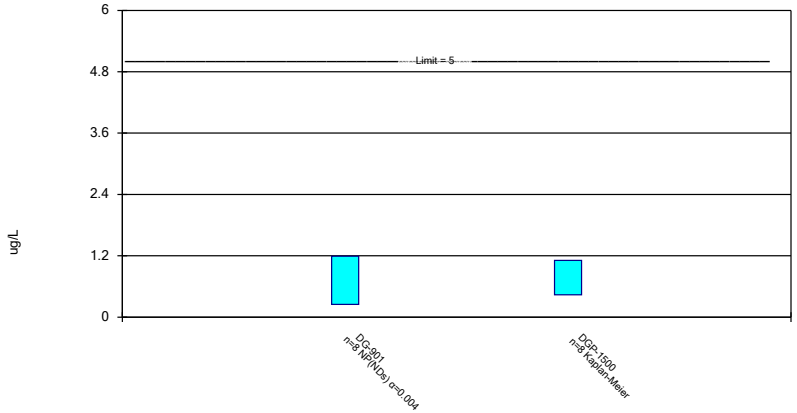
Parametric and Non-Parametric (NP) Confidence Interval

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



Constituent: Benzene Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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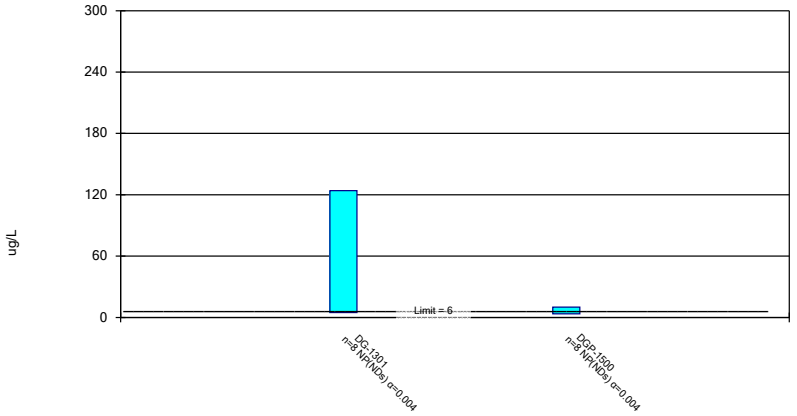
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Int
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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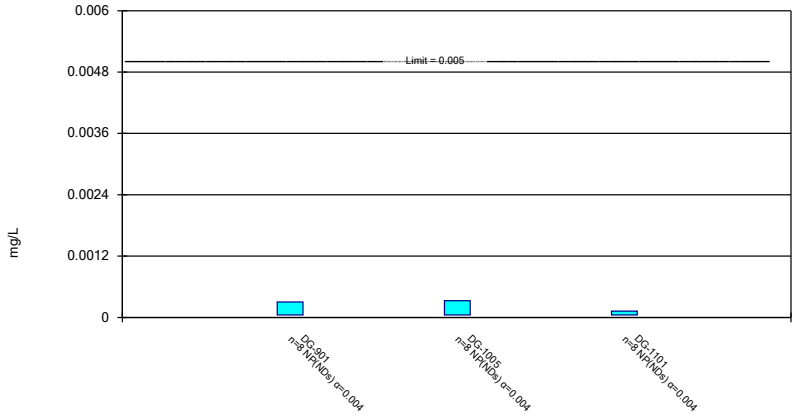
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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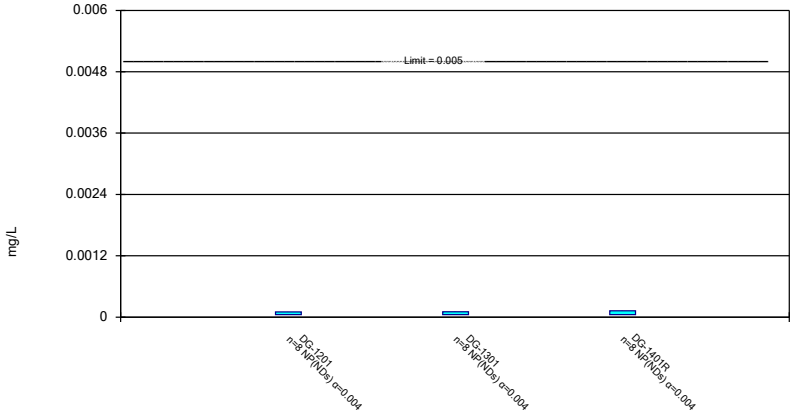
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

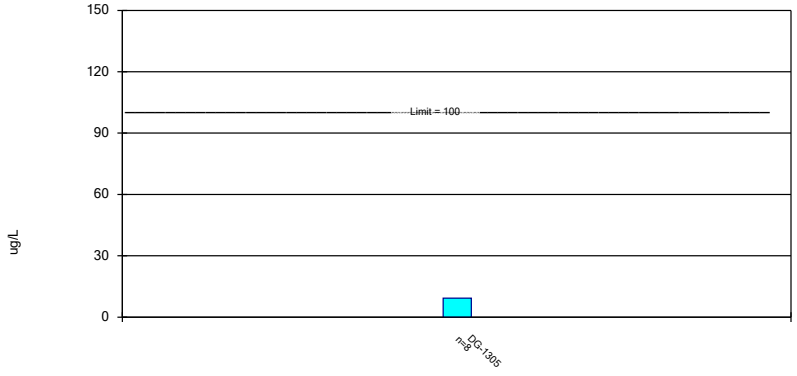


Constituent: Cadmium Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Parametric Confidence Interval

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

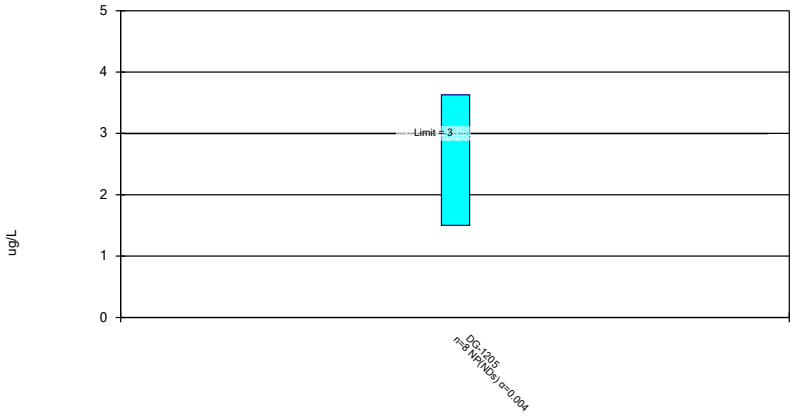


Constituent: Chlorobenzene Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

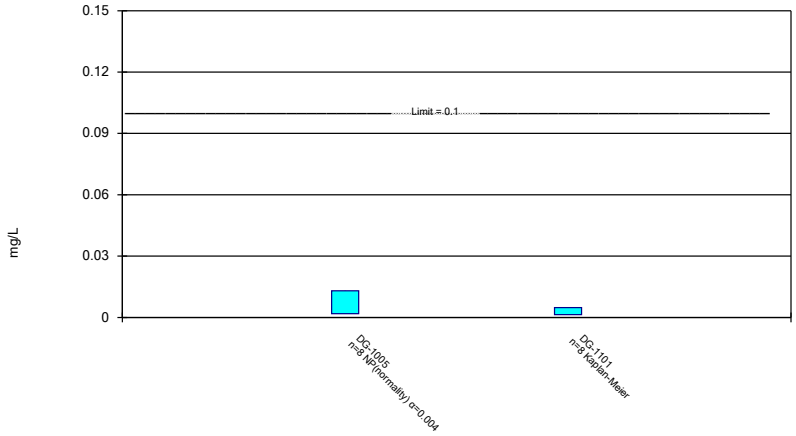


Constituent: Chloromethane Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

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.

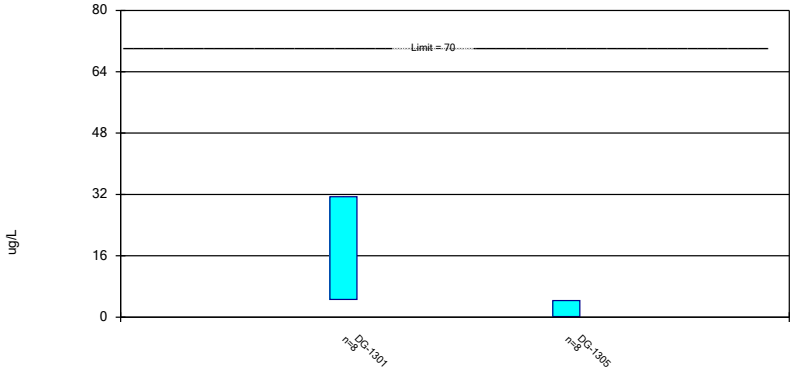


Constituent: Chromium Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Parametric Confidence Interval

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



Constituent: cis-1,2-Dichloroethene Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interv
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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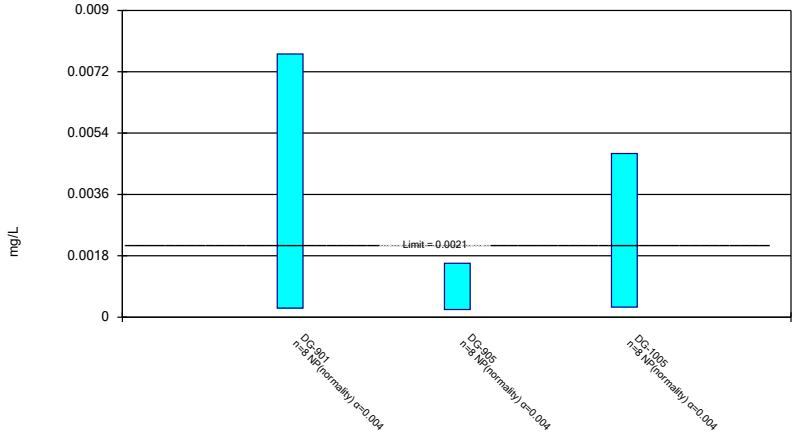
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

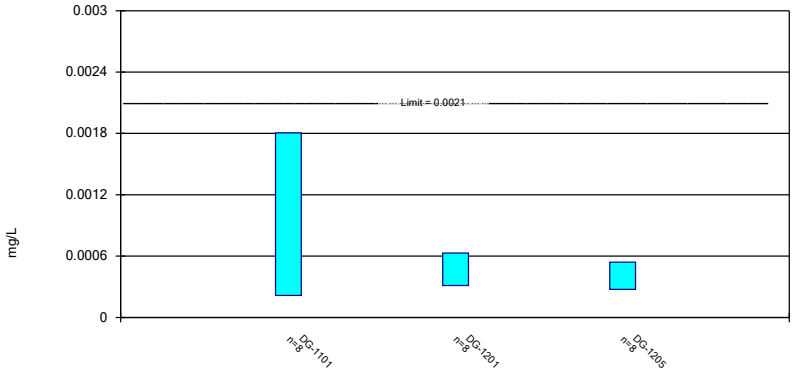


Constituent: Cobalt Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Parametric Confidence Interval

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



Constituent: Cobalt Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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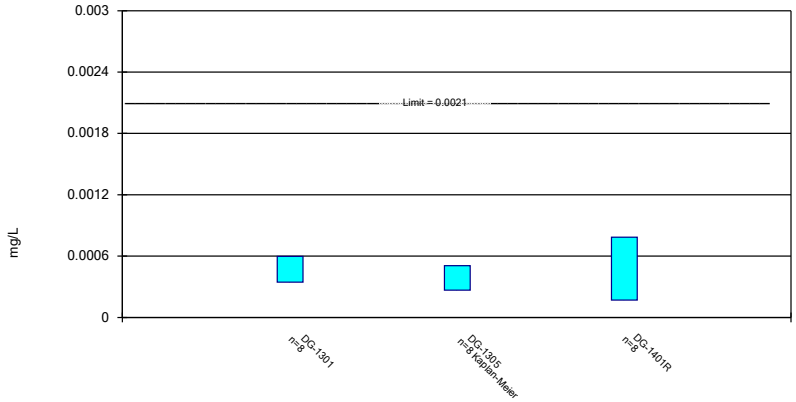
Parametric Confidence Interval

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

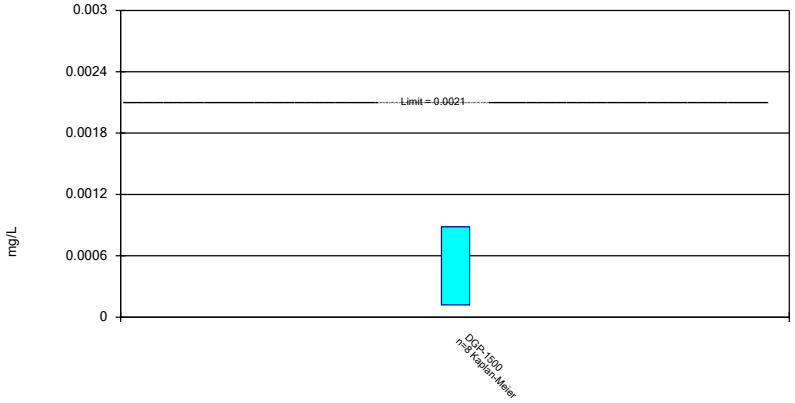


Constituent: Cobalt Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Parametric Confidence Interval

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



Constituent: Cobalt Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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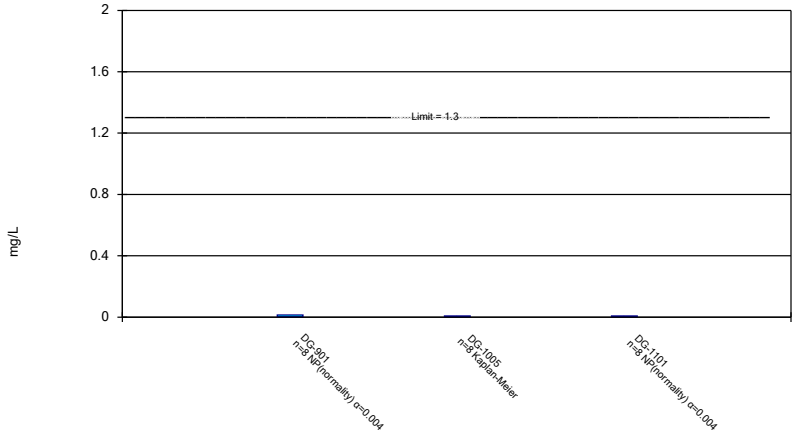
Parametric and Non-Parametric (NP) Confidence Interval

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



Constituent: Copper Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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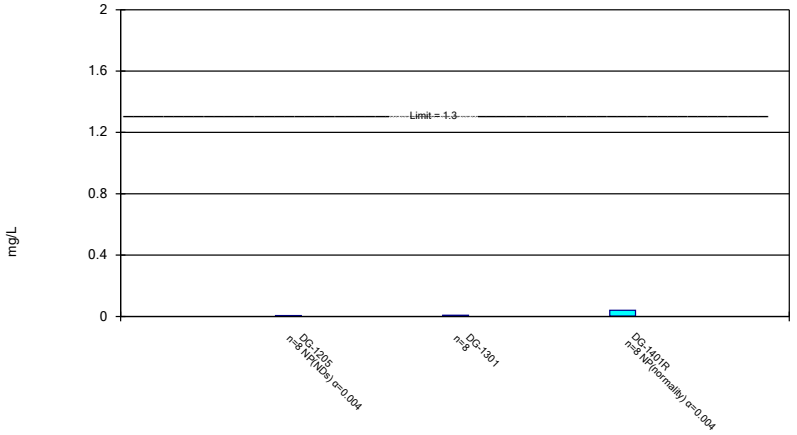
Parametric and Non-Parametric (NP) Confidence Interval

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



Constituent: Copper Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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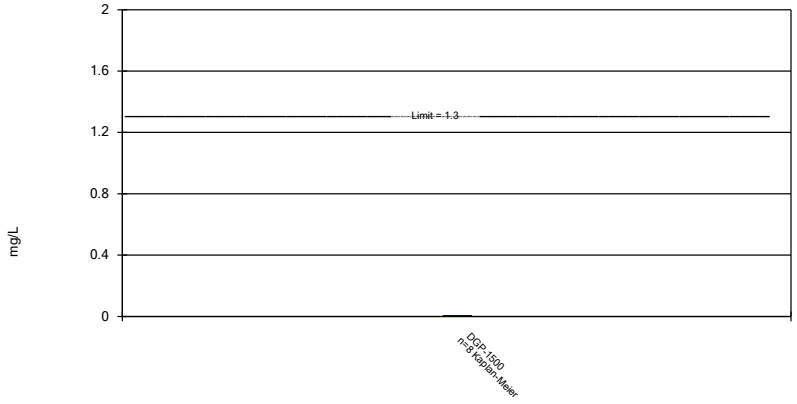
Parametric Confidence Interval

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



Constituent: Copper Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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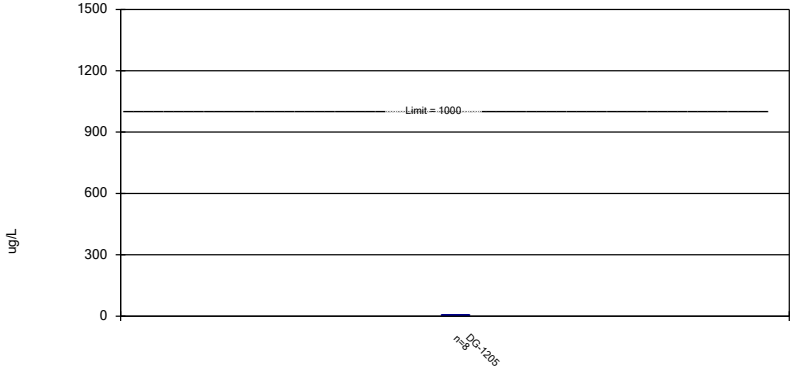
Parametric Confidence Interval

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



Constituent: Dichlorodifluoromethane Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Inte
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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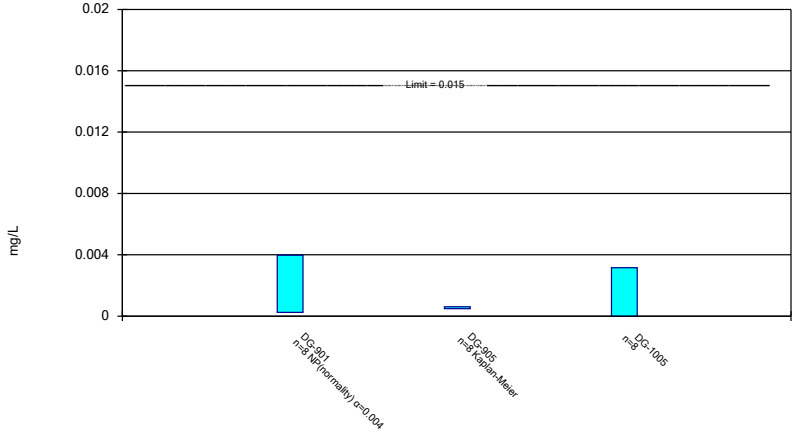
Parametric and Non-Parametric (NP) Confidence Interval

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



Constituent: Lead Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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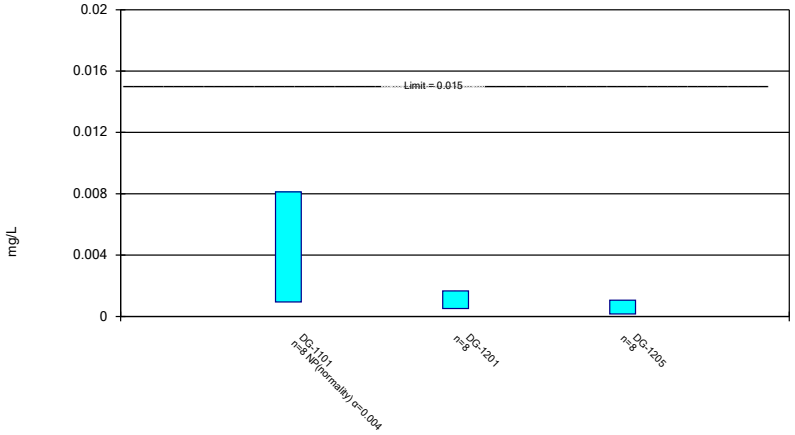
Parametric and Non-Parametric (NP) Confidence Interval

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

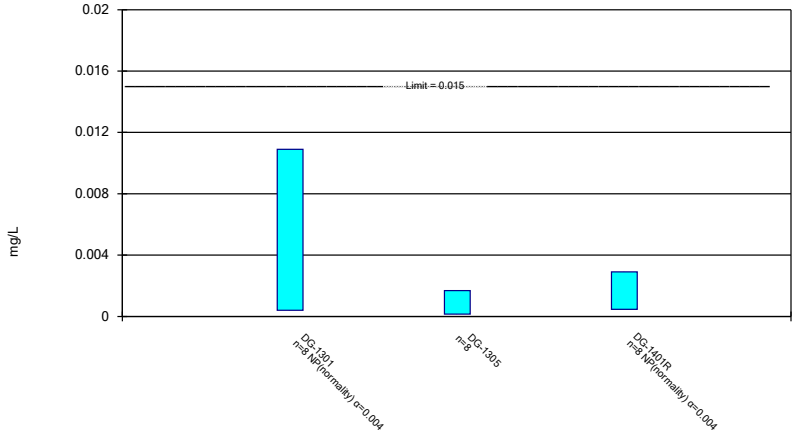


Constituent: Lead Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

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: Lead Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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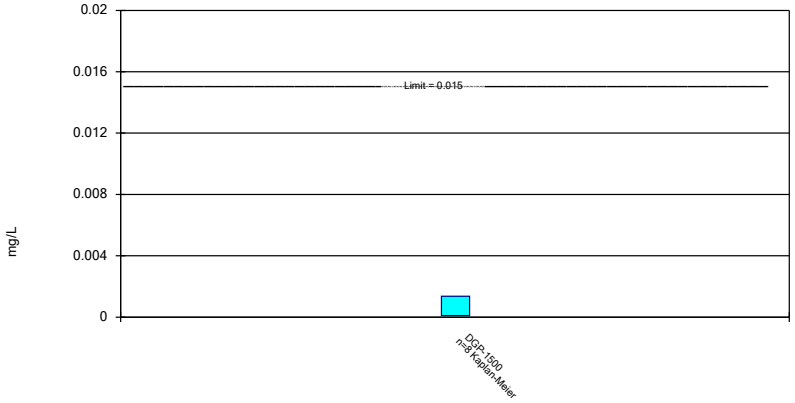
Parametric Confidence Interval

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



Constituent: Lead Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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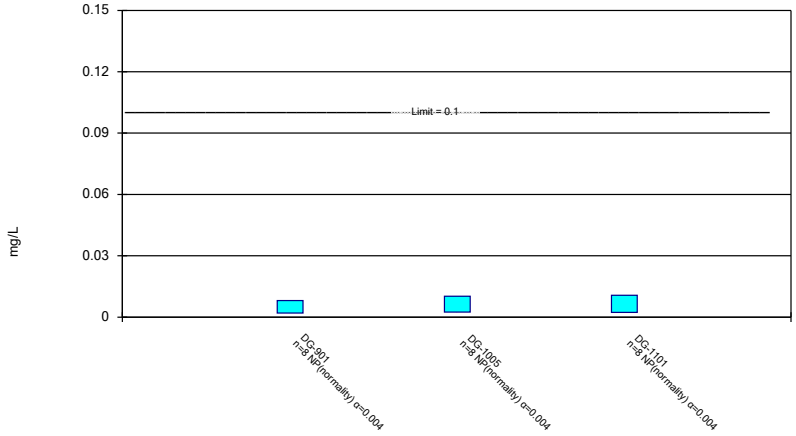
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Nickel Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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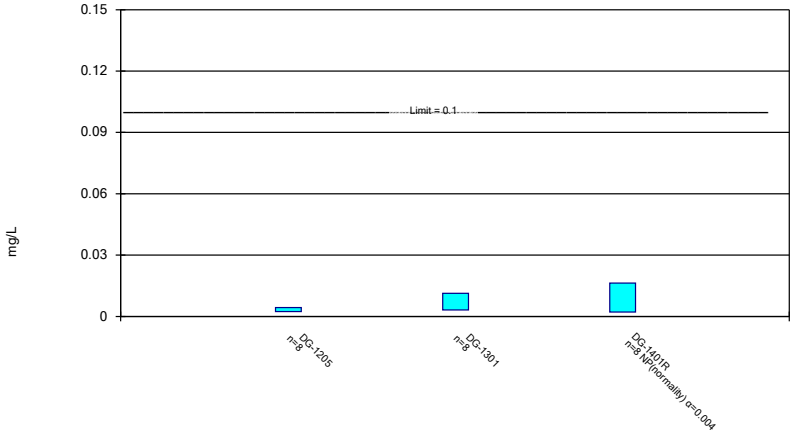
Parametric and Non-Parametric (NP) Confidence Interval

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



Constituent: Nickel Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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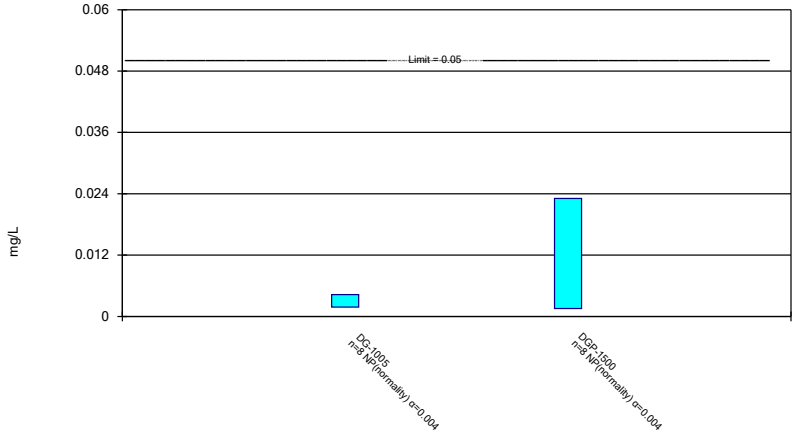
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Selenium Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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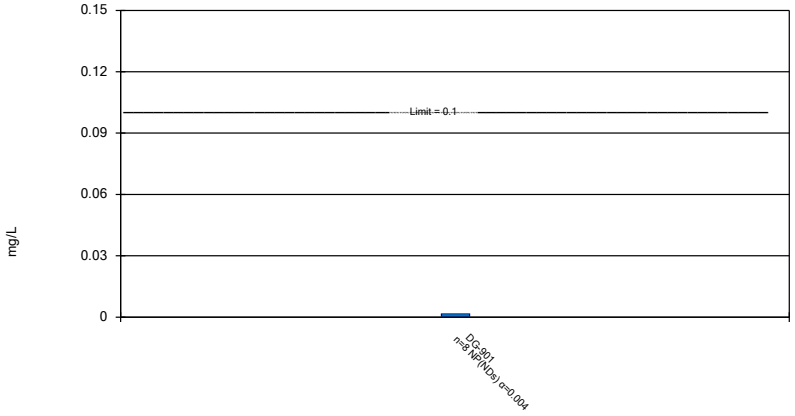
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Silver Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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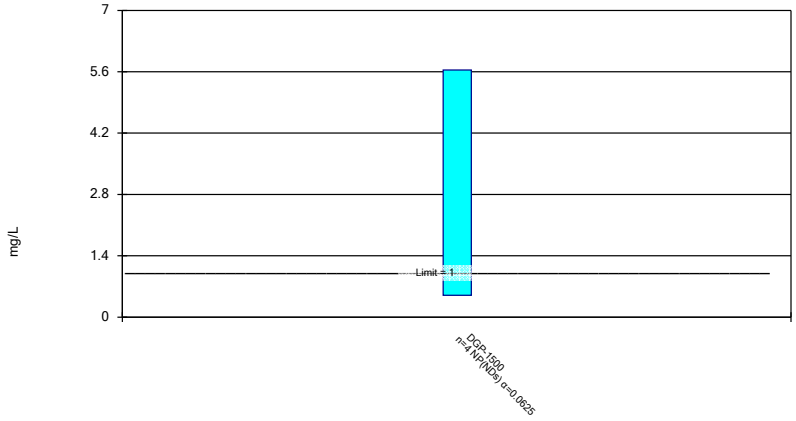
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Sulfide Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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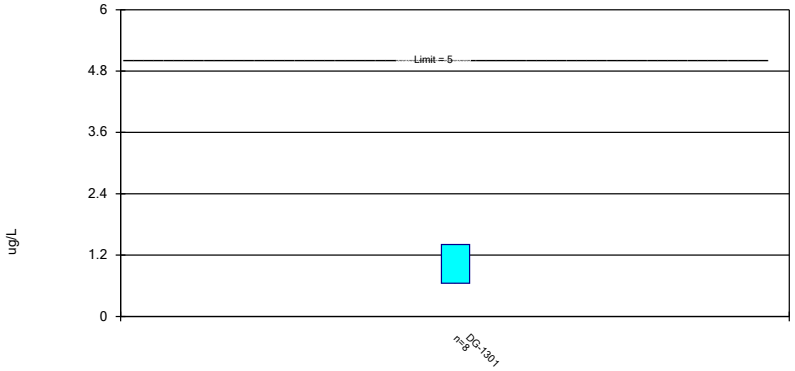
Parametric Confidence Interval

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



Constituent: Tetrachloroethene Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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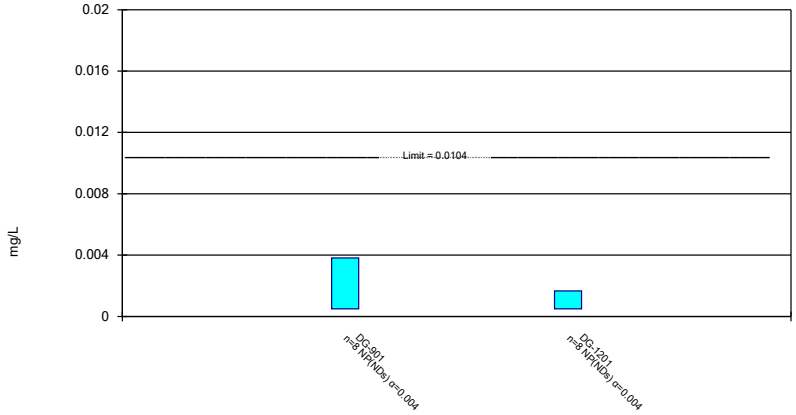
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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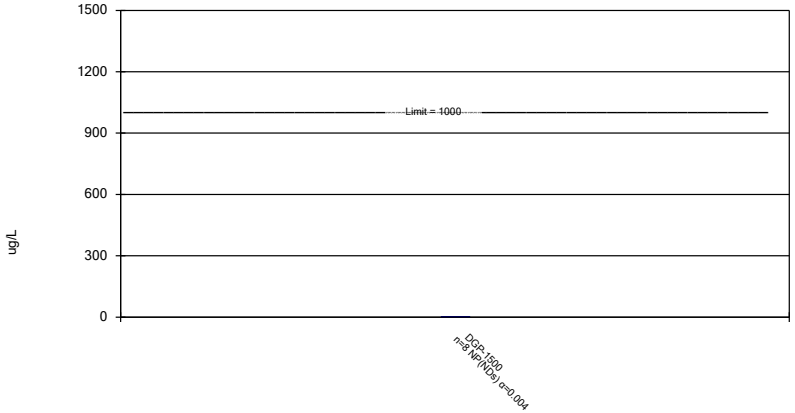
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Toluene Analysis Run 8/11/2025 2:27 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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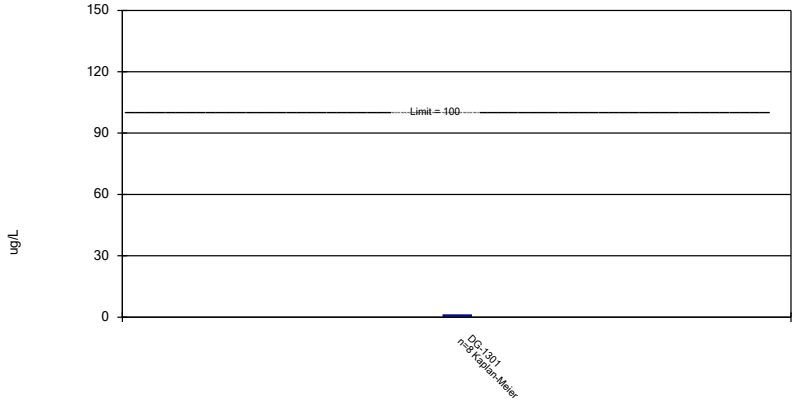
Parametric Confidence Interval

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



Constituent: trans-1,2-Dichloroethene Analysis Run 8/11/2025 2:28 PM View: 2025_SSN-Confidence_Inte
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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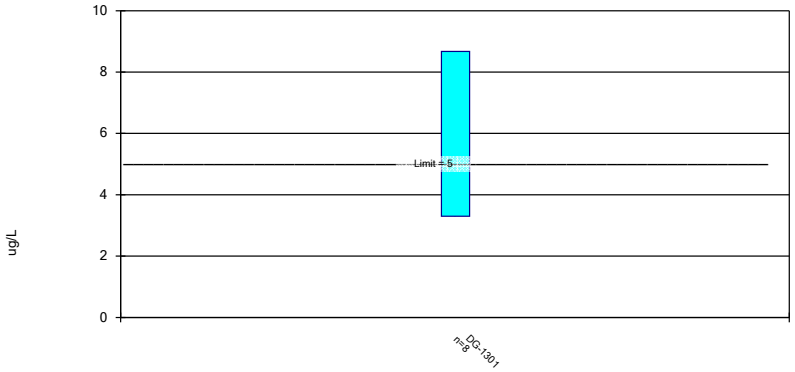
Parametric Confidence Interval

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



Constituent: Trichloroethene Analysis Run 8/11/2025 2:28 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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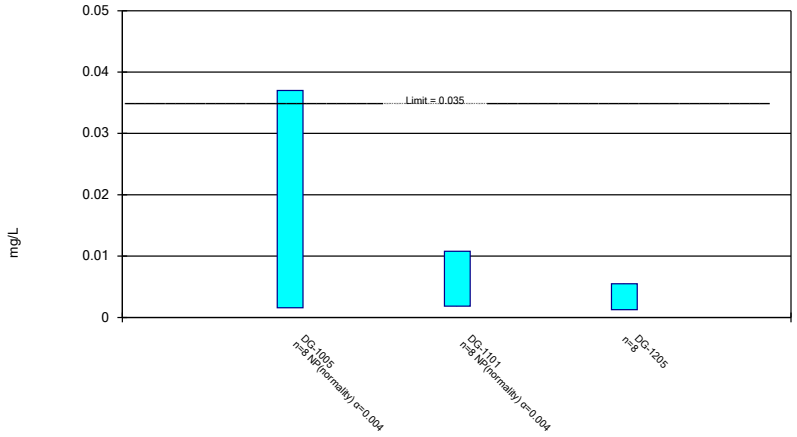
Parametric and Non-Parametric (NP) Confidence Interval

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



Constituent: Vanadium Analysis Run 8/11/2025 2:28 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

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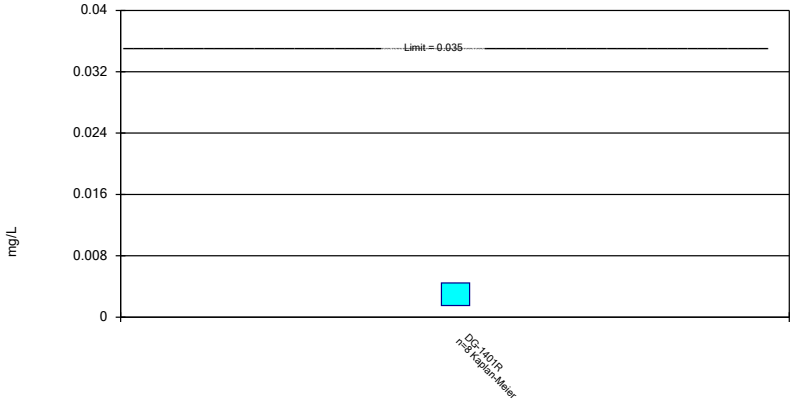
Parametric Confidence Interval

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

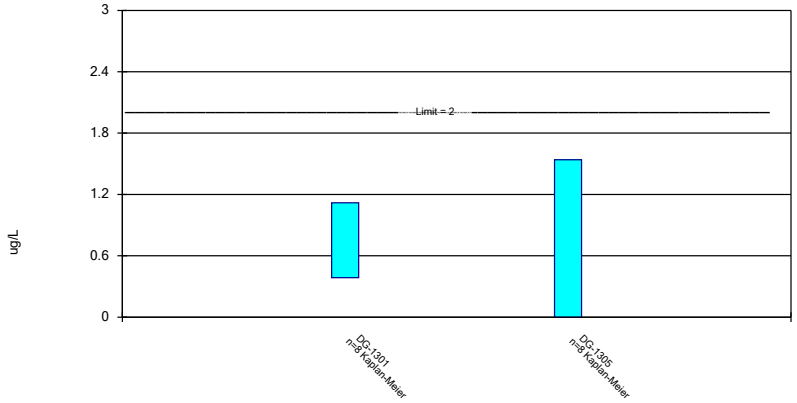


Constituent: Vanadium Analysis Run 8/11/2025 2:28 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Parametric Confidence Interval

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

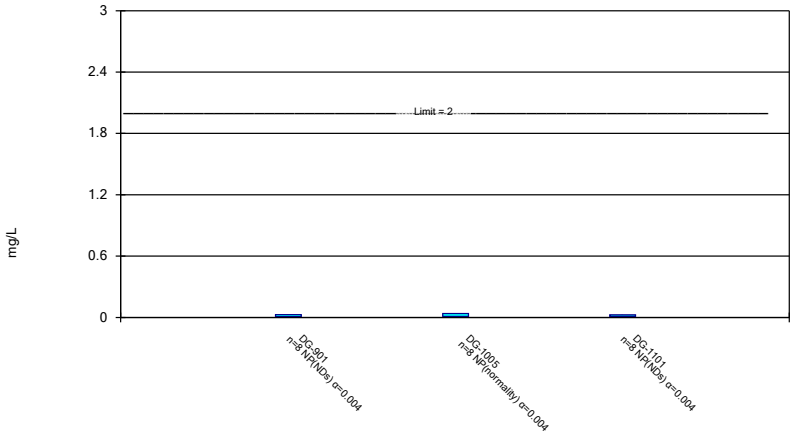


Constituent: Vinyl chloride Analysis Run 8/11/2025 2:28 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

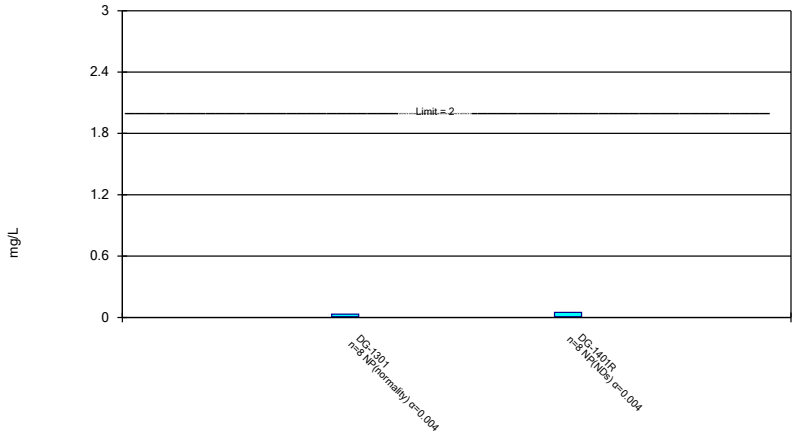


Constituent: Zinc Analysis Run 8/11/2025 2:28 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



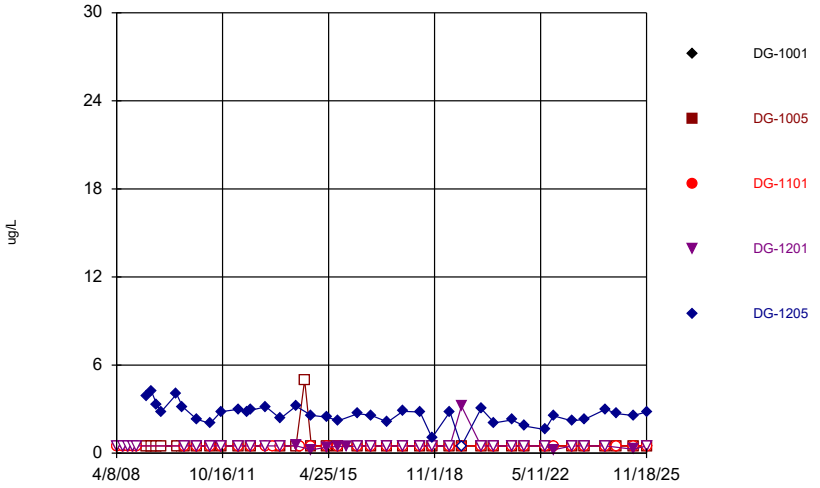
Constituent: Zinc Analysis Run 8/11/2025 2:28 PM View: 2025_SSN-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_2025_SSN-AM

Attachment B
2nd 2025 Statistical Evaluation Output

Time Series Plots

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

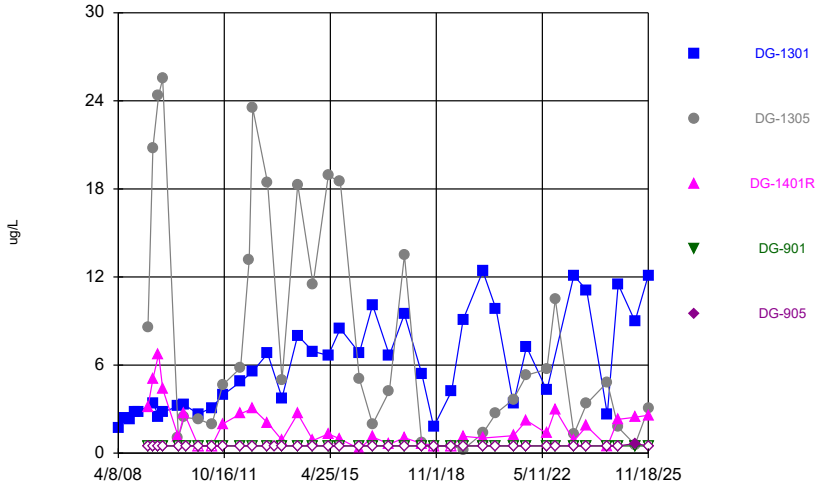
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 1/5/2026 10:50 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

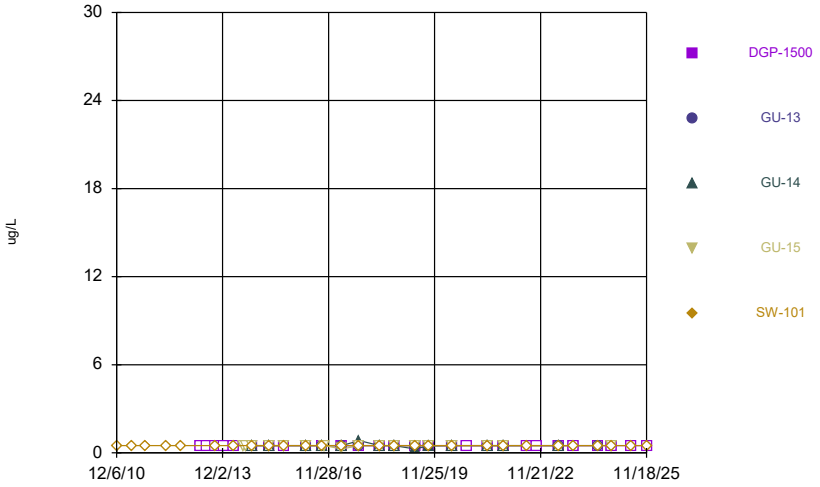
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 1/5/2026 10:50 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

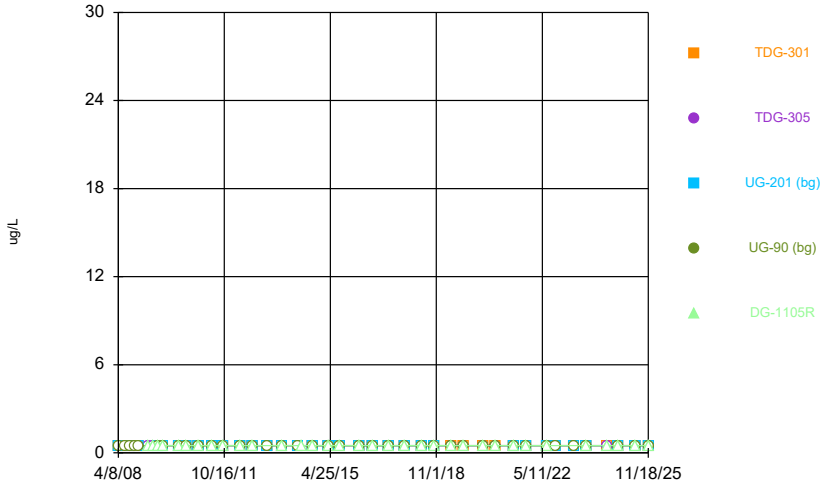
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 1/5/2026 10:50 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

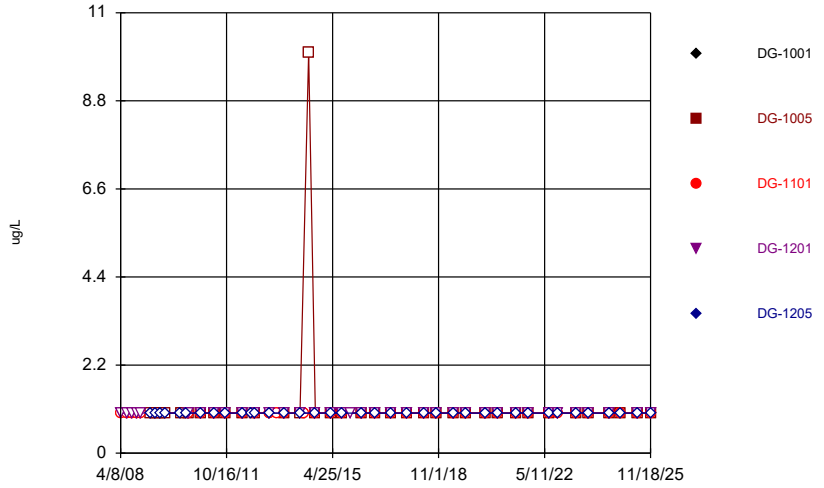
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 1/5/2026 10:50 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

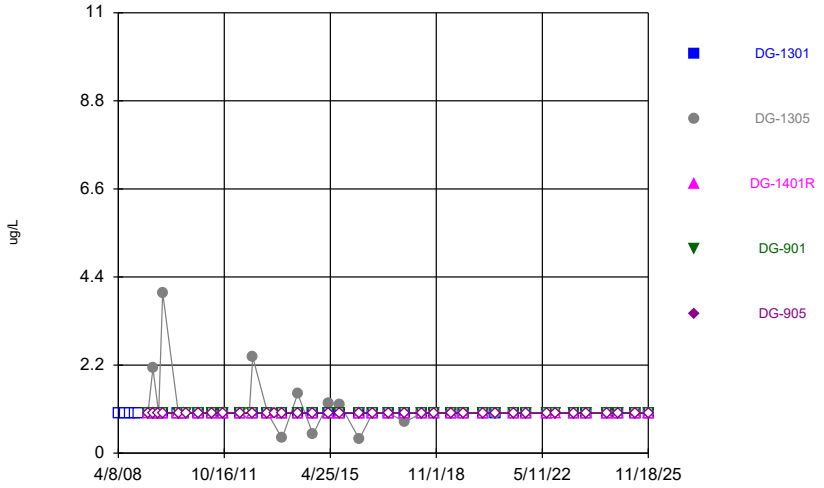
Time Series



Constituent: 1,1-Dichloroethene Analysis Run 1/5/2026 10:50 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

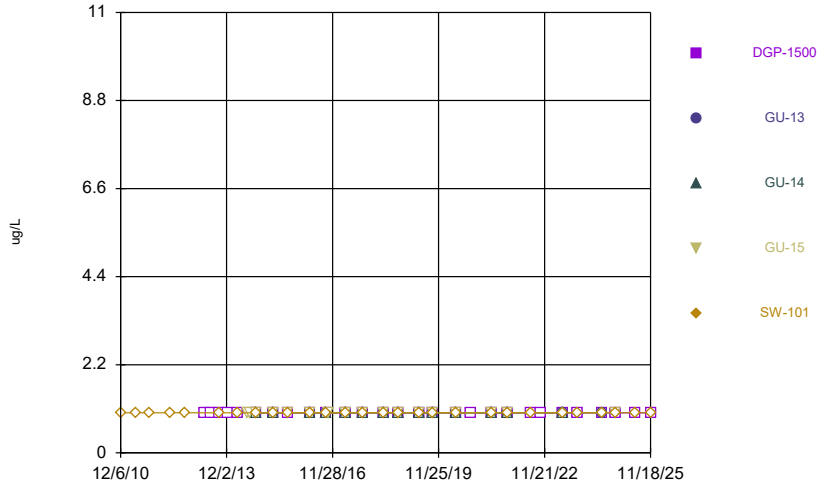
Time Series



Constituent: 1,1-Dichloroethene Analysis Run 1/5/2026 10:50 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

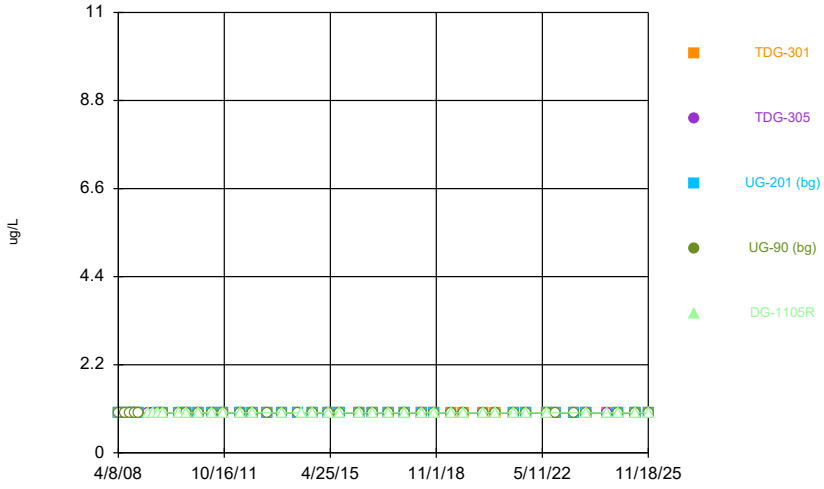
Time Series



Constituent: 1,1-Dichloroethene Analysis Run 1/5/2026 10:50 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

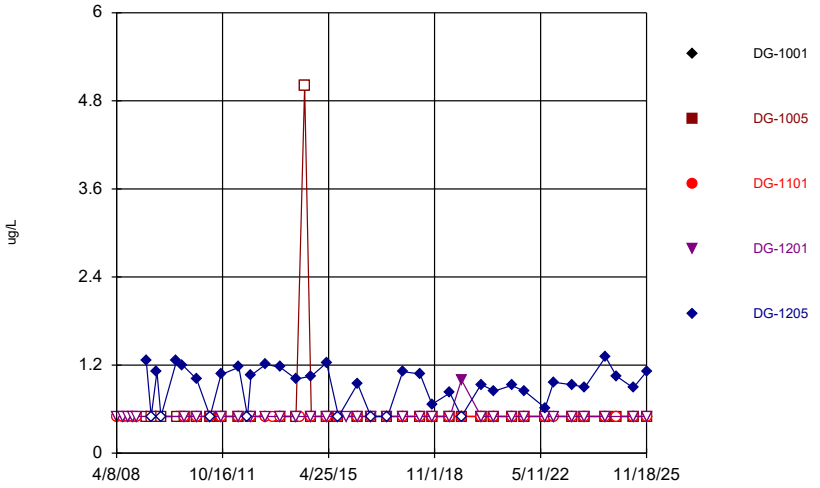
Time Series



Constituent: 1,1-Dichloroethene Analysis Run 1/5/2026 10:50 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

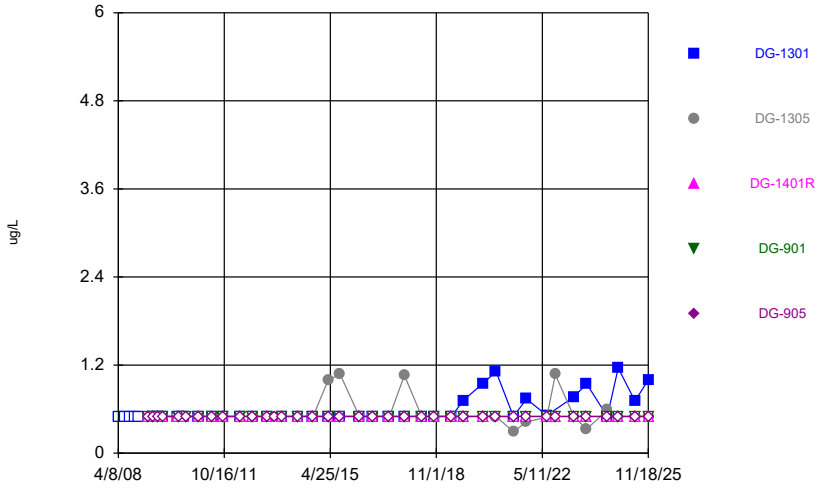
Time Series



Constituent: 1,2-Dichloropropane Analysis Run 1/5/2026 10:50 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: 1,2-Dichloropropane Analysis Run 1/5/2026 10:50 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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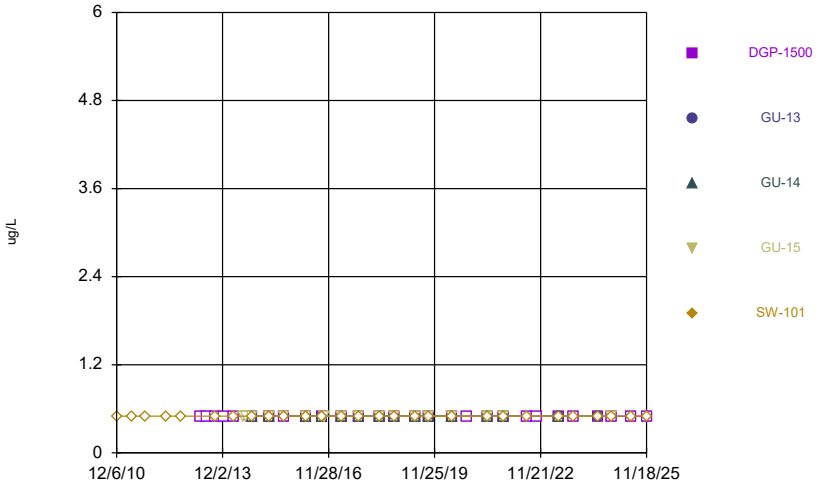
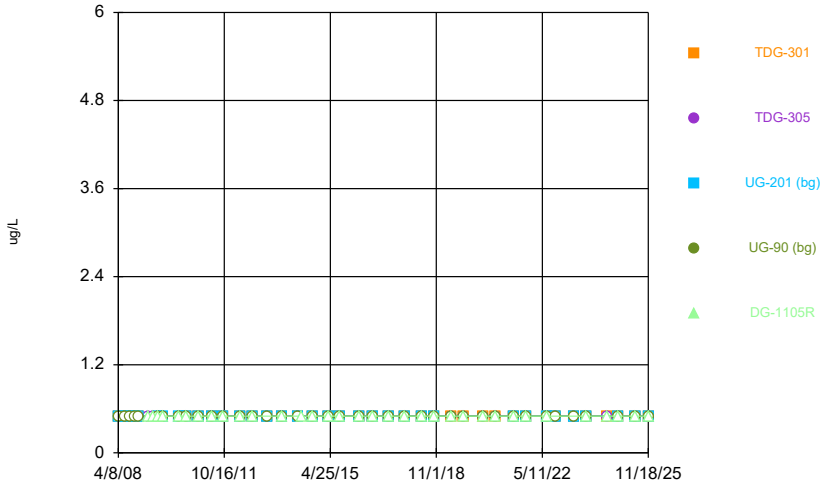
Time Series



Constituent: 1,2-Dichloropropane Analysis Run 1/5/2026 10:50 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: 1,2-Dichloropropane Analysis Run 1/5/2026 10:50 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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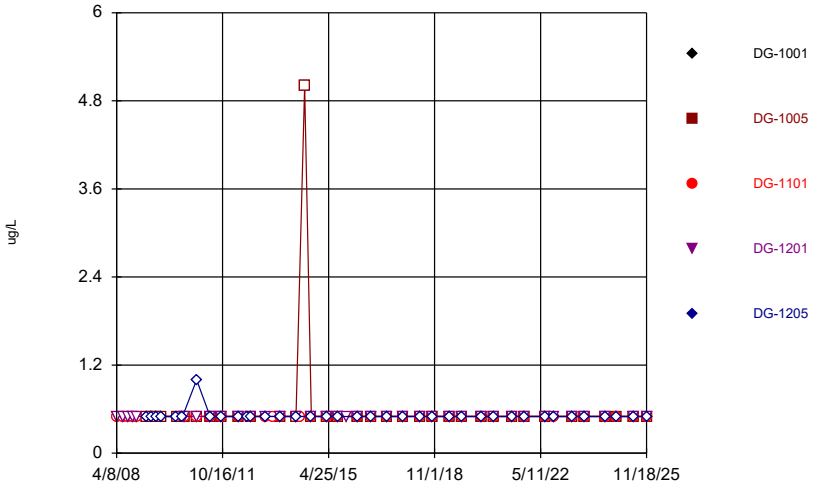
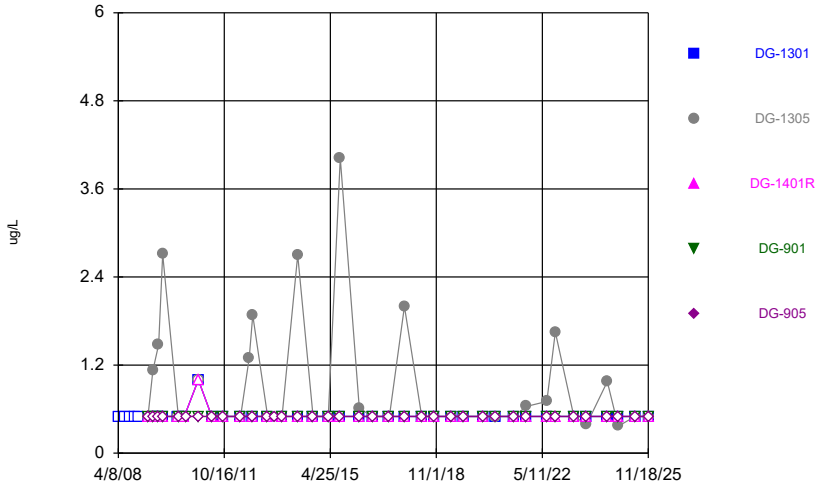
Time Series



Constituent: 1,4-Dichlorobenzene Analysis Run 1/5/2026 10:50 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: 1,4-Dichlorobenzene Analysis Run 1/5/2026 10:50 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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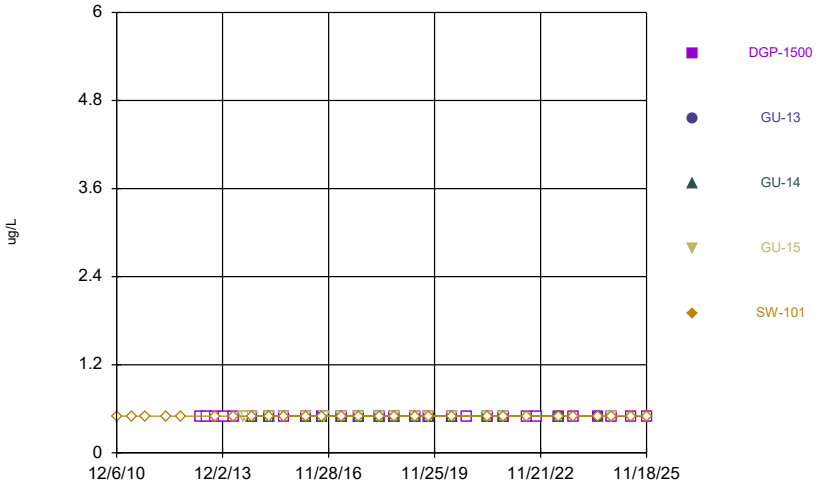
Time Series



Constituent: 1,4-Dichlorobenzene Analysis Run 1/5/2026 10:50 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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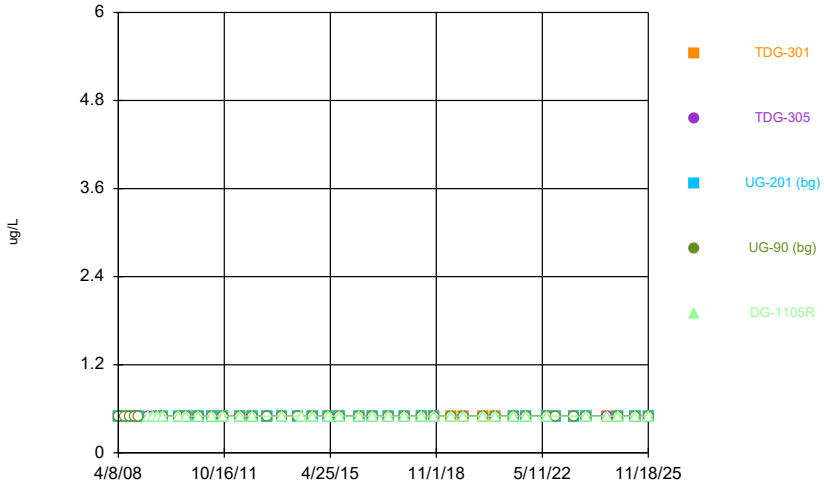
Time Series



Constituent: 1,4-Dichlorobenzene Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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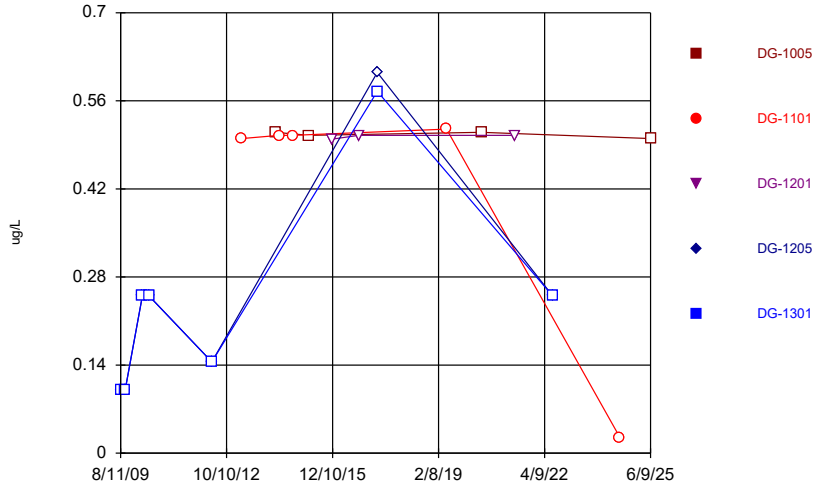
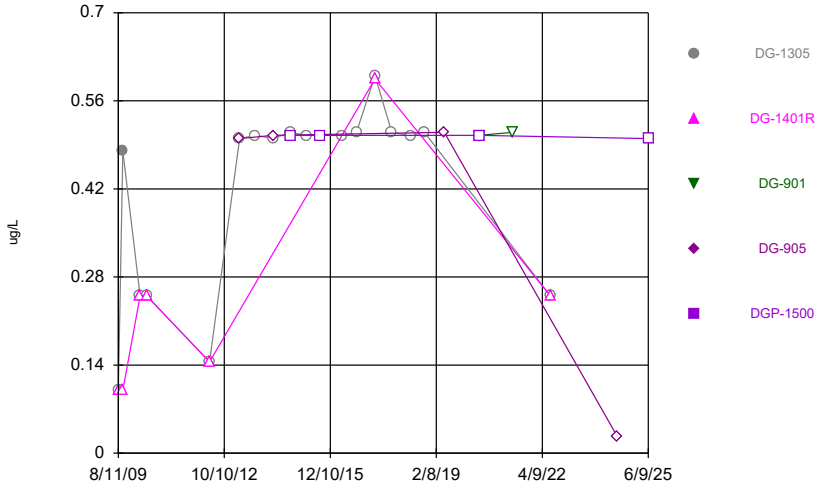
Time Series



Constituent: 2,4,5-TP [Silvex] [2C] Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

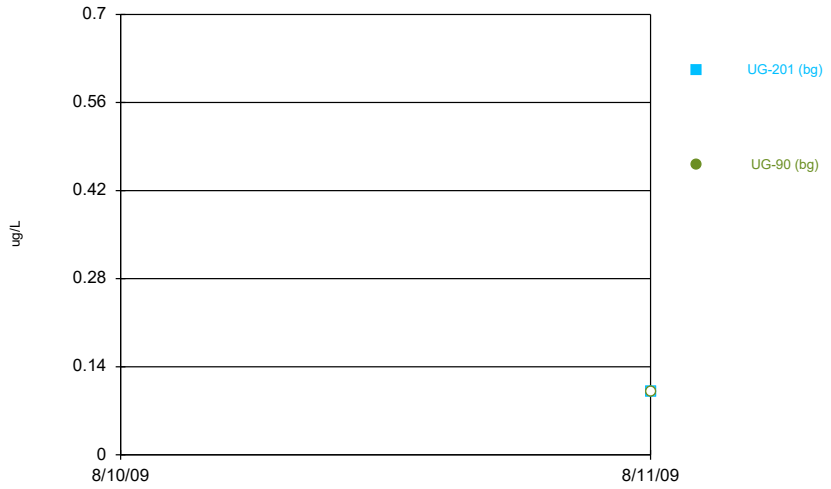
Time Series



Constituent: 2,4,5-TP [Silvex] [2C] Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

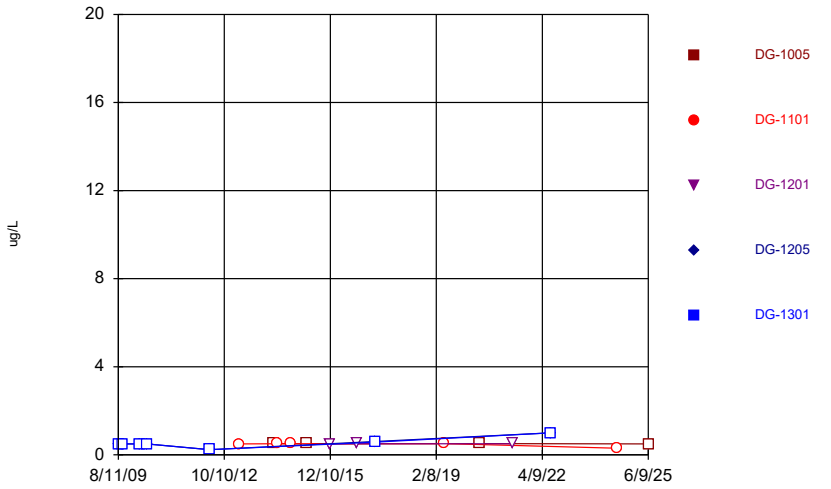
Time Series



Constituent: 2,4,5-TP [Silvex] [2C] Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

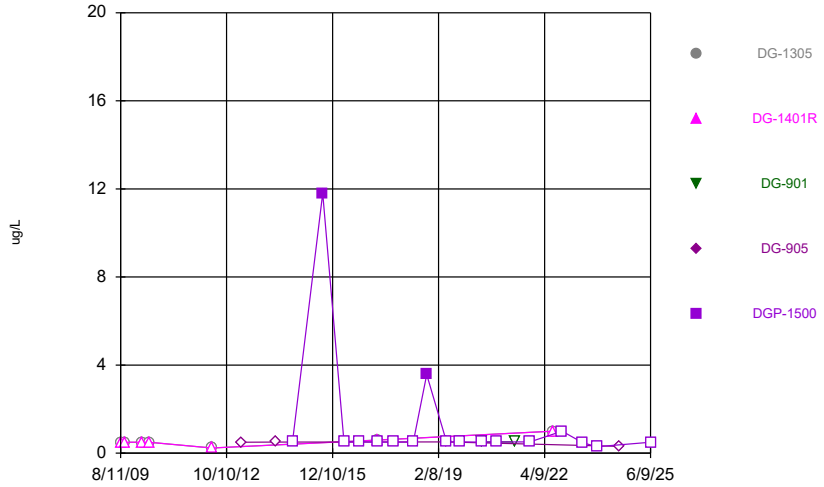
Time Series



Constituent: 2,4-D [2C] Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: 2,4-D [2C] Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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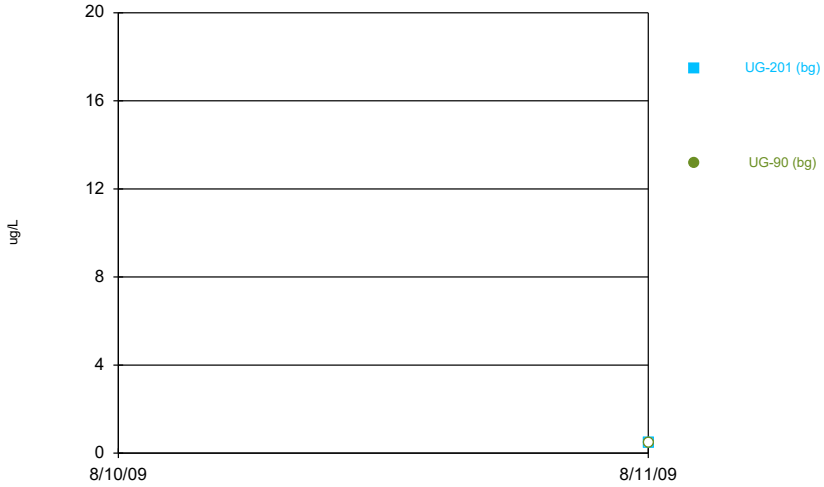
Time Series



Constituent: 2,4-D [2C] Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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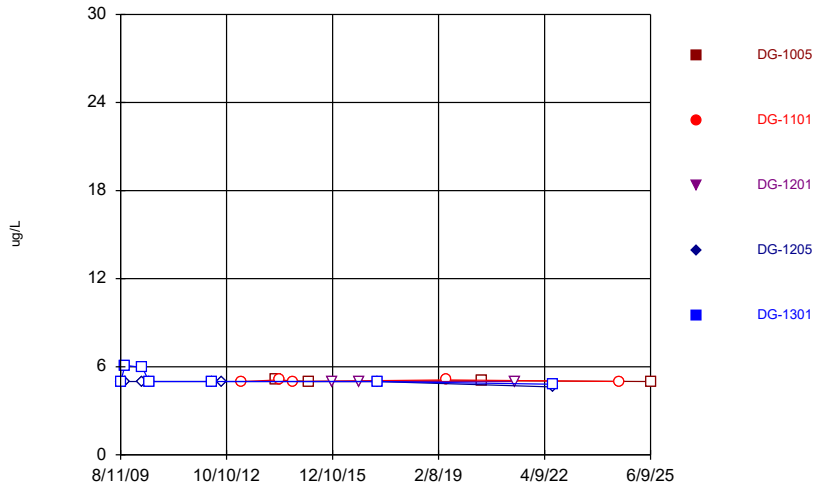
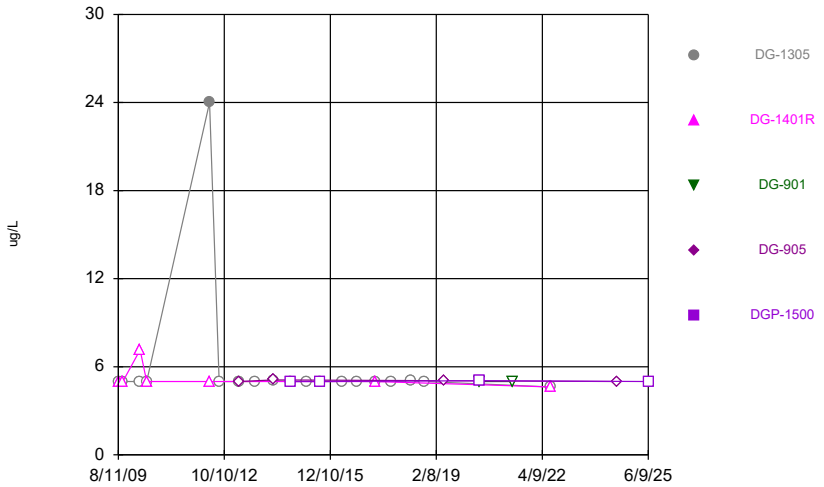
Time Series



Constituent: 2,4-Dinitrotoluene Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

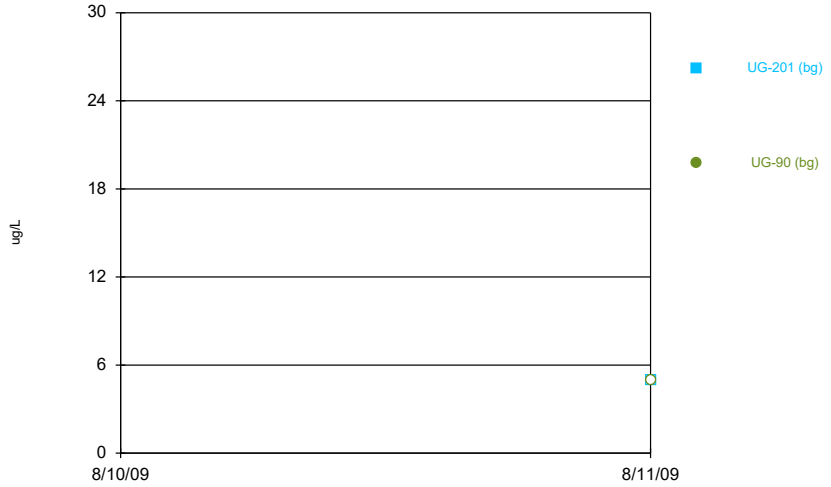
Time Series



Constituent: 2,4-Dinitrotoluene Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

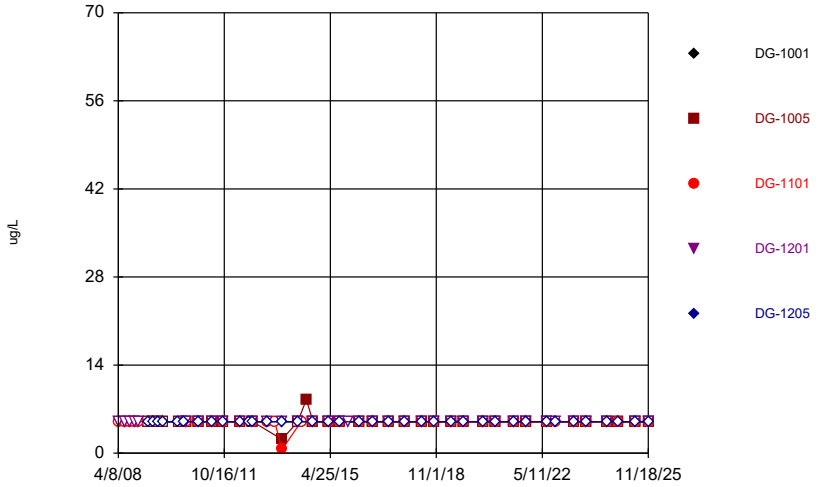
Time Series



Constituent: 2,4-Dinitrotoluene Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

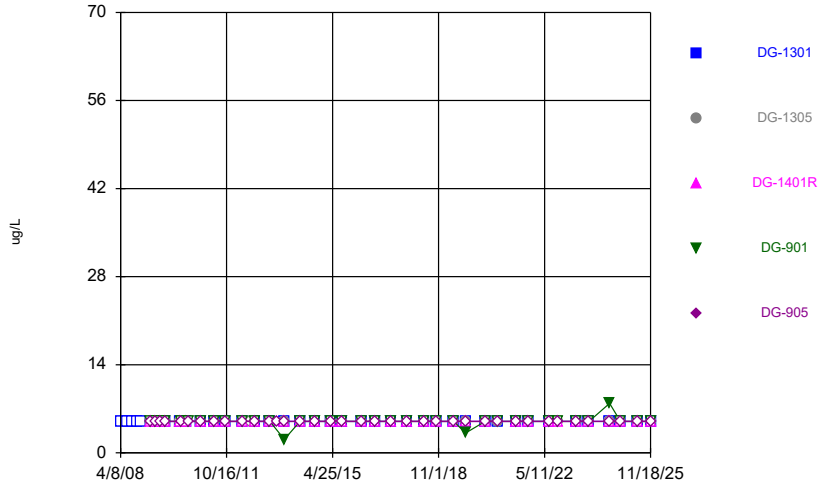
Time Series



Constituent: 2-Butanone Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

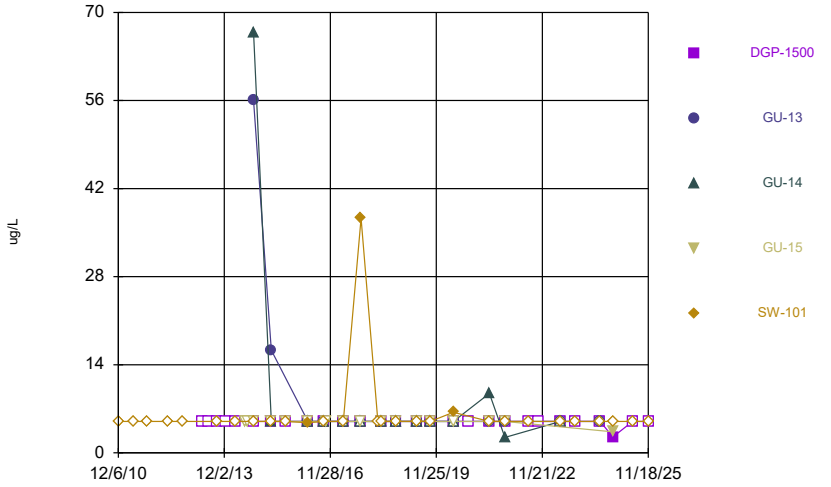
Time Series



Constituent: 2-Butanone Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: 2-Butanone Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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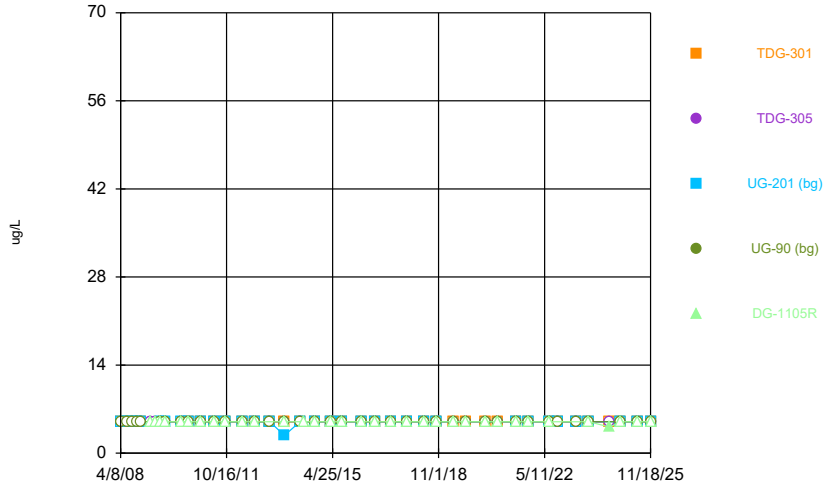
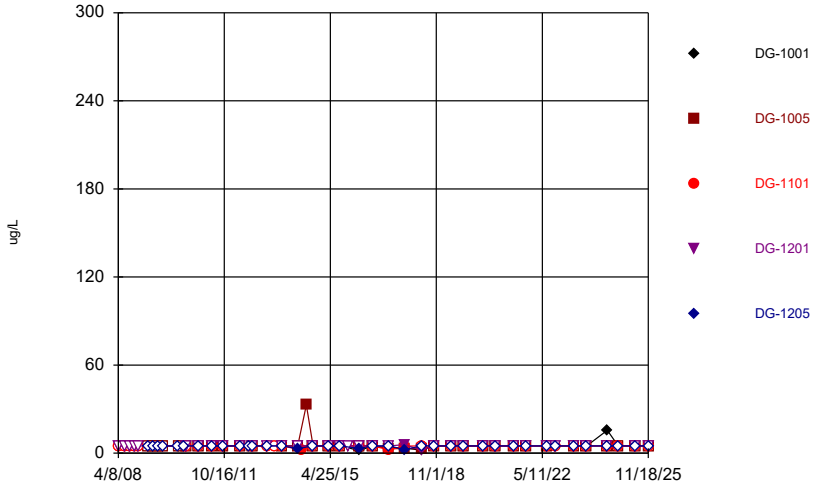
Time Series



Constituent: 2-Butanone Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

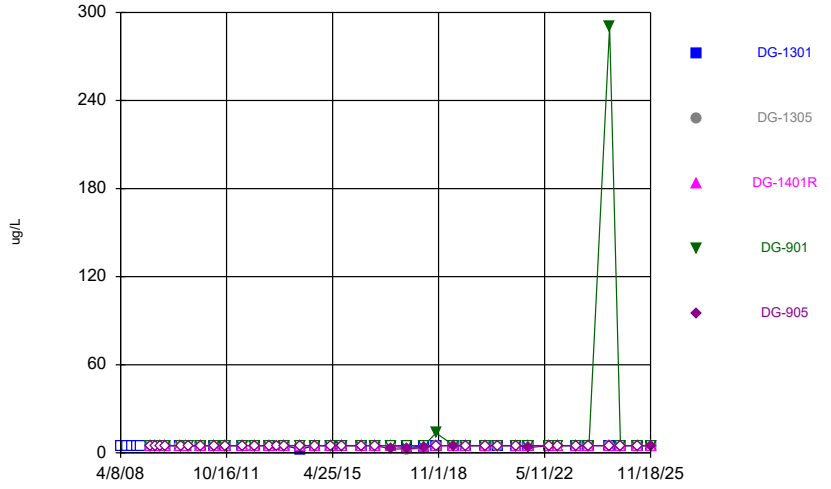
Time Series



Constituent: Acetone Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

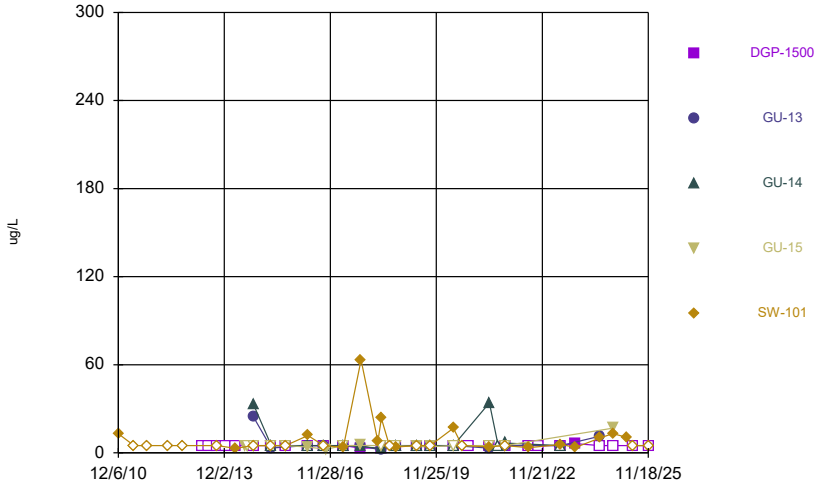
Time Series



Constituent: Acetone Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Acetone Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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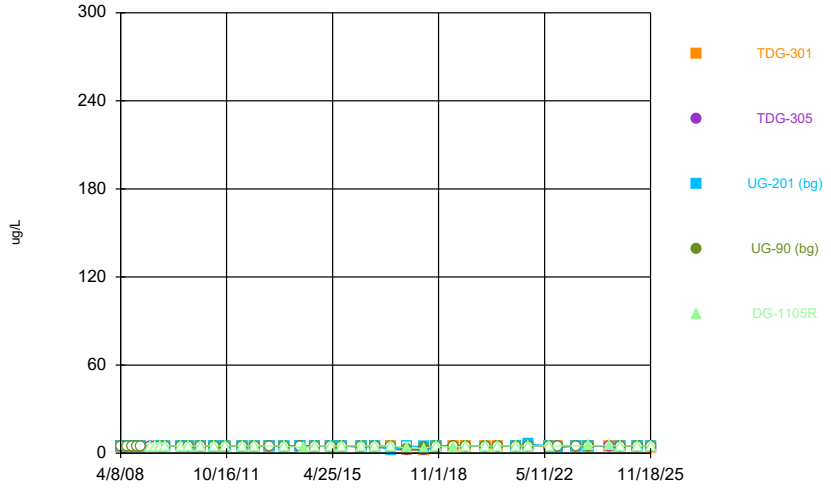
Time Series



Constituent: Acetone Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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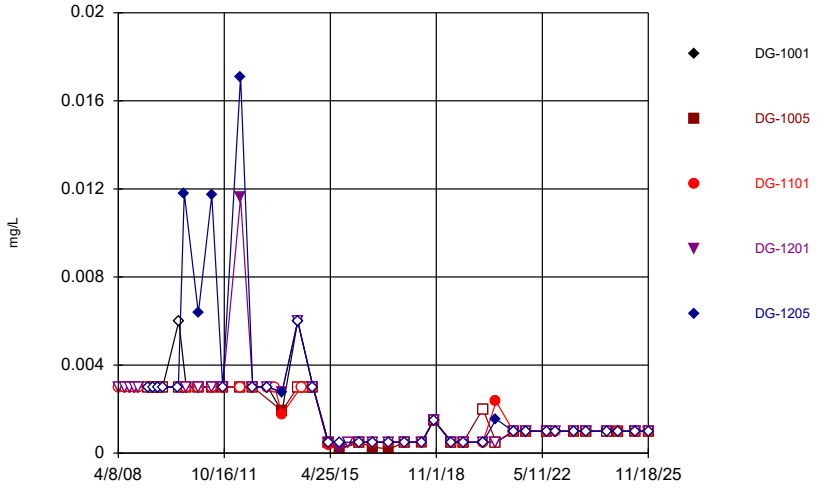
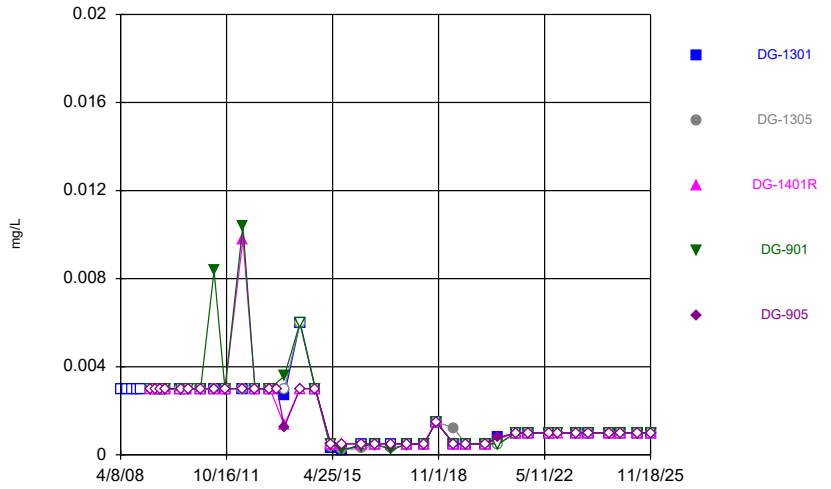
Time Series



Constituent: Antimony Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

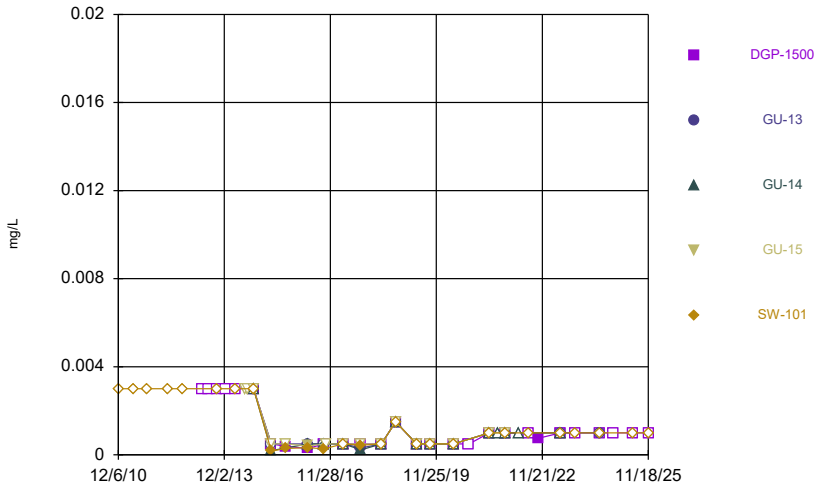
Time Series



Constituent: Antimony Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

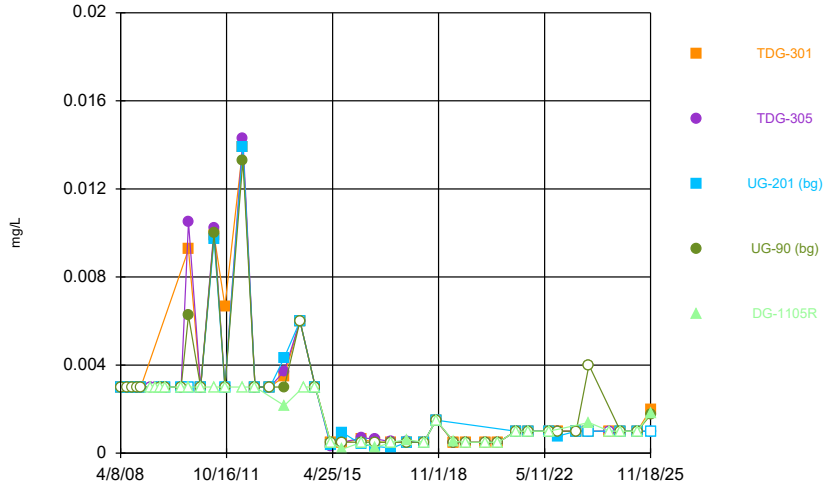
Time Series



Constituent: Antimony Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

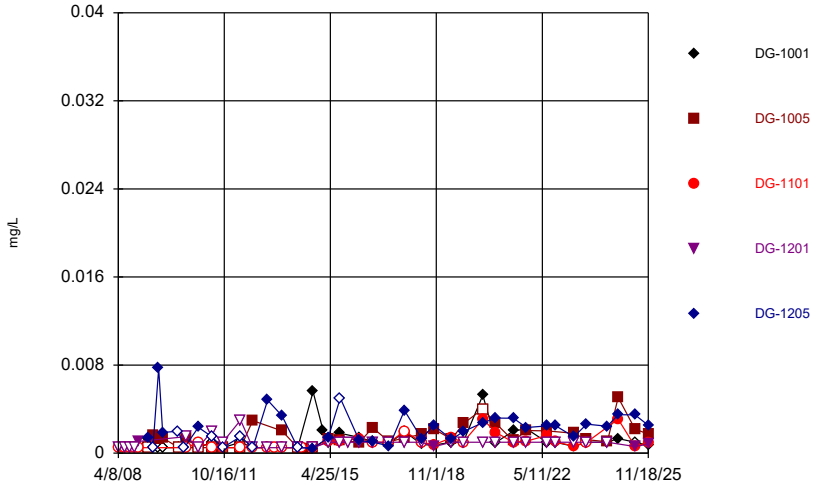
Time Series



Constituent: Antimony Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

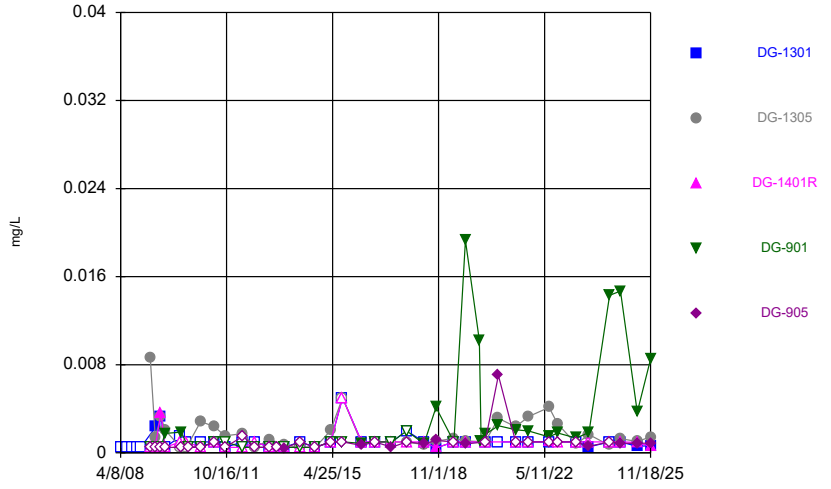
Time Series



Constituent: Arsenic Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

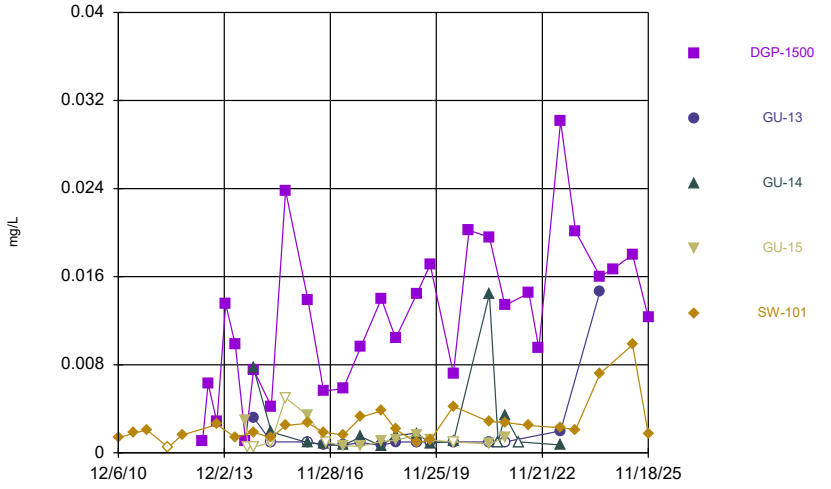
Time Series



Constituent: Arsenic Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

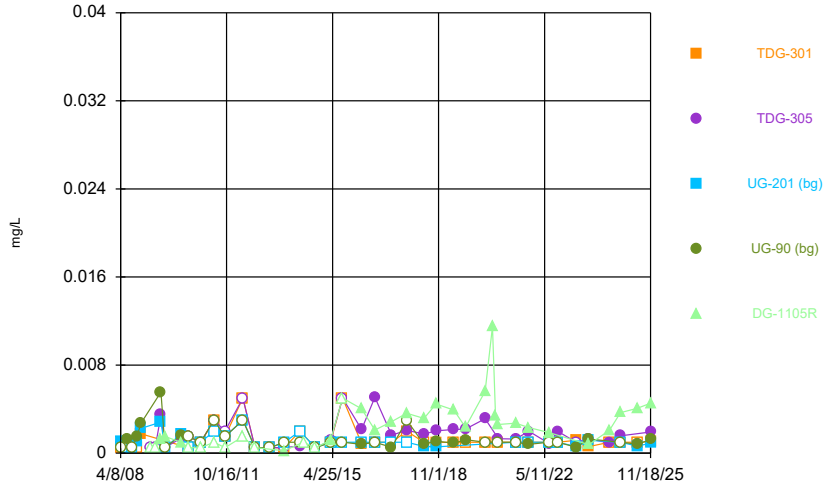
Time Series



Constituent: Arsenic Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Arsenic Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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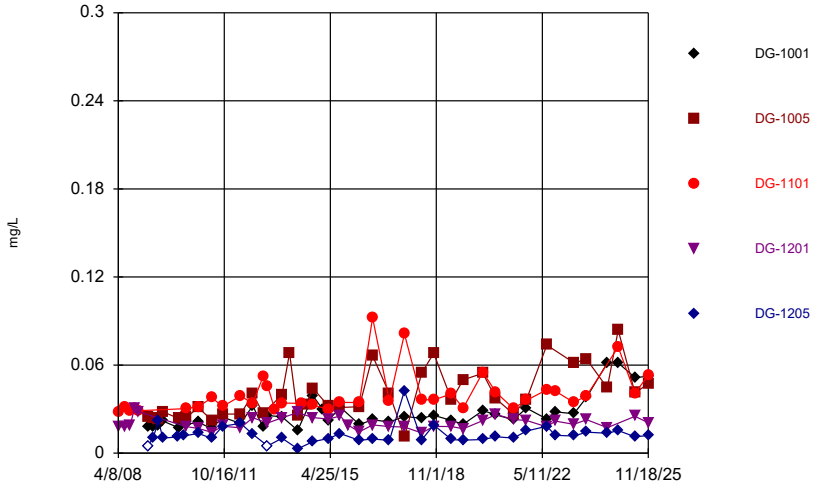
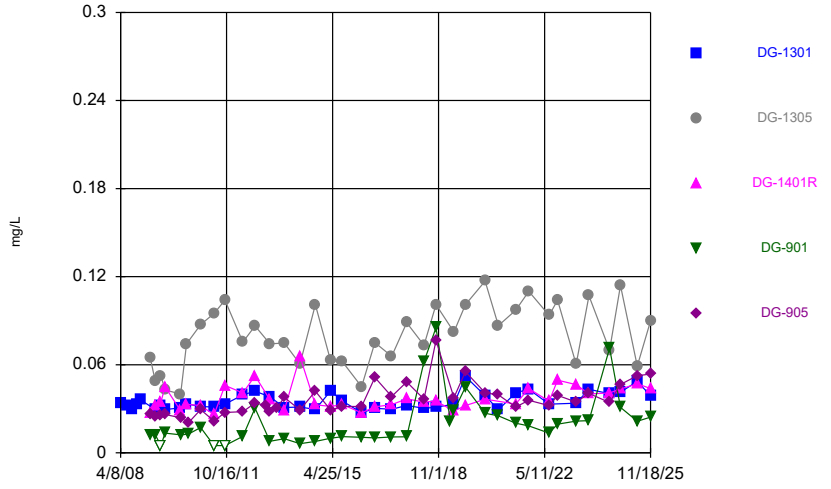
Time Series



Constituent: Barium Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Barium Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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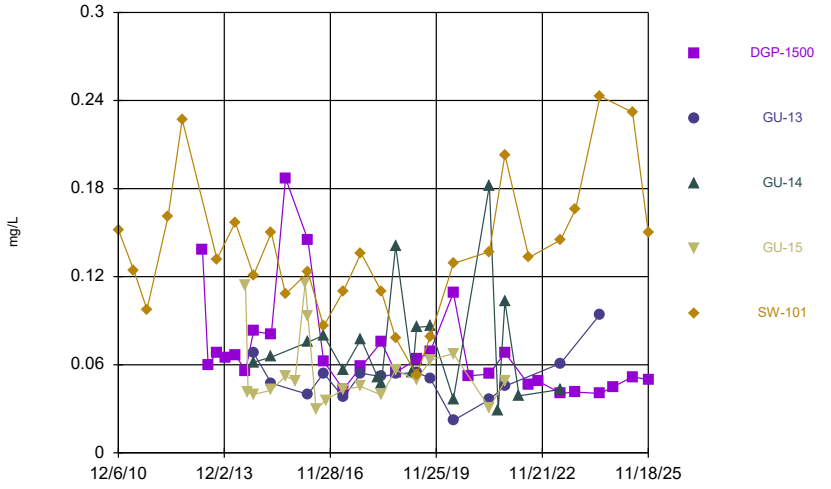
Time Series



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Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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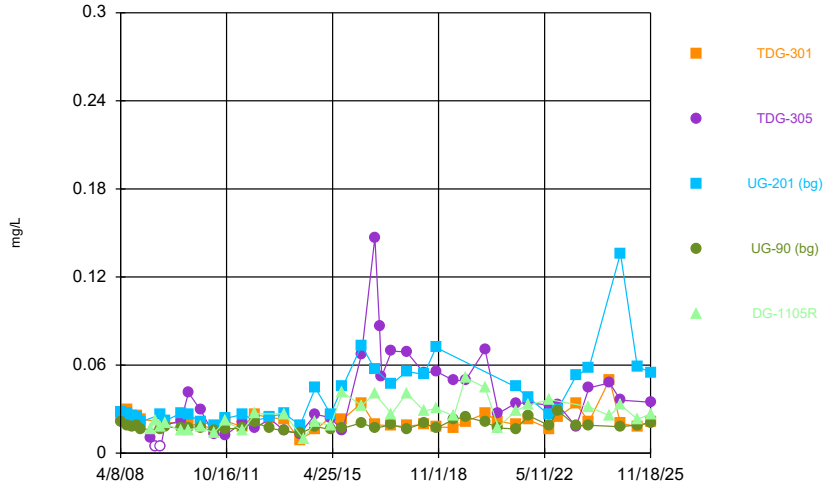
Time Series



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Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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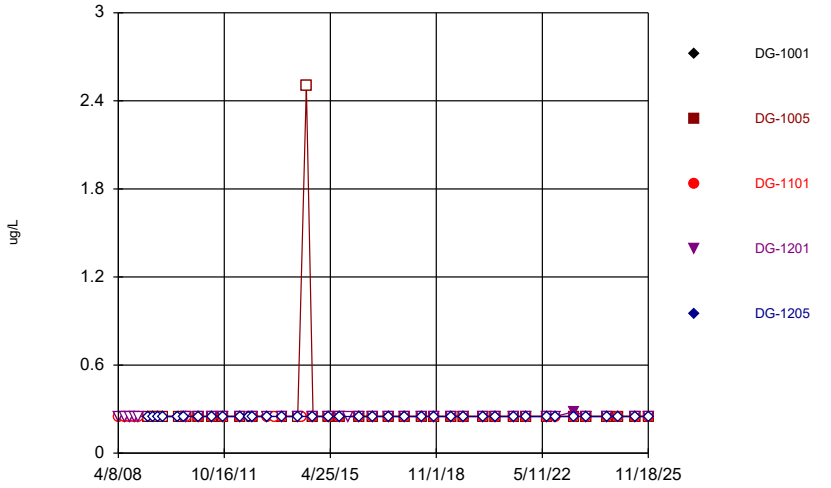
Time Series



Constituent: Benzene Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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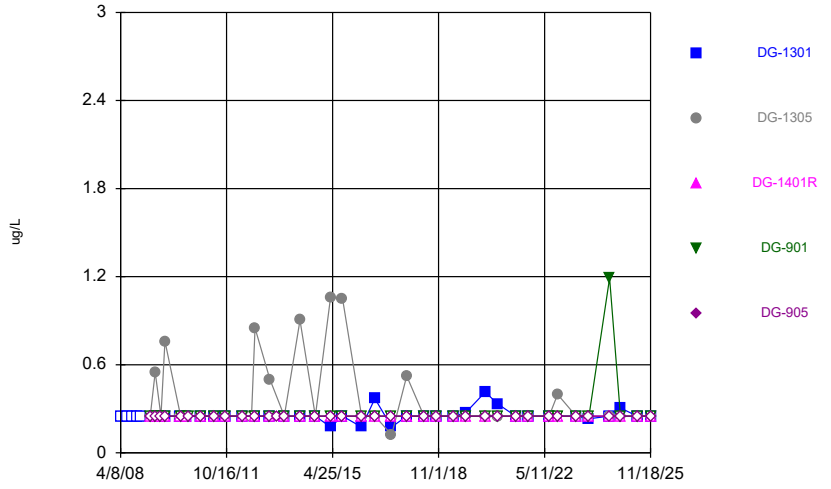
Time Series



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Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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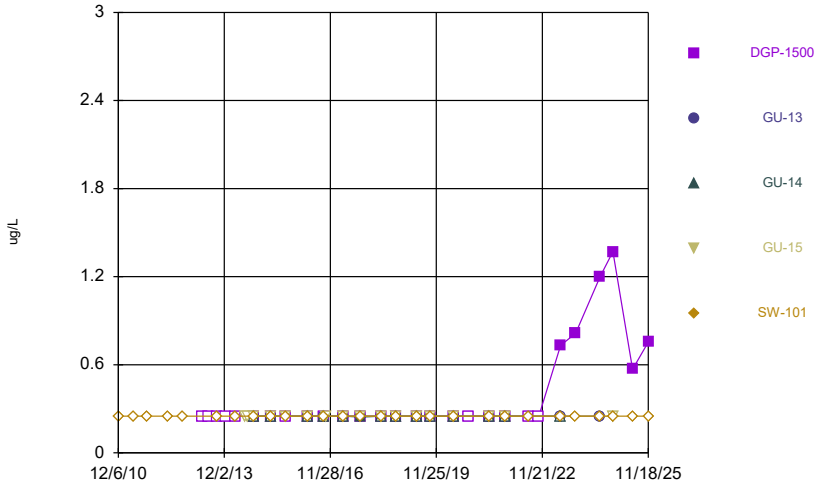
Time Series



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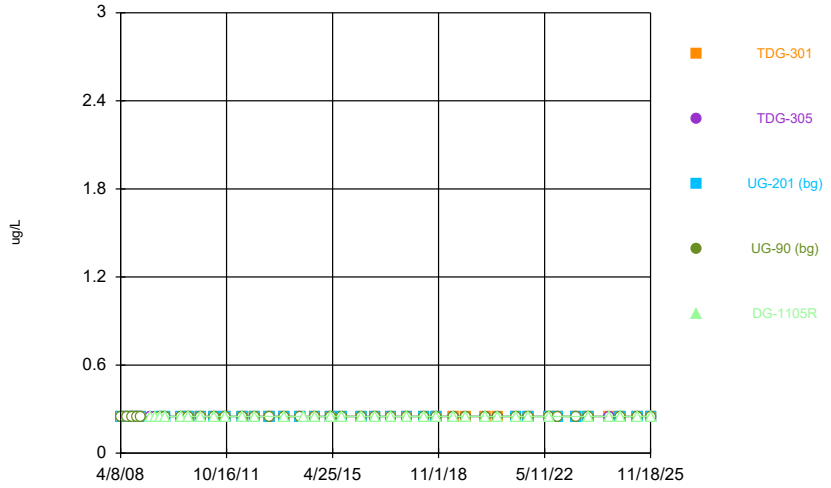

Constituent: Benzene Analysis Run 1/5/2026 10:51 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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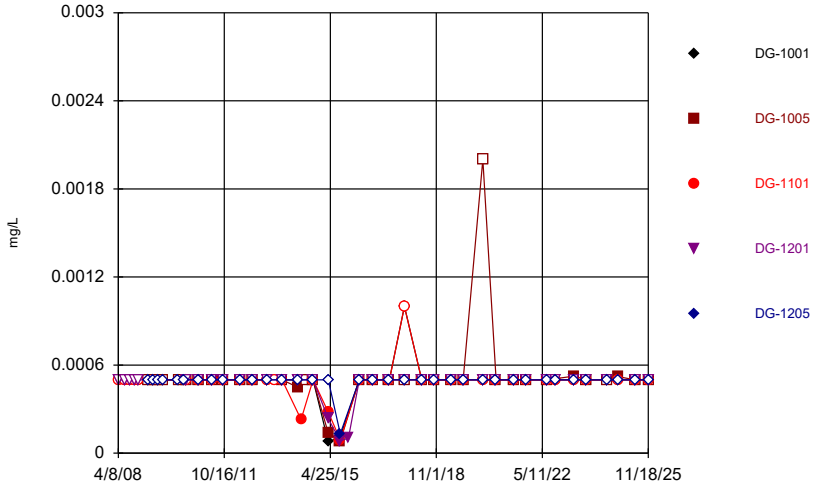

Constituent: Beryllium Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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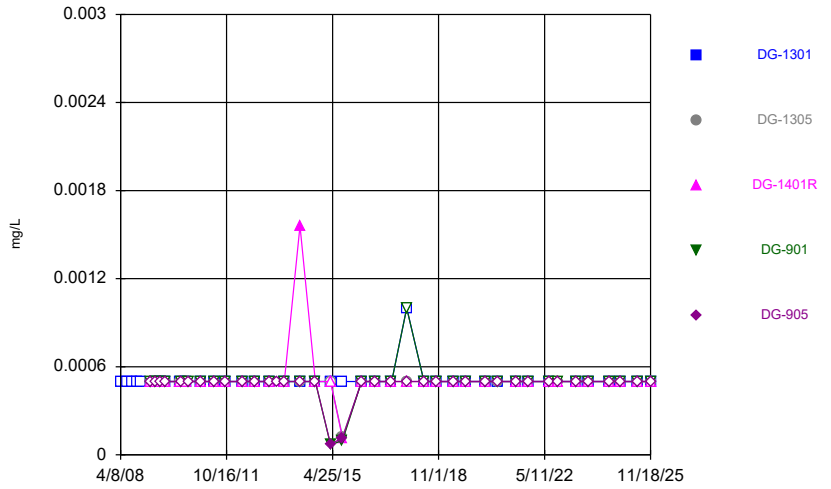
Time Series



Constituent: Beryllium Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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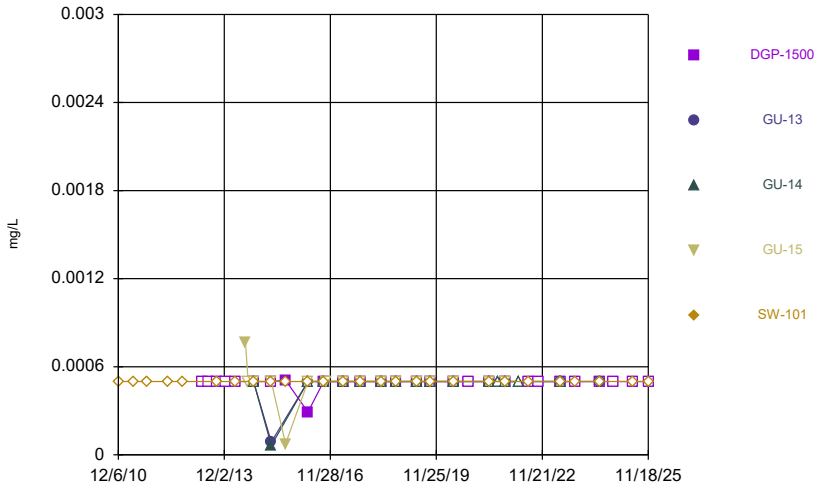

Constituent: Beryllium Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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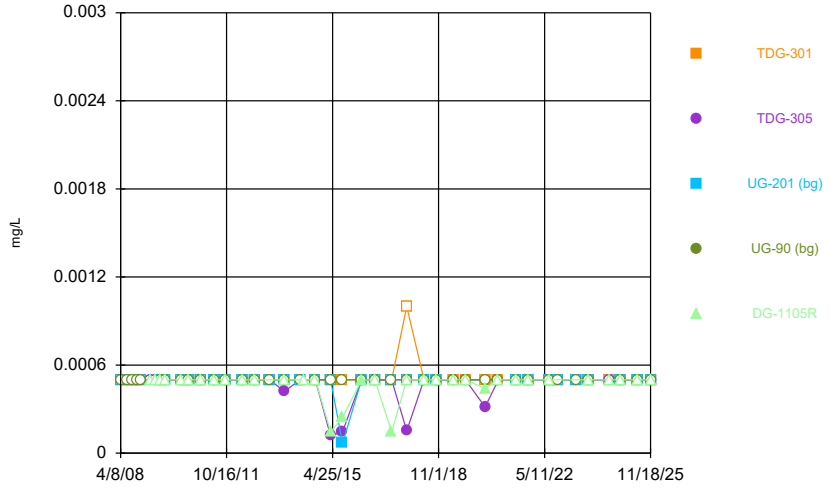

Constituent: Beryllium Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
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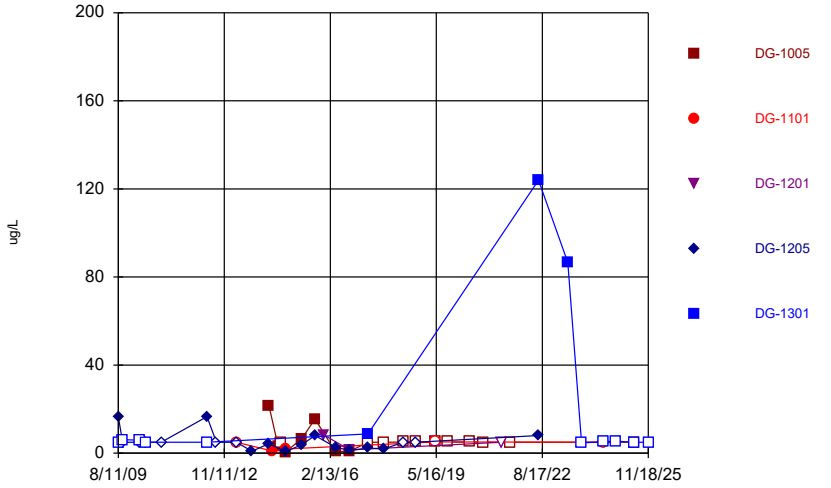

Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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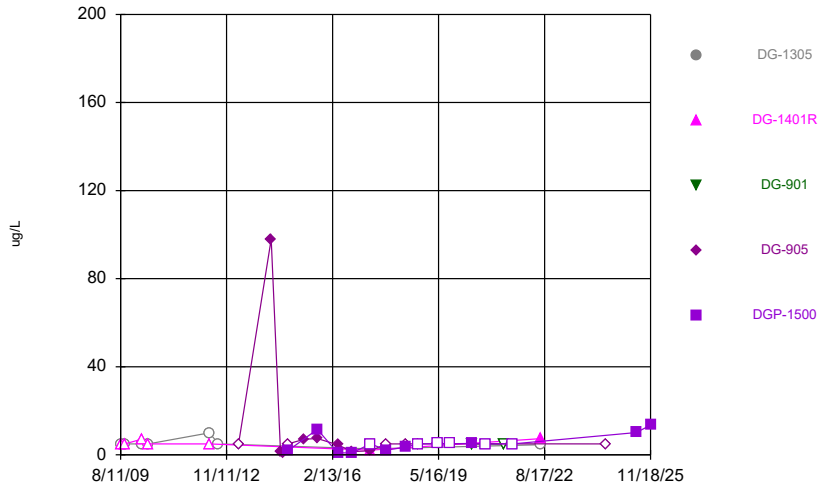

Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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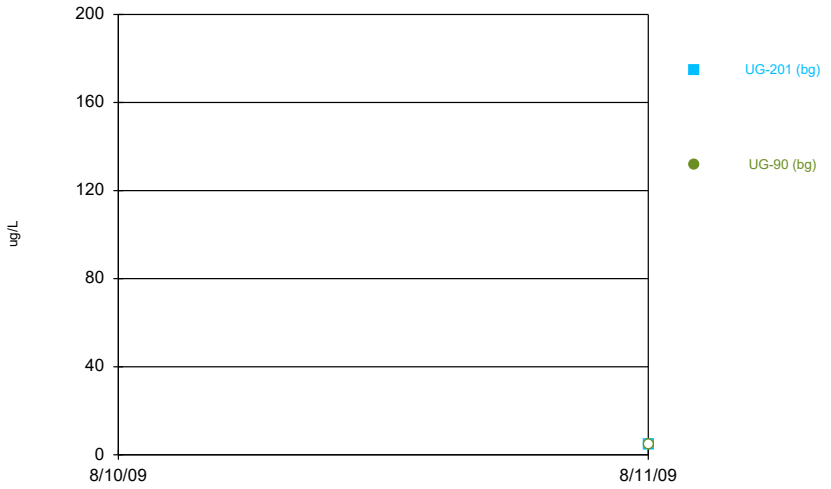
Time Series



Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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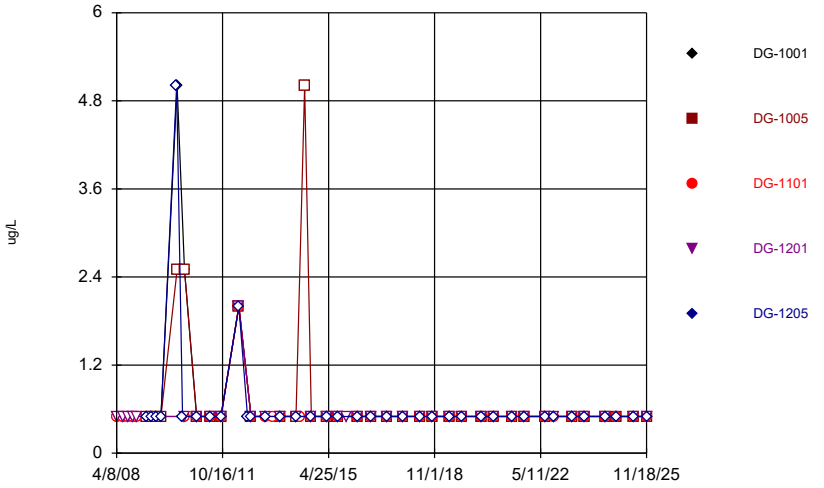

Constituent: Bromodichloromethane Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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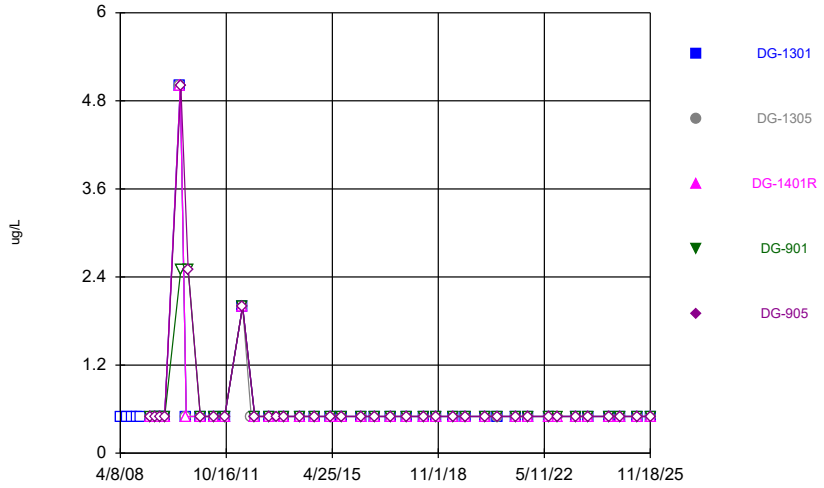

Constituent: Bromodichloromethane Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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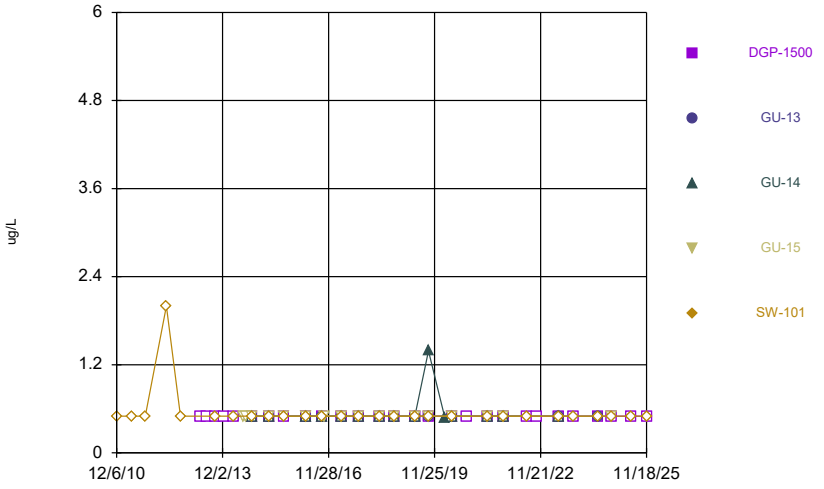

Constituent: Bromodichloromethane Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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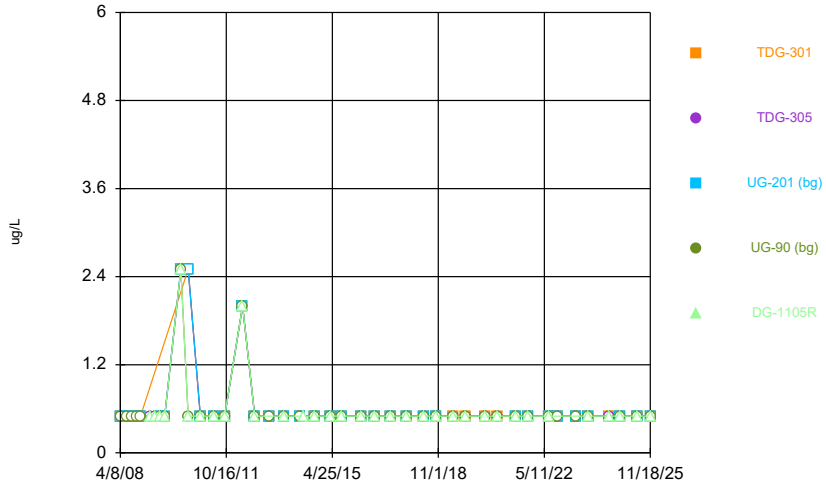

Constituent: Bromodichloromethane Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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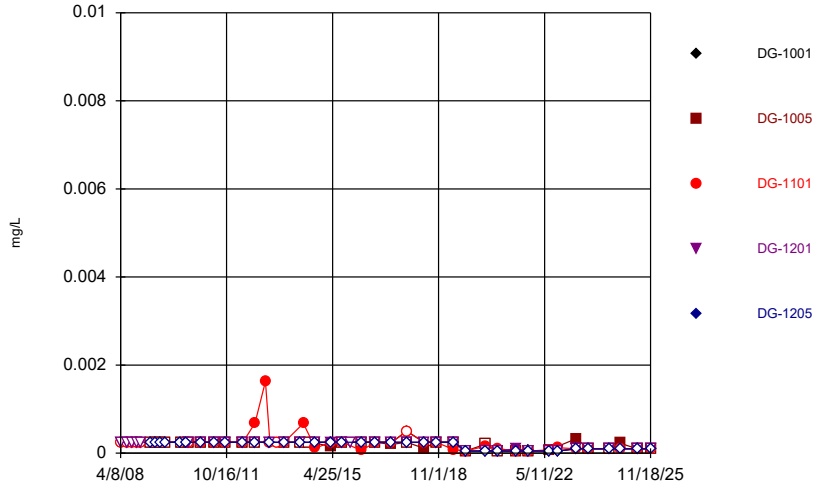

Constituent: Cadmium Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
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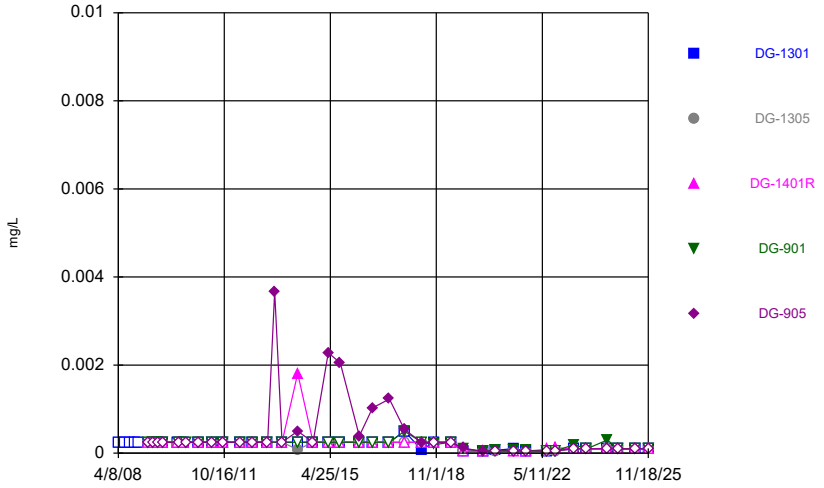

Constituent: Cadmium Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
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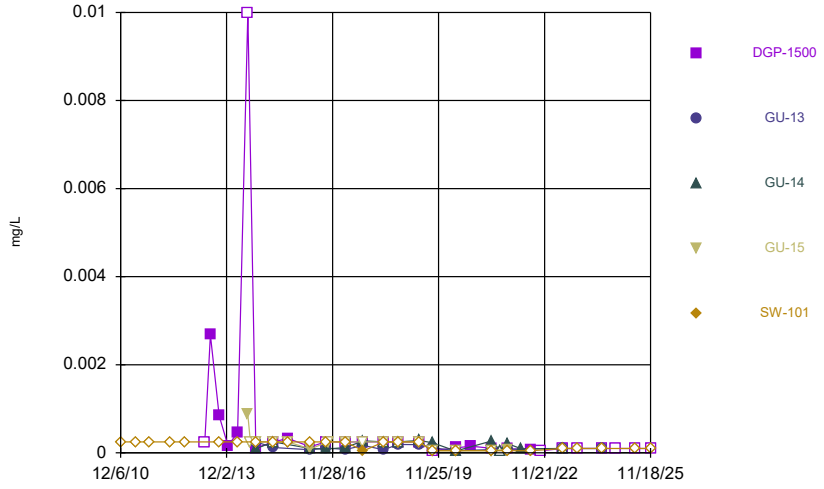

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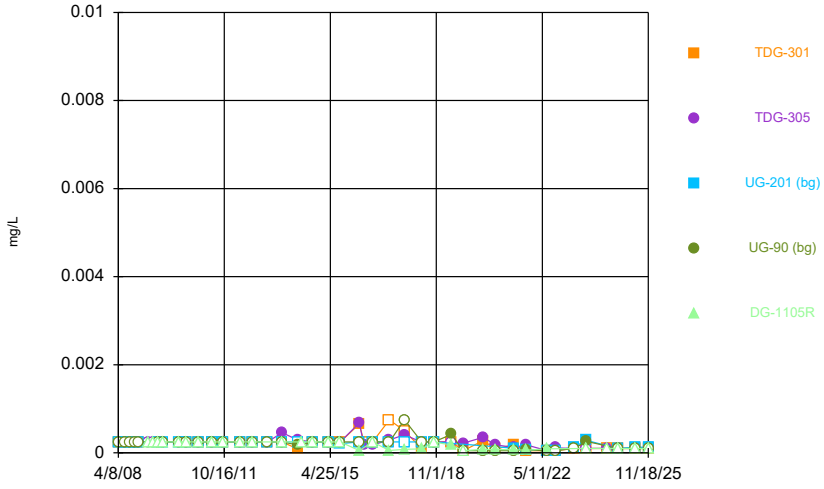

Constituent: Cadmium Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
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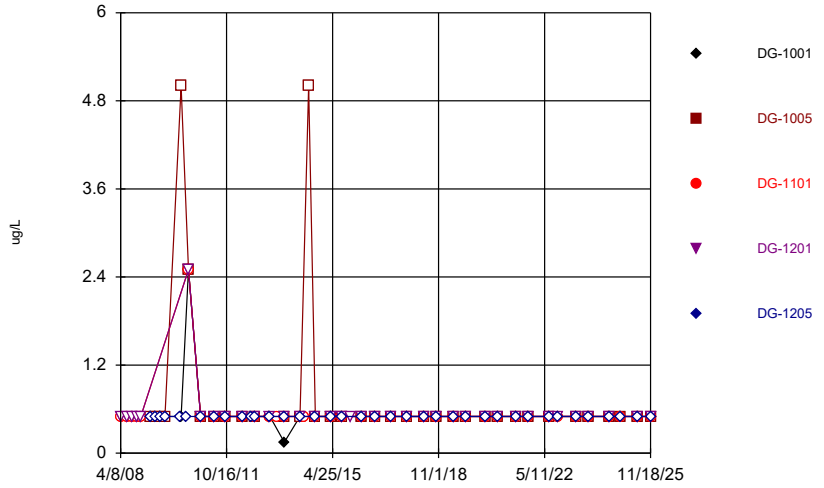

Constituent: Carbon disulfide Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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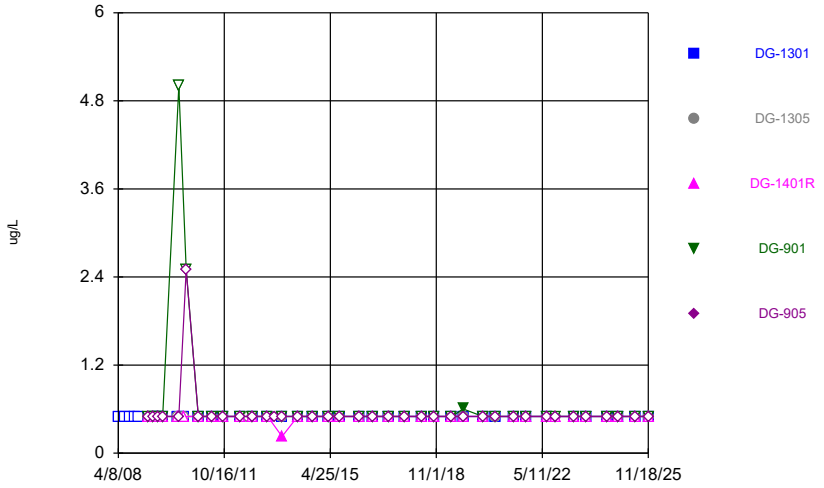

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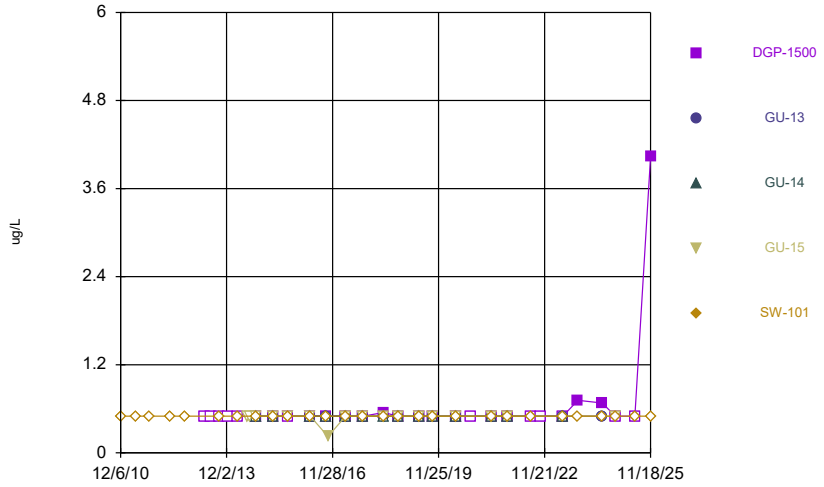

Constituent: Carbon disulfide Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
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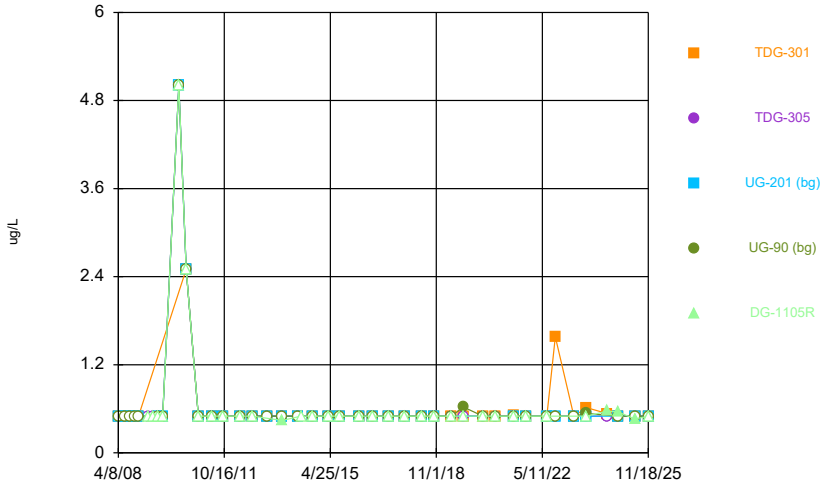

Constituent: Carbon disulfide Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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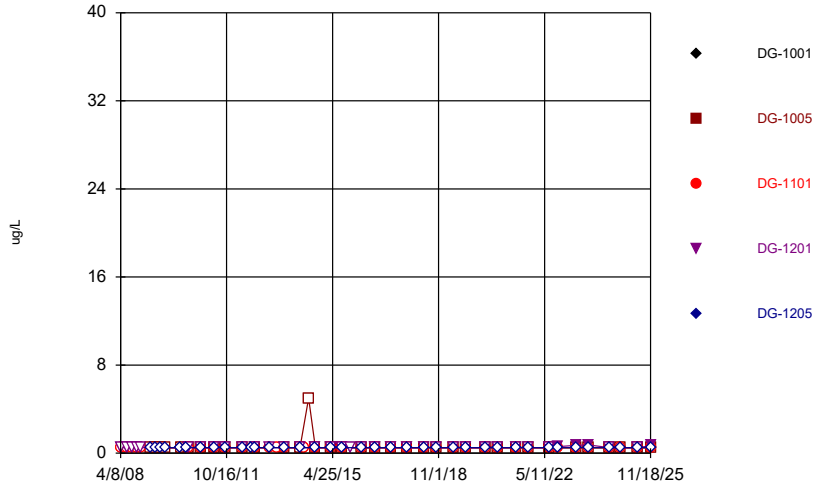

Constituent: Chlorobenzene Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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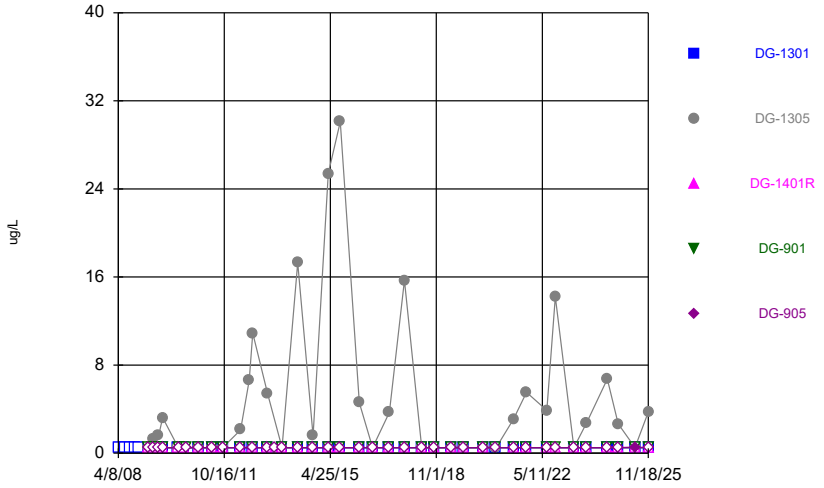

Constituent: Chlorobenzene Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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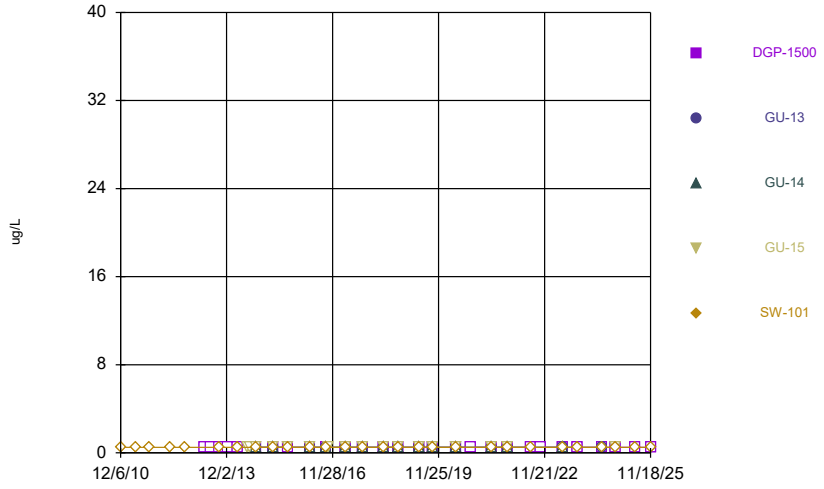

Constituent: Chlorobenzene Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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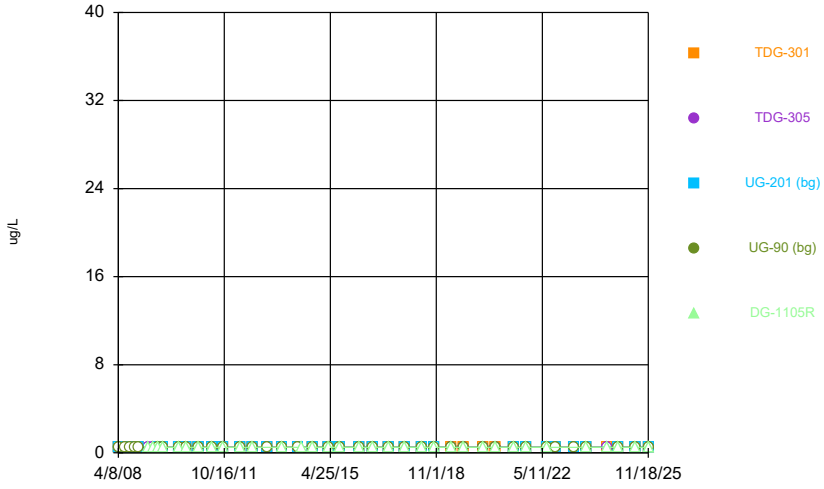

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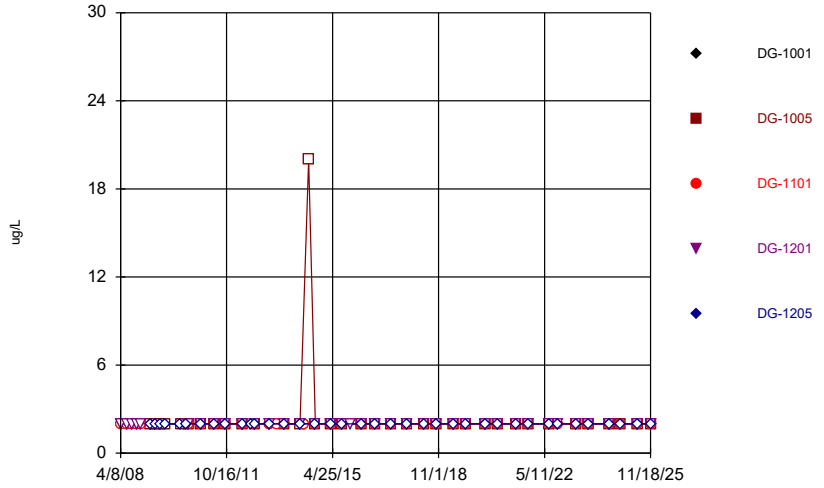

Constituent: Chloroethane Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
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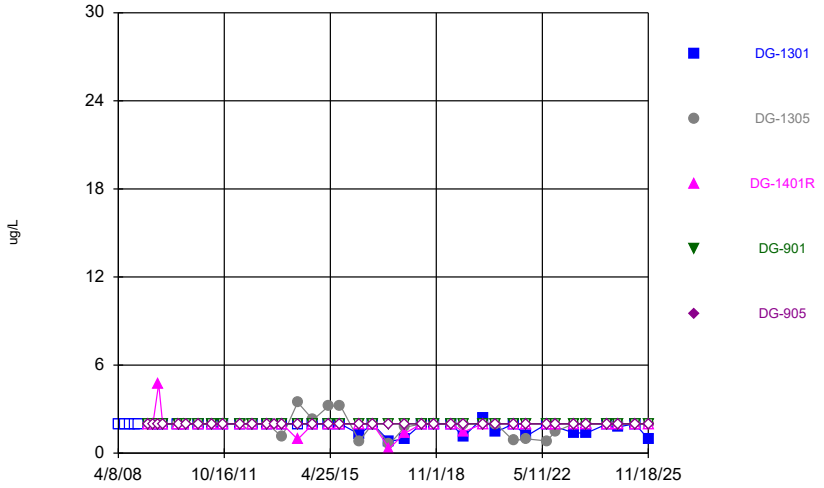

Constituent: Chloroethane Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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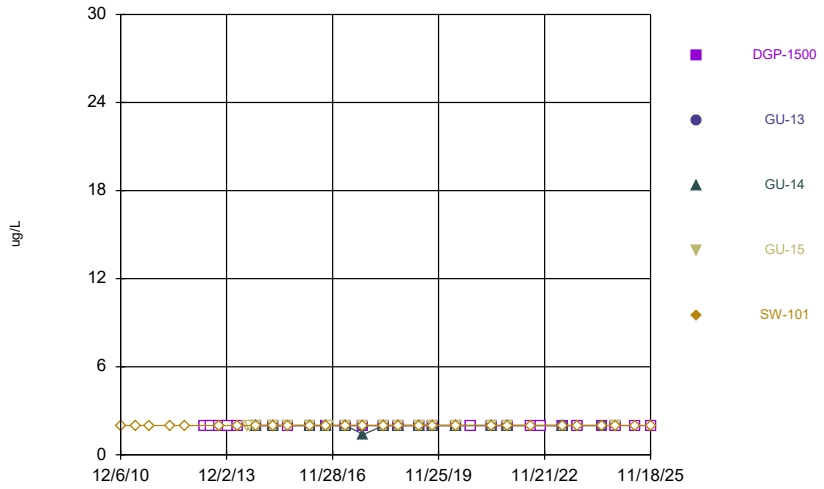

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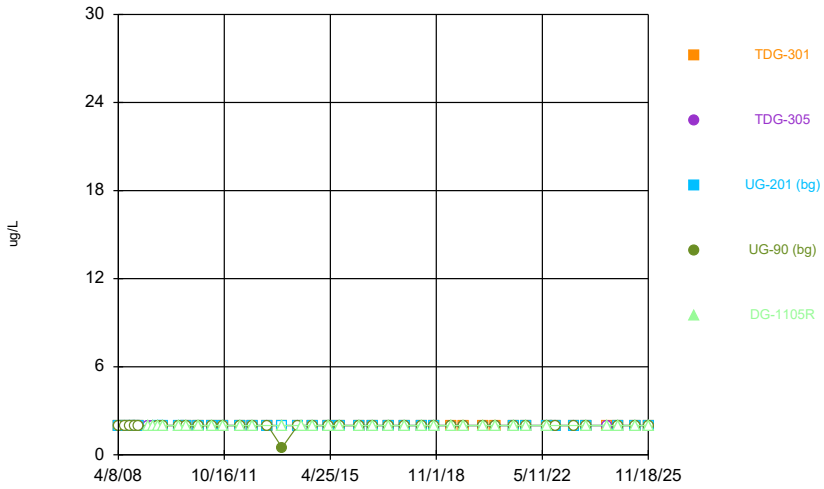

Constituent: Chloroethane Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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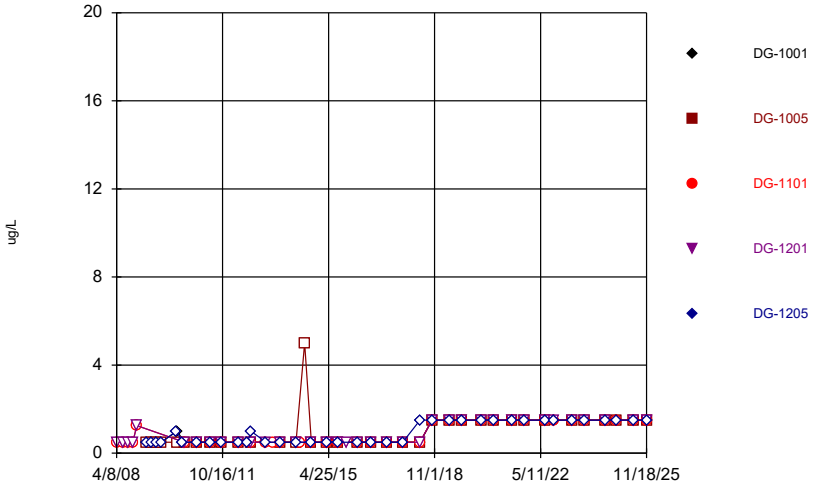
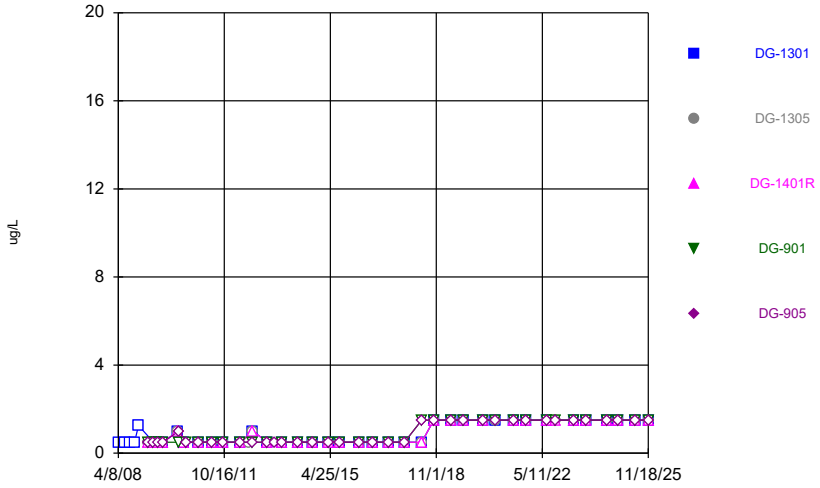


Constituent: Chloroform Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

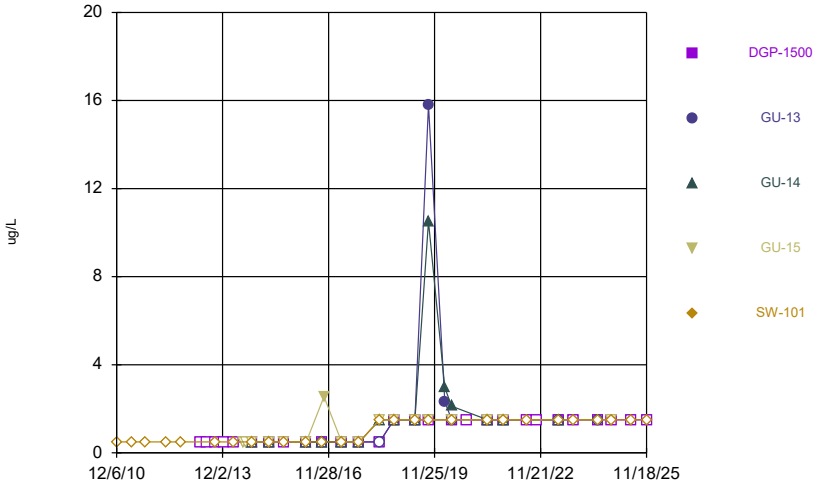
Time Series



Constituent: Chloroform Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chloroform Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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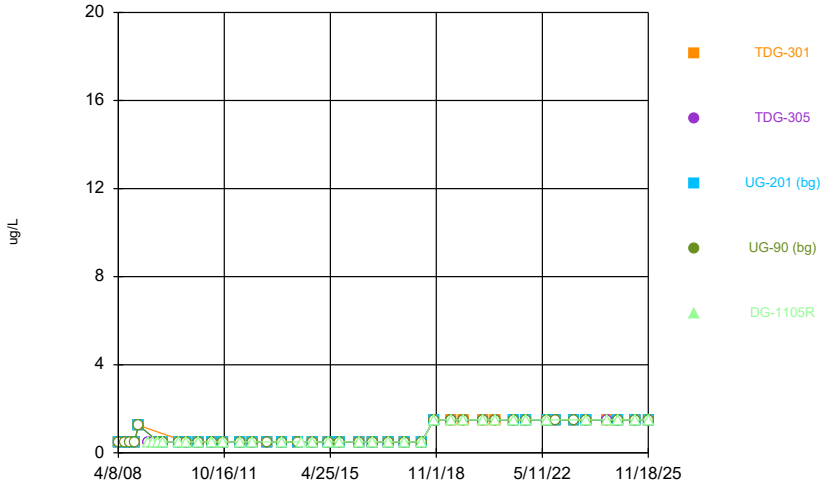
Time Series



Constituent: Chloroform Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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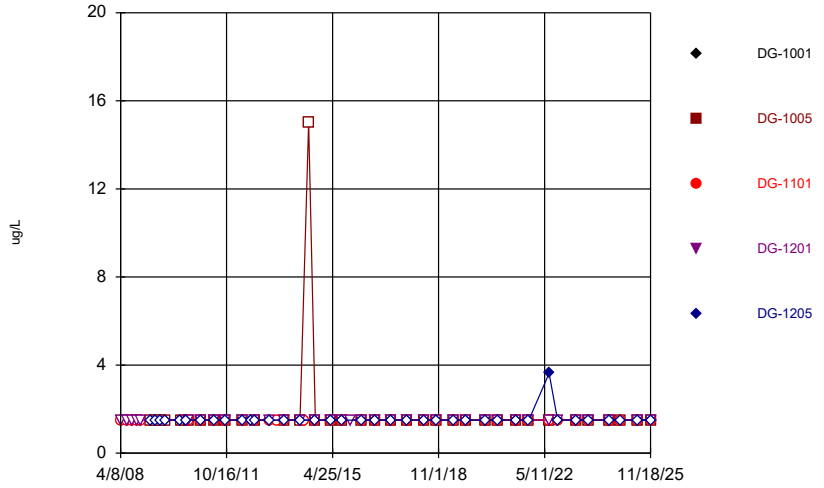
Time Series



Constituent: Chloromethane Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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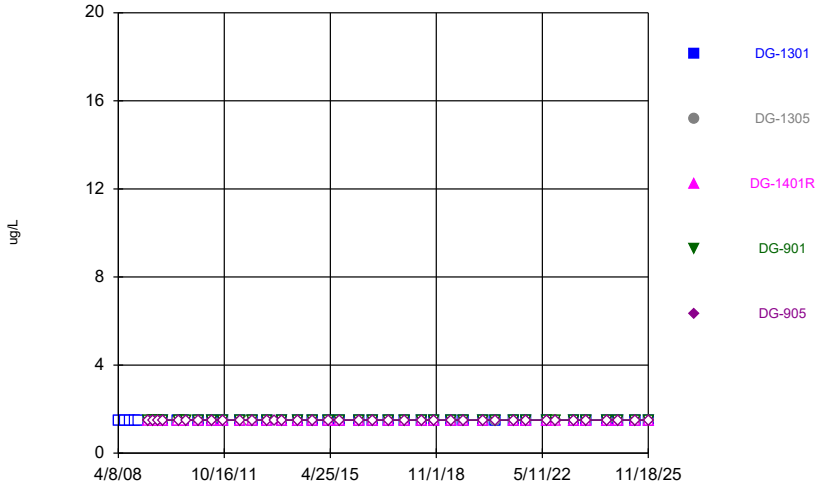
Time Series



Constituent: Chloromethane Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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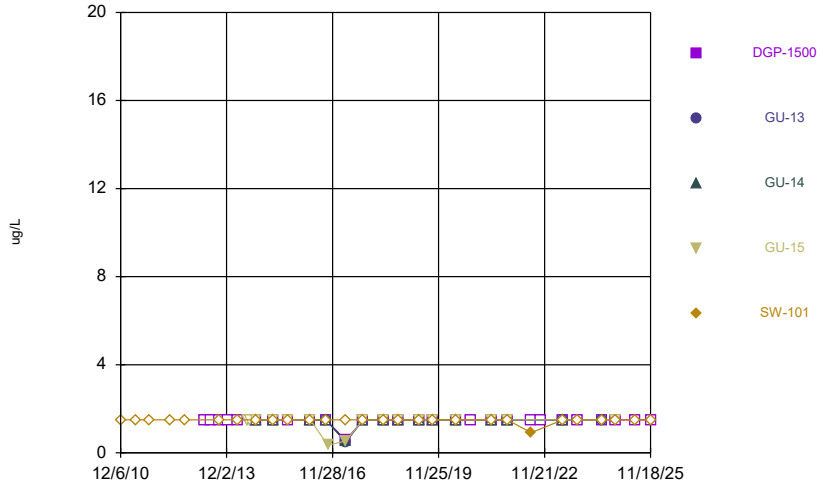
Time Series



Constituent: Chloromethane Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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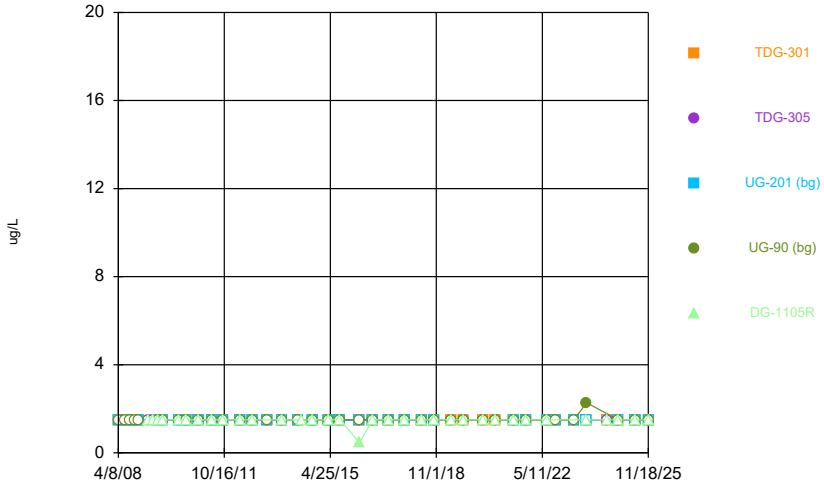
Time Series



Constituent: Chloromethane Analysis Run 1/5/2026 10:52 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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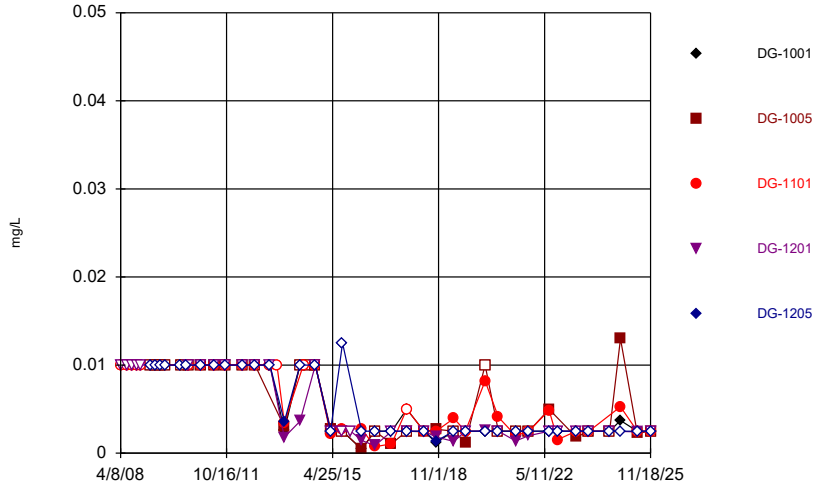
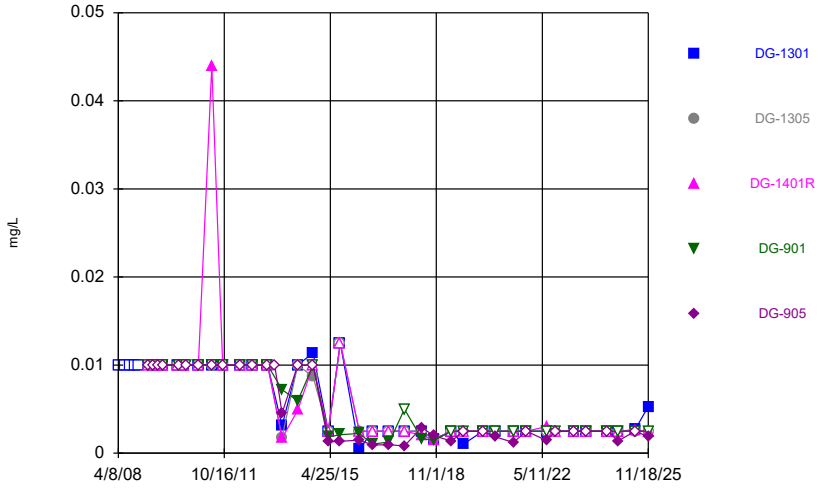
Time Series



Constituent: Chromium Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

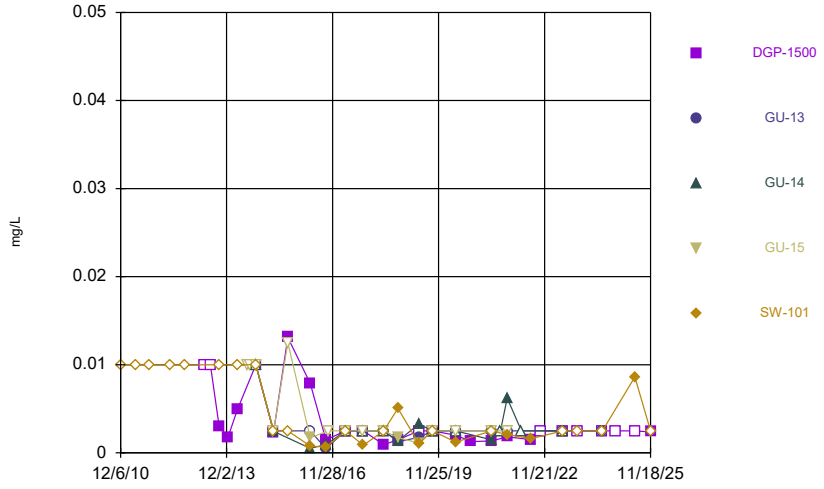
Time Series



Constituent: Chromium Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chromium Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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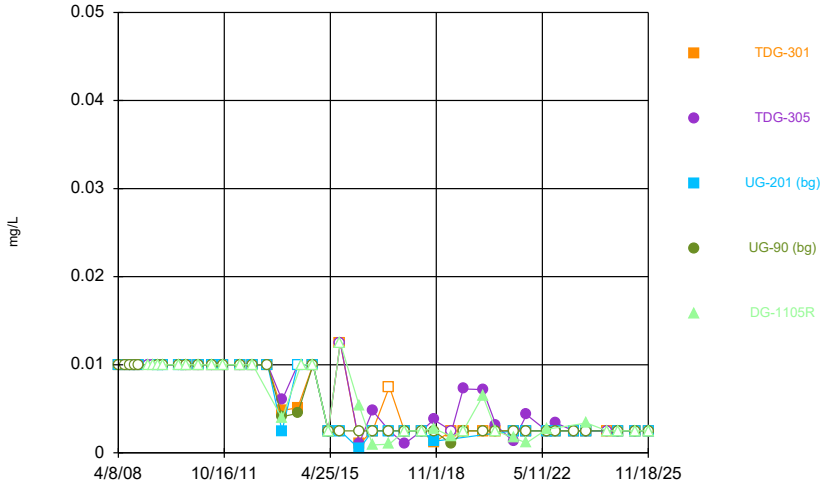
Time Series



Constituent: Chromium Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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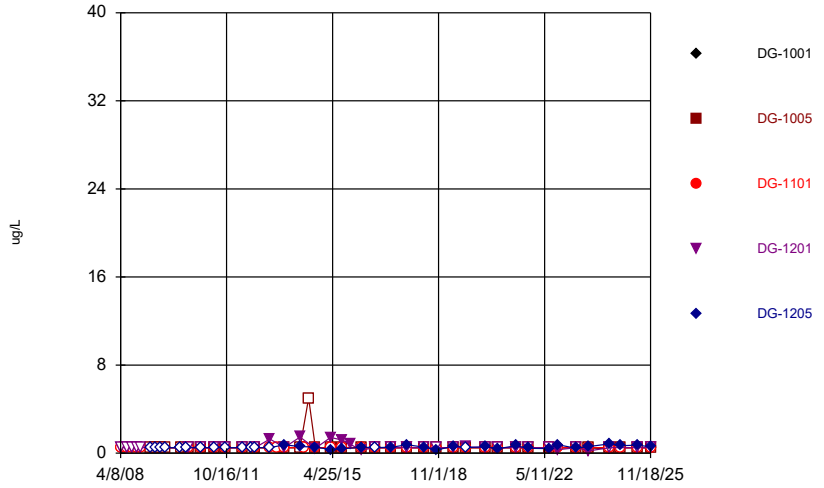
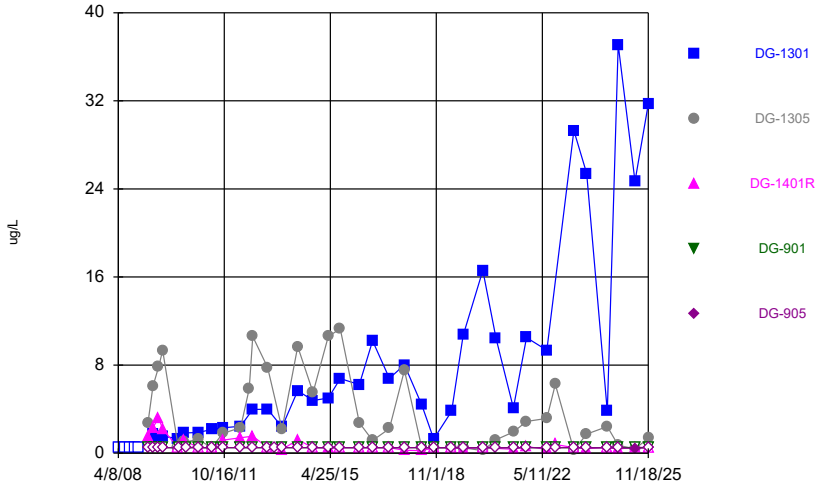
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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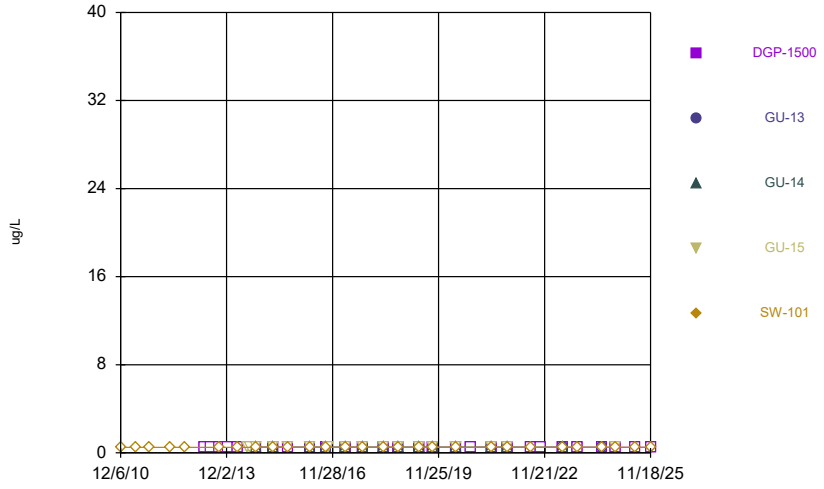
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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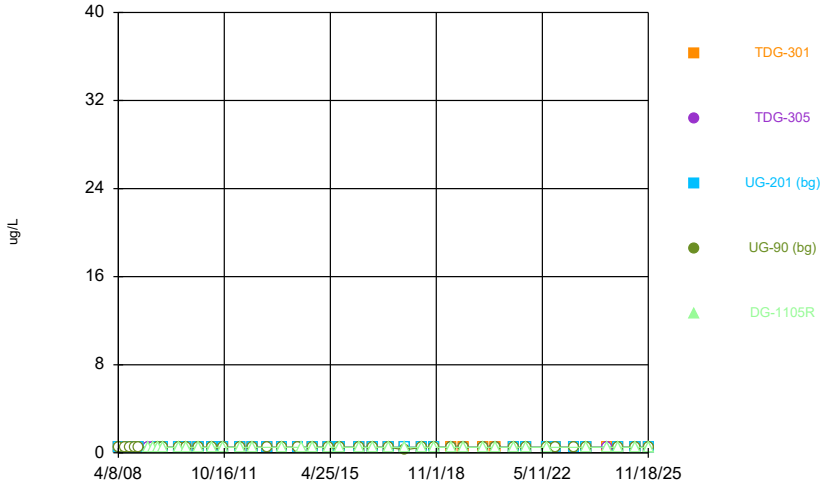
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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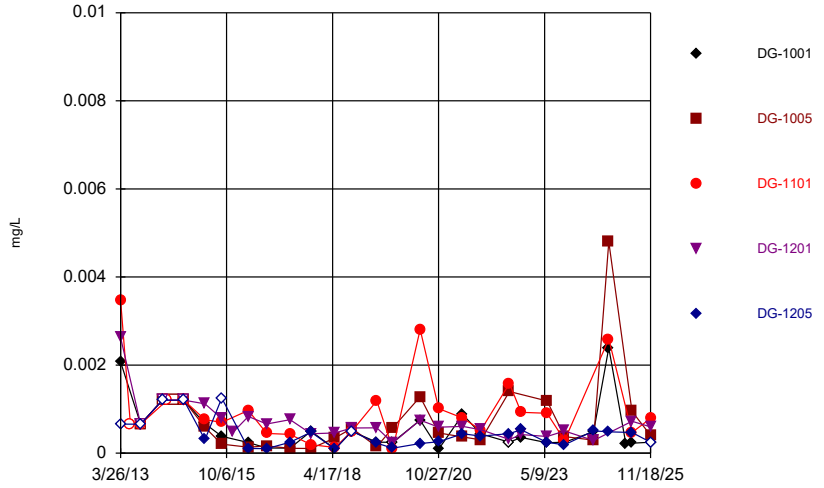
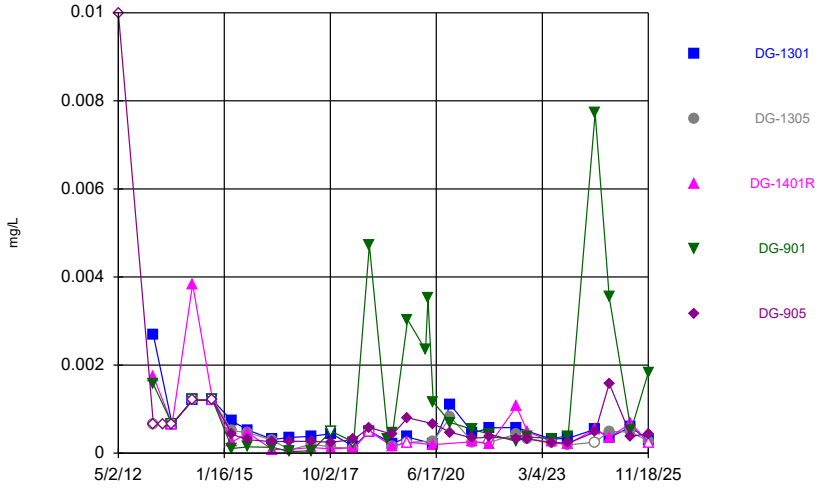
Time Series



Constituent: Cobalt Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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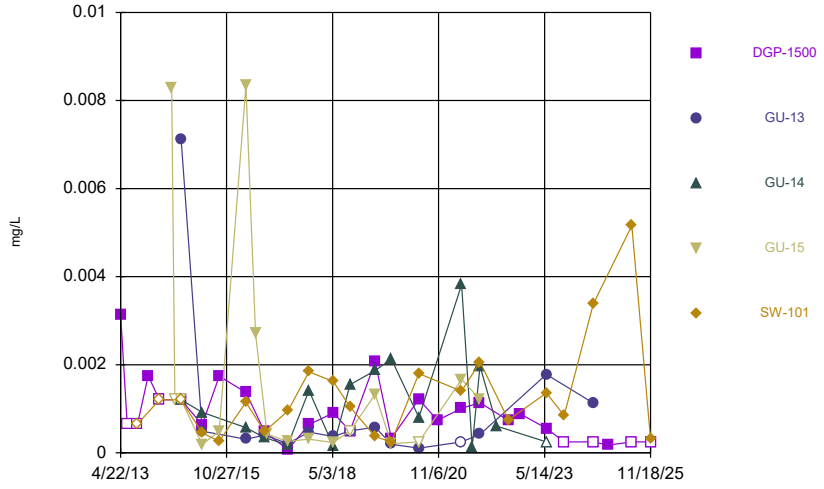

Constituent: Cobalt Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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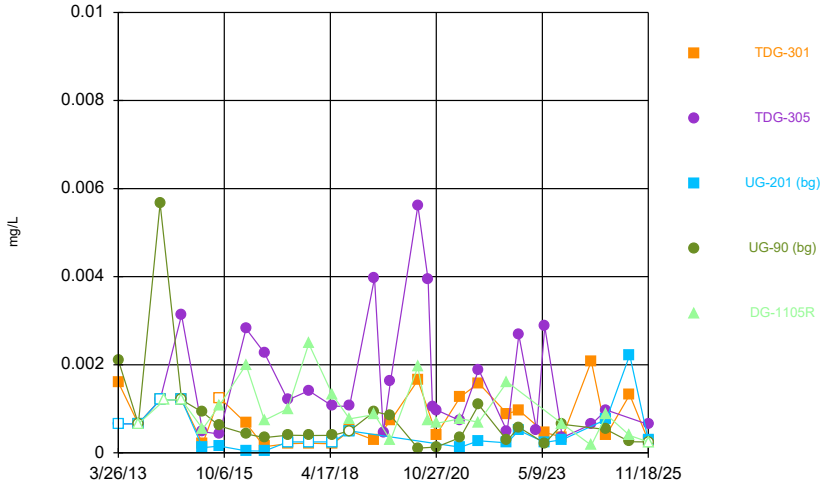

Constituent: Cobalt Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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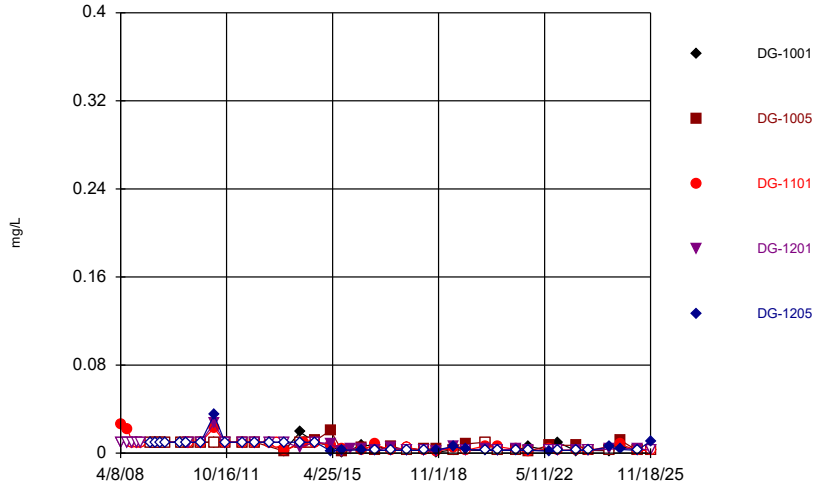
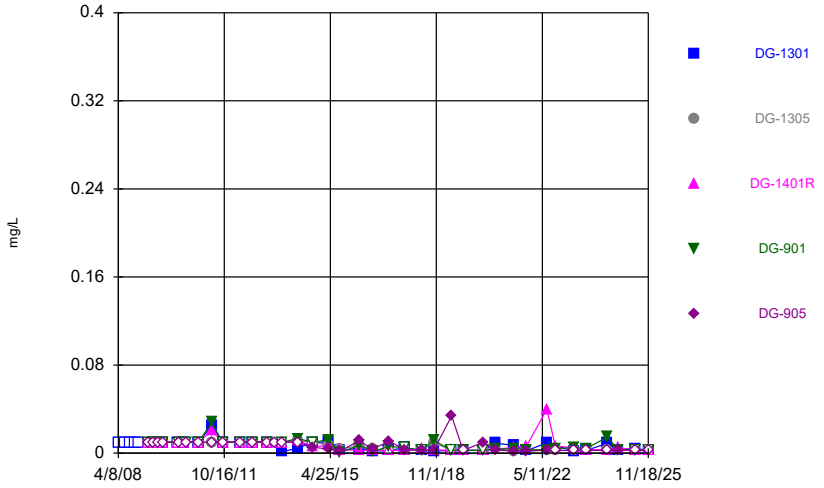


Constituent: Copper Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Copper Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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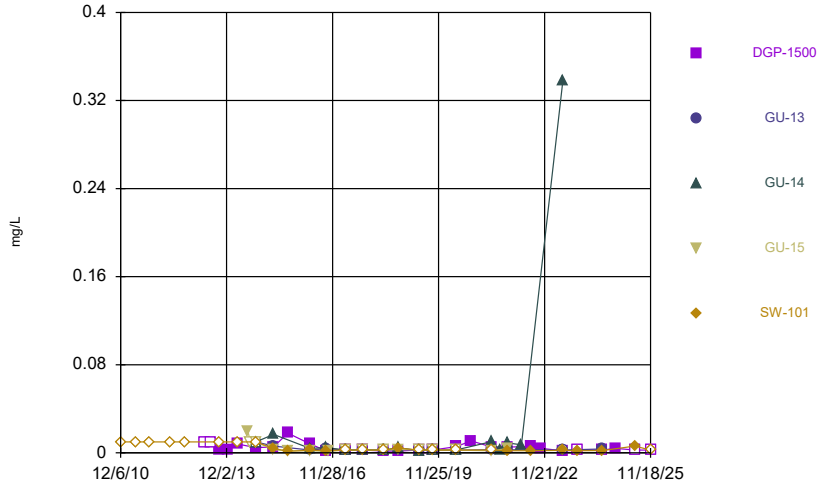
Time Series



Constituent: Copper Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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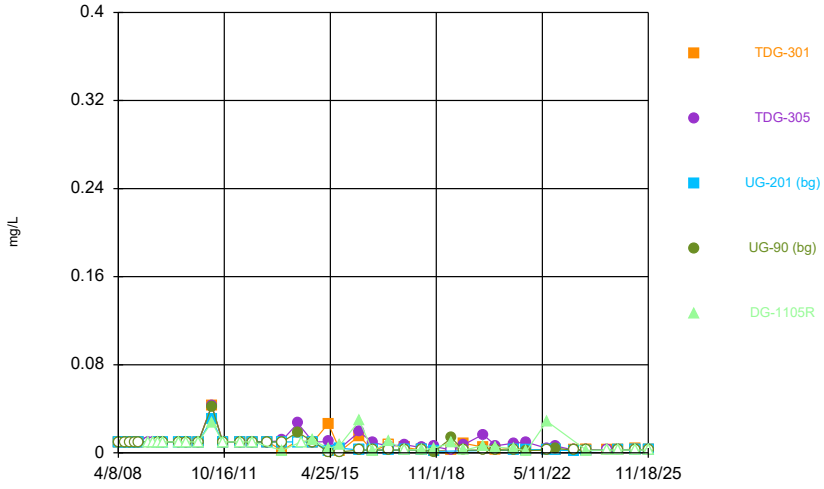

Constituent: Copper Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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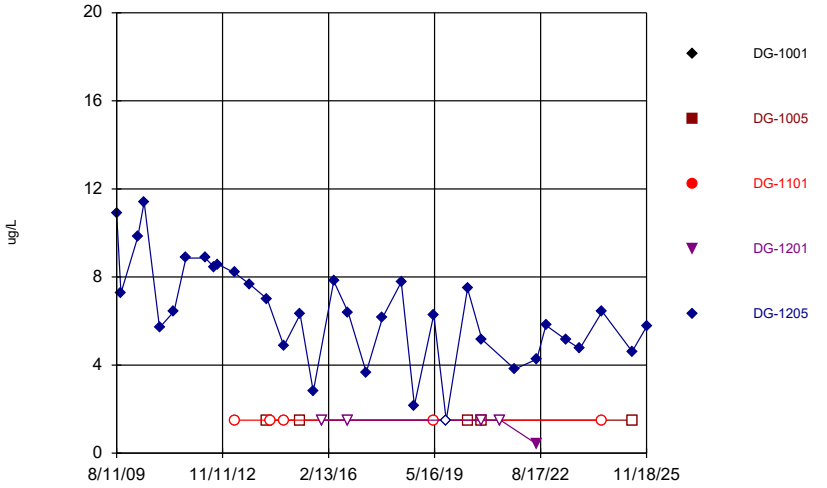

Constituent: Dichlorodifluoromethane Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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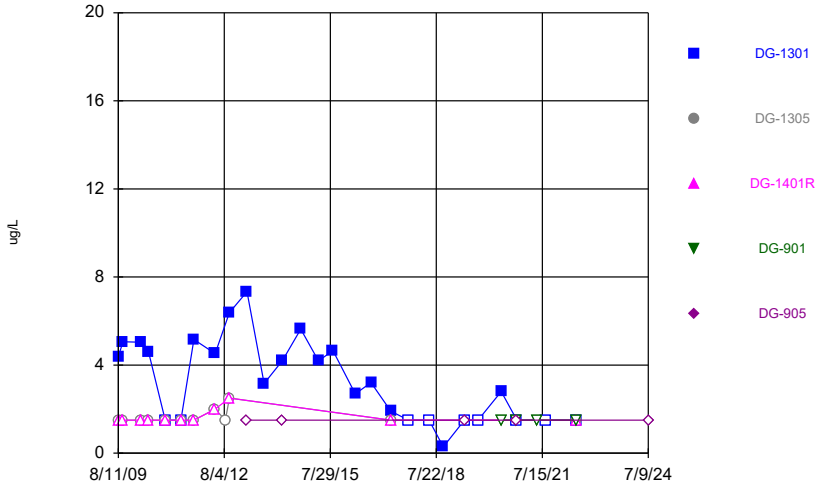
Time Series



Constituent: Dichlorodifluoromethane Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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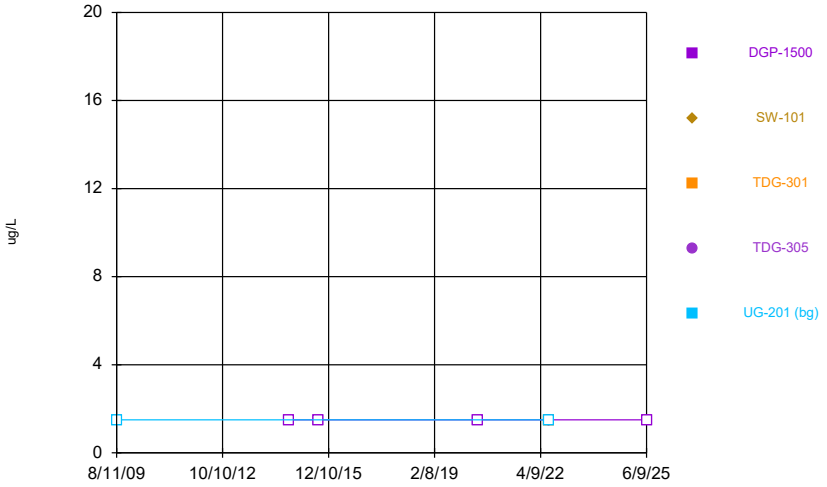
Time Series



Constituent: Dichlorodifluoromethane Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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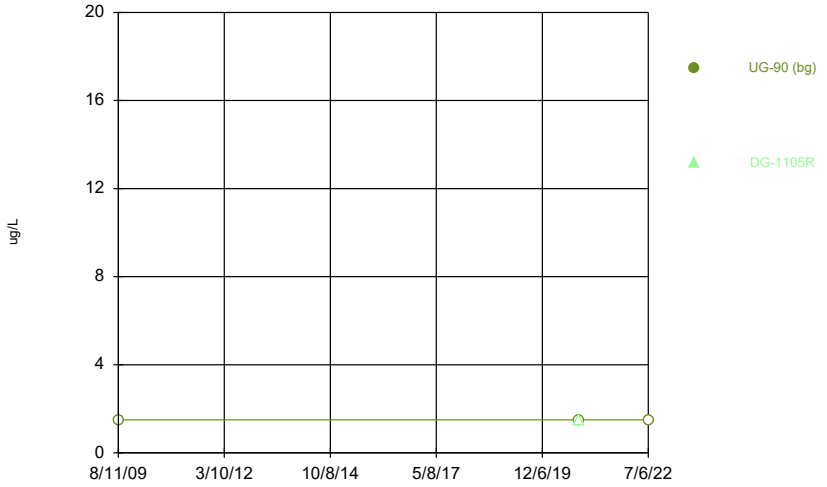

Constituent: Dichlorodifluoromethane Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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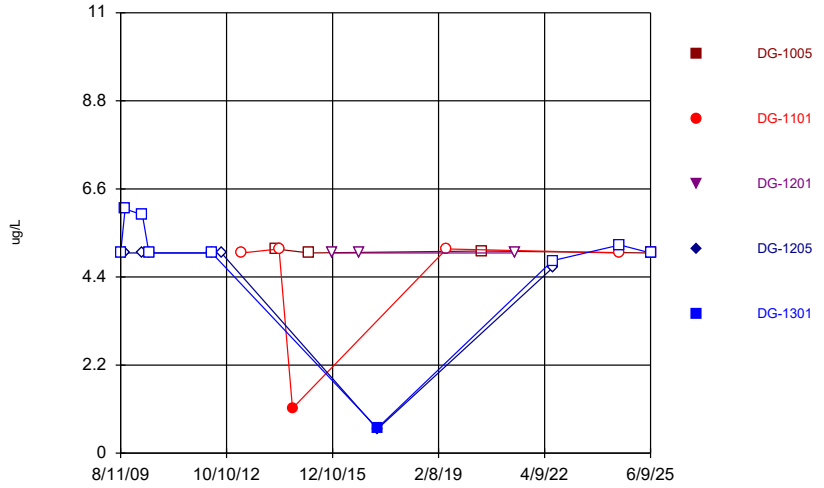
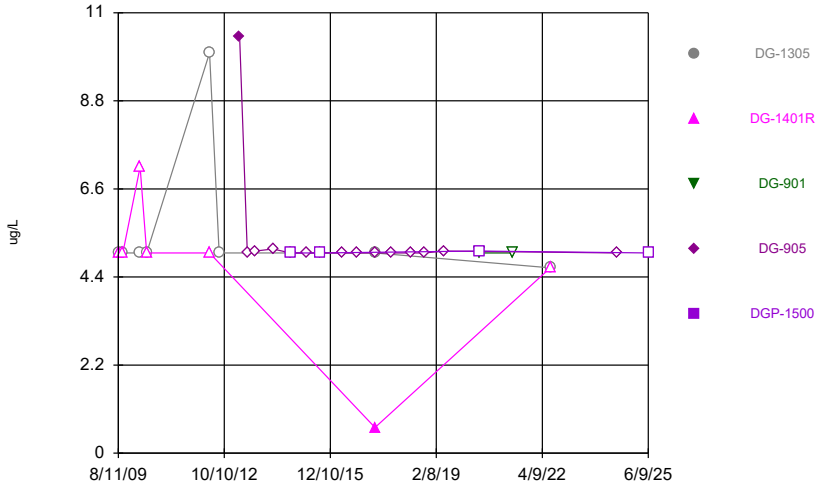


Constituent: Di-n-butyl phthalate Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Di-n-butyl phthalate Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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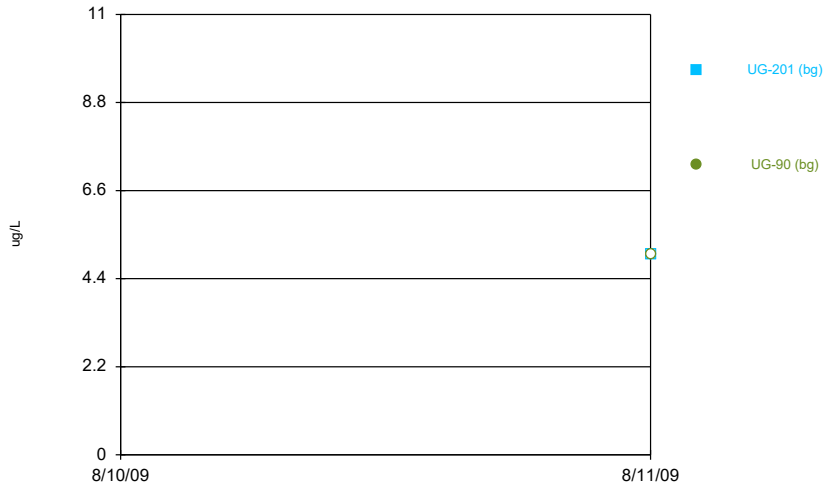
Time Series



Constituent: Di-n-butyl phthalate Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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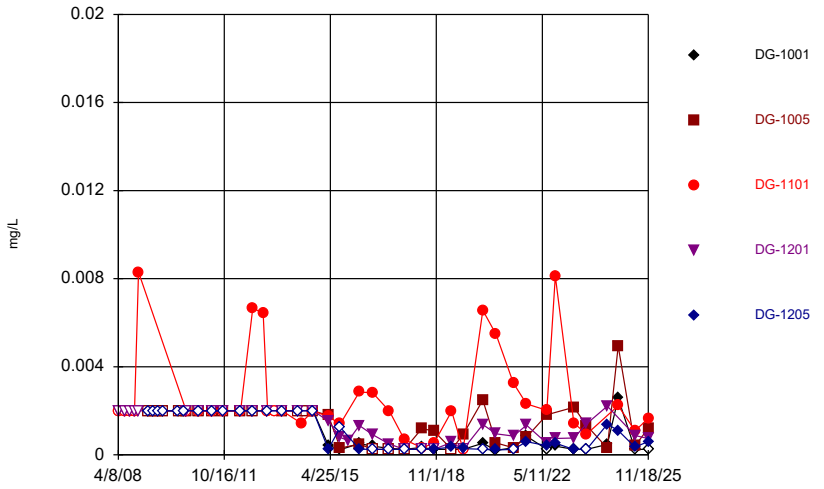
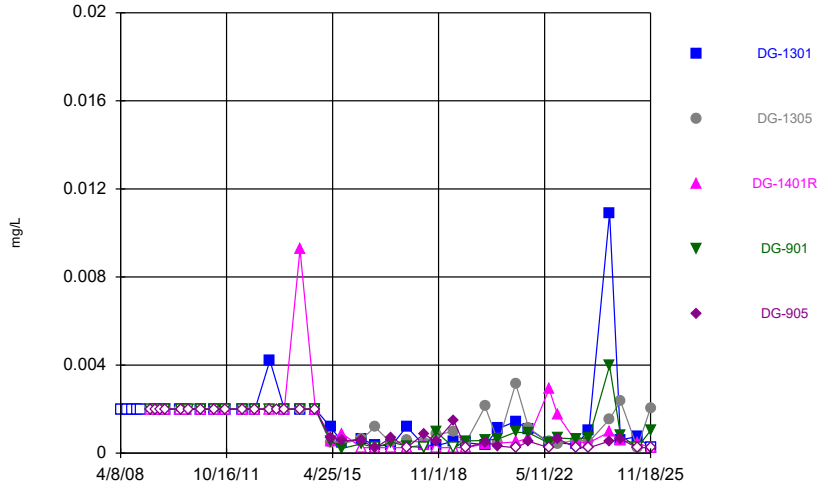
Time Series



Constituent: Lead Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Lead Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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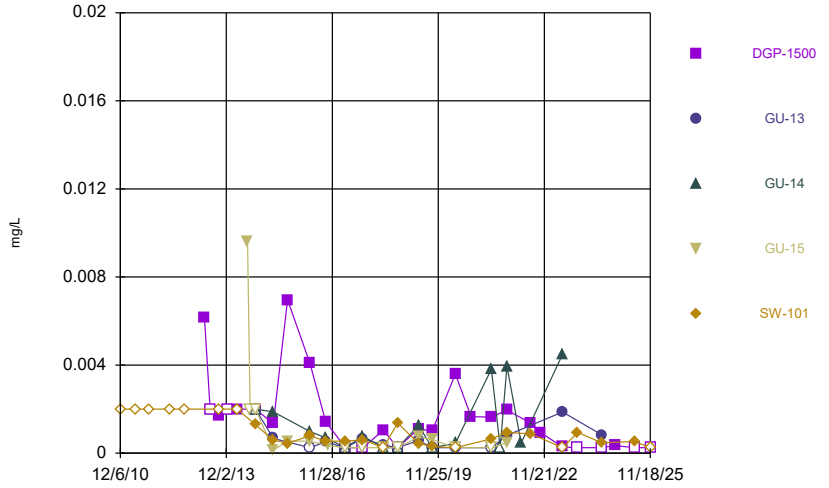

Constituent: Lead Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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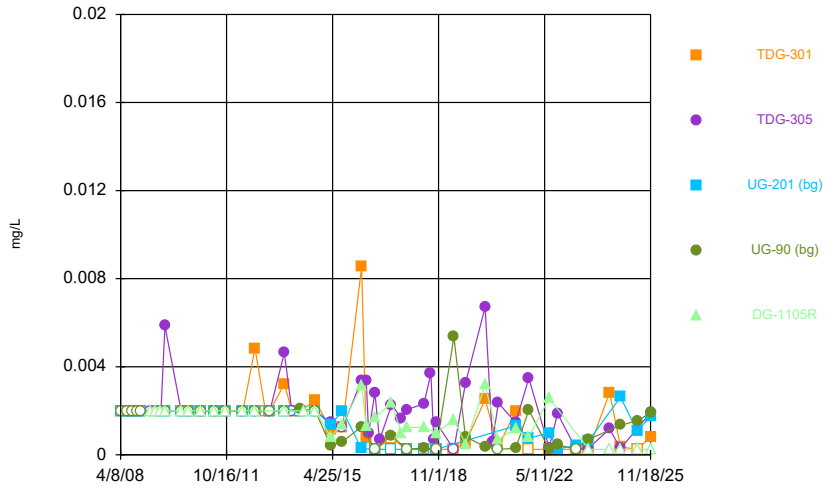
Time Series



Constituent: Lead Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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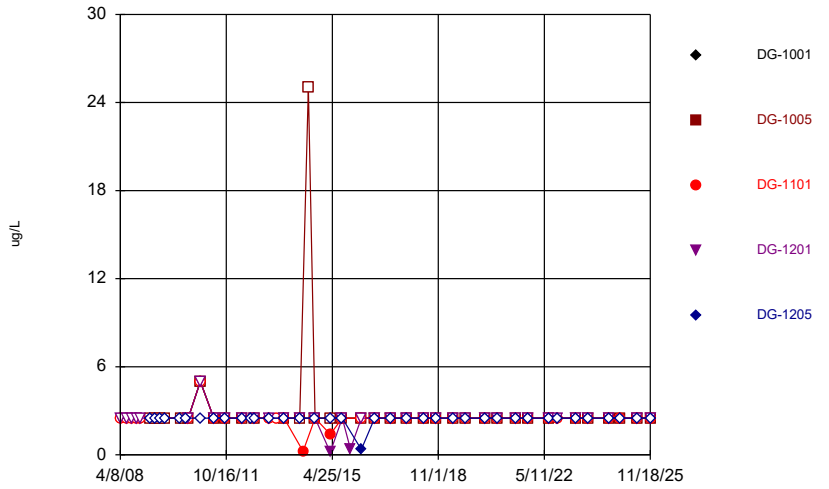
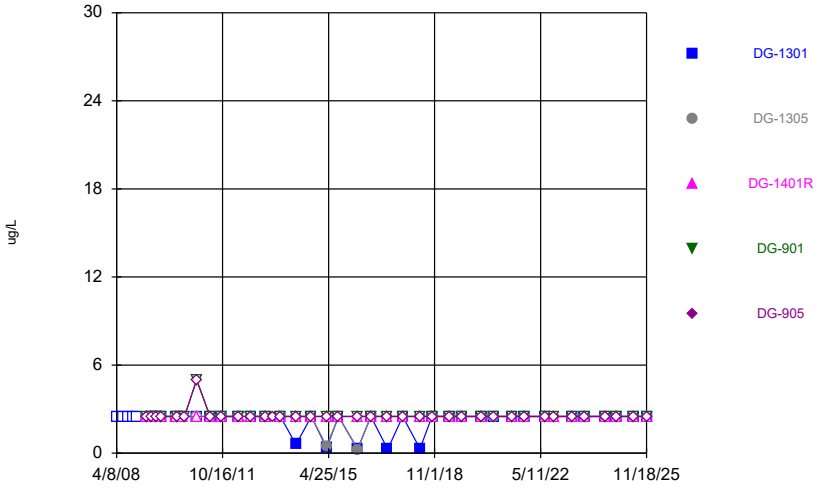
Time Series



Constituent: Methylene Chloride Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

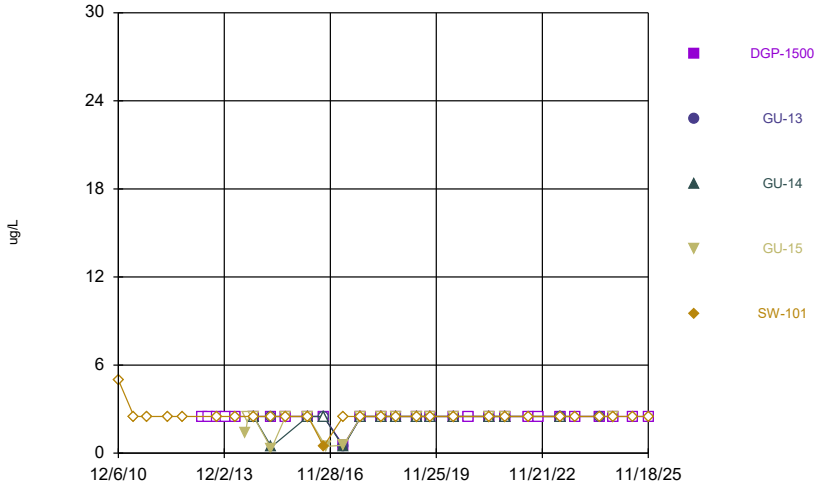
Time Series



Constituent: Methylene Chloride Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

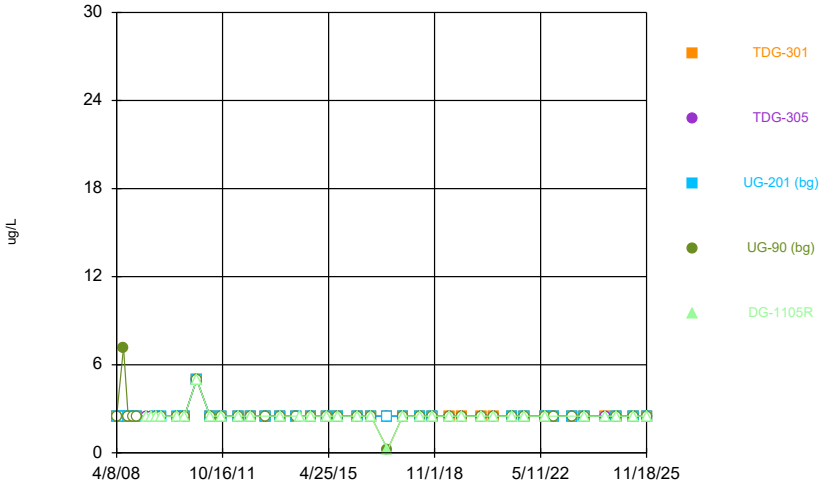
Time Series



Constituent: Methylene Chloride Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

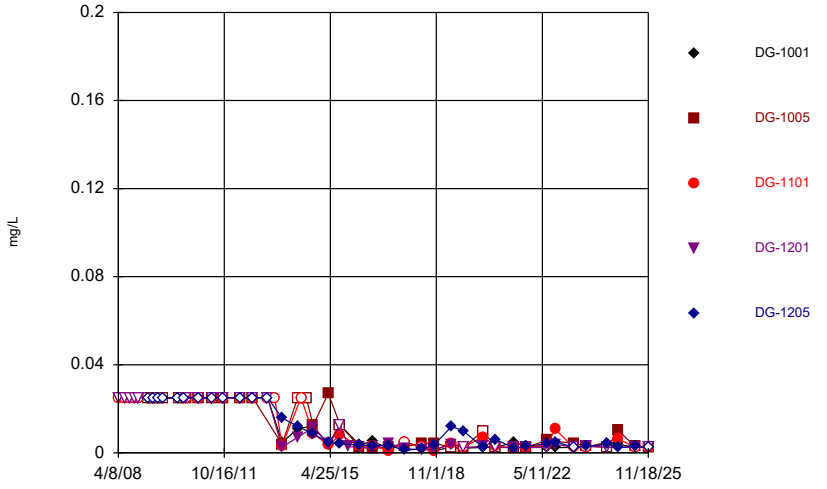
Time Series



Constituent: Methylene Chloride Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

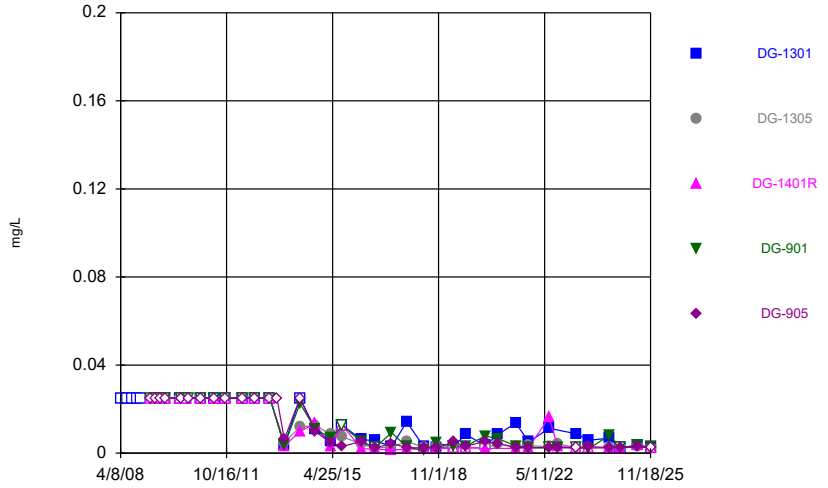
Time Series



Constituent: Nickel Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

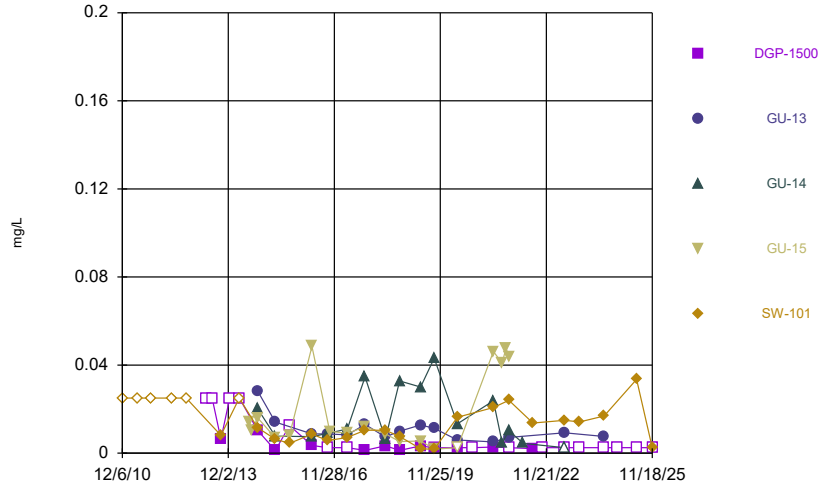
Time Series



Constituent: Nickel Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

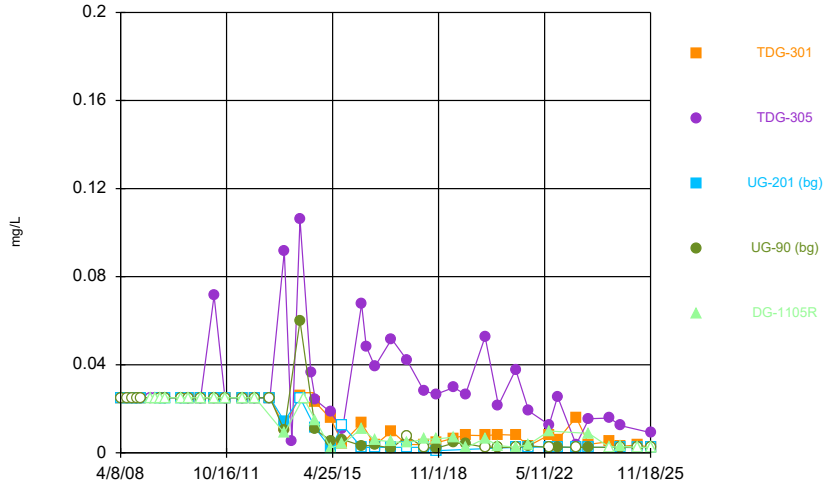
Time Series



Constituent: Nickel Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

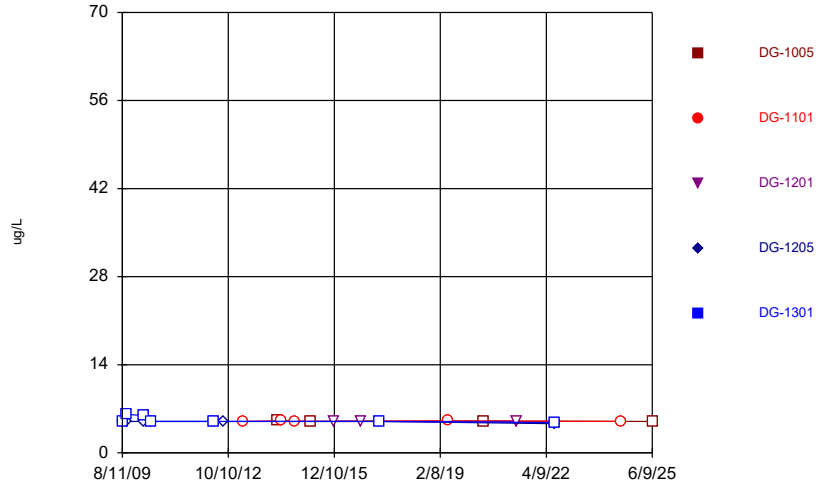
Time Series



Constituent: Nickel Analysis Run 1/5/2026 10:53 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

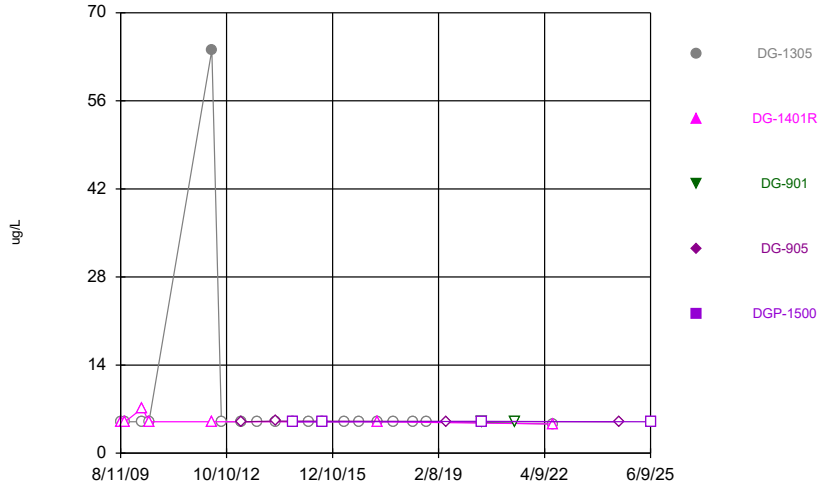
Time Series



Constituent: Parathion-ethyl Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

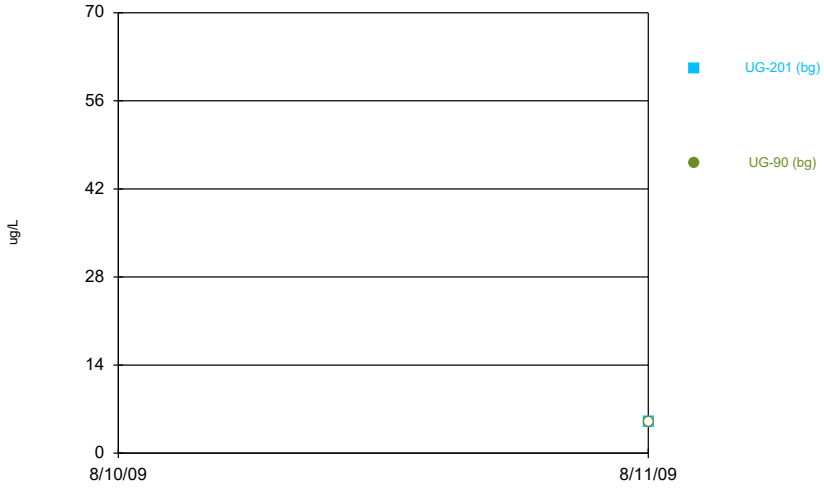
Time Series



Constituent: Parathion-ethyl Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

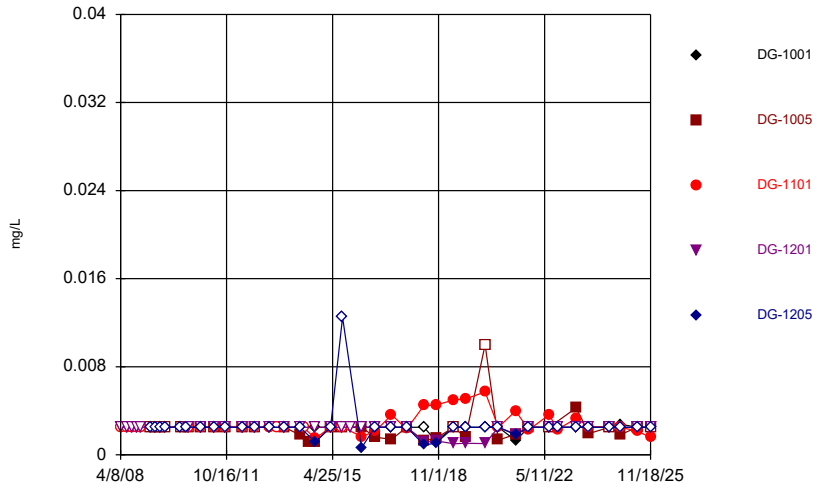
Time Series



Constituent: Parathion-ethyl Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

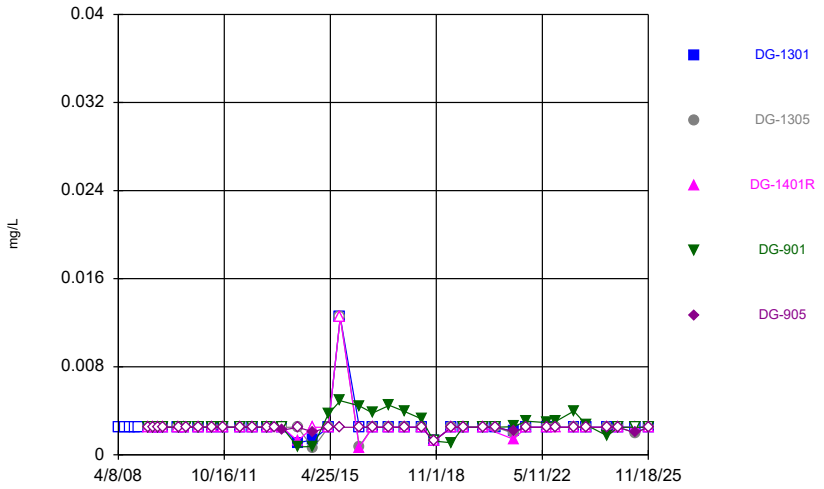
Time Series



Constituent: Selenium Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

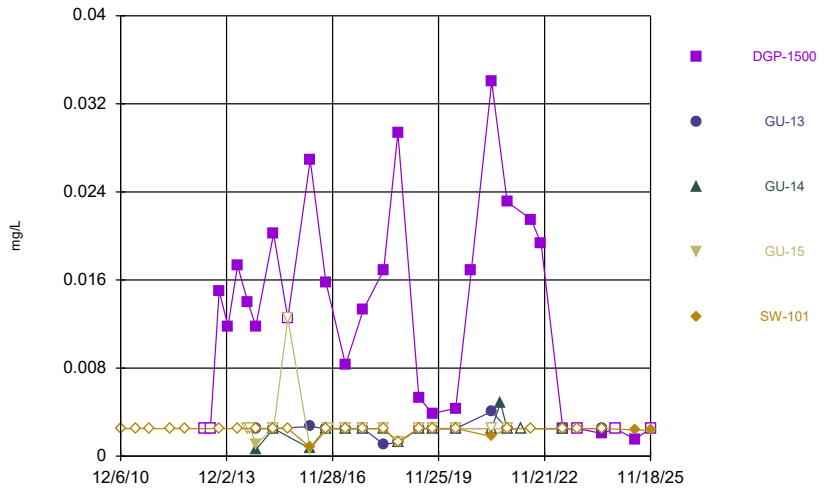
Time Series



Constituent: Selenium Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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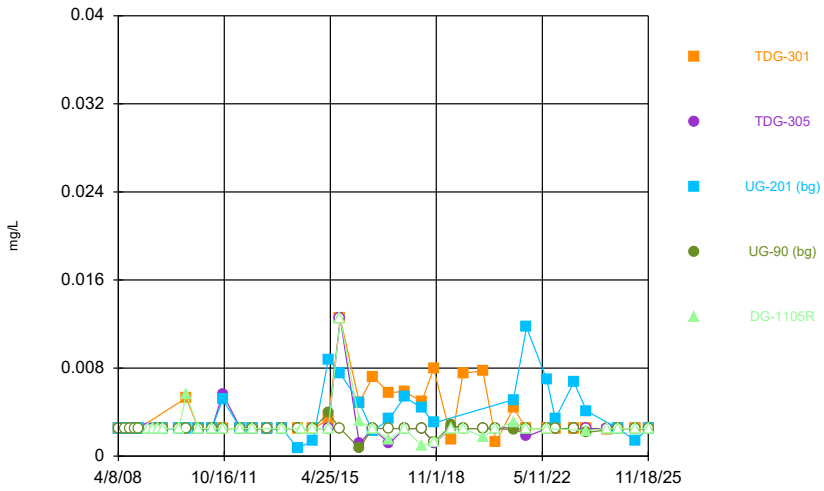
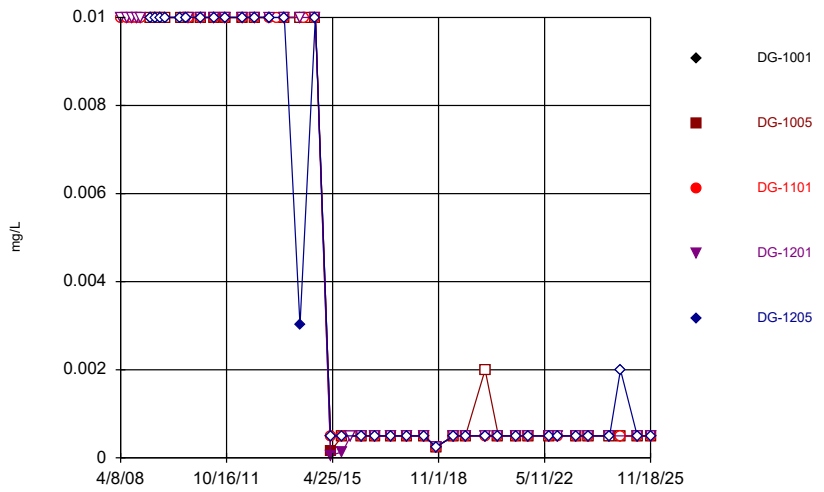
Time Series



Constituent: Selenium Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

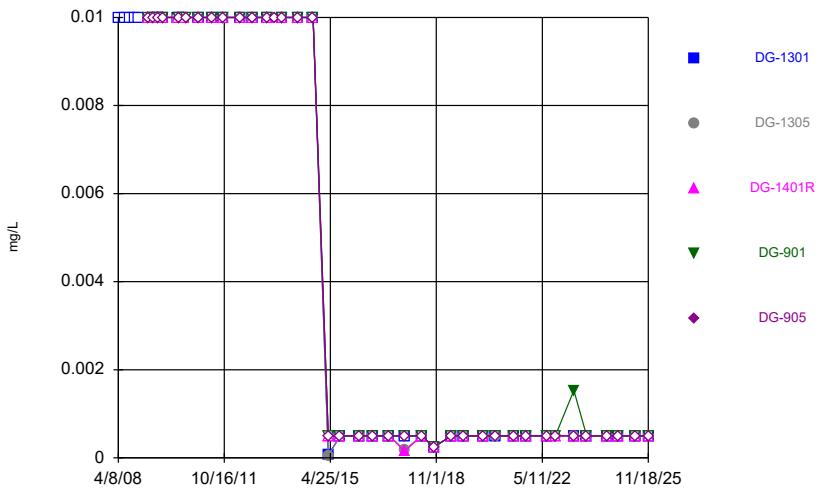
Time Series



Constituent: Silver Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Silver Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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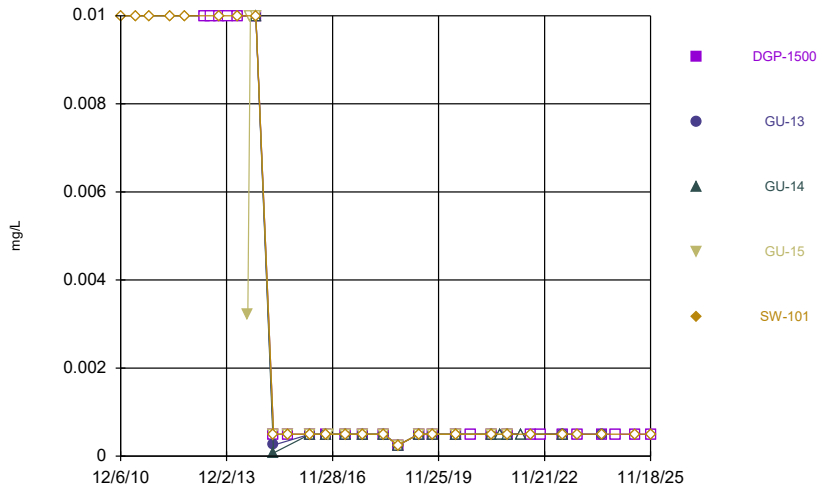
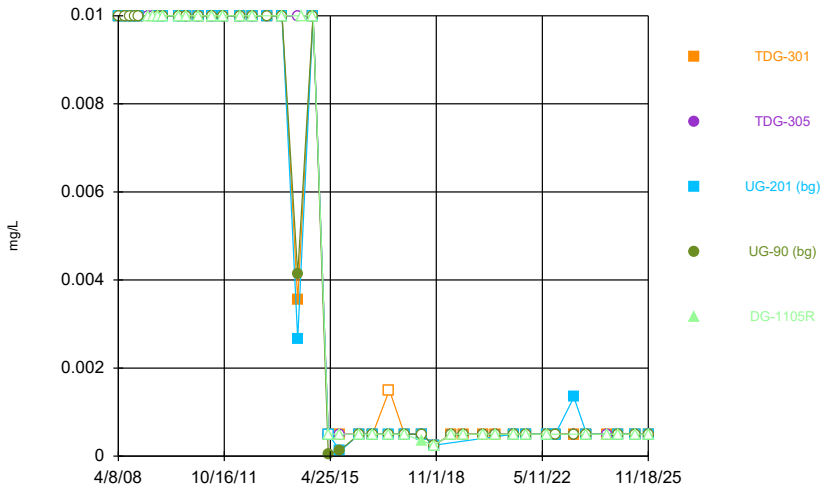
Time Series



Constituent: Silver Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

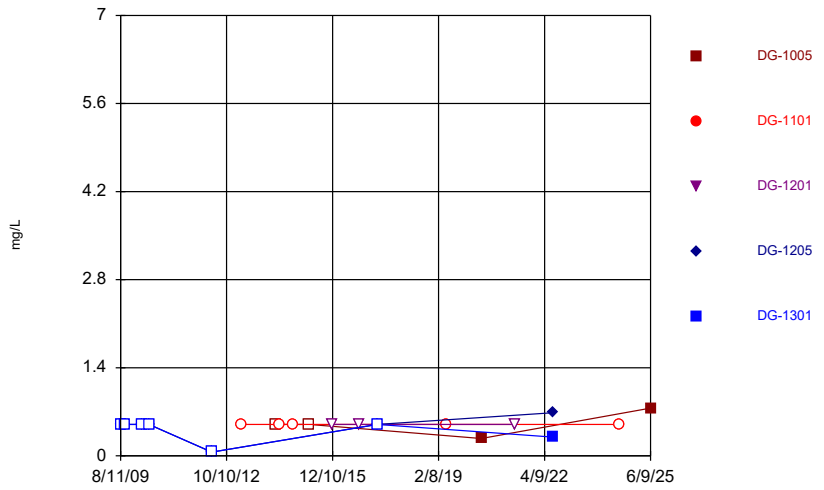
Time Series



Constituent: Silver Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

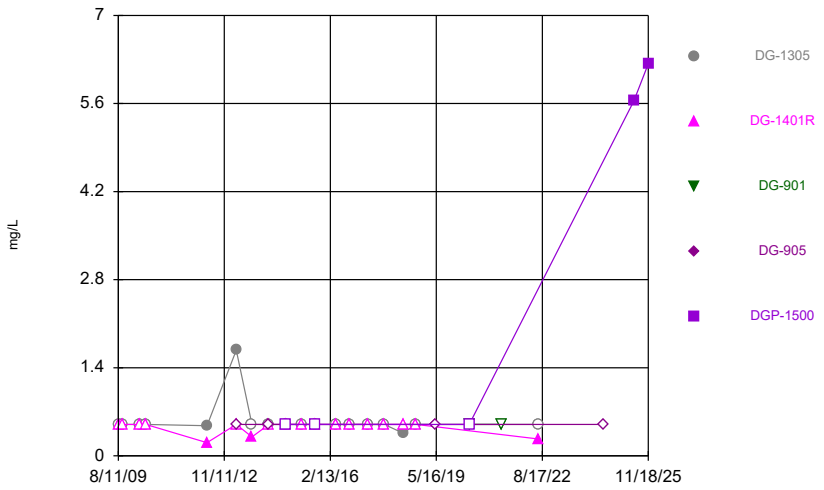
Time Series



Constituent: Sulfide Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

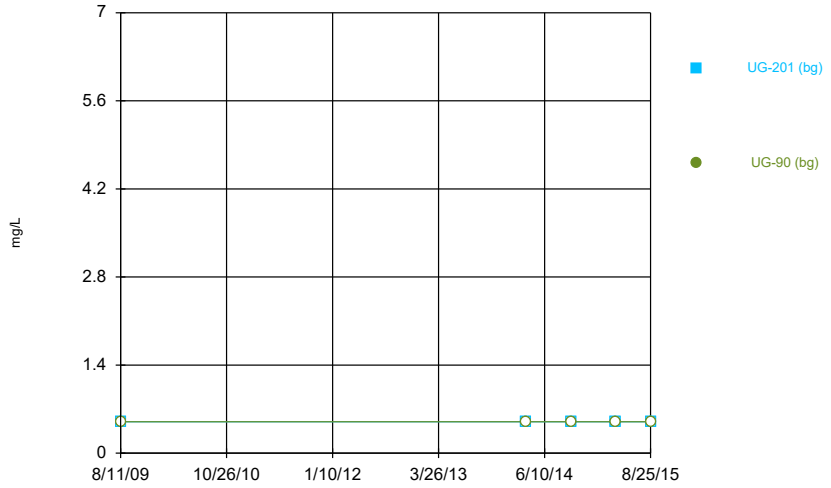
Time Series



Constituent: Sulfide Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Sulfide Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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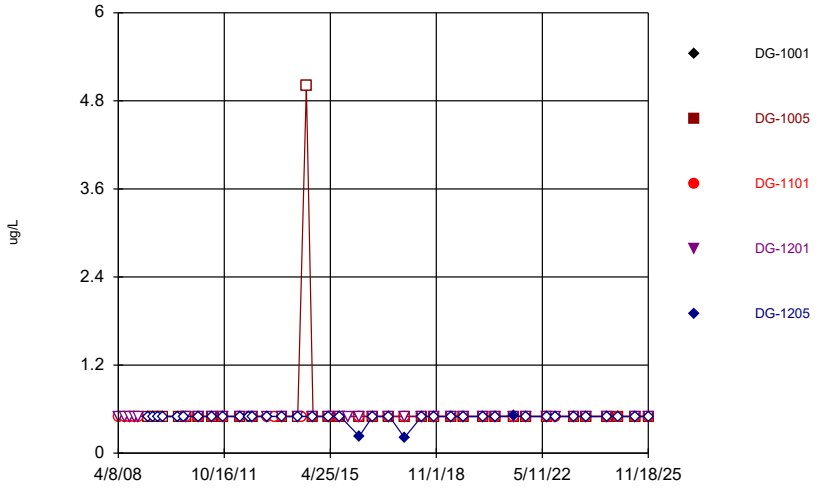
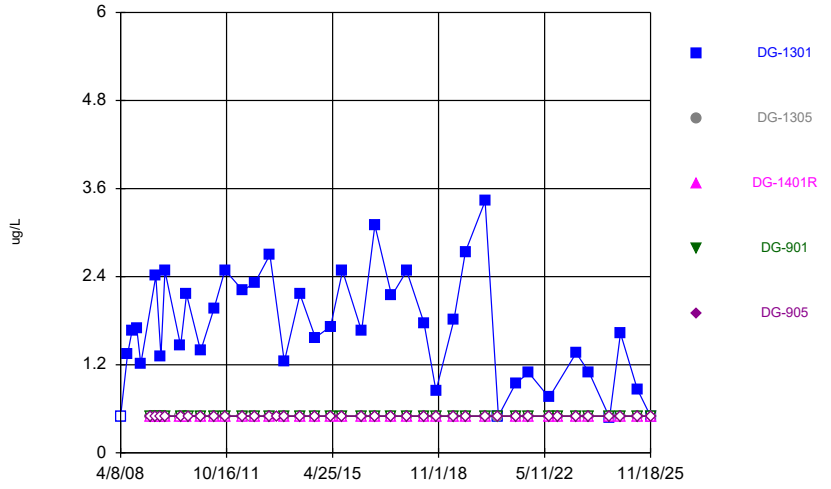
Time Series



Constituent: Tetrachloroethene Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

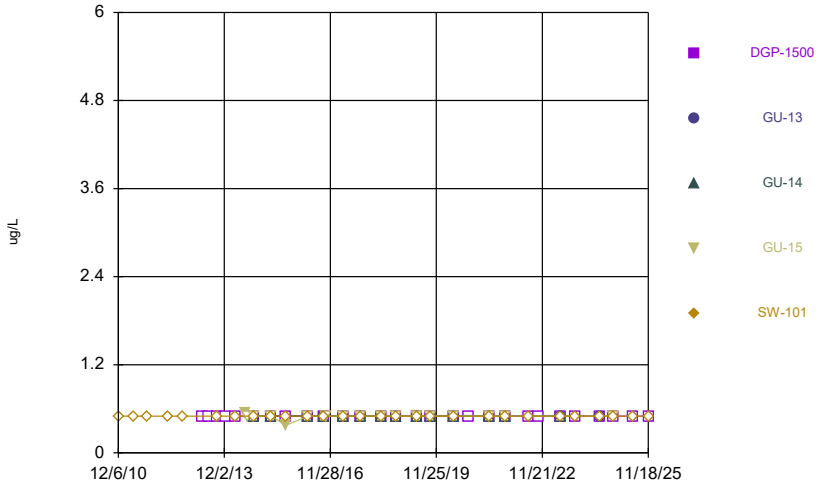
Time Series



Constituent: Tetrachloroethene Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

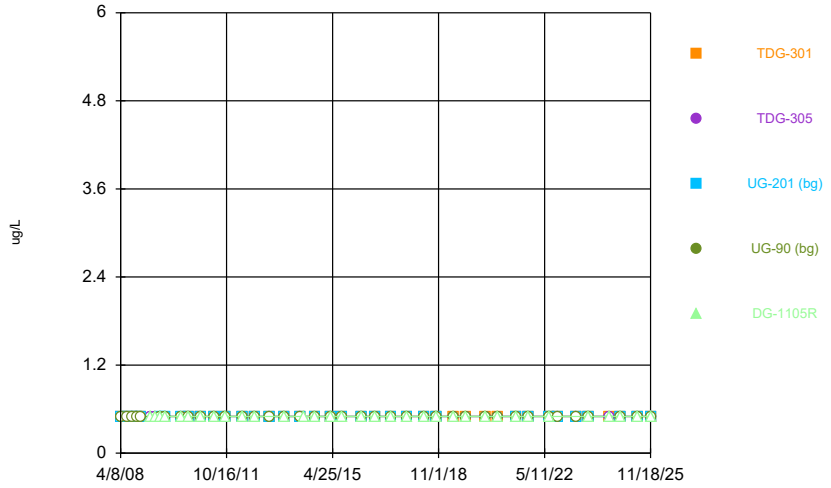
Time Series



Constituent: Tetrachloroethene Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Tetrachloroethene Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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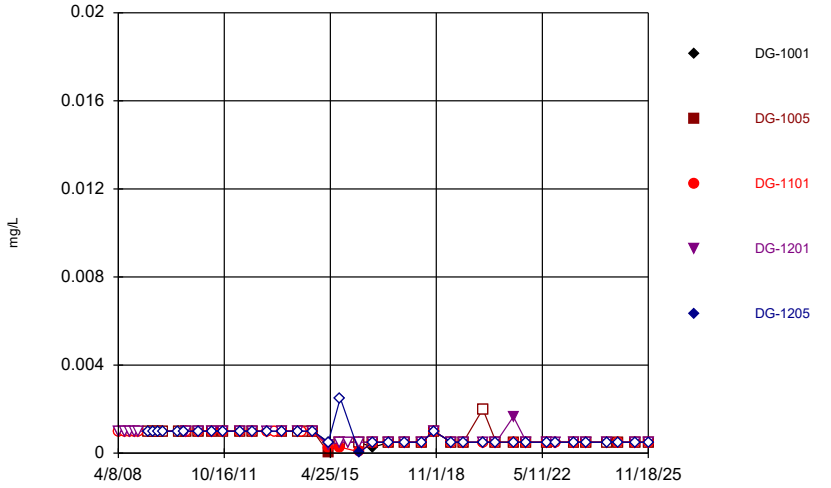
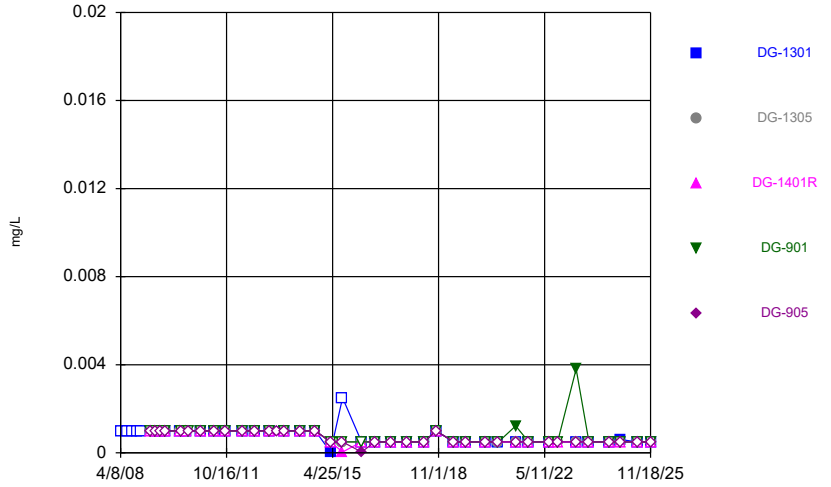
Time Series



Constituent: Thallium Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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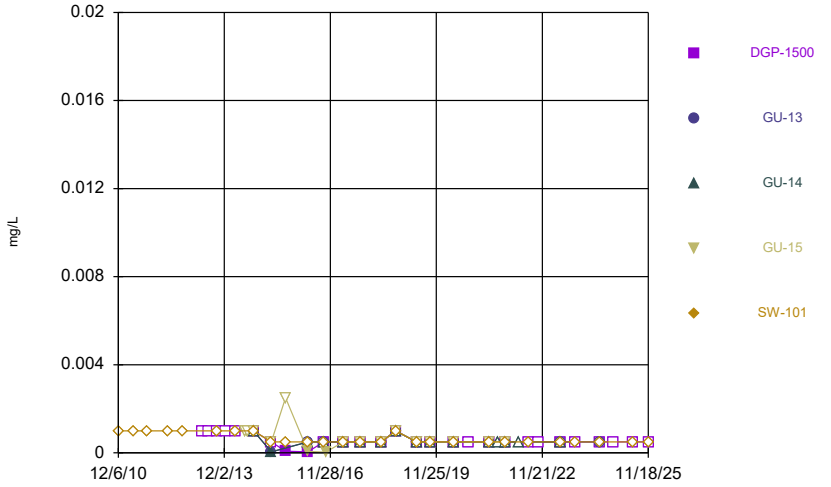
Time Series



Constituent: Thallium Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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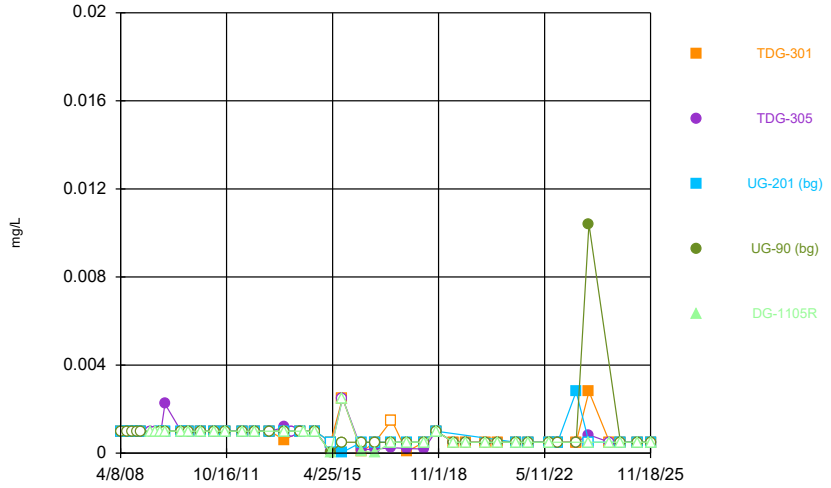
Time Series



Constituent: Thallium Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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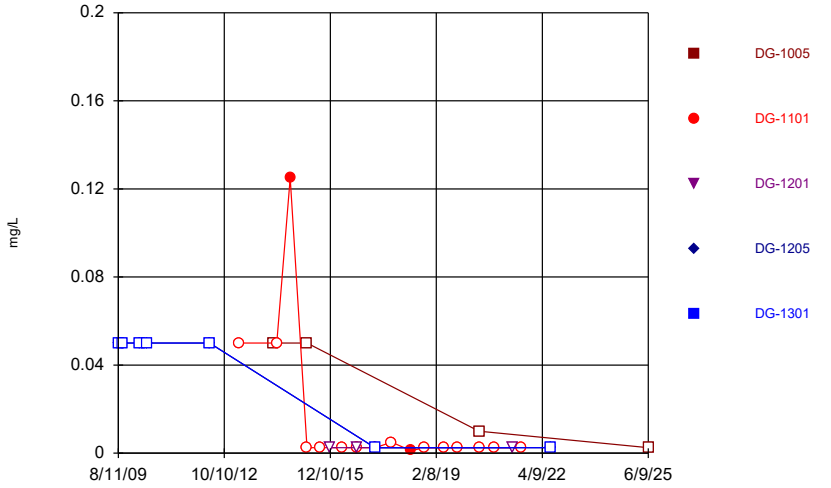
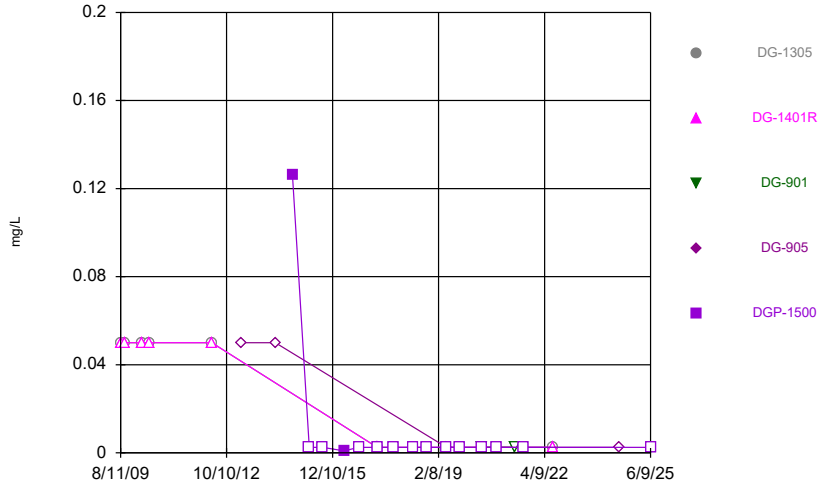
Time Series



Constituent: Tin Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

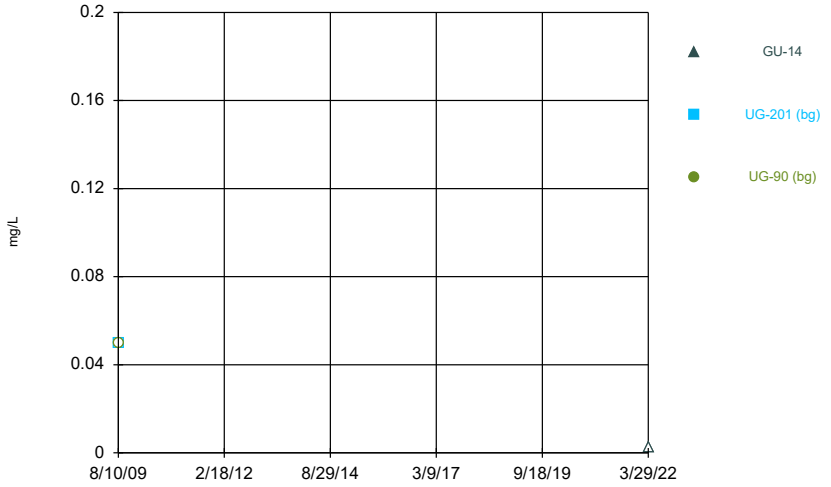
Time Series



Constituent: Tin Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Tin Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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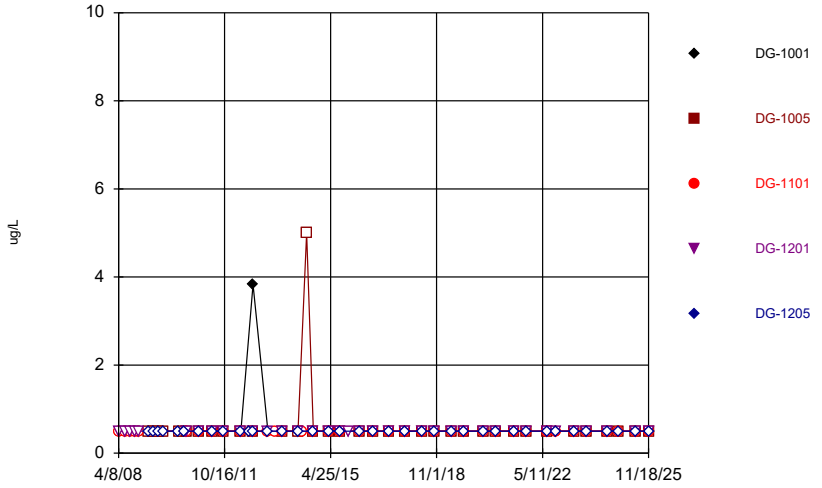
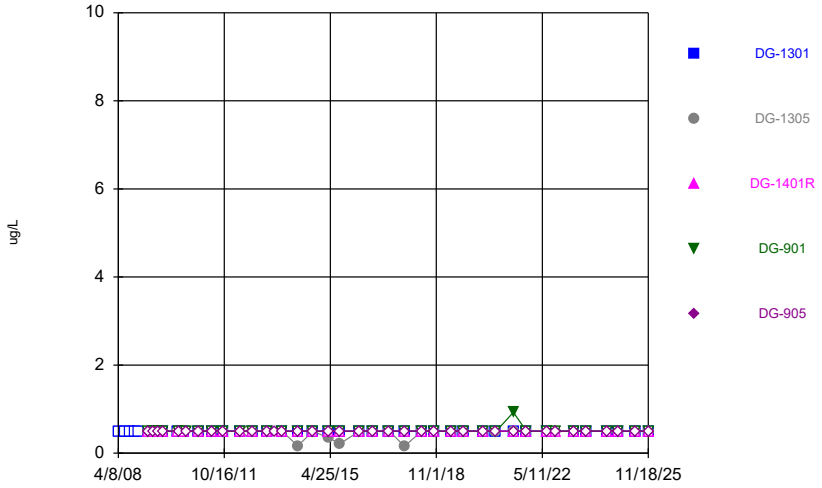
Time Series



Constituent: Toluene Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

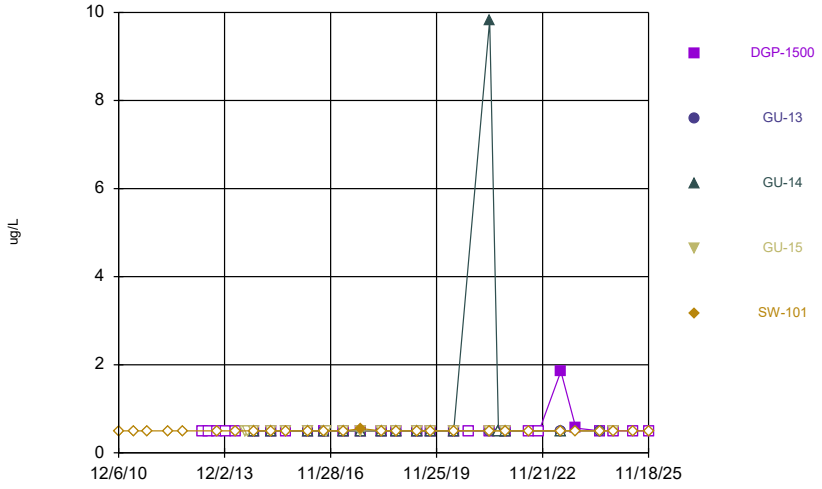
Time Series



Constituent: Toluene Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Toluene Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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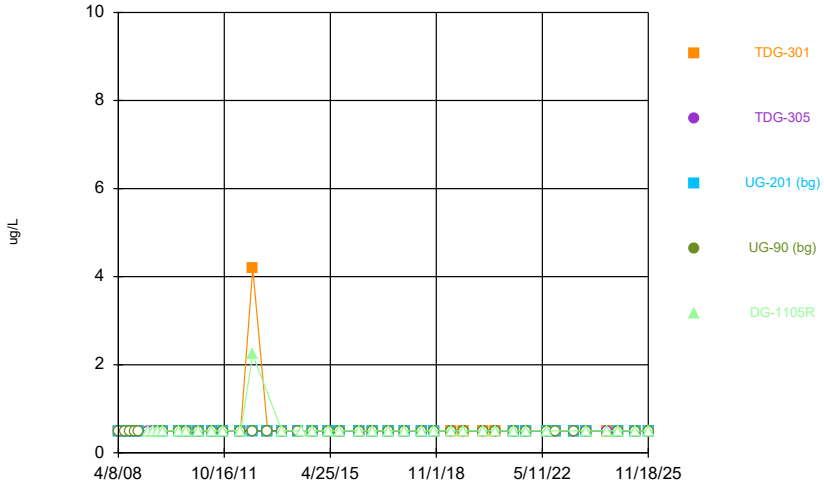
Time Series



Constituent: Toluene Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
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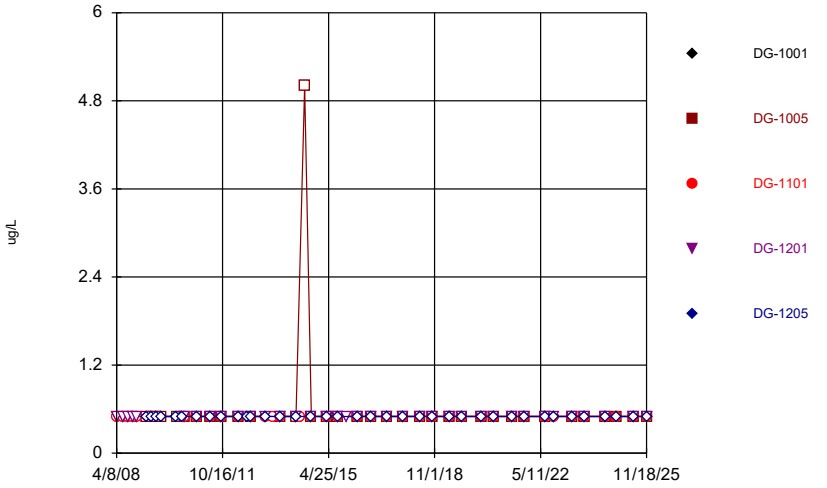
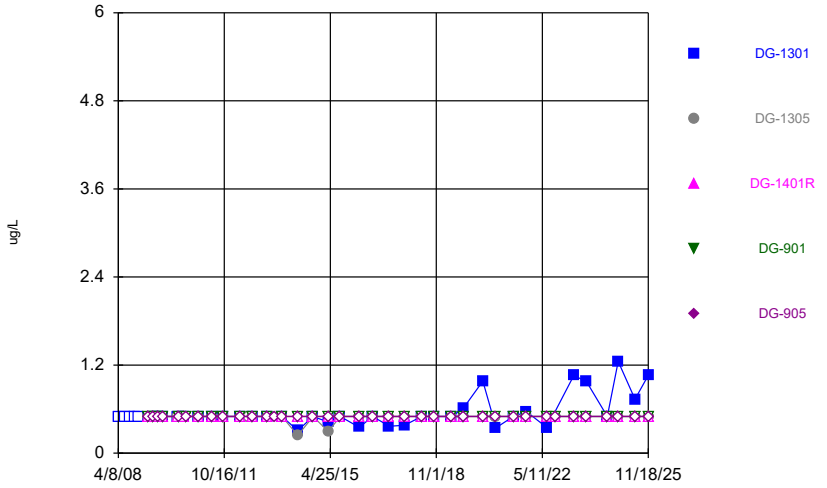
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

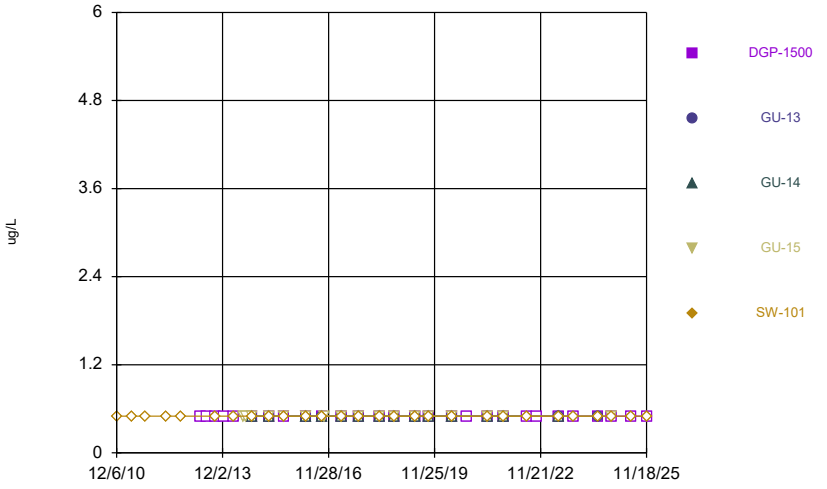
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

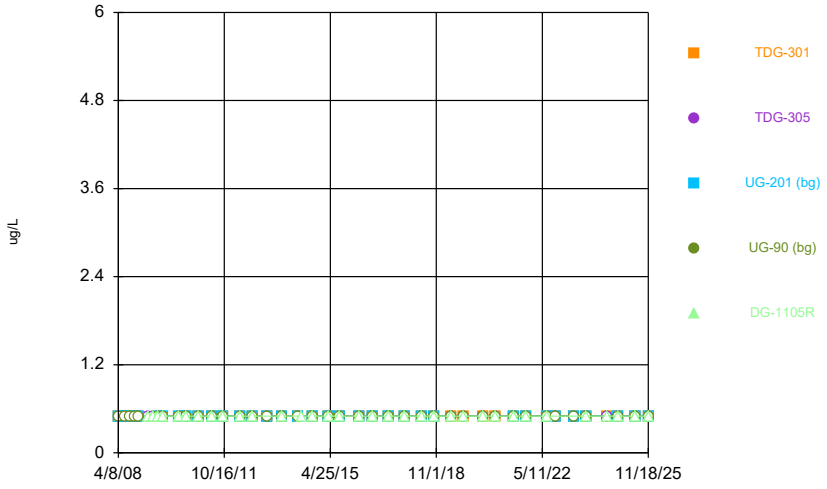
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

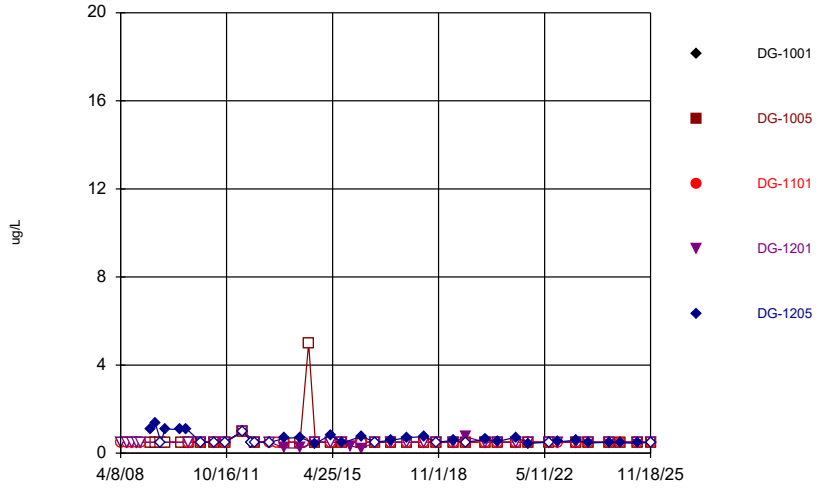
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

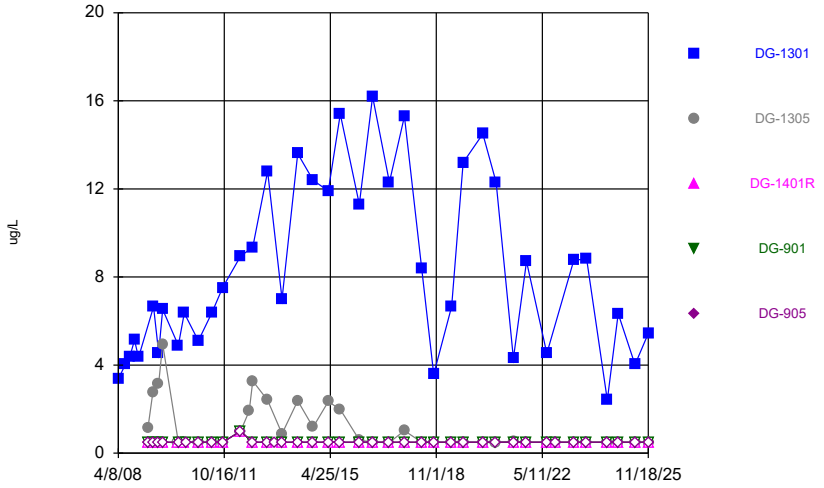
Time Series



Constituent: Trichloroethene Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

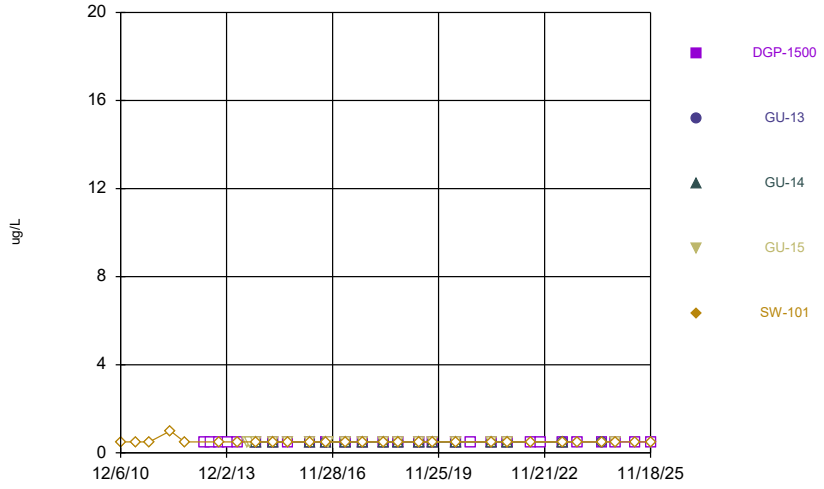
Time Series



Constituent: Trichloroethene Analysis Run 1/5/2026 10:54 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

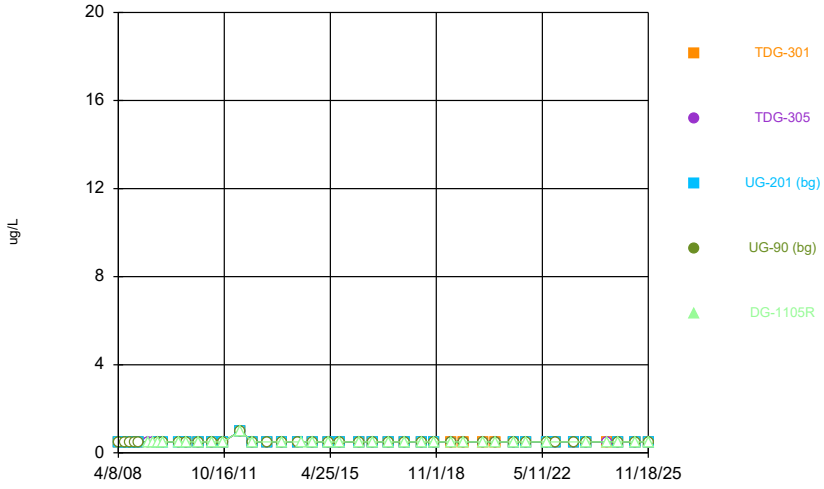
Time Series



Constituent: Trichloroethene Analysis Run 1/5/2026 10:55 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

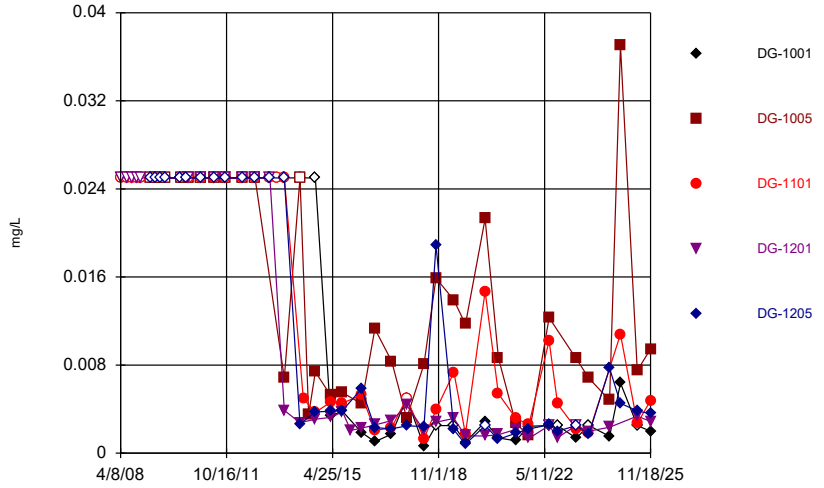
Time Series



Constituent: Trichloroethene Analysis Run 1/5/2026 10:55 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

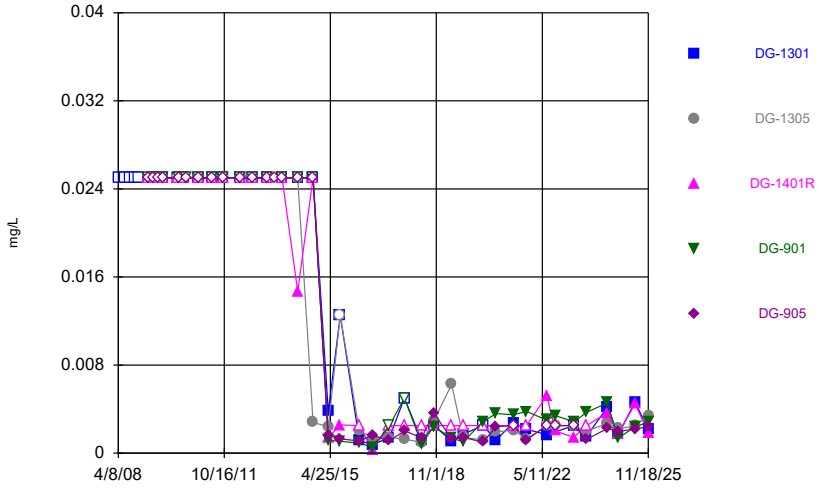
Time Series



Constituent: Vanadium Analysis Run 1/5/2026 10:55 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

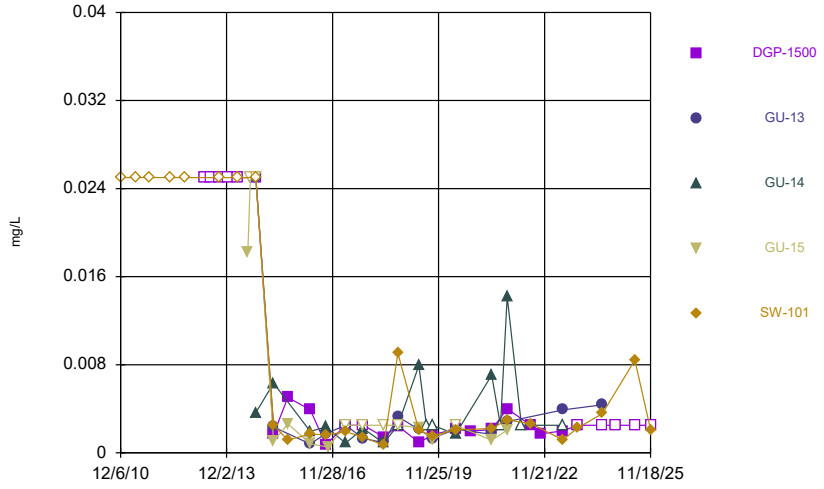
Time Series



Constituent: Vanadium Analysis Run 1/5/2026 10:55 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

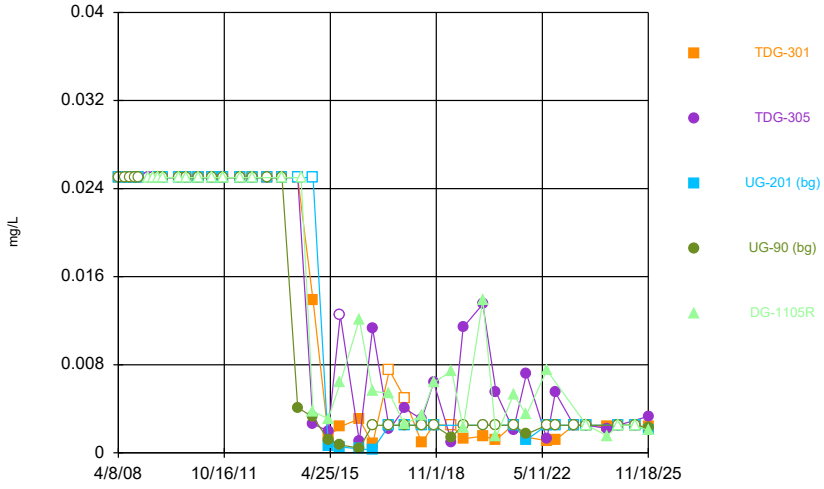
Time Series



Constituent: Vanadium Analysis Run 1/5/2026 10:55 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

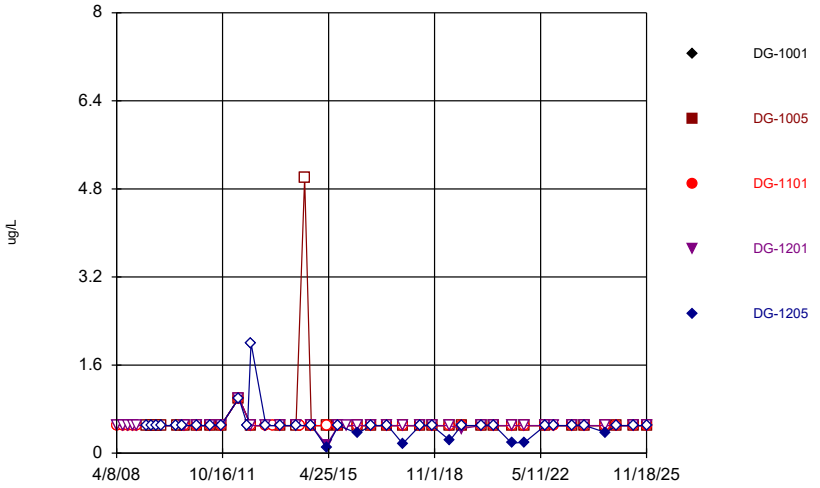
Time Series



Constituent: Vanadium Analysis Run 1/5/2026 10:55 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

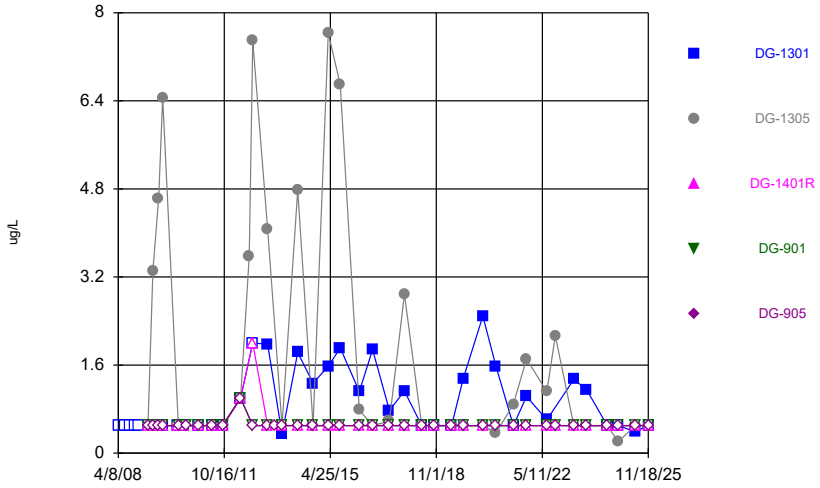
Time Series



Constituent: Vinyl chloride Analysis Run 1/5/2026 10:55 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

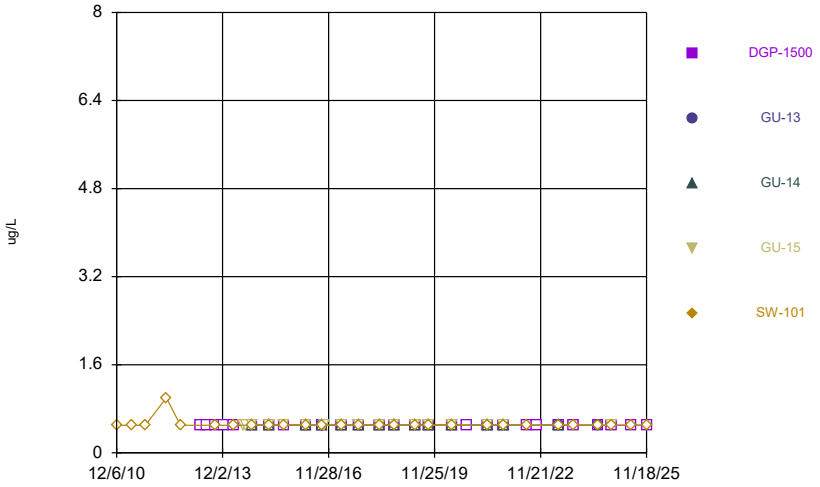
Time Series



Constituent: Vinyl chloride Analysis Run 1/5/2026 10:55 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

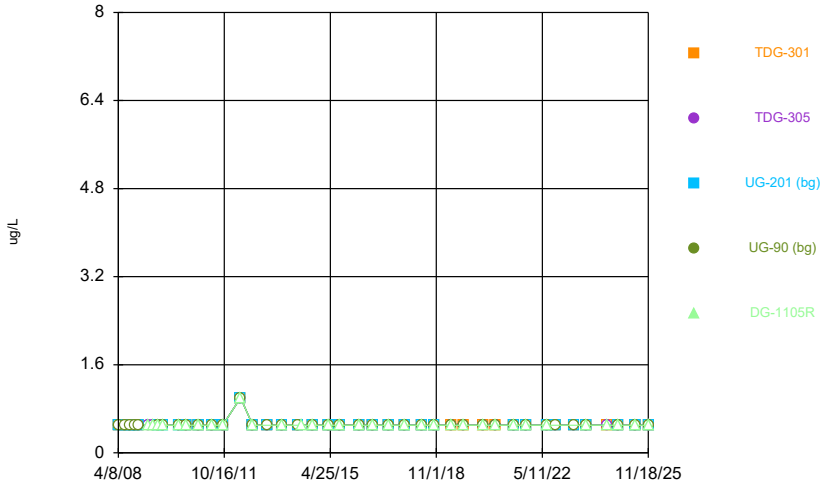
Time Series



Constituent: Vinyl chloride Analysis Run 1/5/2026 10:55 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

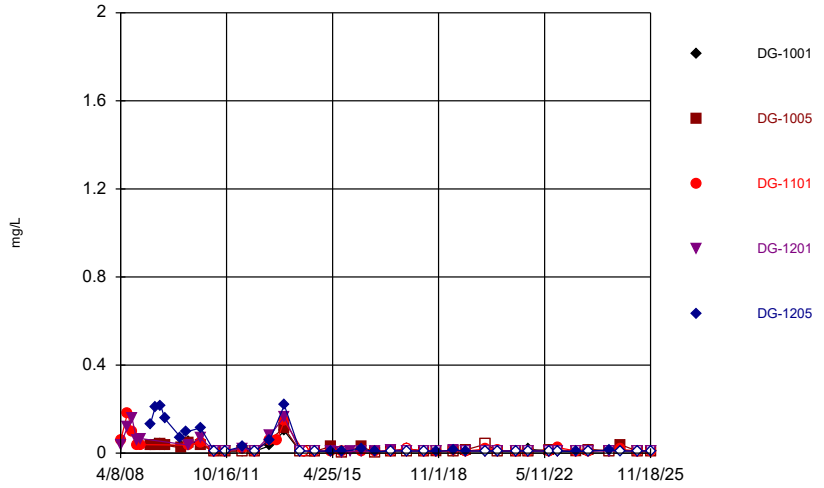
Time Series



Constituent: Vinyl chloride Analysis Run 1/5/2026 10:55 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

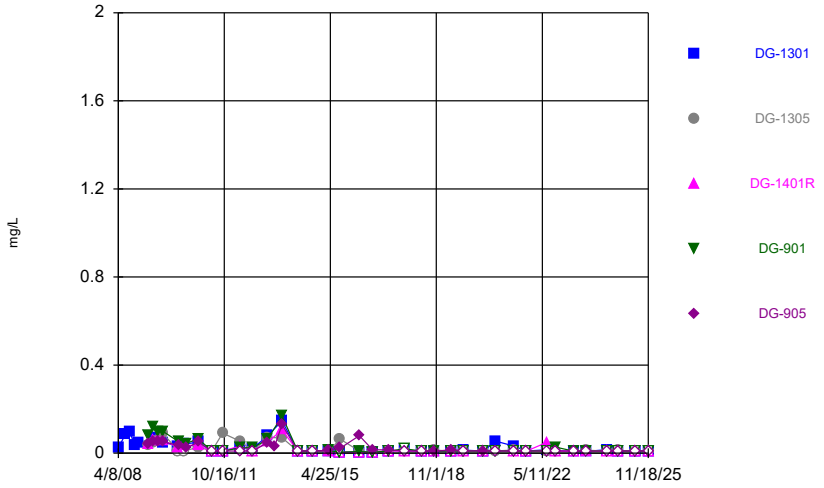
Time Series



Constituent: Zinc Analysis Run 1/5/2026 10:55 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

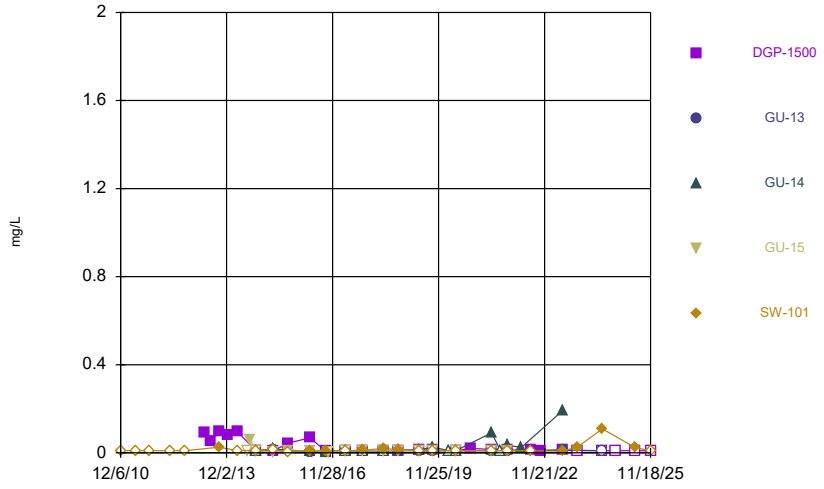
Time Series



Constituent: Zinc Analysis Run 1/5/2026 10:55 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

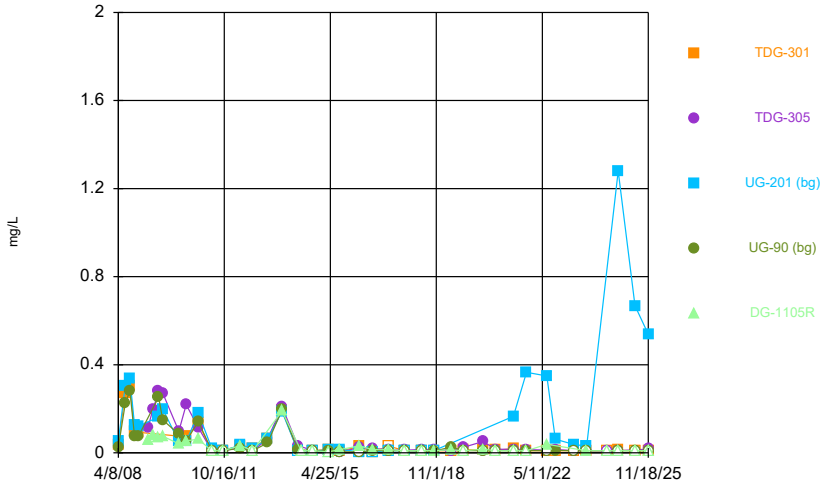
Time Series



Constituent: Zinc Analysis Run 1/5/2026 10:55 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Zinc Analysis Run 1/5/2026 10:55 AM View: 2025AWQR - Time Series
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Outlier Tests Summary Table and Graphs

BG Outlier Analysis

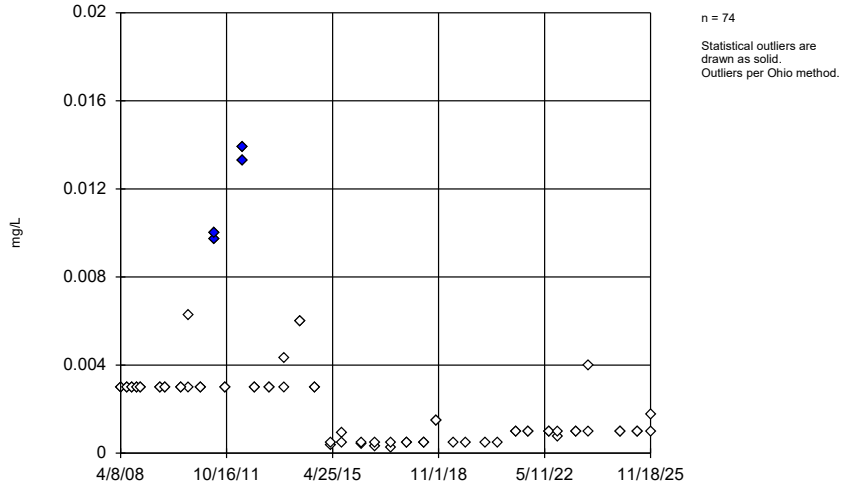
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master Printed 12/18/2025, 3:37 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (mg/L)	**UG-201,UG-90**	**Yes**	**0.0139,0.0133,0.00999,0.00972**	**n/a w/combined bg**	**OH**	**NaN**	**74**	**0.002524**	**0.002665**	**n/a**	**n/a**
Arsenic (mg/L)	**UG-201,UG-90**	**Yes**	**0.00555**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**74**	**0.00119**	**0.0008309**	**unknown**	**ShapiroFrancia**
Barium (mg/L)	**UG-201,UG-90**	**Yes**	**0.0733,0.072,0.136,0.059**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**74**	**0.02856**	**0.01908**	**unknown**	**ShapiroFrancia**
Beryllium (mg/L)	UG-201,UG-90	No	n/a	n/a w/combined bg	OH	NaN	74	0.0004941	0.00005034	n/a	n/a
Cadmium (mg/L)	UG-201,UG-90	No	n/a	n/a w/combined bg	OH	NaN	74	0.0002147	0.0001017	n/a	n/a
Chromium (mg/L)	UG-201,UG-90	No	n/a	n/a w/combined bg	OH	NaN	74	0.005829	0.003793	n/a	n/a
Cobalt (mg/L)	UG-201,UG-90	No	n/a	n/a w/combined bg	EPA/OH	0.05	46	0.0006551	0.0008879	ln(x)	ShapiroWilk
Copper (mg/L)	**UG-201,UG-90**	**Yes**	**0.0423**	**n/a w/combined bg**	**OH**	**NaN**	**74**	**0.007084**	**0.006469**	**n/a**	**n/a**
Lead (mg/L)	UG-201,UG-90	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	74	0.001442	0.0008871	unknown	ShapiroFrancia
Nickel (mg/L)	UG-201,UG-90	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	74	0.01354	0.01198	unknown	ShapiroFrancia
Selenium (mg/L)	UG-201,UG-90	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	74	0.003035	0.001711	unknown	ShapiroFrancia
Silver (mg/L)	UG-201,UG-90	No	n/a	n/a w/combined bg	OH	NaN	74	0.004932	0.004732	n/a	n/a
Thallium (mg/L)	**UG-201,UG-90**	**Yes**	**0.0104**	**n/a w/combined bg**	**OH**	**NaN**	**74**	**0.0009091**	**0.001175**	**n/a**	**n/a**
Vanadium (mg/L)	UG-201,UG-90	No	n/a	n/a w/combined bg	OH	NaN	74	0.01264	0.01149	n/a	n/a
Zinc (mg/L)	**UG-201,UG-90**	**Yes**	**1.28,0.668,0.539**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**74**	**0.1003**	**0.1891**	**unknown**	**ShapiroFrancia**

Sanitas™ v.10.1.02 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 74

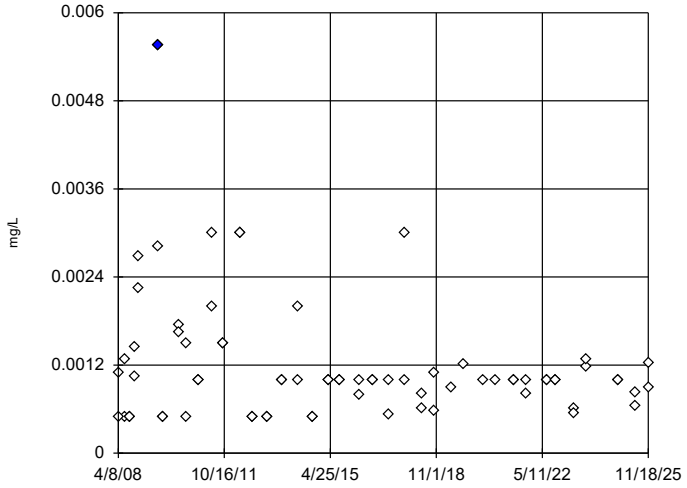
Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Antimony Analysis Run 12/18/2025 3:36 PM View: 2025_AWQR-BG_Outliers
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.02 Software licensed to SCS Engineers. UG

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 74

Outlier is drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

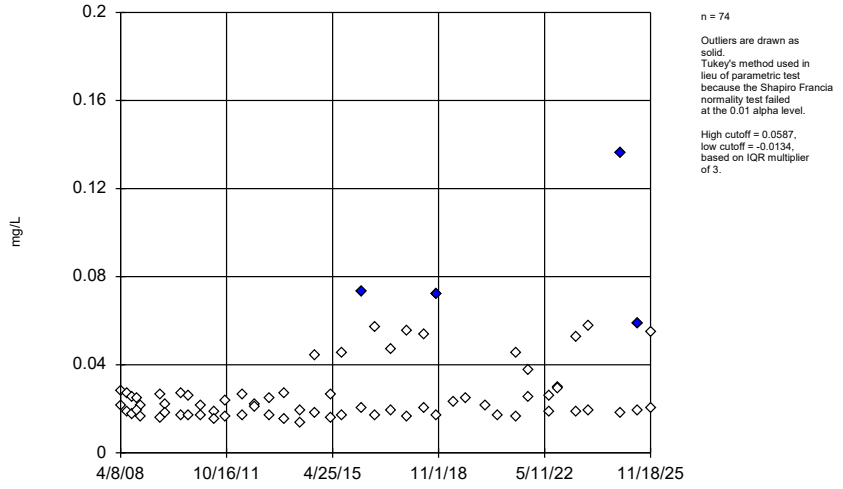
High cutoff = 0.003142, low cutoff = -0.001261, based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 12/18/2025 3:36 PM View: 2025_AWQR-BG_Outliers
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.02 Software licensed to SCS Engineers. UG

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 74

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

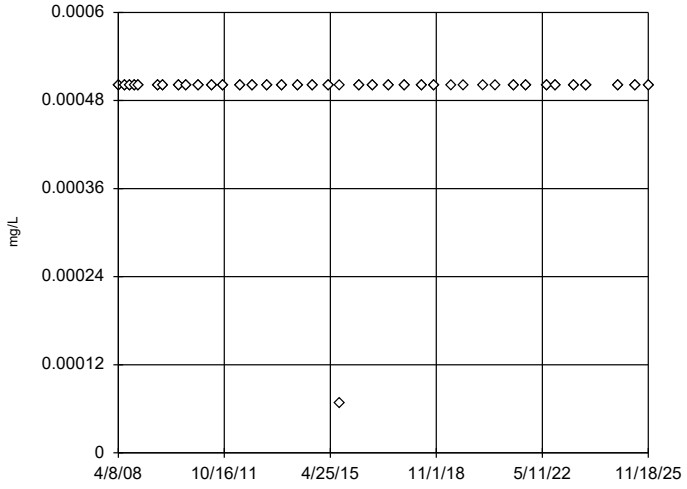
High cutoff = 0.0587, low cutoff = -0.0134, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 12/18/2025 3:36 PM View: 2025_AWQR-BG_Outliers
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.02 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 74

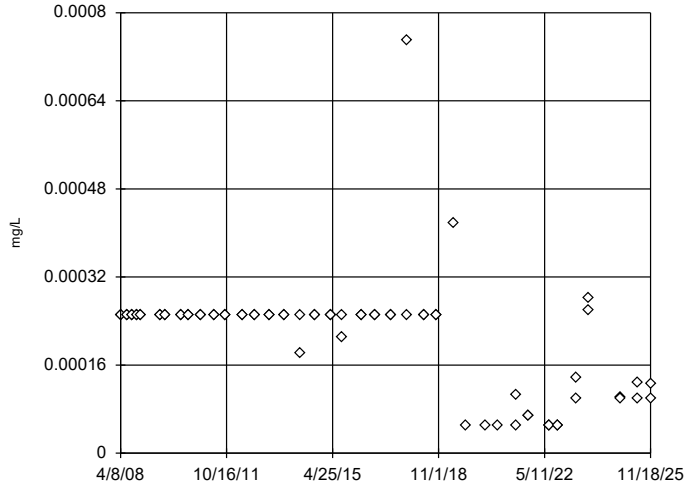
No statistical outliers.

Constituent: Beryllium Analysis Run 12/18/2025 3:36 PM View: 2025_AWQR-BG_Outliers
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.02 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 74

No statistical outliers.

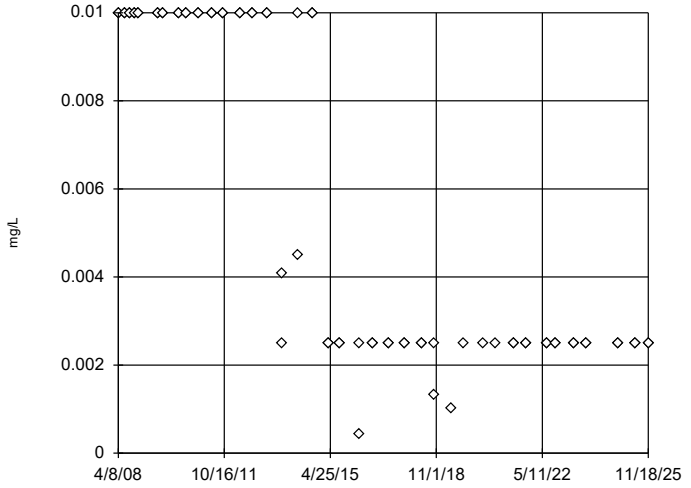
Constituent: Cadmium Analysis Run 12/18/2025 3:36 PM View: 2025_AWQR-BG_Outliers

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.02 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 74

No statistical outliers.

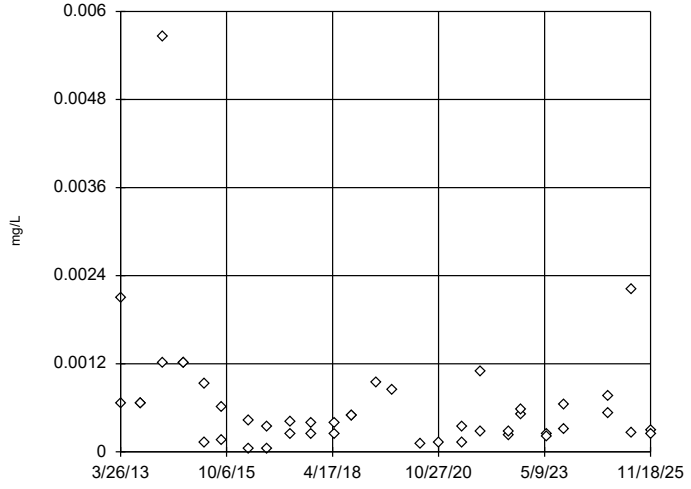
Constituent: Chromium Analysis Run 12/18/2025 3:36 PM View: 2025_AWQR-BG_Outliers

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.02 Software licensed to SCS Engineers. UG

EPA Screening (suspected outliers for Rosner's Test)

UG-201,UG-90



n = 46

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.0006551, std. dev. 0.0008879, critical Tn 2.923

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9815
Critical = 0.927 (after natural log transformation)
The distribution was found to be log-normal.

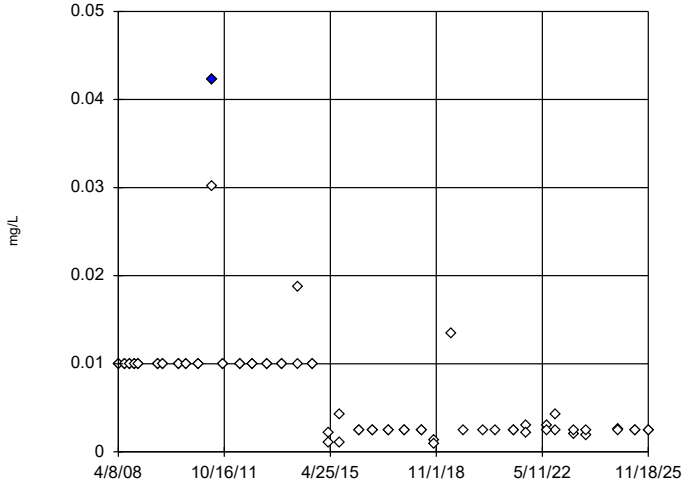
Constituent: Cobalt Analysis Run 12/18/2025 3:36 PM View: 2025_AWQR-BG_Outliers

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.02 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 74

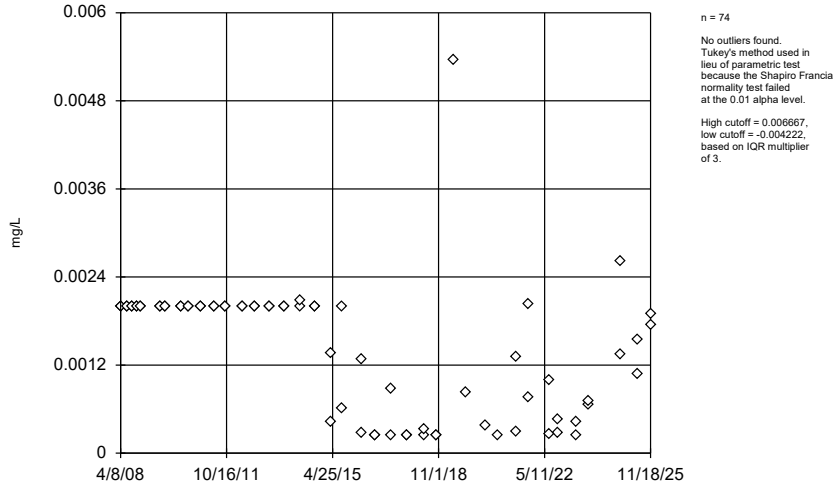
Statistical outlier is drawn as solid.
Outlier per Ohio method.

Constituent: Copper Analysis Run 12/18/2025 3:36 PM View: 2025_AWQR-BG_Outliers

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 74

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

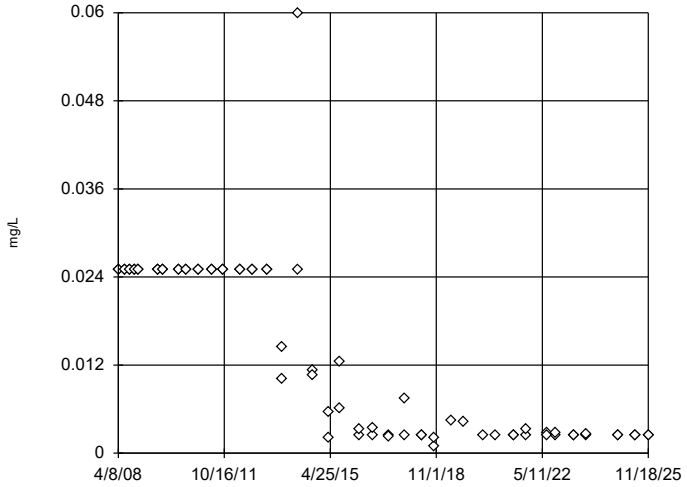
High cutoff = 0.006667, low cutoff = -0.004222, based on IQR multiplier of 3.

Constituent: Lead Analysis Run 12/18/2025 3:36 PM View: 2025_AWQR-BG_Outliers
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.02 Software licensed to SCS Engineers. UG

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 74

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Nickel Analysis Run 12/18/2025 3:36 PM View: 2025_AWQR-BG_Outliers
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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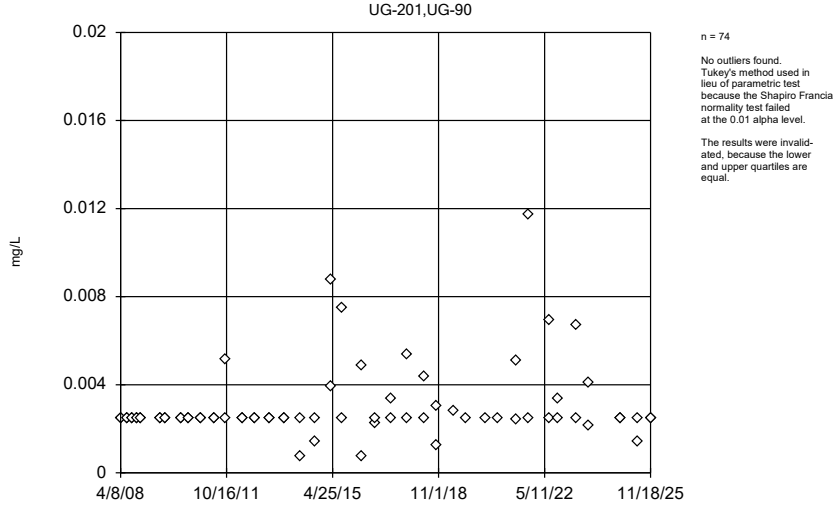
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 74

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 12/18/2025 3:36 PM View: 2025_AWQR-BG_Outliers
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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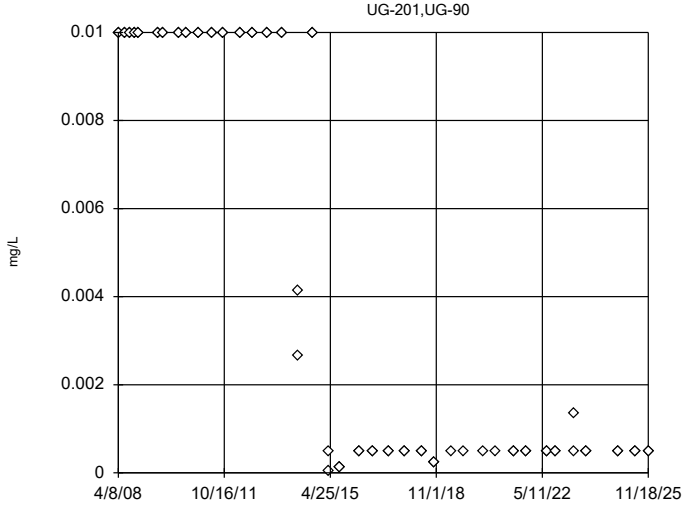
Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 74

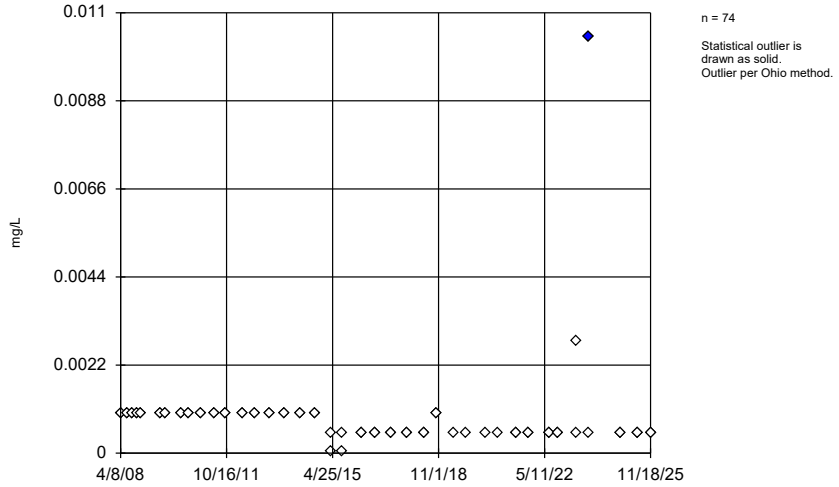
No statistical outliers.

Constituent: Silver Analysis Run 12/18/2025 3:36 PM View: 2025_AWQR-BG_Outliers
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.02 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 74

Statistical outlier is drawn as solid.
Outlier per Ohio method.

Constituent: Thallium Analysis Run 12/18/2025 3:36 PM View: 2025_AWQR-BG_Outliers
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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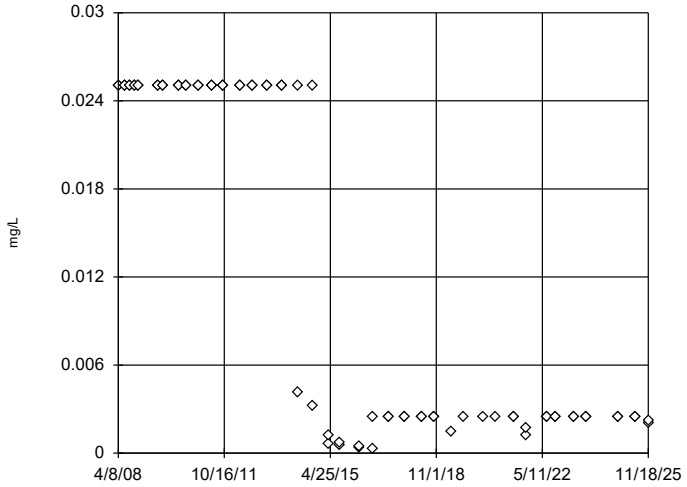
Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 74

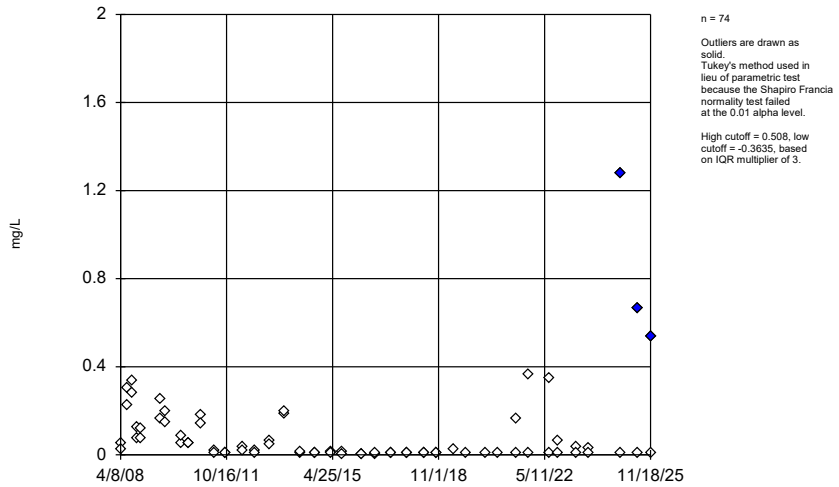
No statistical outliers.

Constituent: Vanadium Analysis Run 12/18/2025 3:36 PM View: 2025_AWQR-BG_Outliers
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.02 Software licensed to SCS Engineers. UG

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

UG-201,UG-90



n = 74

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

High cutoff = 0.508, low cutoff = -0.3635, based on IQR multiplier of 3.

Constituent: Zinc Analysis Run 12/18/2025 3:36 PM View: 2025_AWQR-BG_Outliers
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Interwell Prediction Limit Summary Table and Graphs

Prediction Limit

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master Printed 12/18/2025, 3:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	DG-1205	0.00555	n/a	11/18/2025	0.00254	No	74	UG-90,UG-201	63.51	n/a	0.00001394	NP Inter (NDs) 1 of 3
Arsenic (mg/L)	**DG-901**	**0.00555**	**n/a**	**11/18/2025**	**0.00851**	**Yes**	**74**	**UG-90,UG-201**	**63.51**	**n/a**	**0.00001394**	**NP Inter (NDs) 1 of 3**
Arsenic (mg/L)	**DGP-1500**	**0.00555**	**n/a**	**11/18/2025**	**0.0123**	**Yes**	**74**	**UG-90,UG-201**	**63.51**	**n/a**	**0.00001394**	**NP Inter (NDs) 1 of 3**
Arsenic (mg/L)	TDG-305	0.00555	n/a	11/18/2025	0.00192J	No	74	UG-90,UG-201	63.51	n/a	0.00001394	NP Inter (NDs) 1 of 3
Arsenic (mg/L)	DG-1105R	0.00555	n/a	11/18/2025	0.00454	No	74	UG-90,UG-201	63.51	n/a	0.00001394	NP Inter (NDs) 1 of 3
Barium (mg/L)	DG-1001	0.136	n/a	11/18/2025	0.0523	No	74	UG-90,UG-201	0	n/a	0.00001394	NP Inter (normality) 1 of 3
Barium (mg/L)	DG-1005	0.136	n/a	11/18/2025	0.0473	No	74	UG-90,UG-201	0	n/a	0.00001394	NP Inter (normality) 1 of 3
Barium (mg/L)	DG-1101	0.136	n/a	11/18/2025	0.053	No	74	UG-90,UG-201	0	n/a	0.00001394	NP Inter (normality) 1 of 3
Barium (mg/L)	DG-1201	0.136	n/a	11/18/2025	0.0207	No	74	UG-90,UG-201	0	n/a	0.00001394	NP Inter (normality) 1 of 3
Barium (mg/L)	DG-1205	0.136	n/a	11/18/2025	0.012	No	74	UG-90,UG-201	0	n/a	0.00001394	NP Inter (normality) 1 of 3
Barium (mg/L)	DG-1301	0.136	n/a	11/18/2025	0.0389	No	74	UG-90,UG-201	0	n/a	0.00001394	NP Inter (normality) 1 of 3
Barium (mg/L)	DG-1305	0.136	n/a	11/18/2025	0.0898	No	74	UG-90,UG-201	0	n/a	0.00001394	NP Inter (normality) 1 of 3
Barium (mg/L)	DG-1401R	0.136	n/a	11/18/2025	0.0438	No	74	UG-90,UG-201	0	n/a	0.00001394	NP Inter (normality) 1 of 3
Barium (mg/L)	DG-901	0.136	n/a	11/18/2025	0.0243	No	74	UG-90,UG-201	0	n/a	0.00001394	NP Inter (normality) 1 of 3
Barium (mg/L)	DG-905	0.136	n/a	11/18/2025	0.0537	No	74	UG-90,UG-201	0	n/a	0.00001394	NP Inter (normality) 1 of 3
Barium (mg/L)	DGP-1500	0.136	n/a	11/18/2025	0.0499	No	74	UG-90,UG-201	0	n/a	0.00001394	NP Inter (normality) 1 of 3
Barium (mg/L)	TDG-301	0.136	n/a	11/18/2025	0.0213	No	74	UG-90,UG-201	0	n/a	0.00001394	NP Inter (normality) 1 of 3
Barium (mg/L)	TDG-305	0.136	n/a	11/18/2025	0.03475	No	74	UG-90,UG-201	0	n/a	0.00001394	NP Inter (normality) 1 of 3
Barium (mg/L)	DG-1105R	0.136	n/a	11/18/2025	0.0265	No	74	UG-90,UG-201	0	n/a	0.00001394	NP Inter (normality) 1 of 3
Chromium (mg/L)	DG-1301	0.01	n/a	11/18/2025	0.00529	No	74	UG-201,UG-90	91.89	n/a	0.00001394	NP Inter (NDs) 1 of 3
Cobalt (mg/L)	DG-1101	0.001831	n/a	11/18/2025	0.00079	No	46	UG-201,UG-90	26.09	ln(x)	0.0001951	Param Inter 1 of 3
Cobalt (mg/L)	DG-1201	0.001831	n/a	11/18/2025	0.0005985	No	46	UG-201,UG-90	26.09	ln(x)	0.0001951	Param Inter 1 of 3
Cobalt (mg/L)	DG-901	0.001831	n/a	11/18/2025	0.00183	No	46	UG-201,UG-90	26.09	ln(x)	0.0001951	Param Inter 1 of 3
Cobalt (mg/L)	TDG-305	0.001831	n/a	11/18/2025	0.000643J	No	46	UG-201,UG-90	26.09	ln(x)	0.0001951	Param Inter 1 of 3
Copper (mg/L)	DG-1205	0.0423	n/a	11/18/2025	0.0109	No	74	UG-90,UG-201	79.73	n/a	0.00001394	NP Inter (NDs) 1 of 3
Lead (mg/L)	DG-1005	0.00535	n/a	11/18/2025	0.00121	No	74	UG-201,UG-90	60.81	n/a	0.00001394	NP Inter (NDs) 1 of 3
Lead (mg/L)	DG-1101	0.00535	n/a	11/18/2025	0.00165	No	74	UG-201,UG-90	60.81	n/a	0.00001394	NP Inter (NDs) 1 of 3
Lead (mg/L)	DG-1201	0.00535	n/a	11/18/2025	0.00074	No	74	UG-201,UG-90	60.81	n/a	0.00001394	NP Inter (NDs) 1 of 3
Lead (mg/L)	DG-1205	0.00535	n/a	11/18/2025	0.000609	No	74	UG-201,UG-90	60.81	n/a	0.00001394	NP Inter (NDs) 1 of 3
Lead (mg/L)	DG-1305	0.00535	n/a	11/18/2025	0.00206	No	74	UG-201,UG-90	60.81	n/a	0.00001394	NP Inter (NDs) 1 of 3
Lead (mg/L)	DG-901	0.00535	n/a	11/18/2025	0.00103	No	74	UG-201,UG-90	60.81	n/a	0.00001394	NP Inter (NDs) 1 of 3
Lead (mg/L)	TDG-301	0.00535	n/a	11/18/2025	0.000799	No	74	UG-201,UG-90	60.81	n/a	0.00001394	NP Inter (NDs) 1 of 3
Lead (mg/L)	TDG-305	0.00535	n/a	11/18/2025	0.001915	No	74	UG-201,UG-90	60.81	n/a	0.00001394	NP Inter (NDs) 1 of 3
Nickel (mg/L)	TDG-305	0.0599	n/a	11/18/2025	0.0092	No	74	UG-201,UG-90	74.32	n/a	0.00001394	NP Inter (NDs) 1 of 3
Vanadium (mg/L)	DG-1005	0.025	n/a	11/18/2025	0.00946	No	74	UG-201,UG-90	81.08	n/a	0.00001394	NP Inter (NDs) 1 of 3
Zinc (mg/L)	TDG-305	1.28	n/a	11/18/2025	0.017	No	74	UG-201,UG-90	37.84	n/a	0.00001394	NP Inter (normality) 1 of 3

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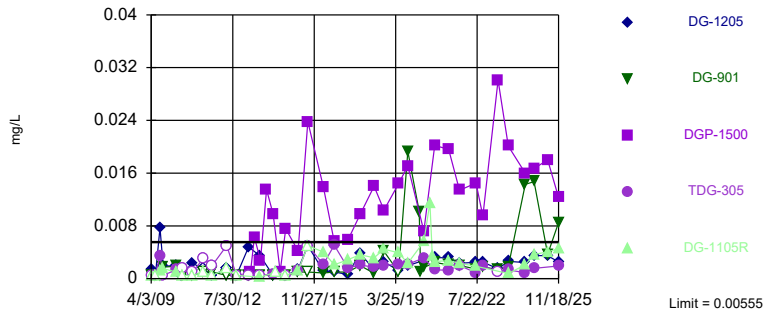
Hollow symbols indicate censored values.

Exceeds Limit: DG-901, DGP-1500

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 74 background values. 63.51% NDs. Annual per-constituent alpha = 0.0005018. Individual comparison alpha = 0.00001394 (1 of 3). Comparing 5 points to limit. Assumes 13 future values.

Constituent: Arsenic Analysis Run 12/18/2025 3:21 PM View: 2025_AWQR-DMAM_Interwell_PL
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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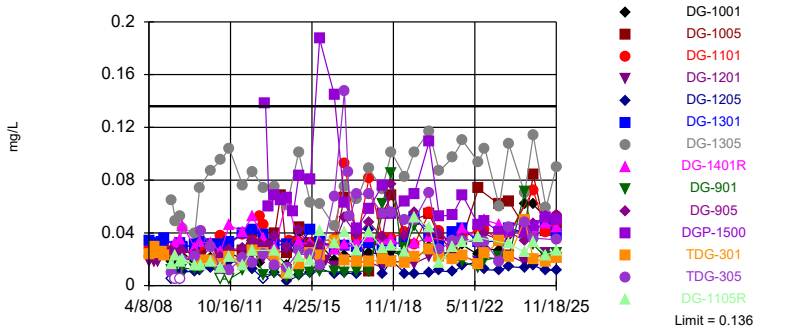
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 74 background values. Annual per-constituent alpha = 0.0005018. Individual comparison alpha = 0.00001394 (1 of 3). Comparing 14 points to limit. Assumes 4 future values.

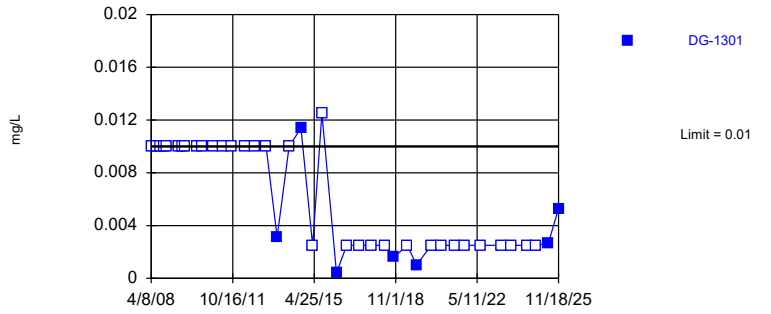
Constituent: Barium Analysis Run 12/18/2025 3:21 PM View: 2025_AWQR-DMAM_Interwell_PL
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.02 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 74 background values. 91.89% NDs. Annual per-constituent alpha = 0.0005018. Individual comparison alpha = 0.00001394 (1 of 3). Assumes 17 future values.

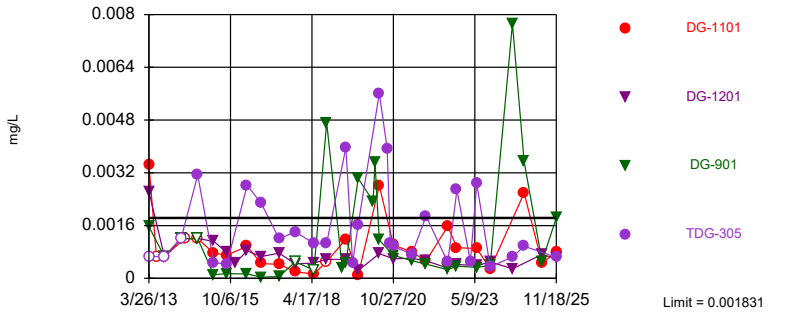
Constituent: Chromium Analysis Run 12/18/2025 3:21 PM View: 2025_AWQR-DMAM_Interwell_PL
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.02 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-7.977, Std. Dev.=0.9791, n=46, 26.09% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9815, critical = 0.927. Kappa = 1.71 (c=15, w=18, 1 of 3, event alpha = 0.05132). Report alpha = 0.003506. Individual comparison alpha = 0.0001951. Comparing 4 points to limit. Assumes 14 future values.

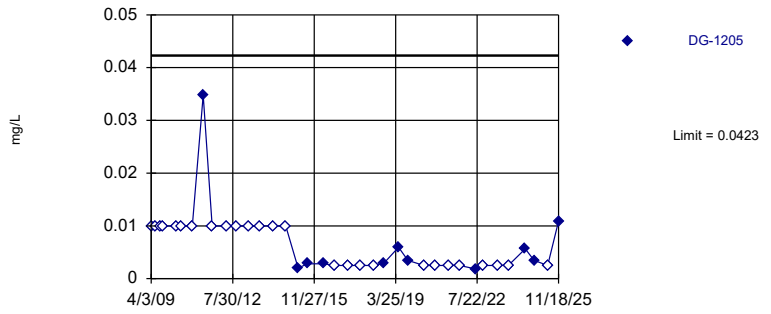
Constituent: Cobalt Analysis Run 12/18/2025 3:21 PM View: 2025_AWQR-DMAM_Interwell_PL
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.02 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 74 background values. 79.73% NDs. Annual per-constituent alpha = 0.0005018. Individual comparison alpha = 0.00001394 (1 of 3). Assumes 17 future values.

Constituent: Copper Analysis Run 12/18/2025 3:21 PM View: 2025_AWQR-DMAM_Interwell_PL
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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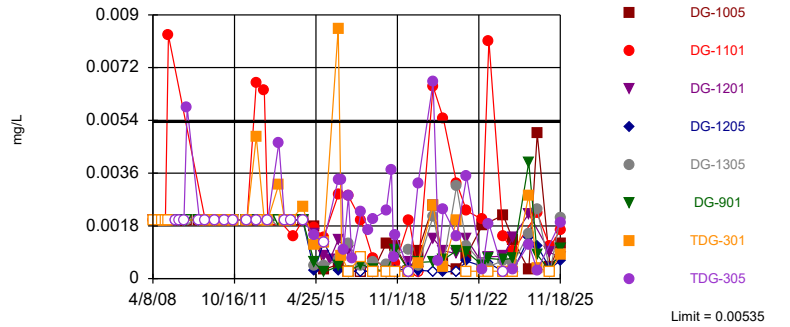
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 74 background values. 60.81% NDs. Annual per-constituent alpha = 0.0005018. Individual comparison alpha = 0.00001394 (1 of 3). Comparing 8 points to limit. Assumes 10 future values.

Constituent: Lead Analysis Run 12/18/2025 3:21 PM View: 2025_AWQR-DMAM_Interwell_PL
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

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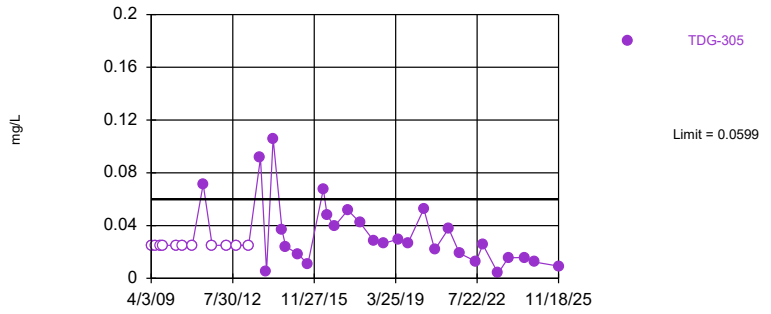
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 74 background values. 74.32% NDs. Annual per-constituent alpha = 0.0005018. Individual comparison alpha = 0.00001394 (1 of 3). Assumes 17 future values.

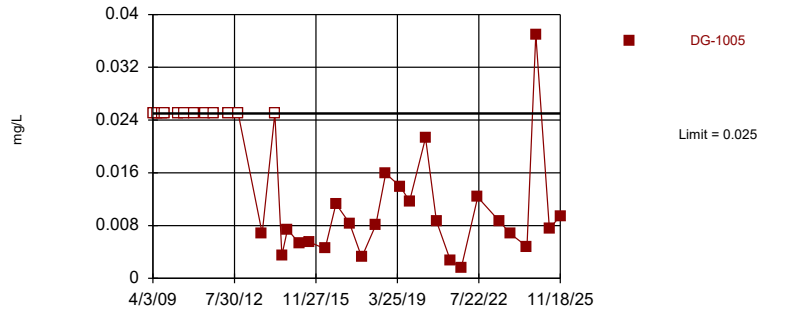
Constituent: Nickel Analysis Run 12/18/2025 3:21 PM View: 2025_AWQR-DMAM_Interwell_PL
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.02 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 74 background values. 81.08% NDs. Annual per-constituent alpha = 0.0005018. Individual comparison alpha = 0.00001394 (1 of 3). Assumes 17 future values.

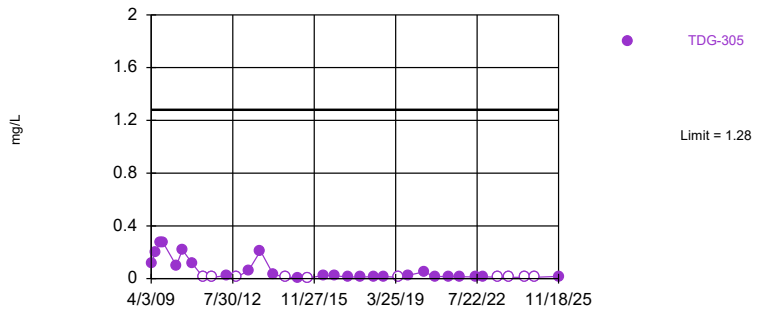
Constituent: Vanadium Analysis Run 12/18/2025 3:21 PM View: 2025_AWQR-DMAM_Interwell_PL
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Sanitas™ v.10.1.02 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 74 background values. 37.84% NDs. Annual per-constituent alpha = 0.0005018. Individual comparison alpha = 0.00001394 (1 of 3). Assumes 17 future values.

Constituent: Zinc Analysis Run 12/18/2025 3:21 PM View: 2025_AWQR-DMAM_Interwell_PL

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL Sanitas master

Mann-Kendall/Sen's Slope Trend Test Summary Table and Graphs

Trend Test

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR Printed 1/5/2026, 11:45 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
1,1-Dichloroethane (ug/L)	DG-1205	0.2534	16	21	No	8	0	0.01	NP
1,1-Dichloroethane (ug/L)	DG-1301	0.5437	7	21	No	8	0	0.01	NP
1,1-Dichloroethane (ug/L)	DG-1305	-1.598	-12	-21	No	8	0	0.01	NP
1,1-Dichloroethane (ug/L)	DG-1401R	0.3666	8	21	No	8	0	0.01	NP
1,2-Dichloropropane (ug/L)	DG-1205	0.076	8	21	No	8	0	0.01	NP
1,2-Dichloropropane (ug/L)	DG-1301	0.08058	8	21	No	8	12.5	0.01	NP
1,2-Dichloropropane (ug/L)	DG-1305	0	0	21	No	8	50	0.01	NP
1,4-Dichlorobenzene (ug/L)	DG-1305	-0.07977	-9	-21	No	8	37.5	0.01	NP
Acetone (ug/L)	DG-901	0	1	21	No	8	87.5	0.01	NP
Arsenic (mg/L)	DG-901	0.001242	16	21	No	8	0	0.01	NP
Arsenic (mg/L)	DG-1005	-0.00005306	-4	-21	No	8	0	0.01	NP
Arsenic (mg/L)	DG-1101	-0.00003862	-10	-21	No	8	12.5	0.01	NP
Arsenic (mg/L)	DG-1205	0.0001146	10	21	No	8	0	0.01	NP
Arsenic (mg/L)	DG-1305	-0.0004217	-10	-21	No	8	0	0.01	NP
Arsenic (mg/L)	DGP-1500	0.0000468	0	21	No	8	0	0.01	NP
Barium (mg/L)	DG-901	0.002967	14	21	No	8	0	0.01	NP
Barium (mg/L)	DG-905	0.00633	20	21	No	8	0	0.01	NP
Barium (mg/L)	DG-1005	-0.001297	0	21	No	8	0	0.01	NP
Barium (mg/L)	DG-1101	0.003029	8	21	No	8	0	0.01	NP
Barium (mg/L)	DG-1201	0.0003273	2	21	No	8	0	0.01	NP
Barium (mg/L)	DG-1205	-0.0008314	-8	-21	No	8	0	0.01	NP
Barium (mg/L)	DG-1301	0.00158	5	21	No	8	0	0.01	NP
Barium (mg/L)	DG-1305	-0.0008614	-2	-21	No	8	0	0.01	NP
Barium (mg/L)	DG-1401R	0.001312	6	21	No	8	0	0.01	NP
Barium (mg/L)	DGP-1500	0.001553	6	21	No	8	0	0.01	NP
Benzene (ug/L)	DG-901	0	1	21	No	8	87.5	0.01	NP
Benzene (ug/L)	DGP-1500	0.3079	13	21	No	8	25	0.01	NP
Bis[2-ethylhexyl]phthalate (ug/L)	DG-1301	-0.4744	-13	-21	No	8	62.5	0.01	NP
Bis[2-ethylhexyl]phthalate (ug/L)	DGP-1500	0.1743	12	21	No	8	62.5	0.01	NP
Cadmium (mg/L)	DG-901	0.000007413	7	21	No	8	75	0.01	NP
Cadmium (mg/L)	DG-1005	0.000007974	8	21	No	8	62.5	0.01	NP
Cadmium (mg/L)	DG-1101	0	8	21	No	8	62.5	0.01	NP
Cadmium (mg/L)	DG-1401R	0	1	21	No	8	75	0.01	NP
Carbon disulfide (ug/L)	DGP-1500	0	8	21	No	8	62.5	0.01	NP
Chlorobenzene (ug/L)	DG-1305	-0.6791	-6	-21	No	8	12.5	0.01	NP
Chloromethane (ug/L)	DG-1205	0	-7	-21	No	8	87.5	0.01	NP
Chromium (mg/L)	DG-1005	0	0	21	No	8	50	0.01	NP
Chromium (mg/L)	DG-1101	0	2	21	No	8	62.5	0.01	NP
Chromium (mg/L)	DG-1301	0	13	21	No	8	75	0.01	NP
cis-1,2-Dichloroethene (ug/L)	DG-1301	5.238	8	21	No	8	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	DG-1305	-0.8066	-10	-21	No	8	0	0.01	NP
Cobalt (mg/L)	DG-901	0.0002536	16	21	No	8	0	0.01	NP
Cobalt (mg/L)	DG-905	0.00005589	8	21	No	8	0	0.01	NP
Cobalt (mg/L)	DG-1005	0.000005449	0	21	No	8	0	0.01	NP
Cobalt (mg/L)	DG-1101	-0.00004098	-4	-21	No	8	0	0.01	NP
Cobalt (mg/L)	DG-1201	0.00005512	6	21	No	8	0	0.01	NP
Cobalt (mg/L)	DG-1205	-0.00002229	-4	-21	No	8	12.5	0.01	NP
Cobalt (mg/L)	DG-1301	-0.00001602	-4	-21	No	8	0	0.01	NP
Cobalt (mg/L)	DG-1305	0.000005053	1	21	No	8	25	0.01	NP
Cobalt (mg/L)	DG-1401R	-0.00009167	-6	-21	No	8	12.5	0.01	NP

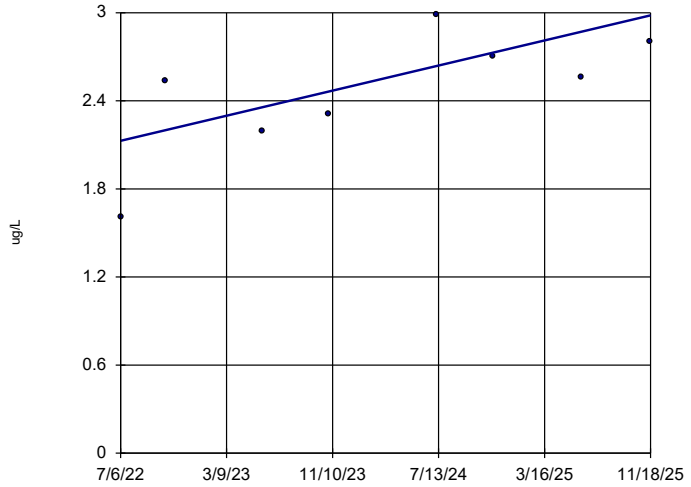
Trend Test

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR Printed 1/5/2026, 11:45 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Cobalt (mg/L)	DGP-1500	-0.0001824	-16	-21	No	8	50	0.01	NP
Copper (mg/L)	DG-901	-0.0004935	-7	-21	No	8	25	0.01	NP
Copper (mg/L)	DG-1005	0	-1	-21	No	8	37.5	0.01	NP
Copper (mg/L)	DG-1101	0	-1	-21	No	8	37.5	0.01	NP
Copper (mg/L)	DG-1205	0.0007086	16	21	No	8	50	0.01	NP
Copper (mg/L)	DG-1301	0.0001247	2	21	No	8	12.5	0.01	NP
Copper (mg/L)	DG-1401R	-0.001585	-21	-21	No	8	25	0.01	NP
Copper (mg/L)	DGP-1500	-0.0002973	-8	-21	No	8	50	0.01	NP
Dichlorodifluoromethane (ug/L)	DG-1205	0.3997	10	21	No	8	0	0.01	NP
Lead (mg/L)	DG-901	0.000121	10	21	No	8	12.5	0.01	NP
Lead (mg/L)	DG-905	0	-2	-21	No	8	62.5	0.01	NP
Lead (mg/L)	DG-1005	-0.00008471	-2	-21	No	8	0	0.01	NP
Lead (mg/L)	DG-1101	-0.000328	-10	-21	No	8	0	0.01	NP
Lead (mg/L)	DG-1201	0.00004529	4	21	No	8	0	0.01	NP
Lead (mg/L)	DG-1205	0.00005536	6	21	No	8	12.5	0.01	NP
Lead (mg/L)	DG-1301	-0.00008376	-6	-21	No	8	12.5	0.01	NP
Lead (mg/L)	DG-1305	0.0004215	10	21	No	8	12.5	0.01	NP
Lead (mg/L)	DG-1401R	-0.0004855	-20	-21	No	8	12.5	0.01	NP
Lead (mg/L)	DGP-1500	-0.0001371	-16	-21	No	8	50	0.01	NP
Nickel (mg/L)	DG-901	0.00009463	9	21	No	8	37.5	0.01	NP
Nickel (mg/L)	DG-1005	-0.0001897	-5	-21	No	8	37.5	0.01	NP
Nickel (mg/L)	DG-1101	0	1	21	No	8	37.5	0.01	NP
Nickel (mg/L)	DG-1205	-0.0004661	-13	-21	No	8	25	0.01	NP
Nickel (mg/L)	DG-1301	-0.002282	-15	-21	No	8	25	0.01	NP
Nickel (mg/L)	DG-1401R	-0.0002769	-11	-21	No	8	37.5	0.01	NP
Selenium (mg/L)	DG-1005	0	-4	-21	No	8	62.5	0.01	NP
Selenium (mg/L)	DGP-1500	-0.001189	-13	-21	No	8	37.5	0.01	NP
Silver (mg/L)	DG-901	0	-3	-21	No	8	87.5	0.01	NP
Sulfide (mg/L)	DGP-1500	0.5194	7	12	No	5	60	0.01	NP
Tetrachloroethene (ug/L)	DG-1301	-0.1055	-4	-21	No	8	0	0.01	NP
Thallium (mg/L)	DG-901	0	-3	-21	No	8	87.5	0.01	NP
Toluene (ug/L)	DGP-1500	0	-5	-21	No	8	75	0.01	NP
trans-1,2-Dichloroethene (ug/L)	DG-1301	0.1254	9	21	No	8	12.5	0.01	NP
Trichloroethene (ug/L)	DG-1301	-0.8538	-6	-21	No	8	0	0.01	NP
Vanadium (mg/L)	DG-1005	0.001245	6	21	No	8	0	0.01	NP
Vanadium (mg/L)	DG-1101	0.0000668	2	21	No	8	0	0.01	NP
Vanadium (mg/L)	DG-1205	0.0004739	6	21	No	8	12.5	0.01	NP
Vanadium (mg/L)	DG-1401R	-0.00007844	-2	-21	No	8	12.5	0.01	NP
Vinyl chloride (ug/L)	DG-1301	-0.1523	-15	-21	No	8	37.5	0.01	NP
Vinyl chloride (ug/L)	DG-1305	-0.1916	-12	-21	No	8	62.5	0.01	NP
Zinc (mg/L)	DG-901	0	2	21	No	8	62.5	0.01	NP
Zinc (mg/L)	DG-1005	0	-4	-21	No	8	50	0.01	NP
Zinc (mg/L)	DG-1101	0	-1	-21	No	8	75	0.01	NP
Zinc (mg/L)	DG-1401R	0	-5	-21	No	8	75	0.01	NP

Sen's Slope Estimator

DG-1205



n = 8

Slope = 0.2534 units per year.

Mann-Kendall statistic = 16 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: 1,1-Dichloroethane Analysis Run 1/5/2026 11:40 AM View: 2025_AWQR-Confidence_Interva

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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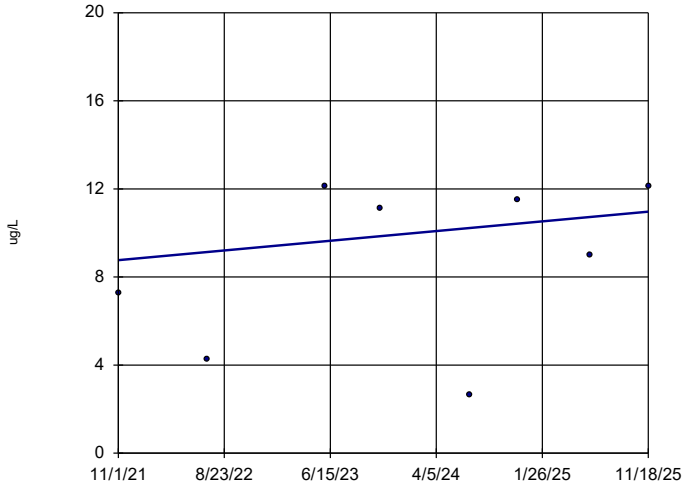
Sen's Slope Estimator

DG-1301



n = 8

Slope = 0.5437 units per year.

Mann-Kendall statistic = 7 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: 1,1-Dichloroethane Analysis Run 1/5/2026 11:40 AM View: 2025_AWQR-Confidence_Interva

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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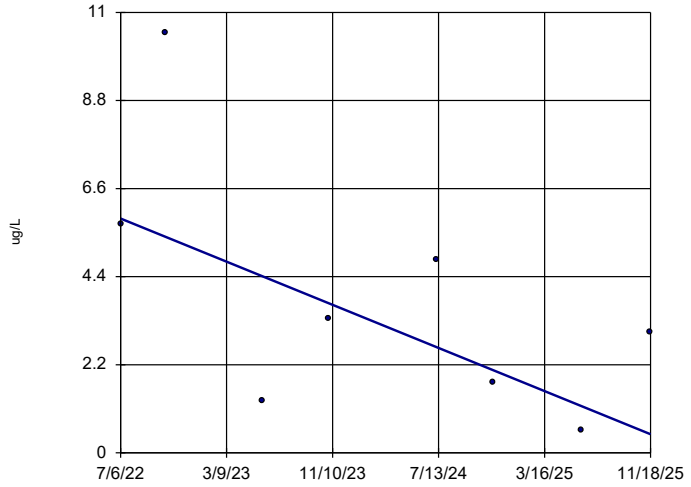
Sen's Slope Estimator

DG-1305



n = 8

Slope = -1.598 units per year.

Mann-Kendall statistic = -12 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: 1,1-Dichloroethane Analysis Run 1/5/2026 11:40 AM View: 2025_AWQR-Confidence_Interva

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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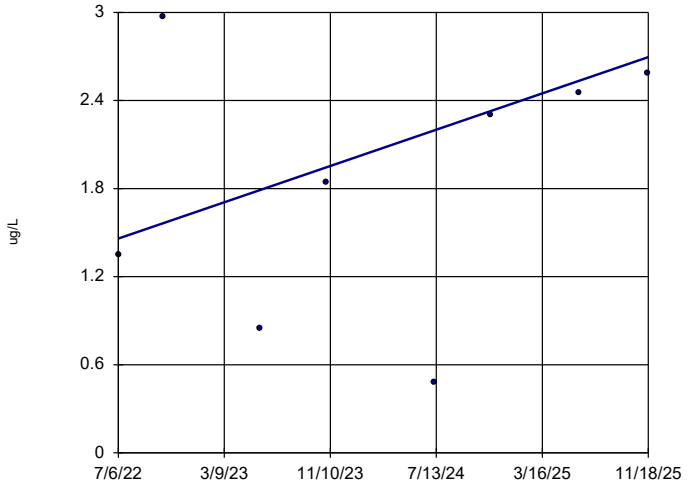
Sen's Slope Estimator

DG-1401R



n = 8

Slope = 0.3666 units per year.

Mann-Kendall statistic = 8 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: 1,1-Dichloroethane Analysis Run 1/5/2026 11:40 AM View: 2025_AWQR-Confidence_Interva

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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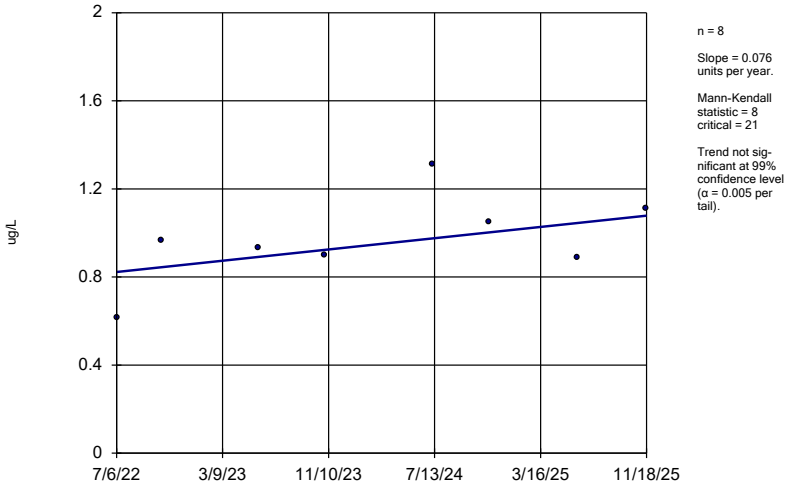
Sen's Slope Estimator

DG-1205



n = 8

Slope = 0.076 units per year.

Mann-Kendall statistic = 8 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: 1,2-Dichloropropane Analysis Run 1/5/2026 11:40 AM View: 2025_AWQR-Confidence_Interv

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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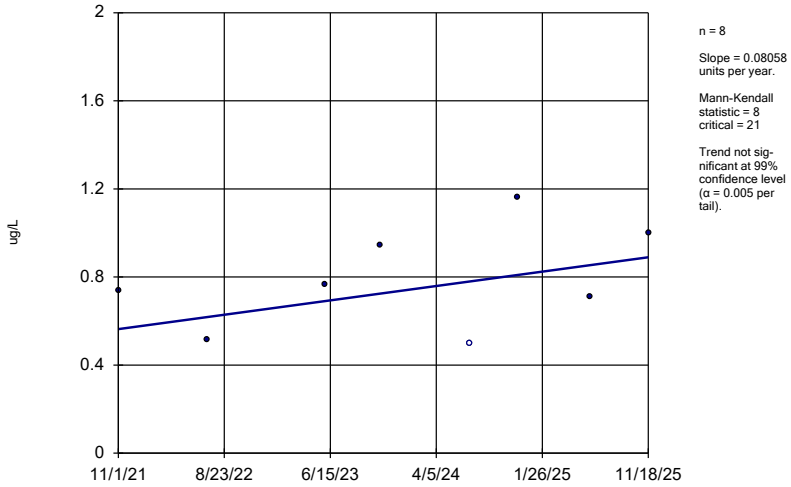
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1301



n = 8

Slope = 0.08058 units per year.

Mann-Kendall statistic = 8 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: 1,2-Dichloropropane Analysis Run 1/5/2026 11:40 AM View: 2025_AWQR-Confidence_Interv

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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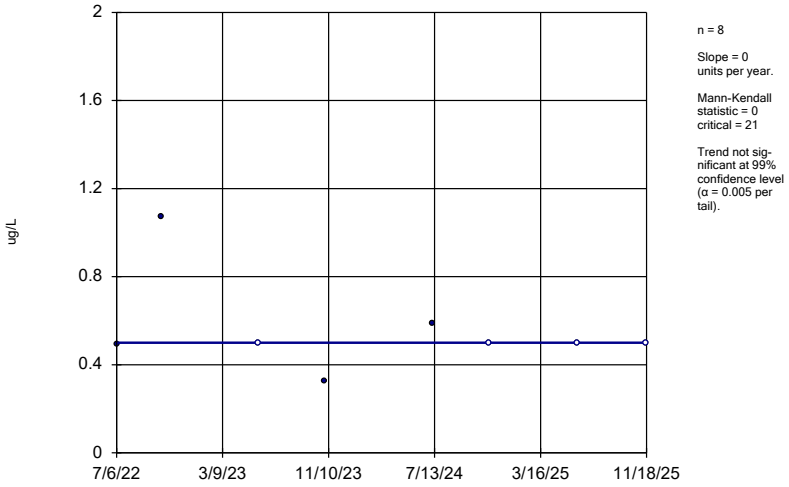
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1305



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: 1,2-Dichloropropane Analysis Run 1/5/2026 11:40 AM View: 2025_AWQR-Confidence_Interv

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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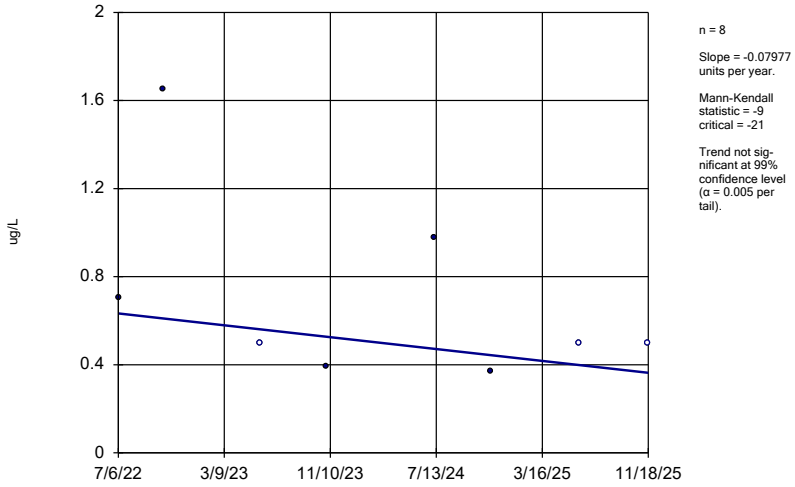
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1305



n = 8

Slope = -0.07977 units per year.

Mann-Kendall statistic = -9 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: 1,4-Dichlorobenzene Analysis Run 1/5/2026 11:40 AM View: 2025_AWQR-Confidence_Inter

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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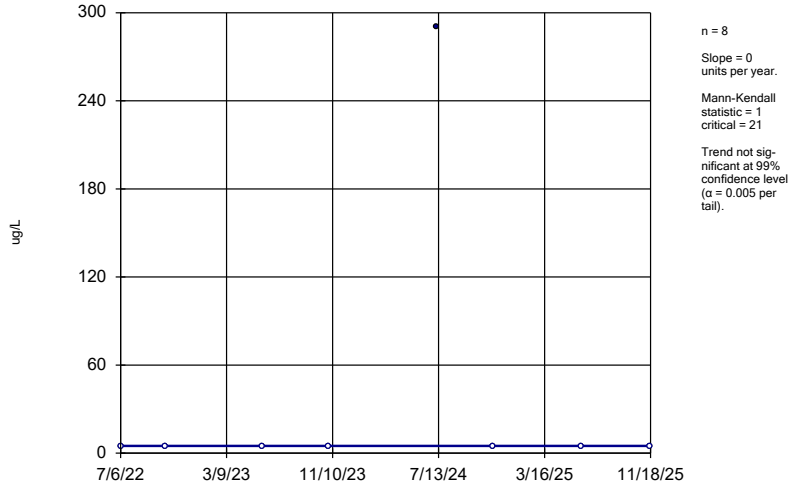
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-901



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 1 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Acetone Analysis Run 1/5/2026 11:40 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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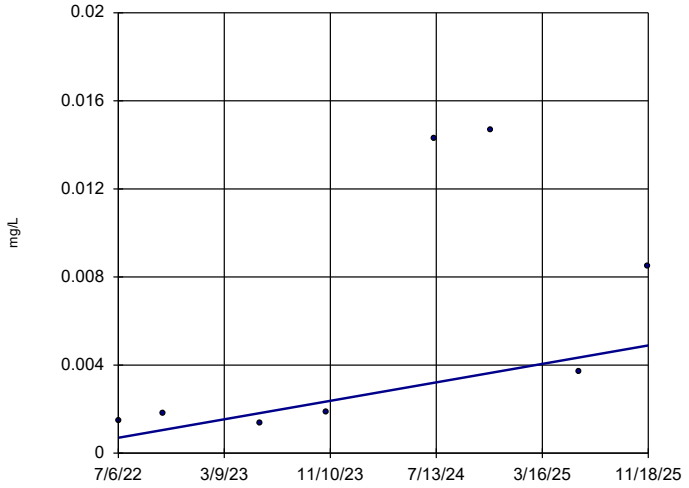
Sen's Slope Estimator

DG-901



n = 8

Slope = 0.001242 units per year.

Mann-Kendall statistic = 16 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 1/5/2026 11:40 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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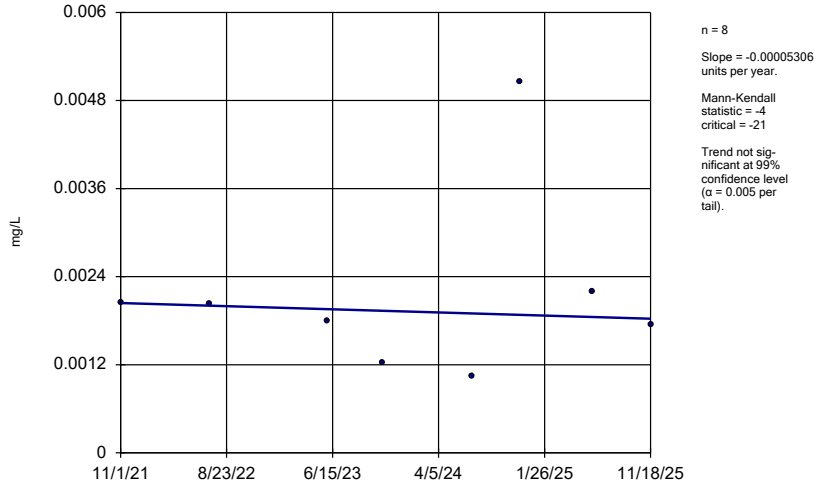
Sen's Slope Estimator

DG-1005



n = 8

Slope = -0.00005306 units per year.

Mann-Kendall statistic = -4 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 1/5/2026 11:40 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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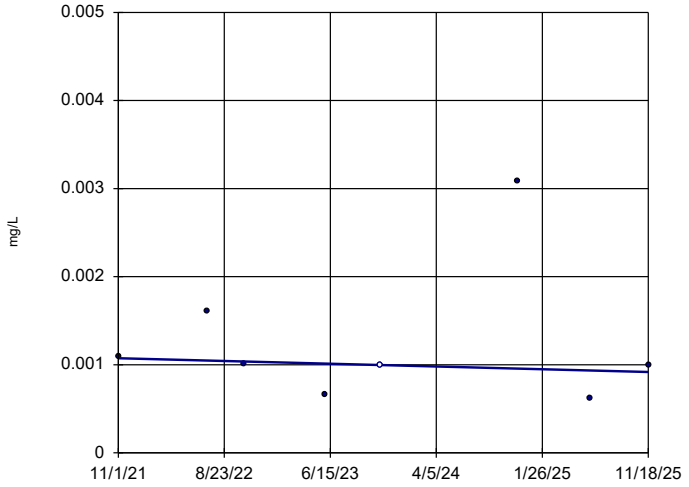
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1101



n = 8

Slope = -0.00003862 units per year.

Mann-Kendall statistic = -10 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 1/5/2026 11:40 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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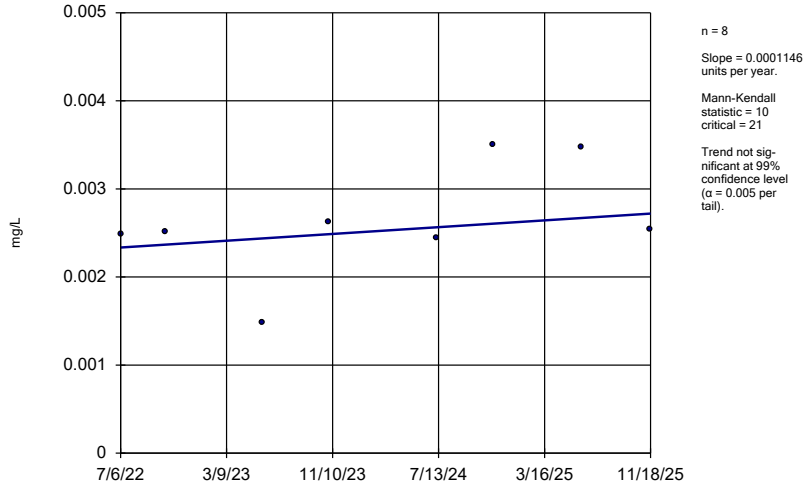
Sen's Slope Estimator

DG-1205



n = 8

Slope = 0.0001146 units per year.

Mann-Kendall statistic = 10
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 1/5/2026 11:40 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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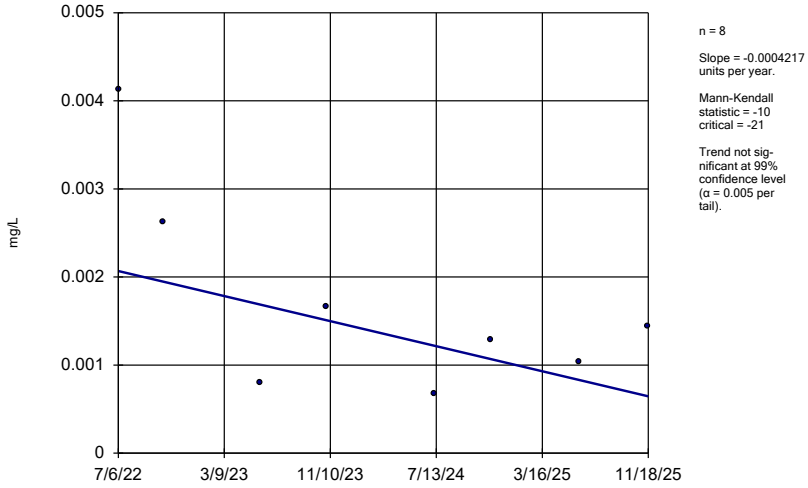
Sen's Slope Estimator

DG-1305



n = 8

Slope = -0.0004217 units per year.

Mann-Kendall statistic = -10
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 1/5/2026 11:40 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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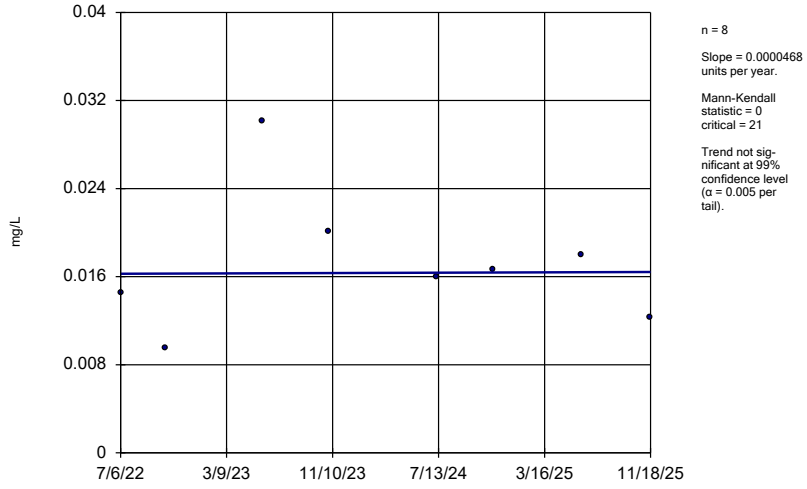
Sen's Slope Estimator

DGP-1500



n = 8

Slope = 0.0000468 units per year.

Mann-Kendall statistic = 0
critical = 21

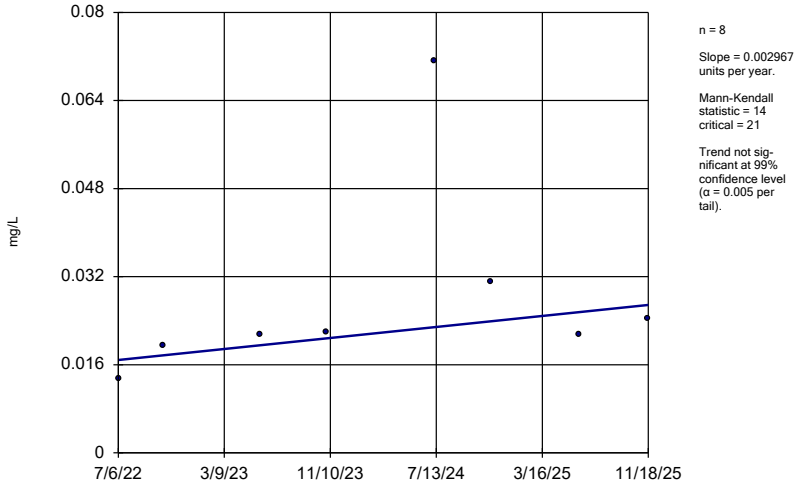
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 1/5/2026 11:40 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-901



n = 8

Slope = 0.002967 units per year.

Mann-Kendall statistic = 14
critical = 21

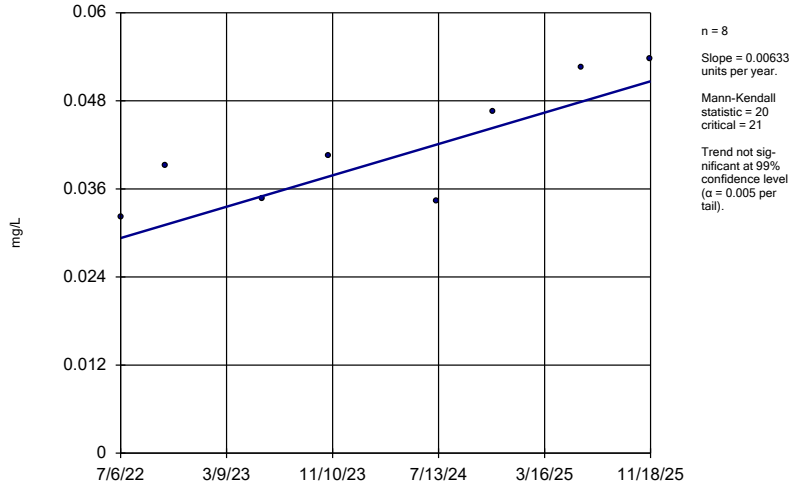
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 1/5/2026 11:40 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-905

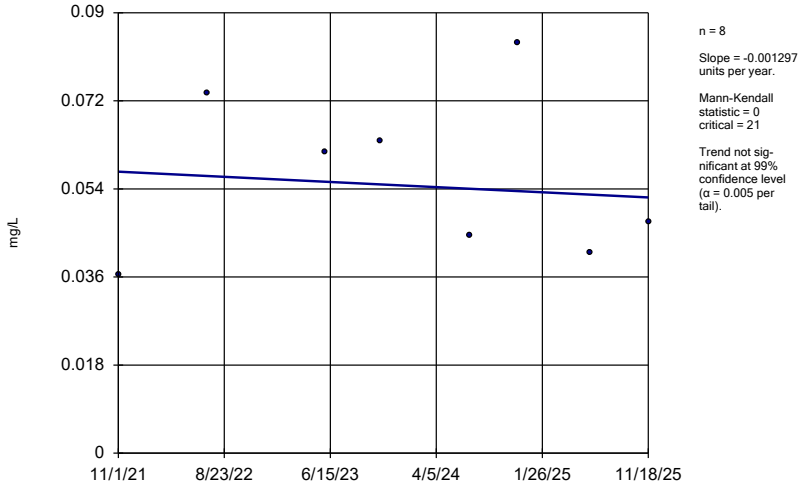


Constituent: Barium Analysis Run 1/5/2026 11:40 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1005

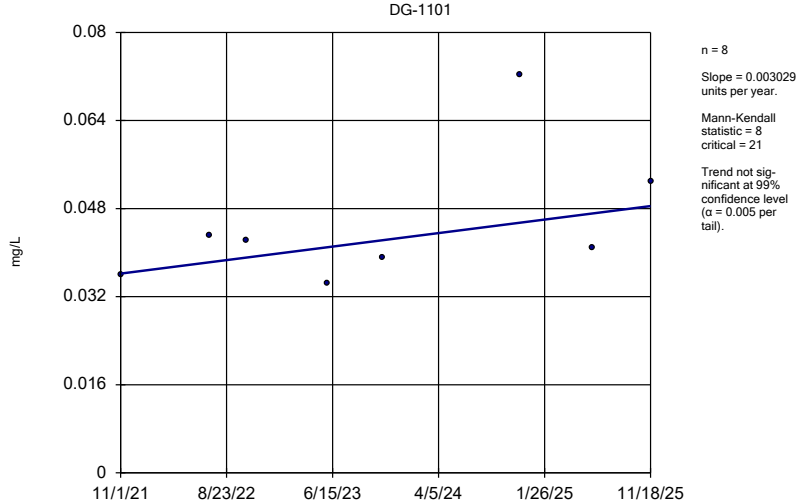


Constituent: Barium Analysis Run 1/5/2026 11:40 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1101



Constituent: Barium Analysis Run 1/5/2026 11:40 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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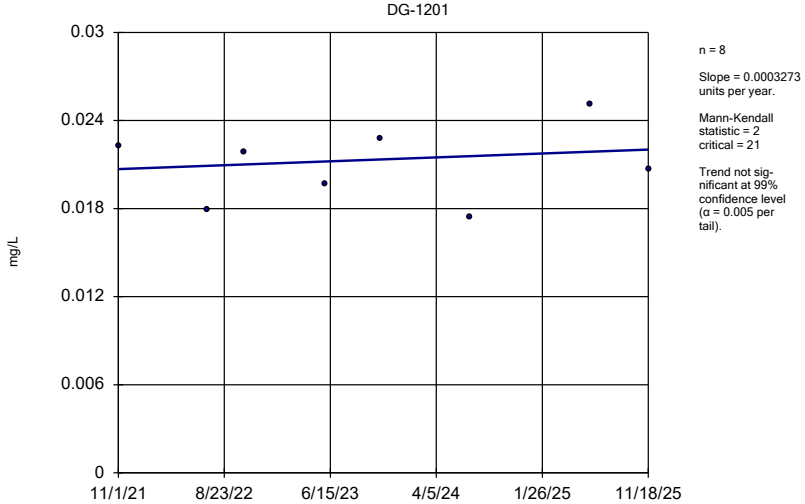
Sen's Slope Estimator

DG-1201

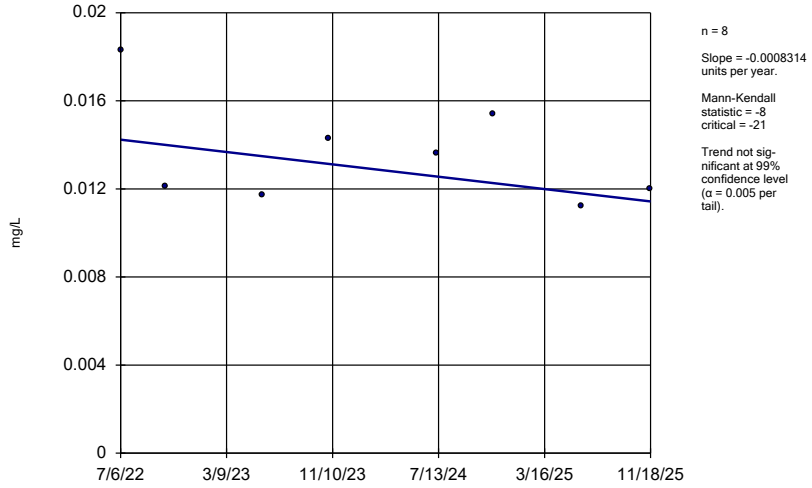


Constituent: Barium Analysis Run 1/5/2026 11:40 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1205



n = 8

Slope = -0.0008314 units per year.

Mann-Kendall statistic = -8
critical = -21

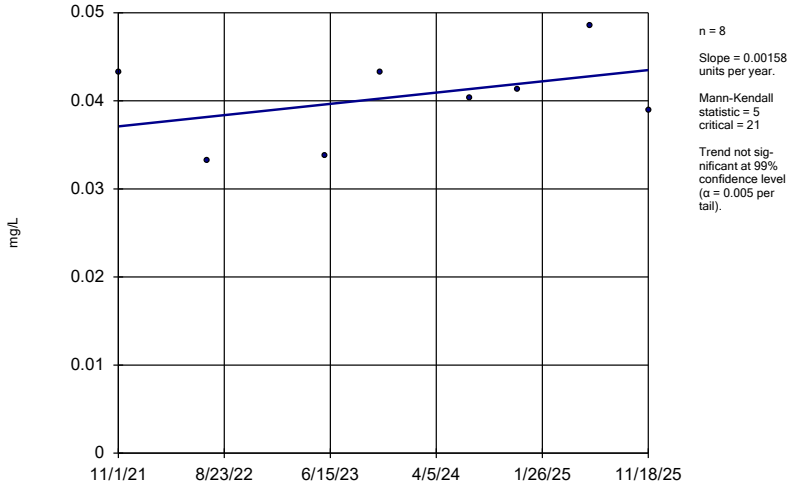
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 1/5/2026 11:40 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1301



n = 8

Slope = 0.00158 units per year.

Mann-Kendall statistic = 5
critical = 21

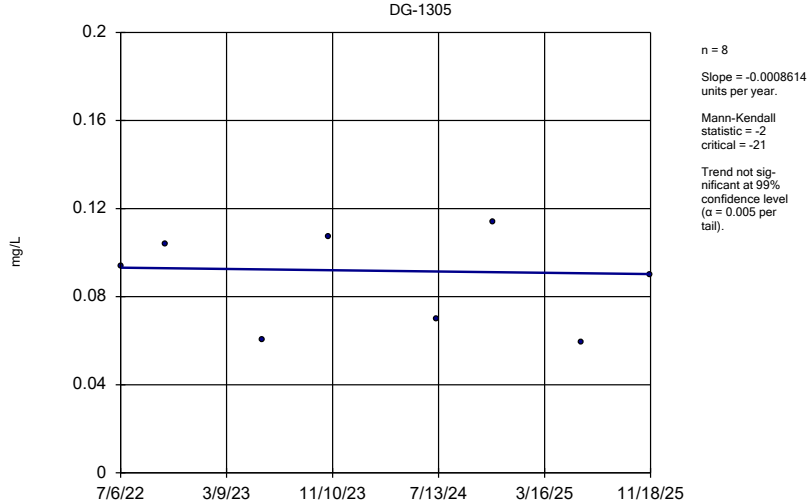
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 1/5/2026 11:40 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1305



n = 8

Slope = -0.0008614 units per year.

Mann-Kendall statistic = -2
critical = -21

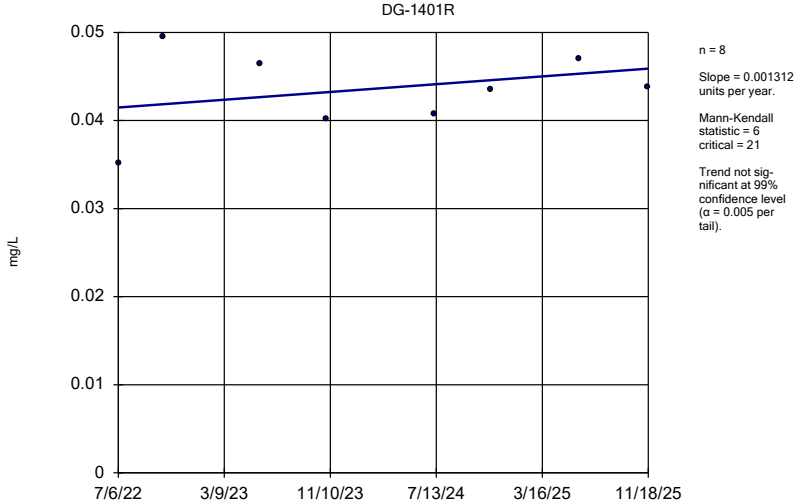
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 1/5/2026 11:40 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1401R



n = 8

Slope = 0.001312 units per year.

Mann-Kendall statistic = 6
critical = 21

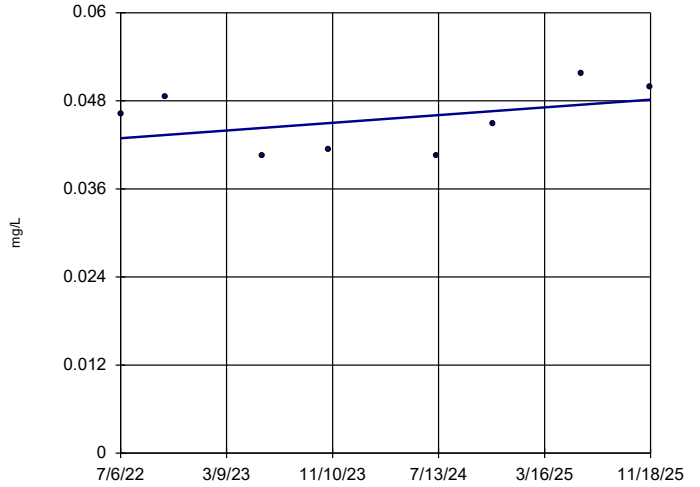
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 1/5/2026 11:40 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DGP-1500



n = 8

Slope = 0.001553 units per year.

Mann-Kendall statistic = 6
critical = 21

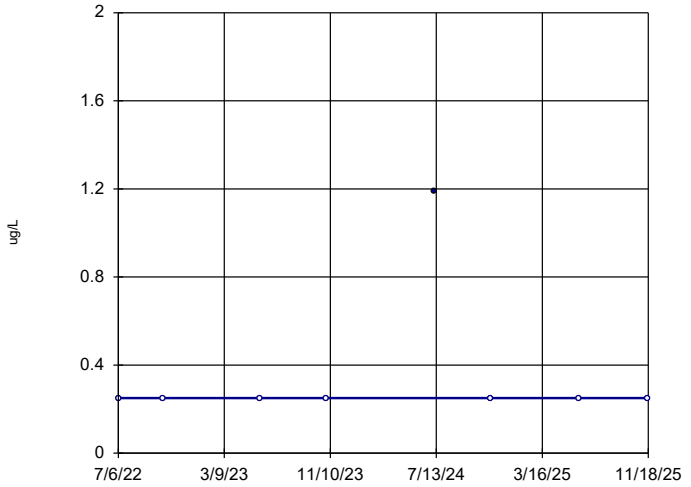
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-901



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 1
critical = 21

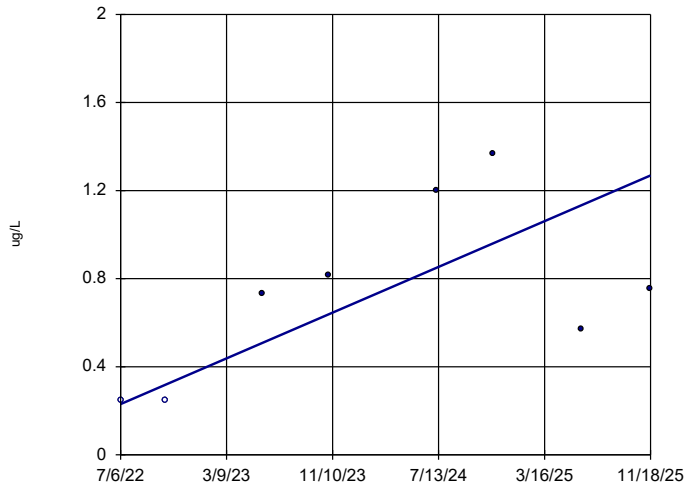
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Benzene Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGP-1500



n = 8

Slope = 0.3079 units per year.

Mann-Kendall statistic = 13
critical = 21

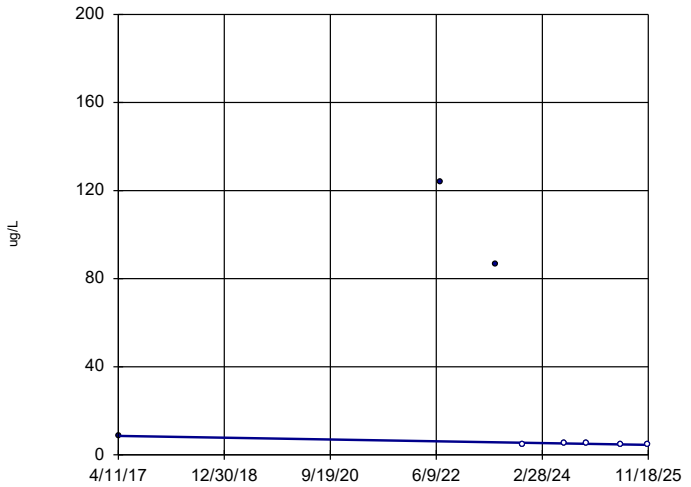
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Benzene Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1301



n = 8

Slope = -0.4744 units per year.

Mann-Kendall statistic = -13
critical = -21

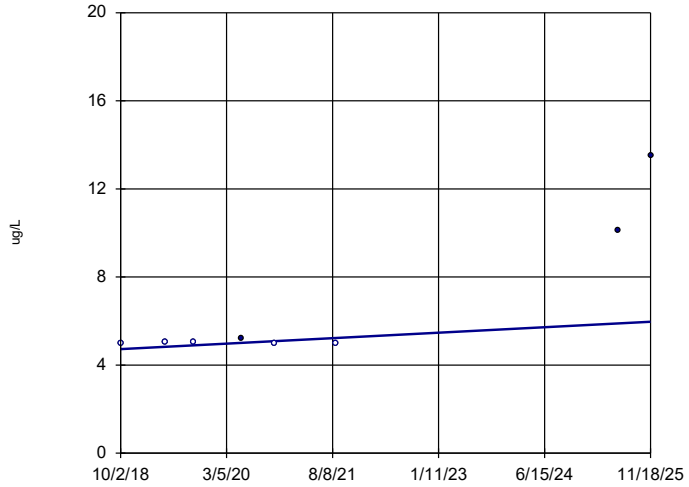
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_I
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGP-1500



n = 8

Slope = 0.1743 units per year.

Mann-Kendall statistic = 12
critical = 21

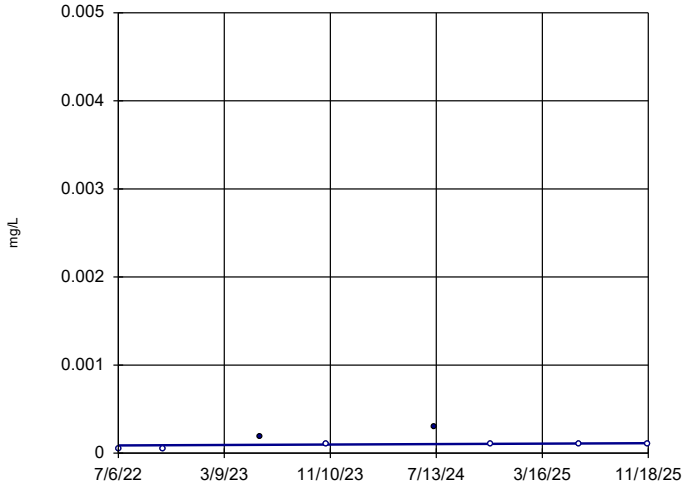
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_I
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-901



n = 8

Slope = 0.000007413 units per year.

Mann-Kendall statistic = 7
critical = 21

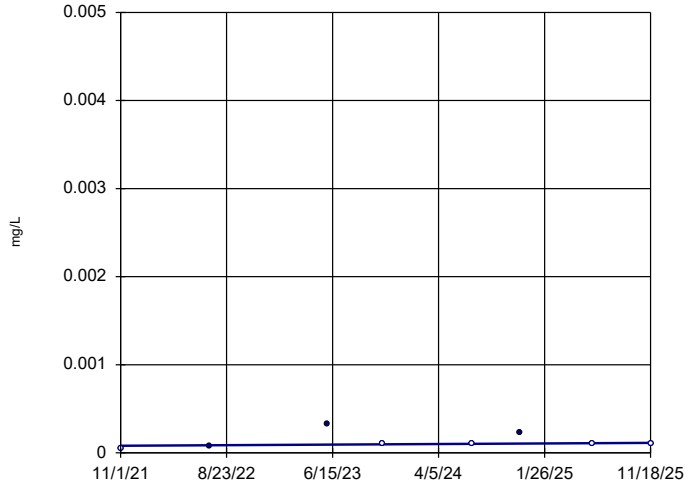
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1005



n = 8

Slope = 0.000007974 units per year.

Mann-Kendall statistic = 8
critical = 21

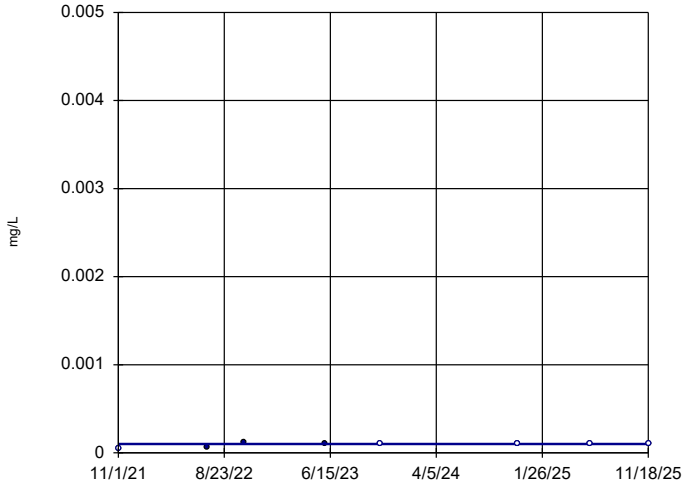
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1101



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 8
critical = 21

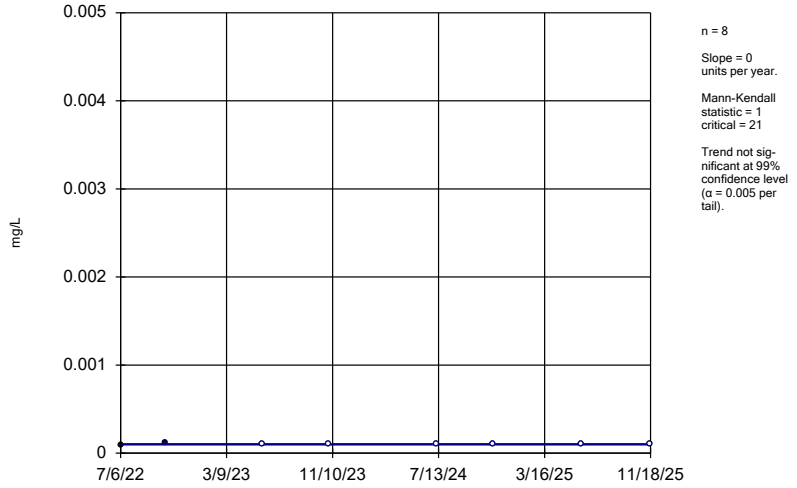
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1401R

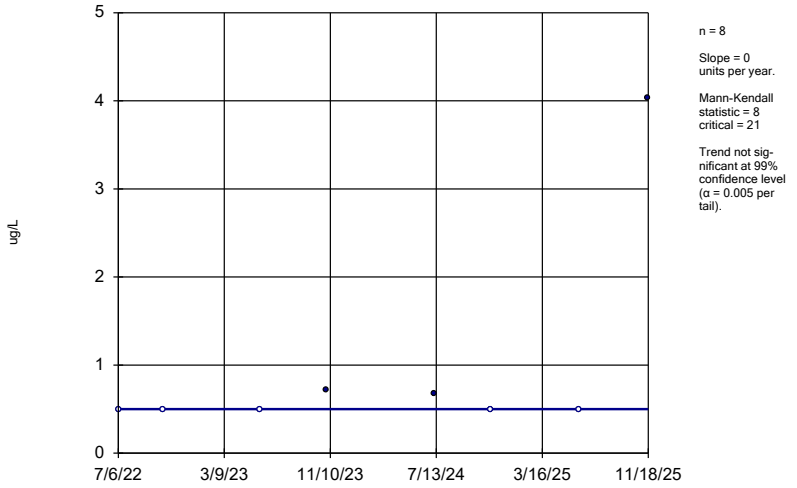


Constituent: Cadmium Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGP-1500

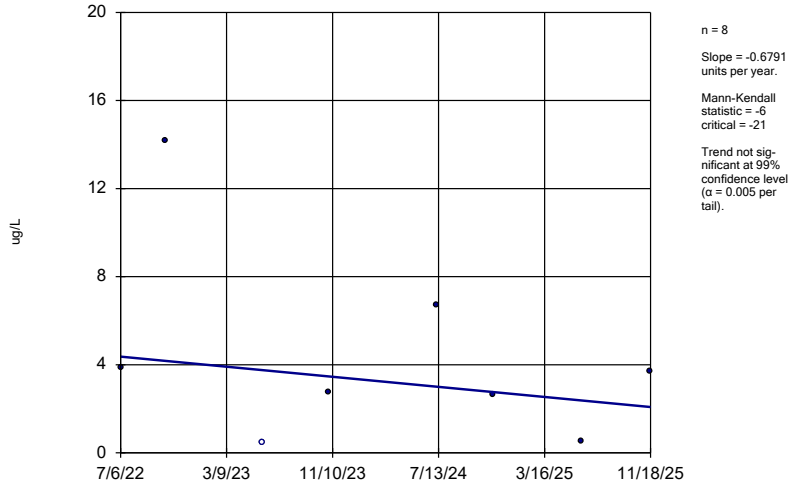


Constituent: Carbon disulfide Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1305

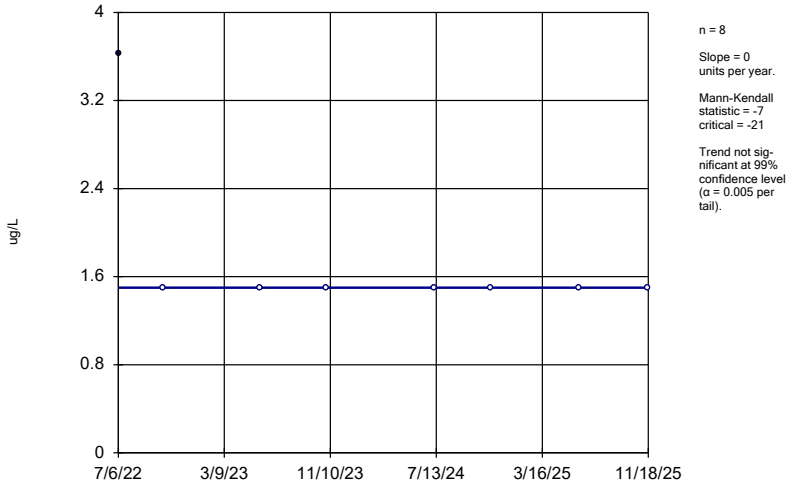


Constituent: Chlorobenzene Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1205

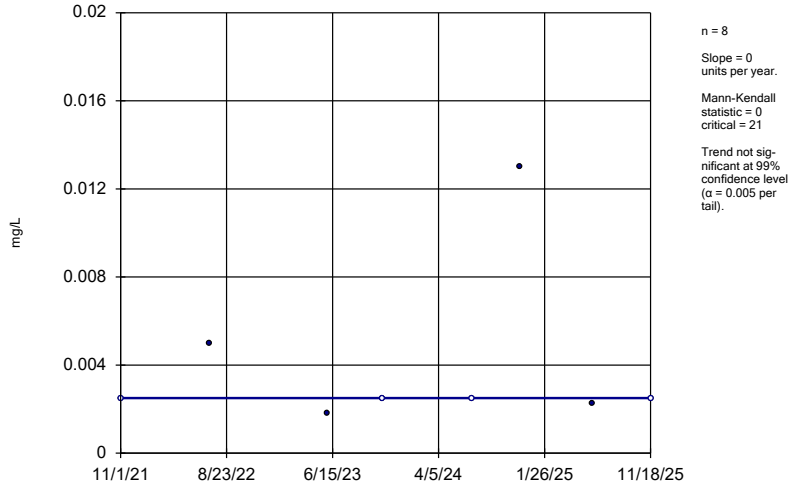


Constituent: Chloromethane Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1005



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 21

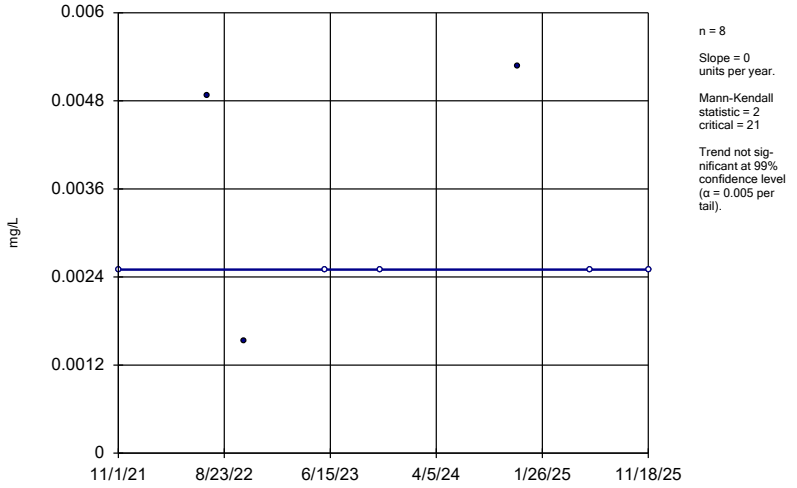
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chromium Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1101



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 2
critical = 21

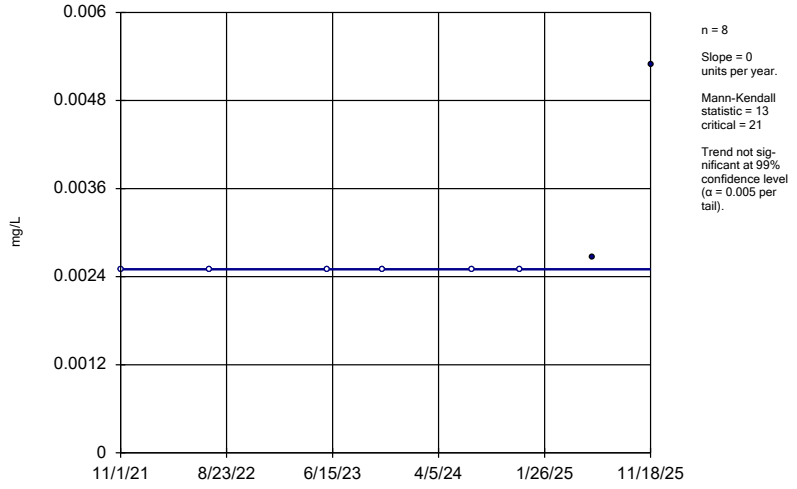
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chromium Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1301



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 13
critical = 21

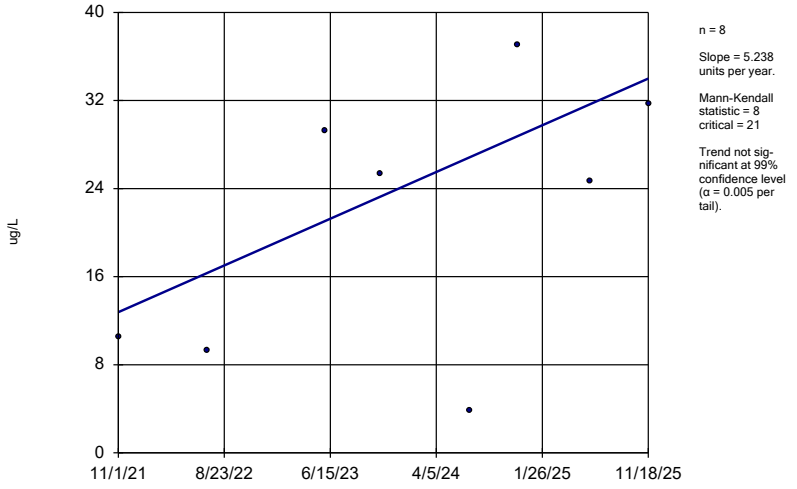
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chromium Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1301



n = 8

Slope = 5.238 units per year.

Mann-Kendall statistic = 8
critical = 21

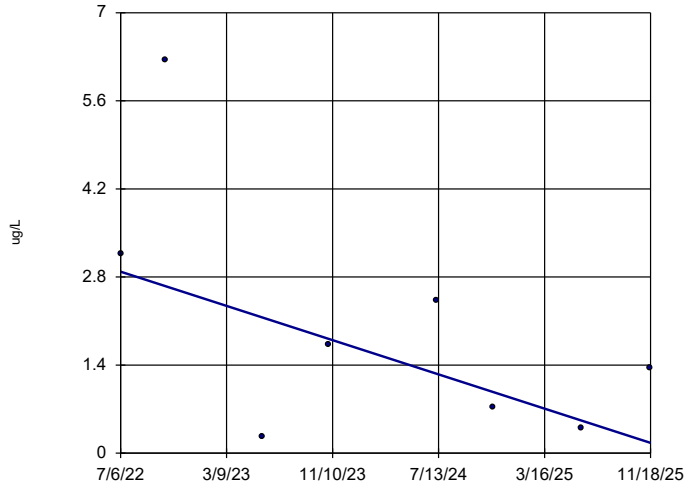
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: cis-1,2-Dichloroethene Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Inte
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1305



n = 8

Slope = -0.8066 units per year.

Mann-Kendall statistic = -10
critical = -21

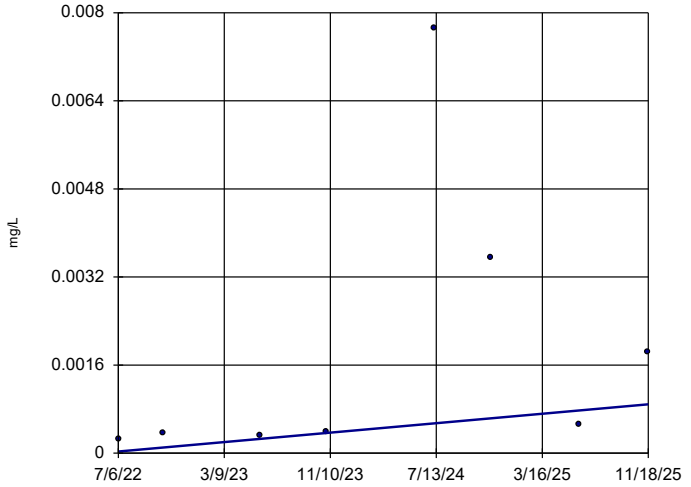
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: cis-1,2-Dichloroethene Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Inte
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-901



n = 8

Slope = 0.0002536 units per year.

Mann-Kendall statistic = 16
critical = 21

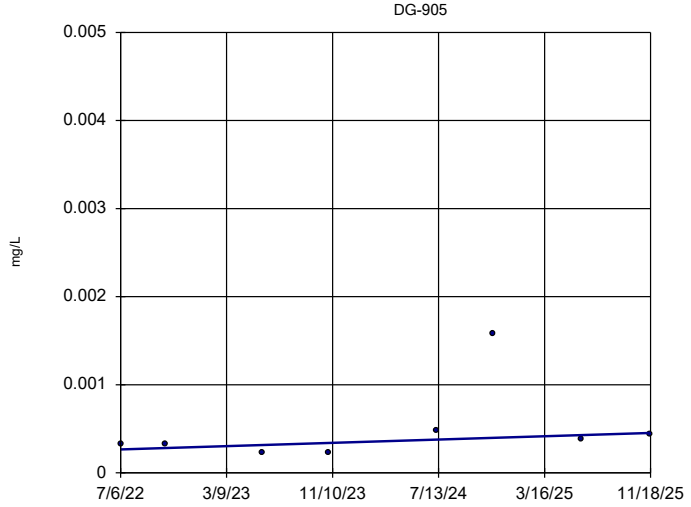
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-905



n = 8

Slope = 0.00005589 units per year.

Mann-Kendall statistic = 8
critical = 21

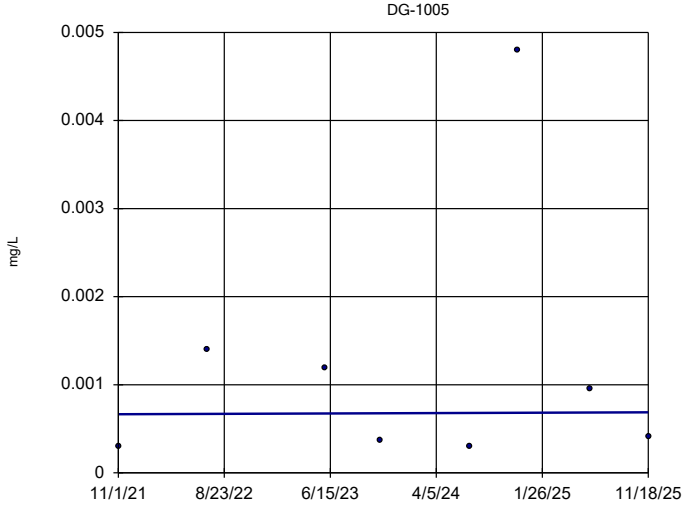
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1005



n = 8

Slope = 0.000005449 units per year.

Mann-Kendall statistic = 0
critical = 21

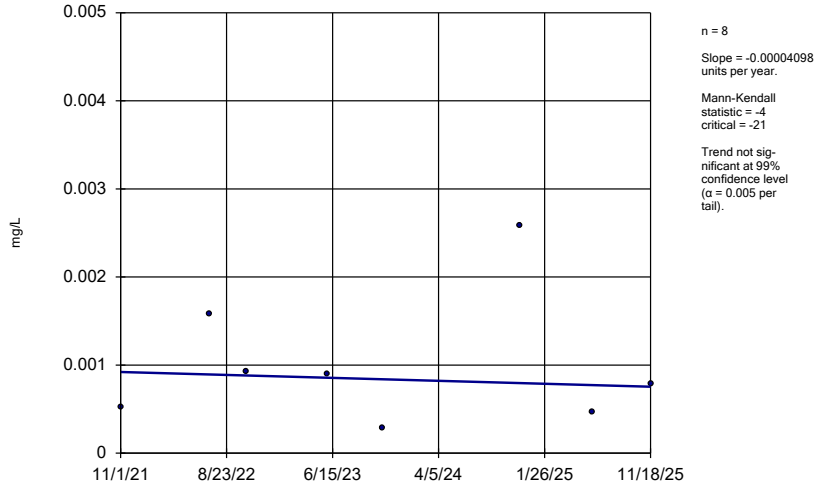
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1101



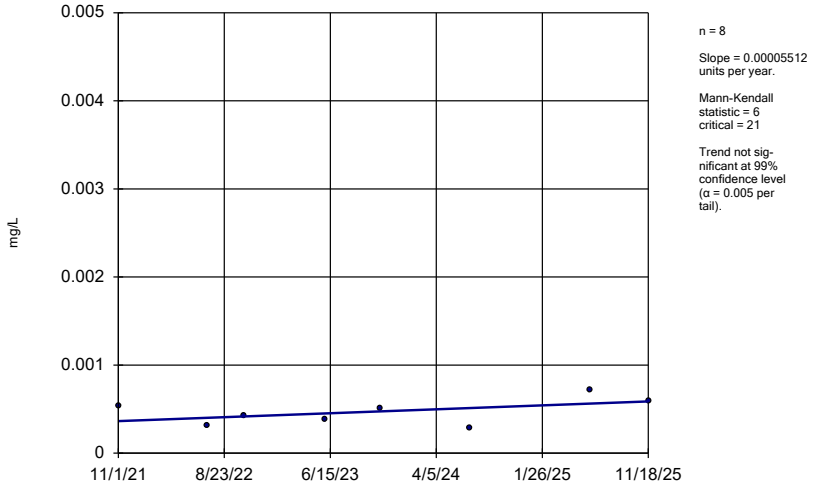
Constituent: Cobalt Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1201



Constituent: Cobalt Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval

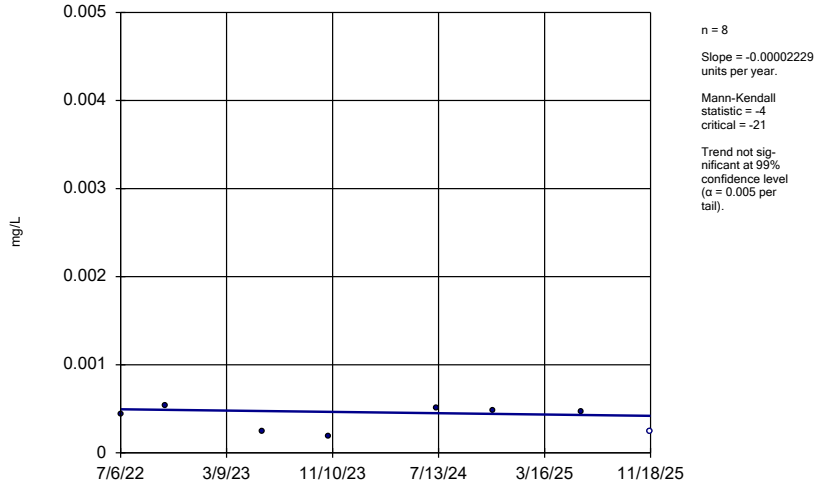
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1205



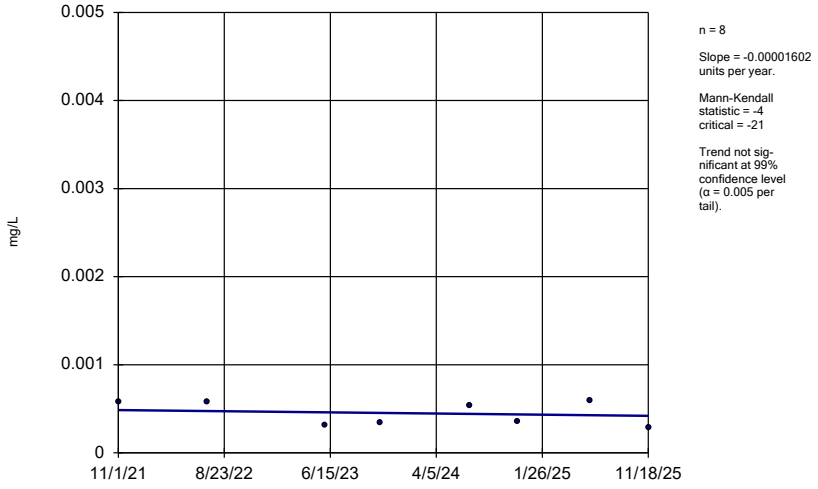
Constituent: Cobalt Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1301



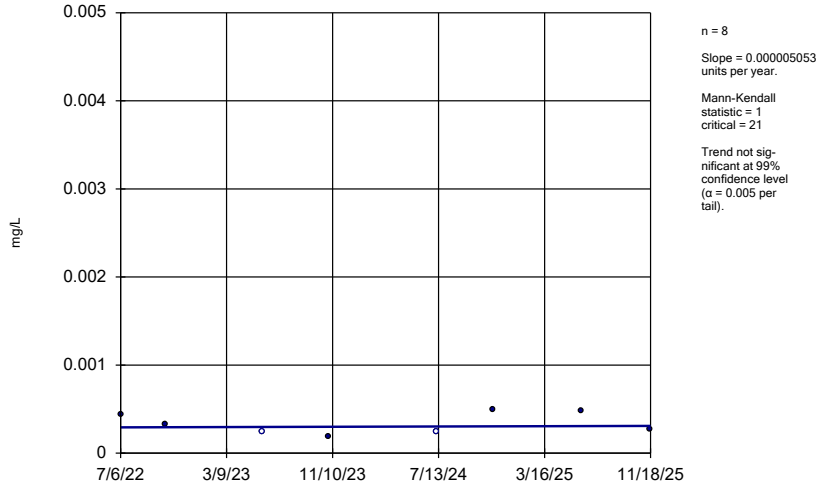
Constituent: Cobalt Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1305



n = 8

Slope = 0.000005053 units per year.

Mann-Kendall statistic = 1
critical = 21

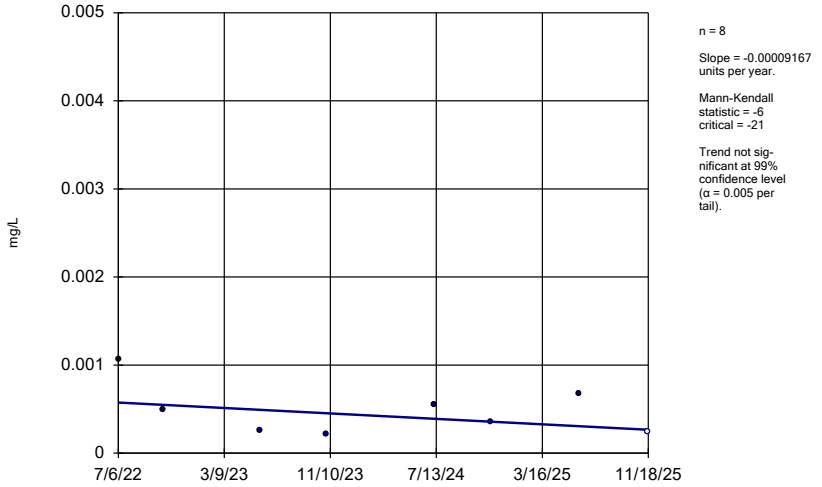
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1401R



n = 8

Slope = -0.00009167 units per year.

Mann-Kendall statistic = -6
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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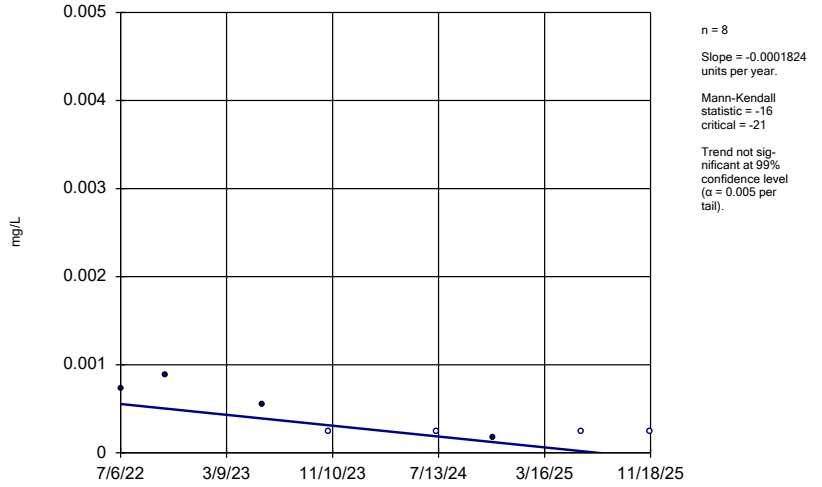
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGP-1500



n = 8

Slope = -0.0001824 units per year.

Mann-Kendall statistic = -16
critical = -21

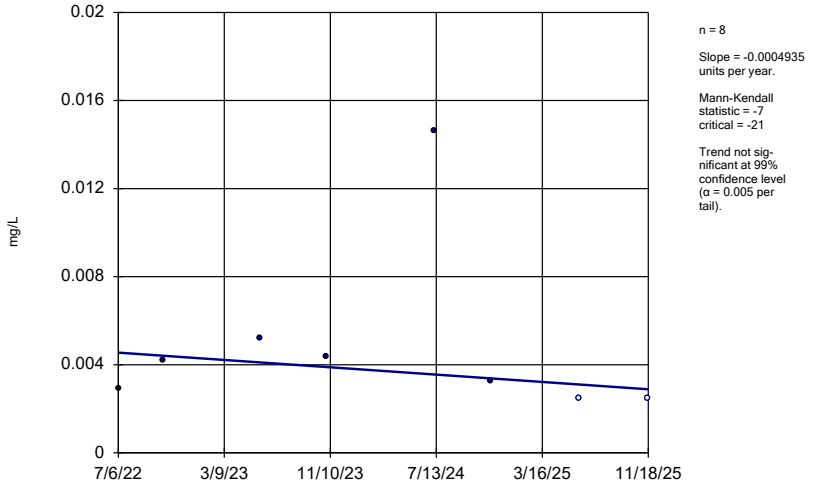
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-901



n = 8

Slope = -0.0004935 units per year.

Mann-Kendall statistic = -7
critical = -21

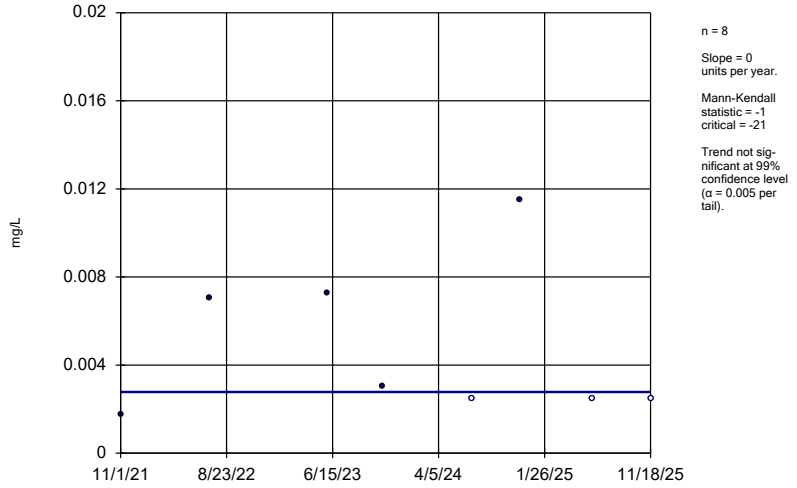
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Copper Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1005



n = 8

Slope = 0
units per year.

Mann-Kendall
statistic = -1
critical = -21

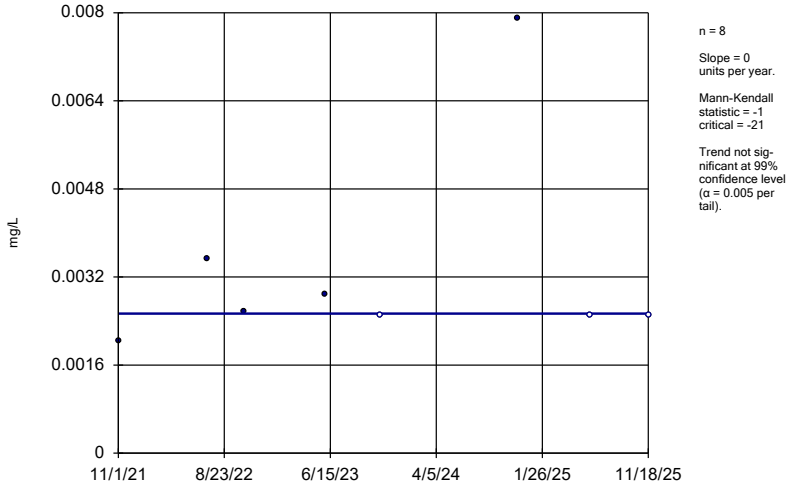
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Copper Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1101



n = 8

Slope = 0
units per year.

Mann-Kendall
statistic = -1
critical = -21

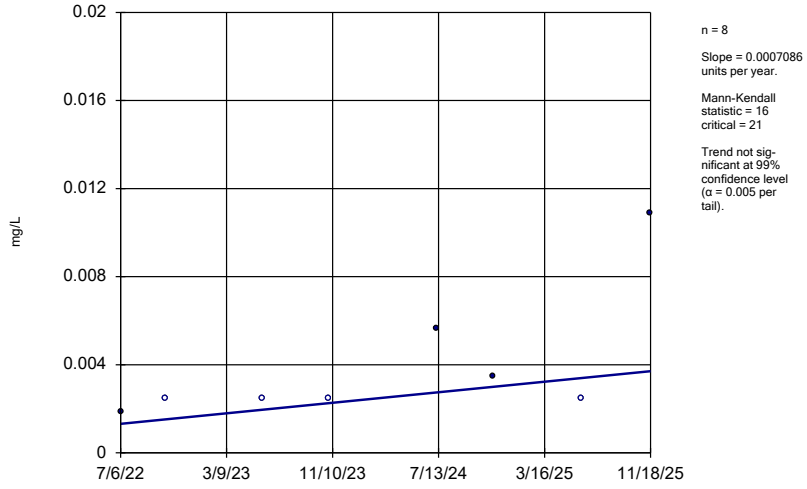
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Copper Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1205



n = 8

Slope = 0.0007086
units per year.

Mann-Kendall
statistic = 16
critical = 21

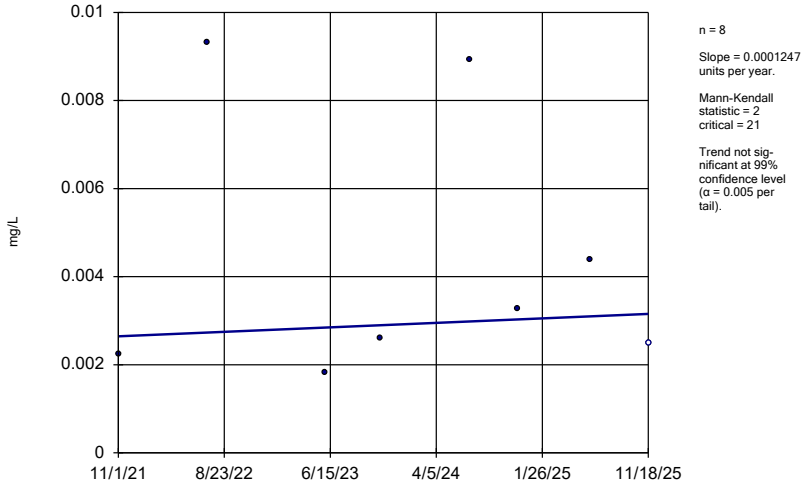
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Copper Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1301



n = 8

Slope = 0.0001247
units per year.

Mann-Kendall
statistic = 2
critical = 21

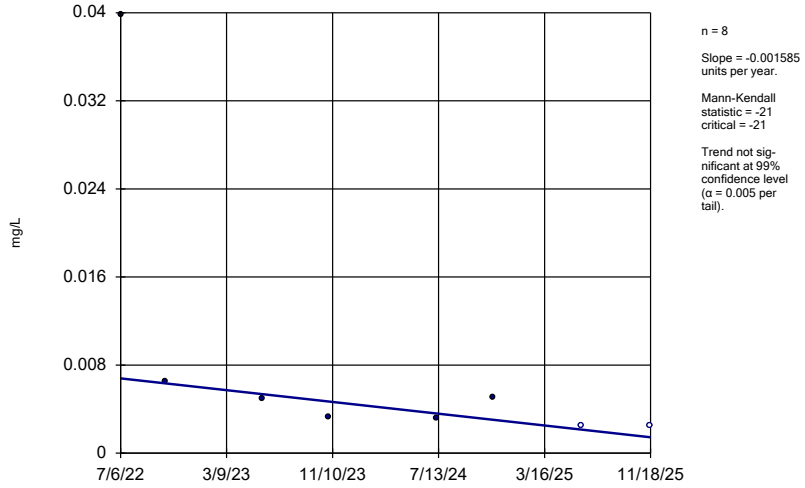
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Copper Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1401R



n = 8

Slope = -0.001585 units per year.

Mann-Kendall statistic = -21
critical = -21

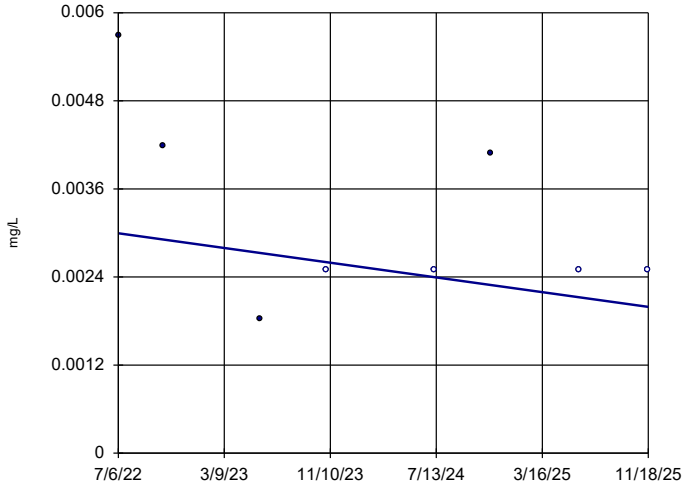
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Copper Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGP-1500



n = 8

Slope = -0.0002973 units per year.

Mann-Kendall statistic = -8
critical = -21

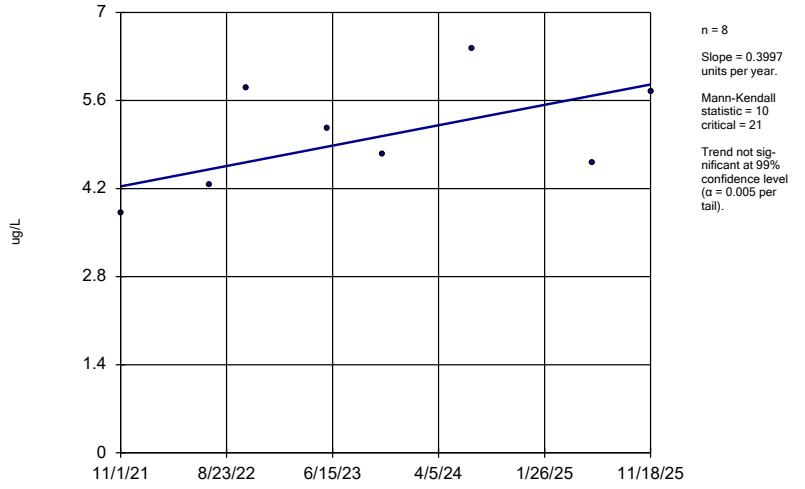
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Copper Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1205



n = 8

Slope = 0.3997 units per year.

Mann-Kendall statistic = 10
critical = 21

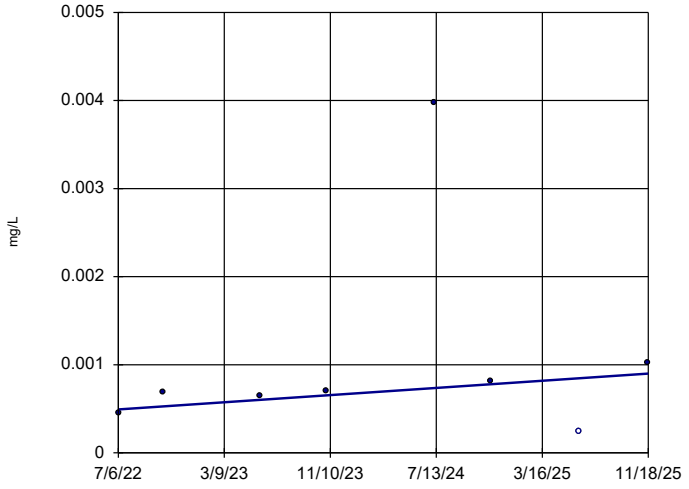
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Dichlorodifluoromethane Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_In
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-901



n = 8

Slope = 0.000121 units per year.

Mann-Kendall statistic = 10
critical = 21

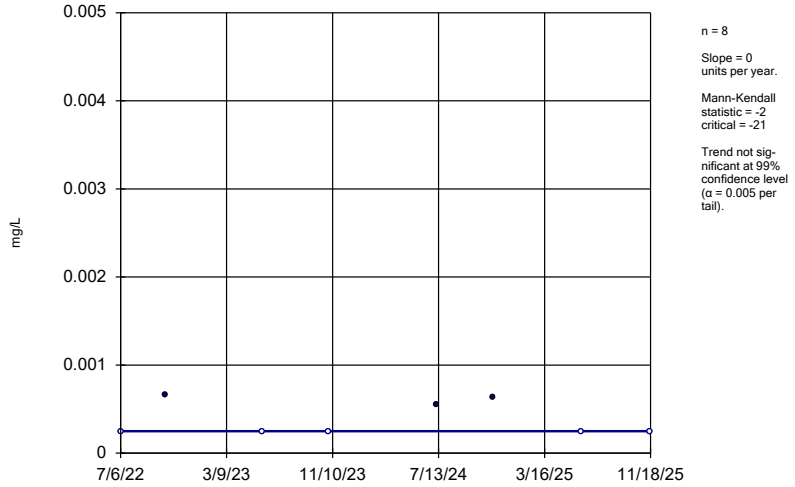
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-905



n = 8

Slope = 0
units per year.

Mann-Kendall
statistic = -2
critical = -21

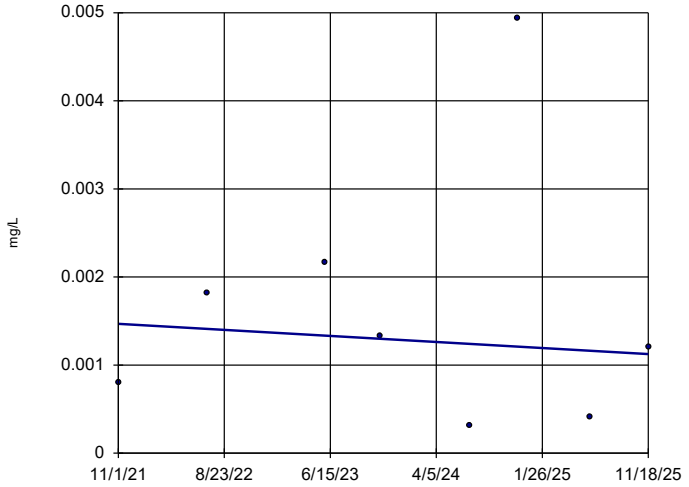
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Lead Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1005



n = 8

Slope = -0.00008471
units per year.

Mann-Kendall
statistic = -2
critical = -21

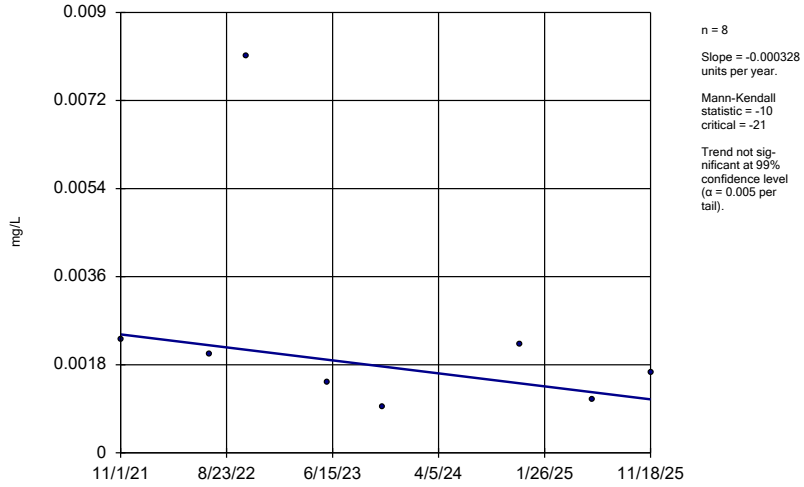
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Lead Analysis Run 1/5/2026 11:41 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1101



n = 8

Slope = -0.000328
units per year.

Mann-Kendall
statistic = -10
critical = -21

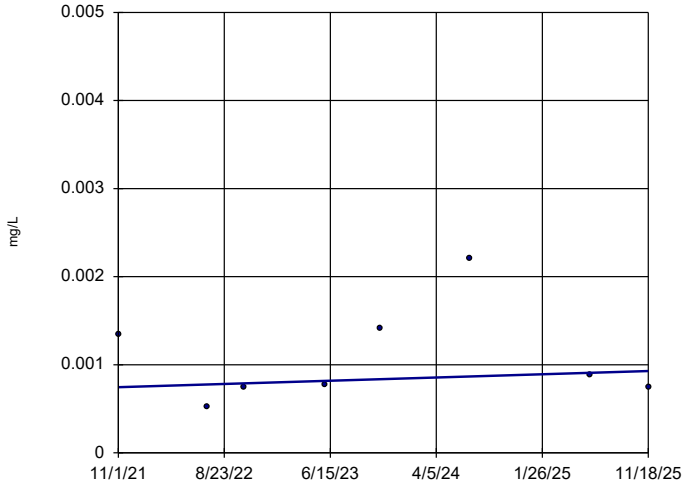
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Lead Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1201



n = 8

Slope = 0.00004529
units per year.

Mann-Kendall
statistic = 4
critical = 21

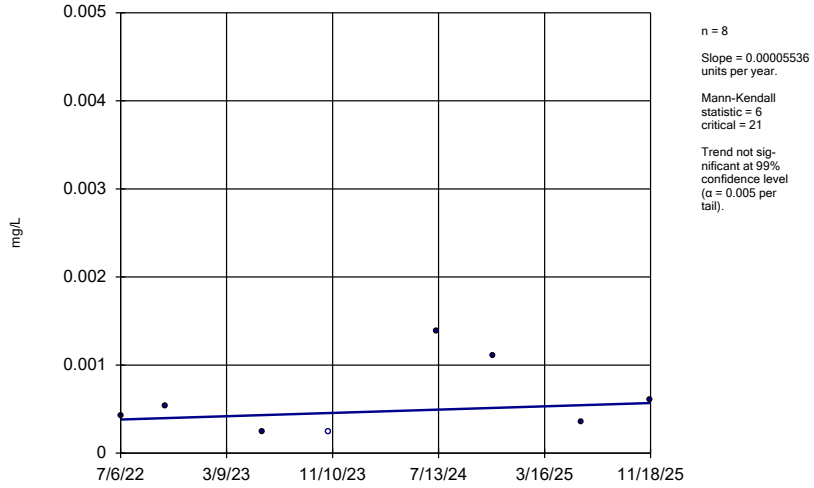
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Lead Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1205



n = 8

Slope = 0.00005536 units per year.

Mann-Kendall statistic = 6
critical = 21

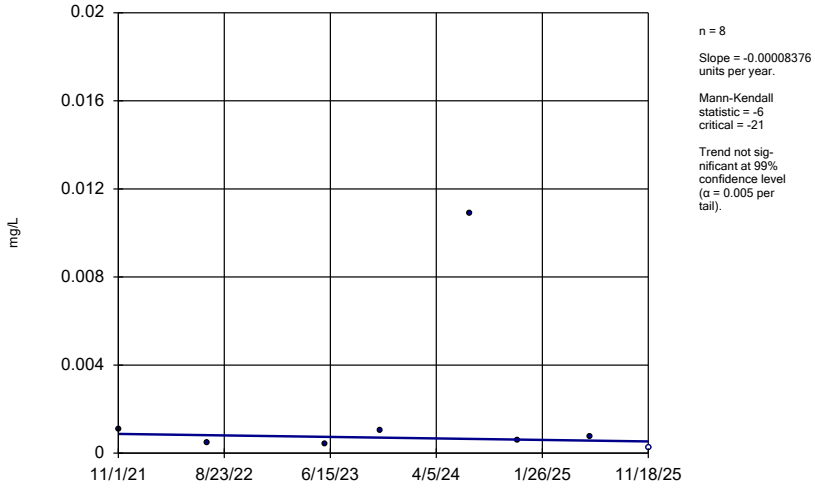
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1301



n = 8

Slope = -0.00008376 units per year.

Mann-Kendall statistic = -6
critical = -21

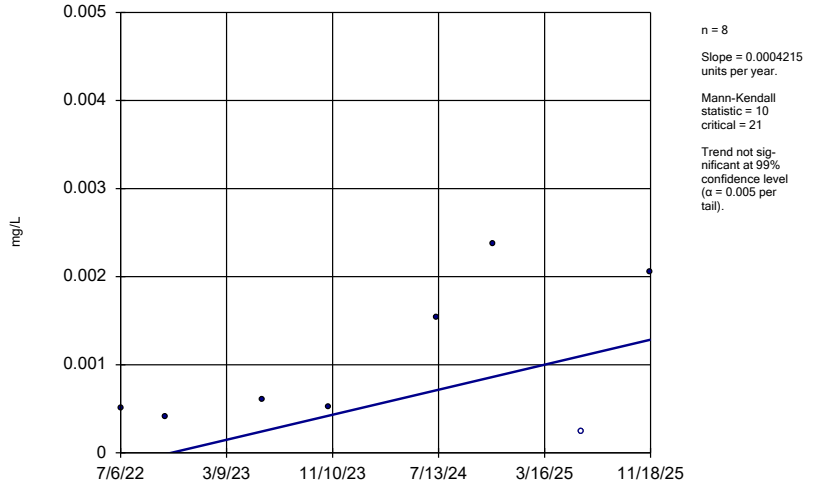
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1305



n = 8

Slope = 0.0004215 units per year.

Mann-Kendall statistic = 10
critical = 21

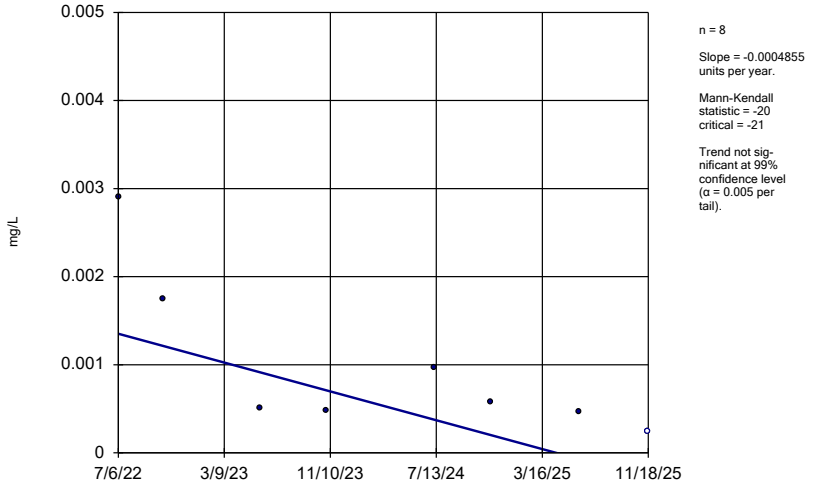
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1401R



n = 8

Slope = -0.0004855 units per year.

Mann-Kendall statistic = -20
critical = -21

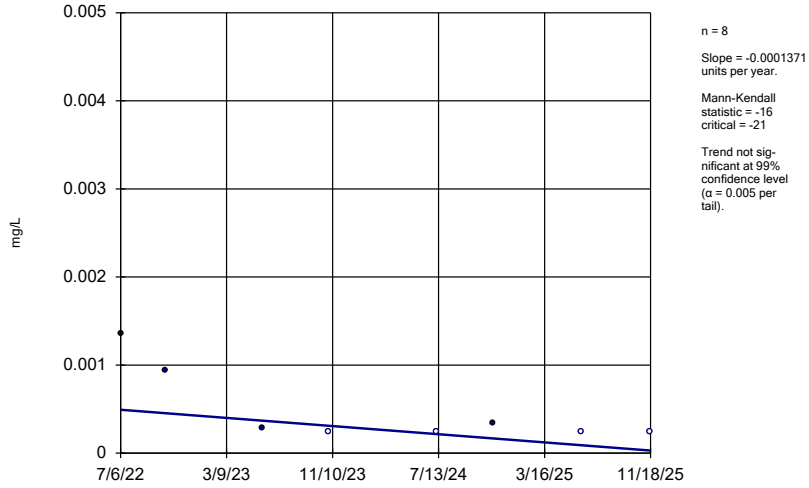
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGP-1500



n = 8

Slope = -0.0001371 units per year.

Mann-Kendall statistic = -16
critical = -21

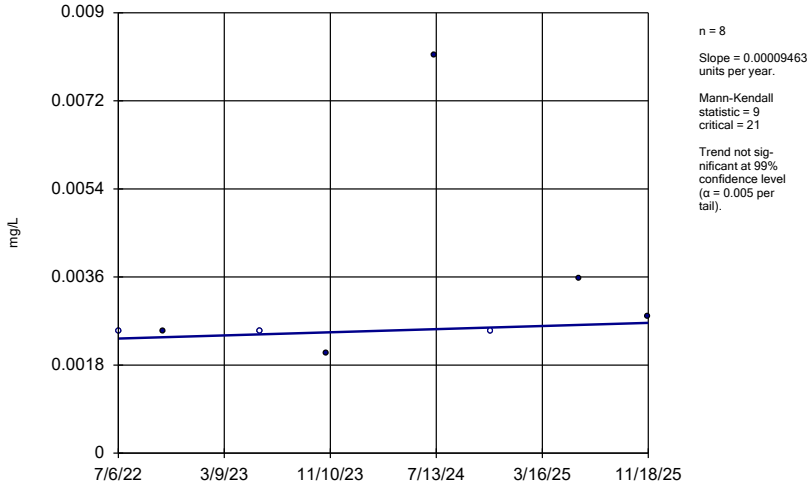
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-901



n = 8

Slope = 0.00009463 units per year.

Mann-Kendall statistic = 9
critical = 21

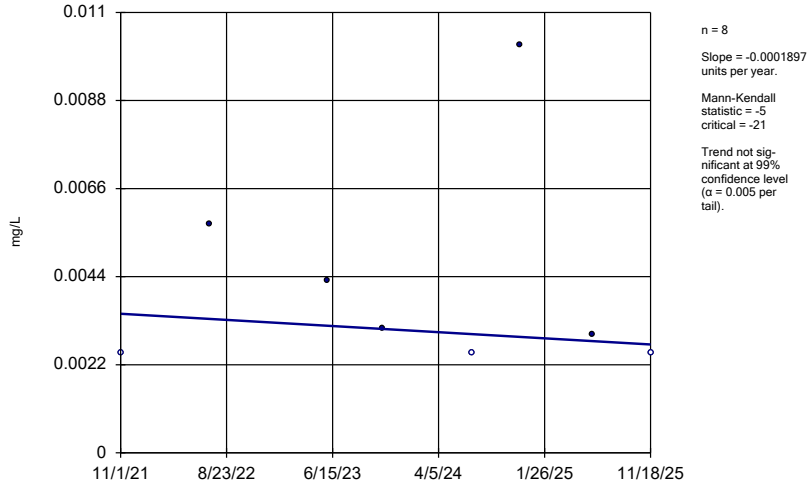
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1005



n = 8

Slope = -0.0001897 units per year.

Mann-Kendall statistic = -5
critical = -21

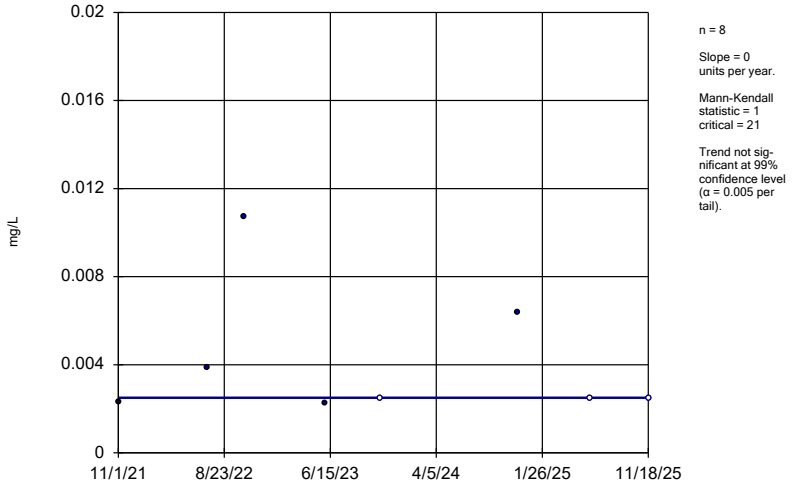
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1101



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 1
critical = 21

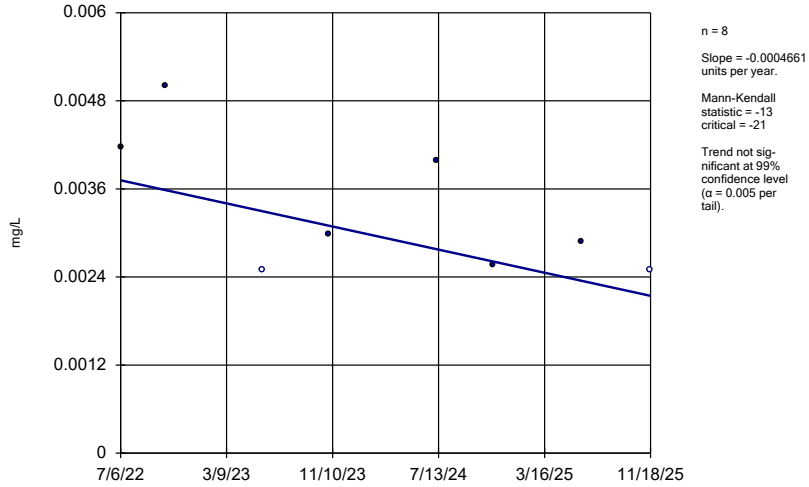
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1205



n = 8

Slope = -0.0004661 units per year.

Mann-Kendall statistic = -13
critical = -21

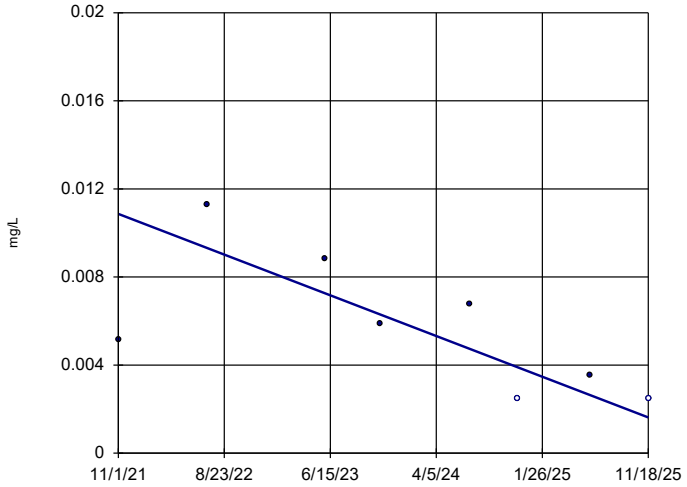
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1301



n = 8

Slope = -0.002282 units per year.

Mann-Kendall statistic = -15
critical = -21

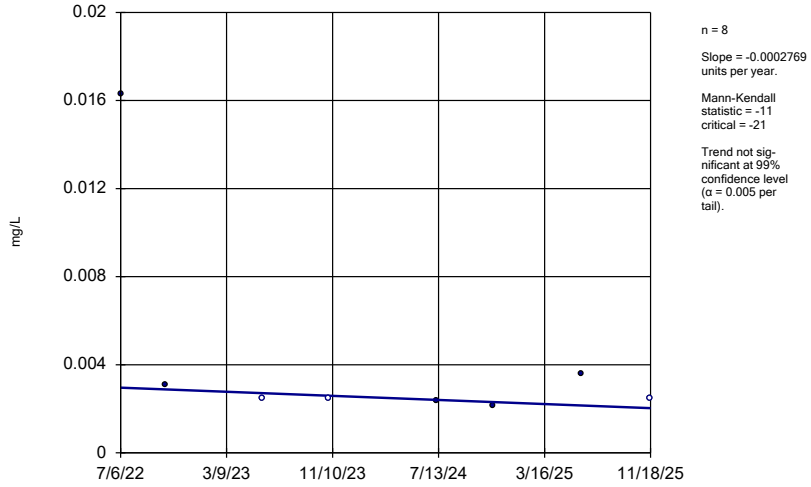
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1401R



n = 8

Slope = -0.0002769 units per year.

Mann-Kendall statistic = -11
critical = -21

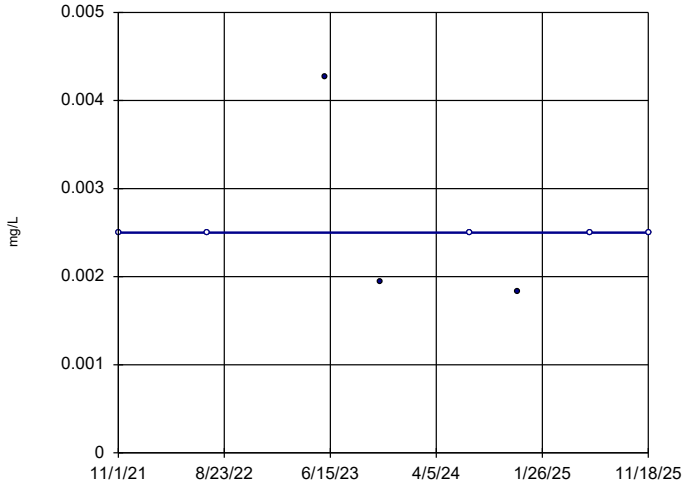
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1005



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = -4
critical = -21

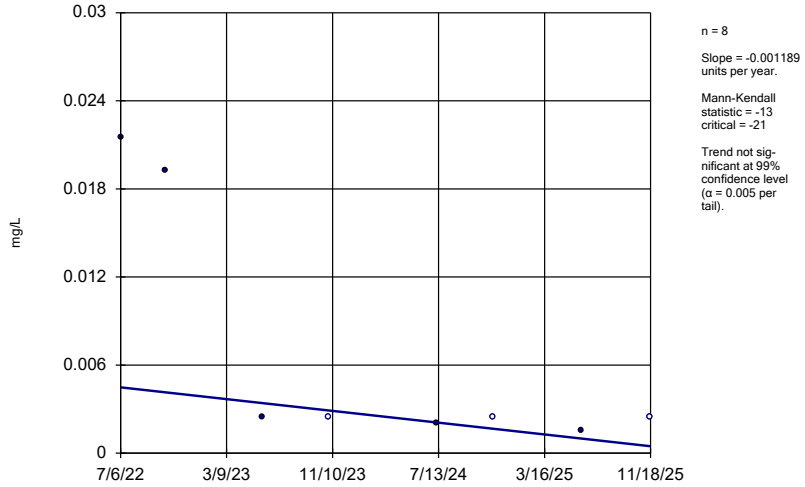
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGP-1500



n = 8

Slope = -0.001189 units per year.

Mann-Kendall statistic = -13
critical = -21

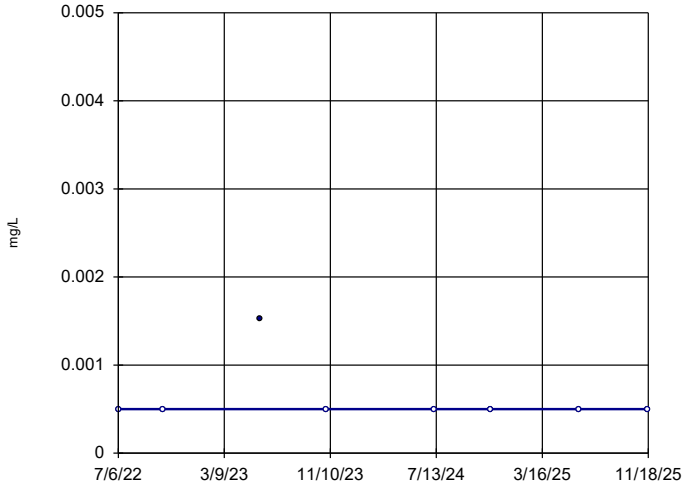
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-901



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = -3
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Silver Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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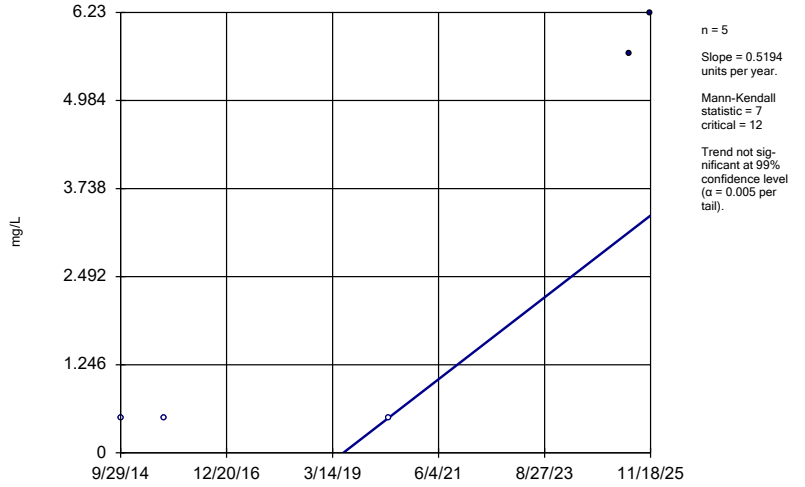
Hollow symbols indicate censored values.

Sen's Slope Estimator

DGP-1500



n = 5

Slope = 0.5194 units per year.

Mann-Kendall statistic = 7
critical = 12

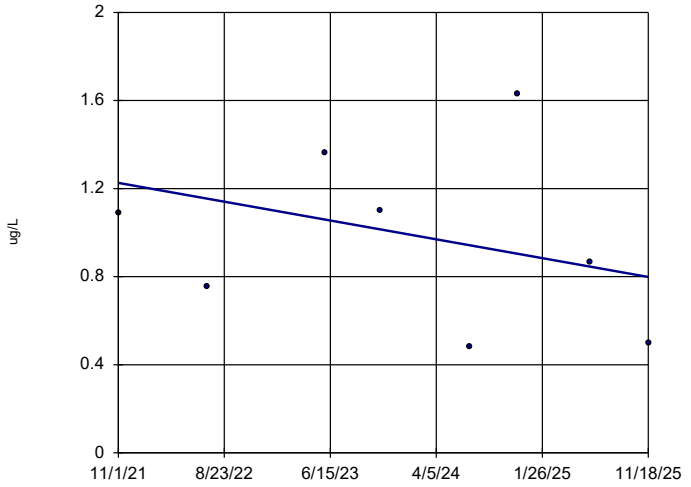
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfide Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1301



n = 8

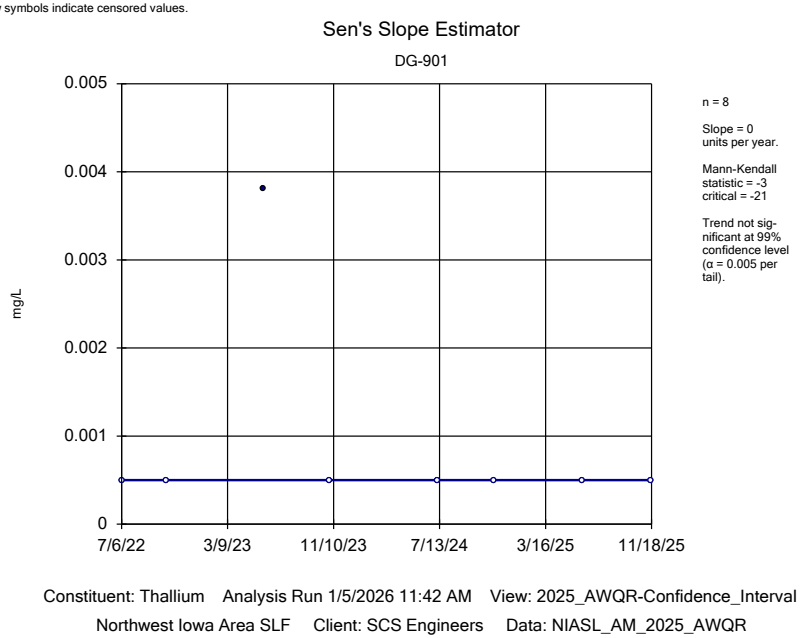
Slope = -0.1055 units per year.

Mann-Kendall statistic = -4
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

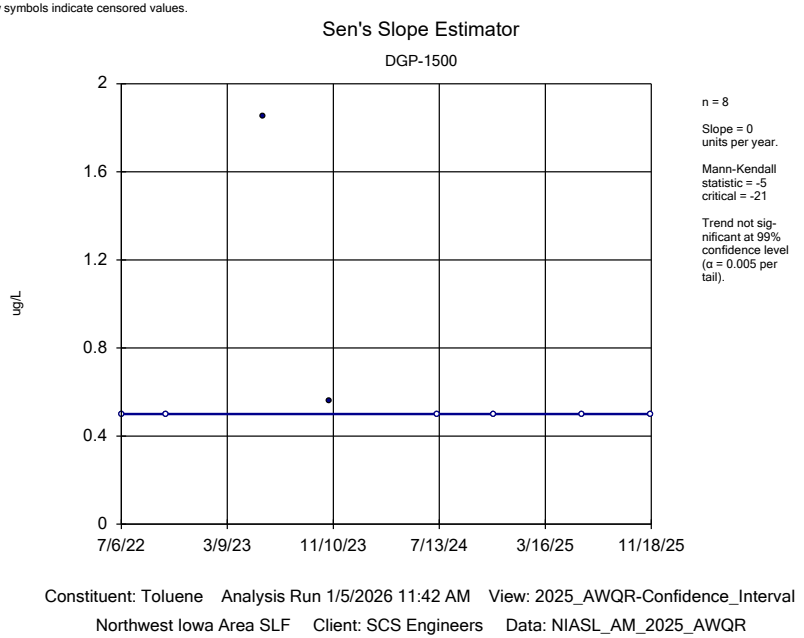
Constituent: Tetrachloroethene Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.



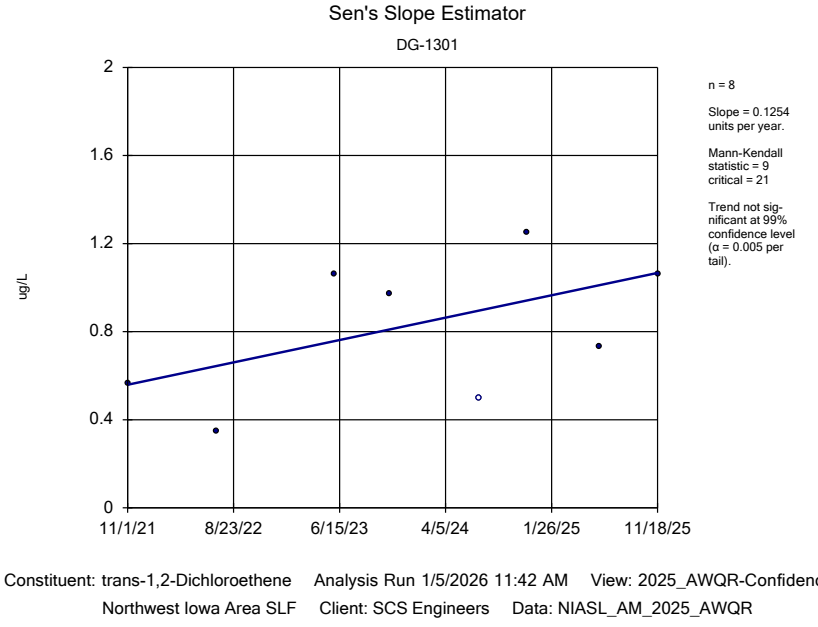
Constituent: Thallium Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.



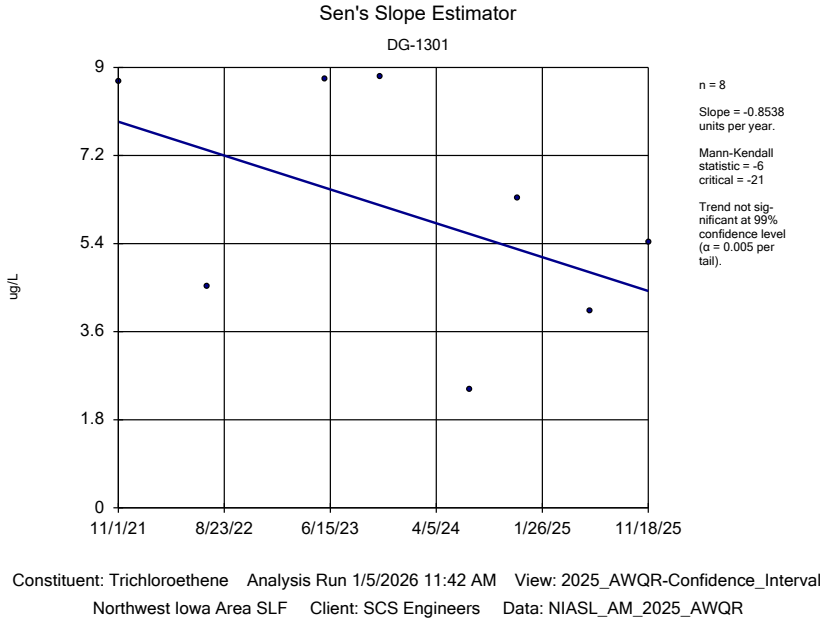
Constituent: Toluene Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.



Constituent: trans-1,2-Dichloroethene Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_I
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

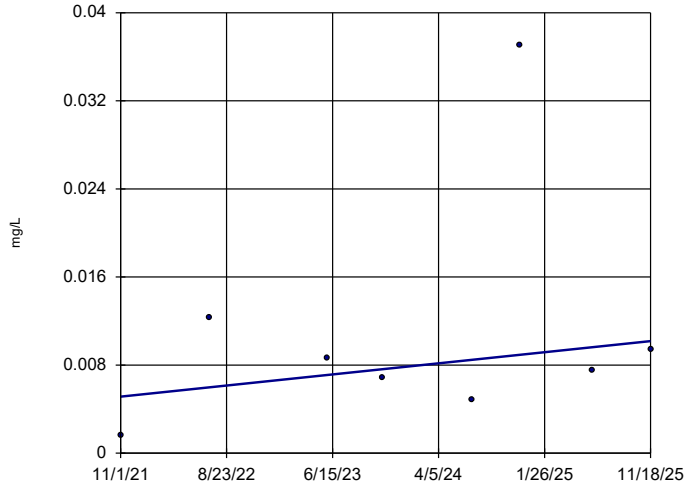


Constituent: Trichloroethene Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1005



n = 8

Slope = 0.001245 units per year.

Mann-Kendall statistic = 6 critical = 21

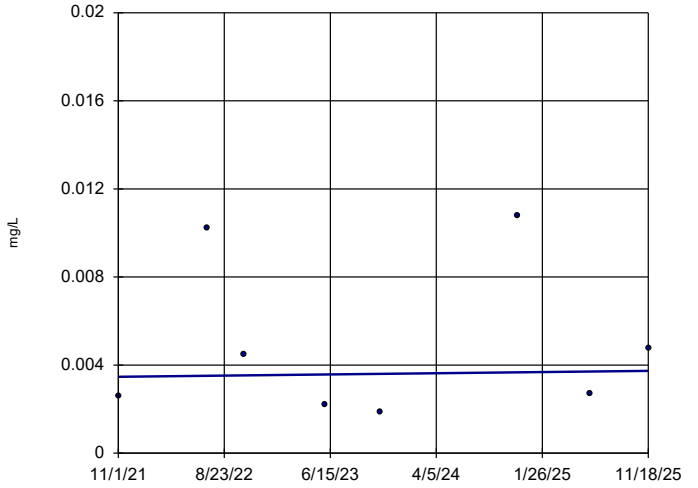
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Vanadium Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Sen's Slope Estimator

DG-1101



n = 8

Slope = 0.0000668 units per year.

Mann-Kendall statistic = 2 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Vanadium Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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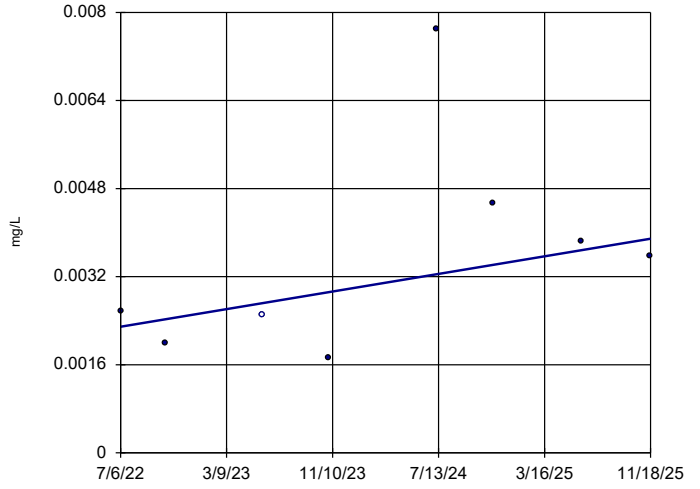
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1205



n = 8

Slope = 0.0004739 units per year.

Mann-Kendall statistic = 6 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Vanadium Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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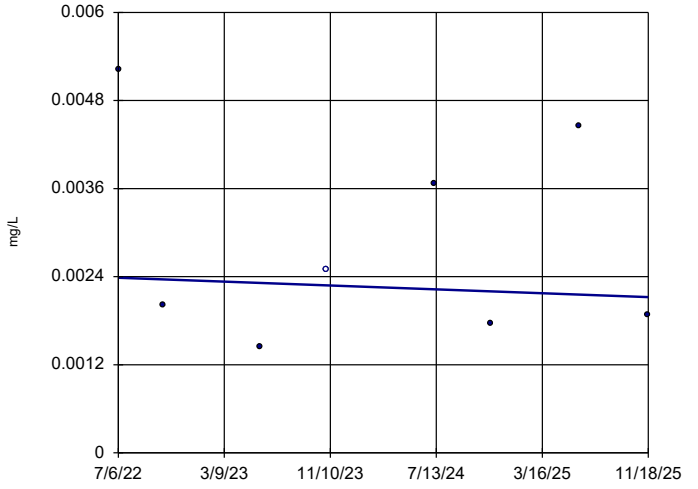
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1401R



n = 8

Slope = -0.00007844 units per year.

Mann-Kendall statistic = -2 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Vanadium Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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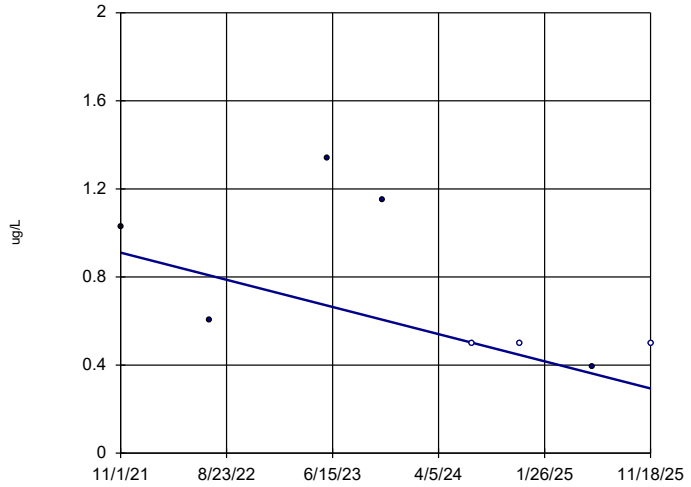
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1301



n = 8

Slope = -0.1523 units per year.

Mann-Kendall statistic = -15
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Vinyl chloride Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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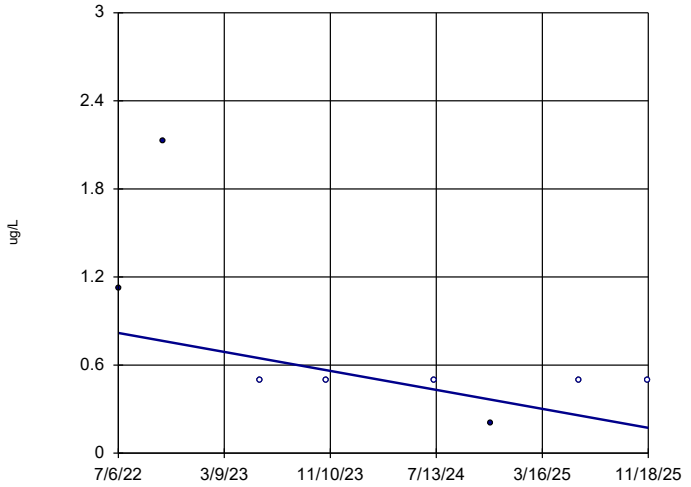
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1305



n = 8

Slope = -0.1916 units per year.

Mann-Kendall statistic = -12
critical = -21

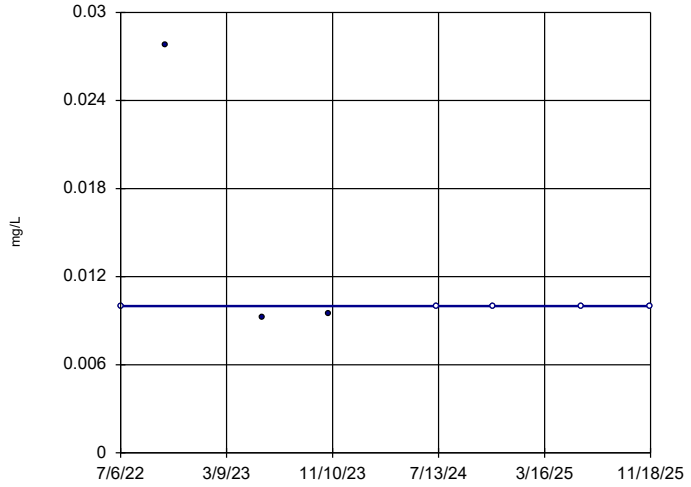
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Vinyl chloride Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-901



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 2
critical = 21

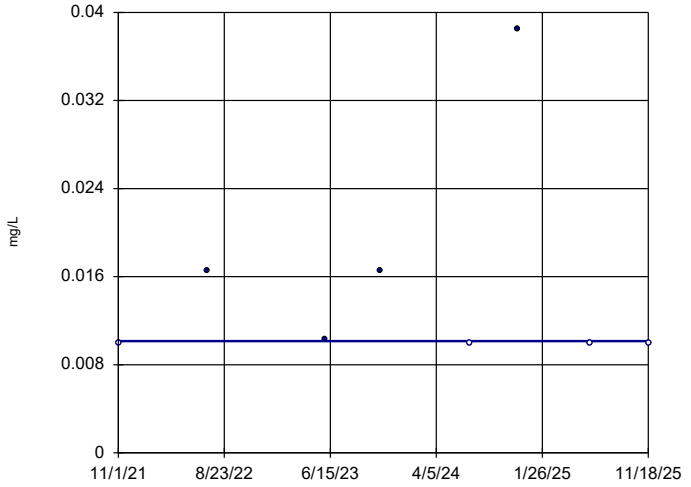
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Zinc Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1005



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = -4
critical = -21

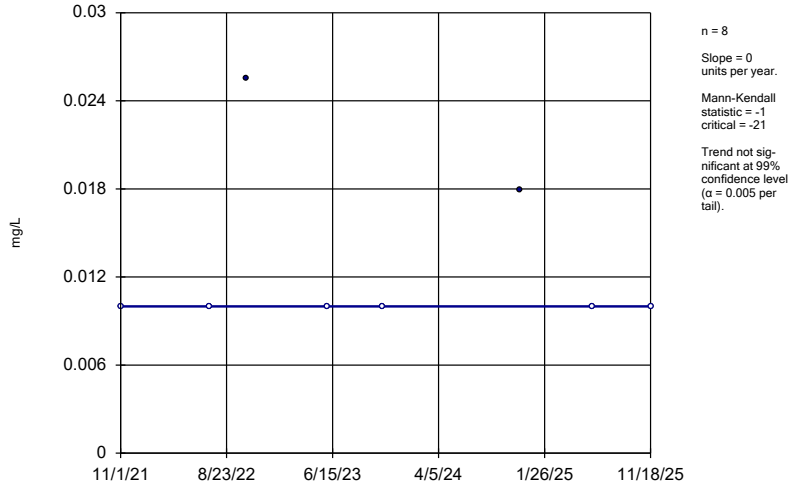
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Zinc Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1101

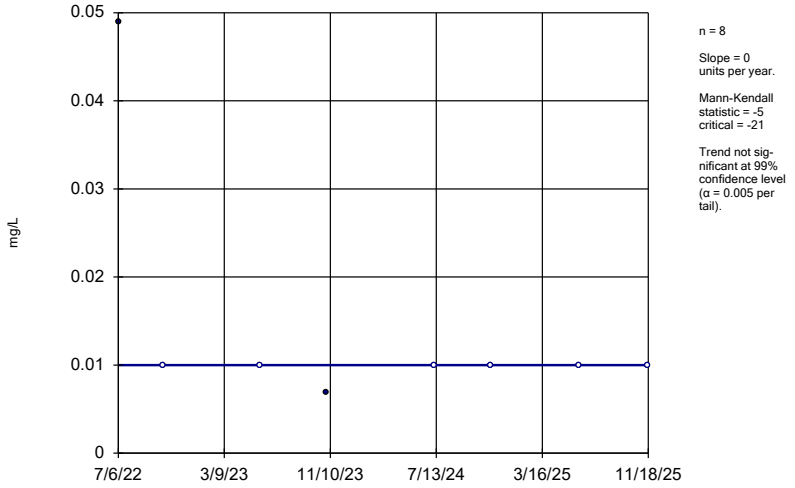


Constituent: Zinc Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

DG-1401R



Constituent: Zinc Analysis Run 1/5/2026 11:42 AM View: 2025_AWQR-Confidence_Interval
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Confidence Interval Summary Table and Graphs

Confidence Interval

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR Printed 1/5/2026, 11:57 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
1,1-Dichloroethane (ug/L)	DG-1205	2.917	2.008	140	No	8	0	No	0.01	Param.
1,1-Dichloroethane (ug/L)	DG-1301	12.65	4.84	140	No	8	0	No	0.01	Param.
1,1-Dichloroethane (ug/L)	DG-1305	7.261	0.5029	140	No	8	0	No	0.01	Param.
1,1-Dichloroethane (ug/L)	DG-1401R	2.793	0.913	140	No	8	0	No	0.01	Param.
1,2-Dichloropropane (ug/L)	DG-1205	1.183	0.7607	5	No	8	0	No	0.01	Param.
1,2-Dichloropropane (ug/L)	DG-1301	1.037	0.5466	5	No	8	12.5	No	0.01	Param.
1,2-Dichloropropane (ug/L)	DG-1305	1.07	0.327	5	No	8	50	No	0.004	NP (normality)
1,4-Dichlorobenzene (ug/L)	DG-1305	1.18	0.3004	75	No	8	37.5	No	0.01	Param.
Acetone (ug/L)	DG-901	290	5	6300	No	8	87.5	No	0.004	NP (NDs)
Arsenic (mg/L)	DG-901	0.01208	0	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	DG-1005	0.00506	0.00104	0.01	No	8	0	No	0.004	NP (normality)
Arsenic (mg/L)	DG-1101	0.00308	0.000617	0.01	No	8	12.5	No	0.004	NP (normality)
Arsenic (mg/L)	DG-1205	0.003311	0.001956	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	DG-1305	0.00293	0.0004844	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	**DGP-1500**	**0.02371**	**0.01059**	**0.01**	**Yes**	**8**	**0**	**No**	**0.01**	**Param.**
Barium (mg/L)	DG-901	0.0713	0.0135	2	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	DG-905	0.05058	0.03285	2	No	8	0	No	0.01	Param.
Barium (mg/L)	DG-1005	0.07439	0.0387	2	No	8	0	No	0.01	Param.
Barium (mg/L)	DG-1101	0.05823	0.03212	2	No	8	0	No	0.01	Param.
Barium (mg/L)	DG-1201	0.02371	0.01823	2	No	8	0	No	0.01	Param.
Barium (mg/L)	DG-1205	0.01611	0.01104	2	No	8	0	No	0.01	Param.
Barium (mg/L)	DG-1301	0.04575	0.03493	2	No	8	0	No	0.01	Param.
Barium (mg/L)	DG-1305	0.1101	0.06441	2	No	8	0	No	0.01	Param.
Barium (mg/L)	DG-1401R	0.04814	0.03846	2	No	8	0	No	0.01	Param.
Barium (mg/L)	DGP-1500	0.05014	0.04081	2	No	8	0	No	0.01	Param.
Benzene (ug/L)	DG-901	1.19	0.25	5	No	8	87.5	No	0.004	NP (NDs)
Benzene (ug/L)	DGP-1500	1.124	0.4861	5	No	8	25	No	0.01	Param.
Bis[2-ethylhexyl]phthalate (ug/L)	DG-1301	124	4.715	6	No	8	62.5	No	0.004	NP (NDs)
Bis[2-ethylhexyl]phthalate (ug/L)	DGP-1500	13.5	5	6	No	8	62.5	No	0.004	NP (NDs)
Cadmium (mg/L)	DG-901	0.000301	0.00005	0.005	No	8	75	No	0.004	NP (NDs)
Cadmium (mg/L)	DG-1005	0.000327	0.00005	0.005	No	8	62.5	No	0.004	NP (NDs)
Cadmium (mg/L)	DG-1101	0.000125	0.00005	0.005	No	8	62.5	No	0.004	NP (NDs)
Cadmium (mg/L)	DG-1401R	0.000125	0.000085	0.005	No	8	75	No	0.004	NP (NDs)
Carbon disulfide (ug/L)	DGP-1500	4.03	0.5	700	No	8	62.5	No	0.004	NP (NDs)
Chlorobenzene (ug/L)	DG-1305	9.083	0	100	No	8	12.5	No	0.01	Param.
Chloromethane (ug/L)	DG-1205	3.63	1.5	3	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	DG-1005	0.013	0.00182	0.1	No	8	50	No	0.004	NP (normality)
Chromium (mg/L)	DG-1101	0.00528	0.00153	0.1	No	8	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	DG-1301	0.00529	0.0025	0.1	No	8	75	No	0.004	NP (NDs)
cis-1,2-Dichloroethene (ug/L)	DG-1301	34.25	8.711	70	No	8	0	No	0.01	Param.
cis-1,2-Dichloroethene (ug/L)	DG-1305	4.129	0	70	No	8	0	No	0.01	Param.
Cobalt (mg/L)	DG-901	0.00772	0.000265	0.0021	No	8	0	No	0.004	NP (normality)
Cobalt (mg/L)	DG-905	0.00158	0.000225	0.0021	No	8	0	No	0.004	NP (normality)
Cobalt (mg/L)	DG-1005	0.0048	0.000294	0.0021	No	8	0	No	0.004	NP (normality)
Cobalt (mg/L)	DG-1101	0.001804	0.0002148	0.0021	No	8	0	No	0.01	Param.
Cobalt (mg/L)	DG-1201	0.000627	0.0003123	0.0021	No	8	0	No	0.01	Param.
Cobalt (mg/L)	DG-1205	0.0005361	0.0002452	0.0021	No	8	12.5	No	0.01	Param.
Cobalt (mg/L)	DG-1301	0.0005936	0.0003049	0.0021	No	8	0	No	0.01	Param.
Cobalt (mg/L)	DG-1305	0.0004861	0.0002497	0.0021	No	8	25	No	0.01	Param.
Cobalt (mg/L)	DG-1401R	0.0007845	0.0001795	0.0021	No	8	12.5	No	0.01	Param.

Confidence Interval

Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR Printed 1/5/2026, 11:57 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Cobalt (mg/L)	DGP-1500	0.0006759	0.00008613	0.0021	No	8	50	No	0.01	Param.
Copper (mg/L)	DG-901	0.0146	0.0025	1.3	No	8	25	No	0.004	NP (normality)
Copper (mg/L)	DG-1005	0.008222	0.001245	1.3	No	8	37.5	No	0.01	Param.
Copper (mg/L)	DG-1101	0.00789	0.00205	1.3	No	8	37.5	No	0.004	NP (normality)
Copper (mg/L)	DG-1205	0.0109	0.00184	1.3	No	8	50	No	0.004	NP (normality)
Copper (mg/L)	DG-1301	0.007587	0.001183	1.3	No	8	12.5	No	0.01	Param.
Copper (mg/L)	DG-1401R	0.0398	0.0025	1.3	No	8	25	No	0.004	NP (normality)
Copper (mg/L)	DGP-1500	0.005012	0.002308	1.3	No	8	50	No	0.01	Param.
Dichlorodifluoromethane (ug/L)	DG-1205	6.001	4.146	1000	No	8	0	No	0.01	Param.
Lead (mg/L)	DG-901	0.00397	0.00025	0.015	No	8	12.5	No	0.004	NP (normality)
Lead (mg/L)	DG-905	0.00066	0.00025	0.015	No	8	62.5	No	0.004	NP (NDs)
Lead (mg/L)	DG-1005	0.003198	0.00004639	0.015	No	8	0	No	0.01	Param.
Lead (mg/L)	DG-1101	0.00812	0.000941	0.015	No	8	0	No	0.004	NP (normality)
Lead (mg/L)	DG-1201	0.001664	0.0004935	0.015	No	8	0	No	0.01	Param.
Lead (mg/L)	DG-1205	0.001058	0.0001679	0.015	No	8	12.5	No	0.01	Param.
Lead (mg/L)	DG-1301	0.0109	0.00025	0.015	No	8	12.5	No	0.004	NP (normality)
Lead (mg/L)	DG-1305	0.001913	0.000155	0.015	No	8	12.5	No	0.01	Param.
Lead (mg/L)	DG-1401R	0.001949	0.00002703	0.015	No	8	12.5	No	0.01	Param.
Lead (mg/L)	DGP-1500	0.00136	0.00025	0.015	No	8	50	No	0.004	NP (normality)
Nickel (mg/L)	DG-901	0.00814	0.00204	0.1	No	8	37.5	No	0.004	NP (normality)
Nickel (mg/L)	DG-1005	0.0102	0.0025	0.1	No	8	37.5	No	0.004	NP (normality)
Nickel (mg/L)	DG-1101	0.0107	0.00228	0.1	No	8	37.5	No	0.004	NP (normality)
Nickel (mg/L)	DG-1205	0.004396	0.002663	0.1	No	8	25	No	0.01	Param.
Nickel (mg/L)	DG-1301	0.008869	0.003271	0.1	No	8	25	No	0.01	Param.
Nickel (mg/L)	DG-1401R	0.0163	0.00216	0.1	No	8	37.5	No	0.004	NP (normality)
Selenium (mg/L)	DG-1005	0.00427	0.00183	0.05	No	8	62.5	No	0.004	NP (NDs)
Selenium (mg/L)	DGP-1500	0.0215	0.00154	0.05	No	8	37.5	No	0.004	NP (normality)
Silver (mg/L)	DG-901	0.00153	0.0005	0.1	No	8	87.5	No	0.004	NP (NDs)
Sulfide (mg/L)	DGP-1500	6.23	0.5	1	No	5	60	No	0.031	NP (NDs)
Tetrachloroethene (ug/L)	DG-1301	1.4	0.5451	5	No	8	0	No	0.01	Param.
Thallium (mg/L)	DG-901	0.00381	0.0005	0.0104	No	8	87.5	No	0.004	NP (NDs)
Toluene (ug/L)	DGP-1500	1.85	0.5	1000	No	8	75	No	0.004	NP (NDs)
trans-1,2-Dichloroethene (ug/L)	DG-1301	1.151	0.4722	100	No	8	12.5	No	0.01	Param.
Trichloroethene (ug/L)	DG-1301	8.731	3.527	5	No	8	0	No	0.01	Param.
Vanadium (mg/L)	DG-1005	0.037	0.00158	0.035	No	8	0	No	0.004	NP (normality)
Vanadium (mg/L)	DG-1101	0.008746	0.001154	0.035	No	8	0	No	0.01	Param.
Vanadium (mg/L)	DG-1205	0.005606	0.001512	0.035	No	8	12.5	No	0.01	Param.
Vanadium (mg/L)	DG-1401R	0.004357	0.00138	0.035	No	8	12.5	No	0.01	Param.
Vinyl chloride (ug/L)	DG-1301	1.119	0.3854	2	No	8	37.5	No	0.01	Param.
Vinyl chloride (ug/L)	DG-1305	2.13	0.206	2	No	8	62.5	No	0.004	NP (NDs)
Zinc (mg/L)	DG-901	0.0278	0.0092	2	No	8	62.5	No	0.004	NP (NDs)
Zinc (mg/L)	DG-1005	0.0385	0.01	2	No	8	50	No	0.004	NP (normality)
Zinc (mg/L)	DG-1101	0.0255	0.01	2	No	8	75	No	0.004	NP (NDs)
Zinc (mg/L)	DG-1401R	0.0489	0.00696	2	No	8	75	No	0.004	NP (NDs)

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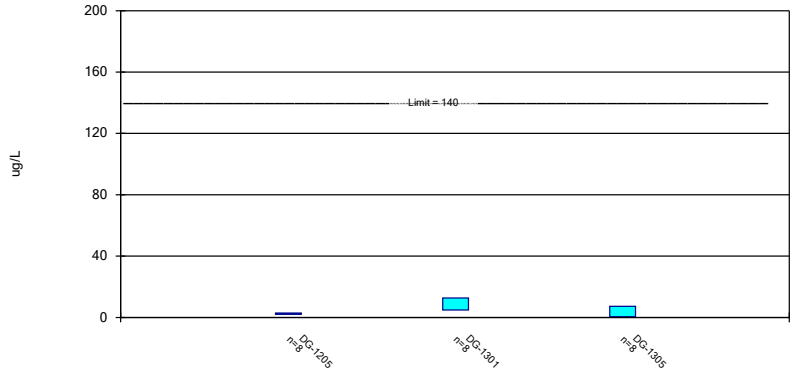
Parametric Confidence Interval

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



Constituent: 1,1-Dichloroethane Analysis Run 1/5/2026 11:52 AM View: 2025_AWQR-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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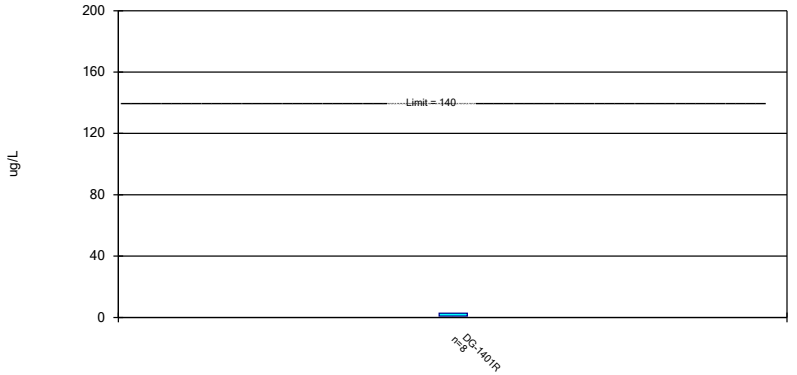
Parametric Confidence Interval

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



Constituent: 1,1-Dichloroethane Analysis Run 1/5/2026 11:52 AM View: 2025_AWQR-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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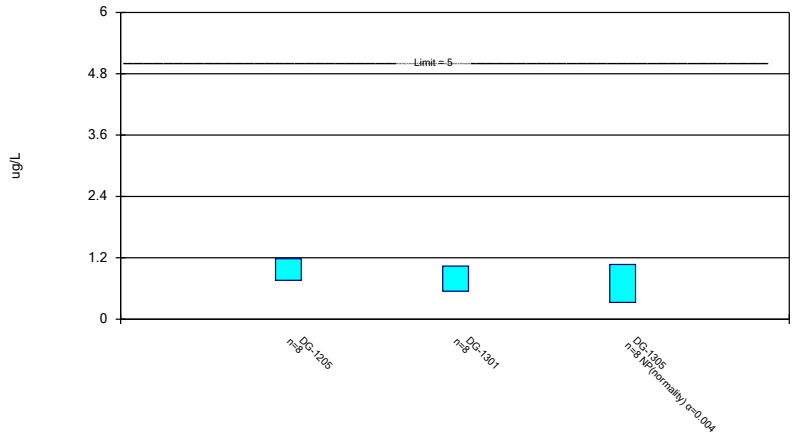
Parametric and Non-Parametric (NP) Confidence Interval

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



Constituent: 1,2-Dichloropropane Analysis Run 1/5/2026 11:52 AM View: 2025_AWQR-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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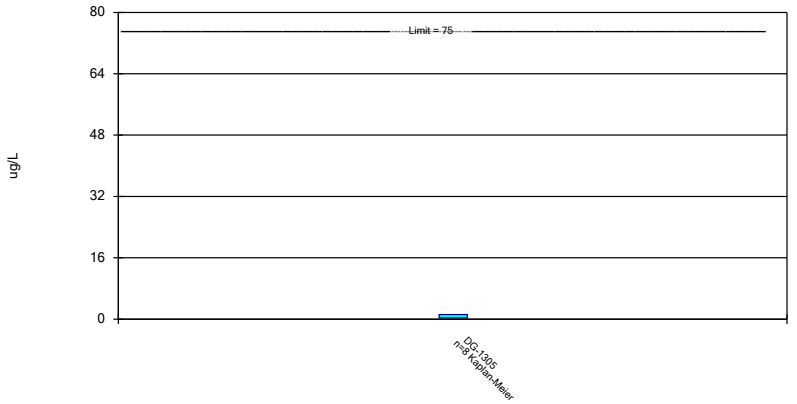
Parametric Confidence Interval

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



Constituent: 1,4-Dichlorobenzene Analysis Run 1/5/2026 11:52 AM View: 2025_AWQR-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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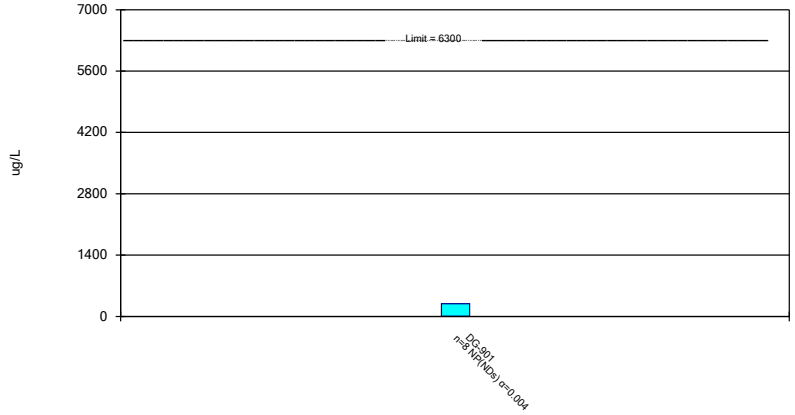
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Acetone Analysis Run 1/5/2026 11:52 AM View: 2025_AWQR-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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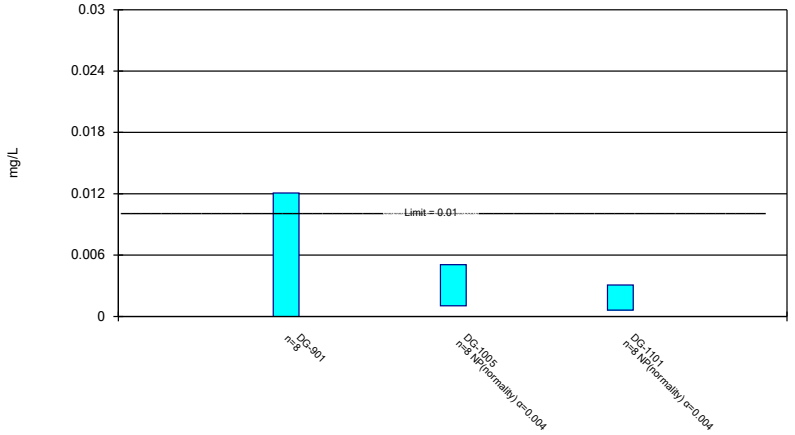
Parametric and Non-Parametric (NP) Confidence Interval

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



Constituent: Arsenic Analysis Run 1/5/2026 11:52 AM View: 2025_AWQR-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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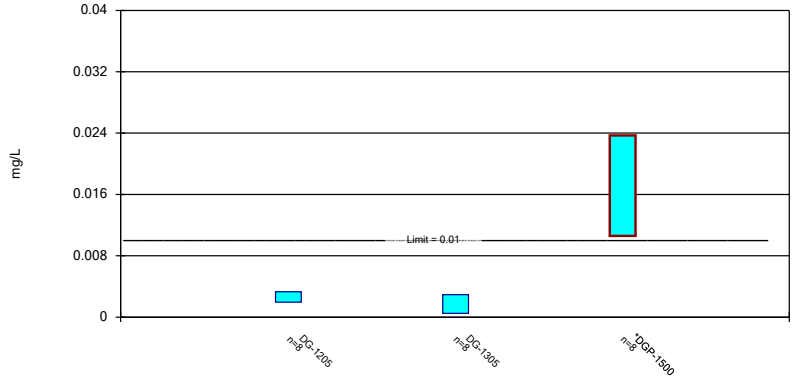
Parametric Confidence Interval

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



Constituent: Arsenic Analysis Run 1/5/2026 11:52 AM View: 2025_AWQR-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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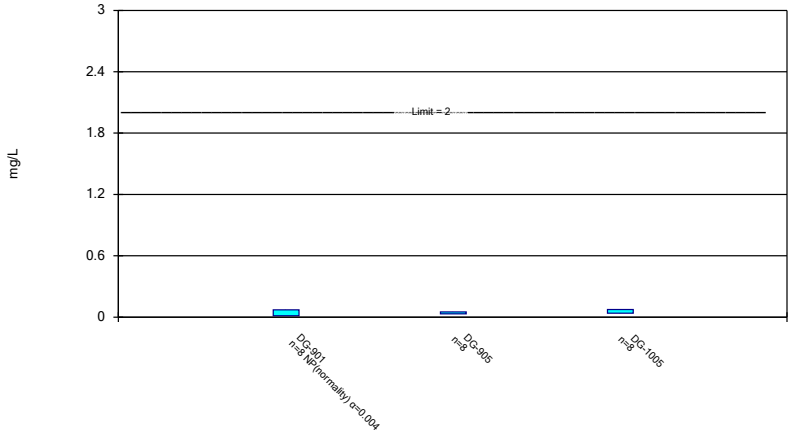
Parametric and Non-Parametric (NP) Confidence Interval

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



Constituent: Barium Analysis Run 1/5/2026 11:53 AM View: 2025_AWQR-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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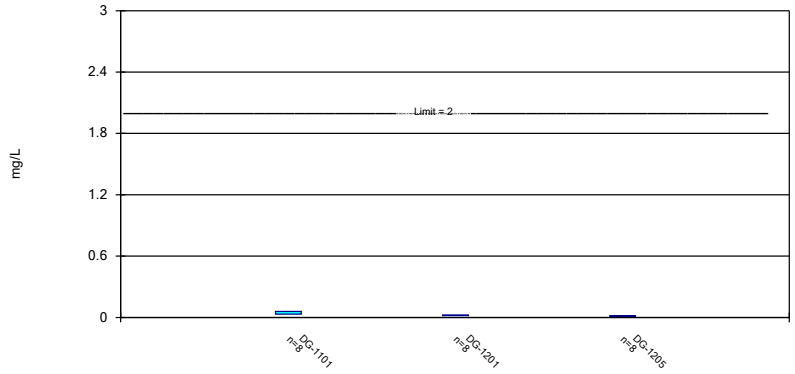
Parametric Confidence Interval

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



Constituent: Barium Analysis Run 1/5/2026 11:53 AM View: 2025_AWQR-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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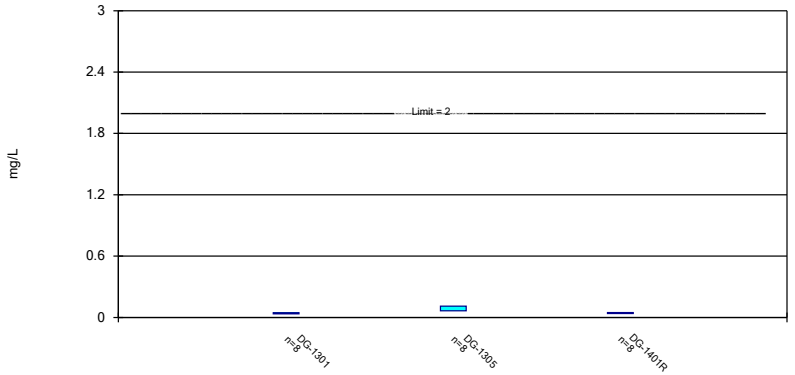
Parametric Confidence Interval

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



Constituent: Barium Analysis Run 1/5/2026 11:53 AM View: 2025_AWQR-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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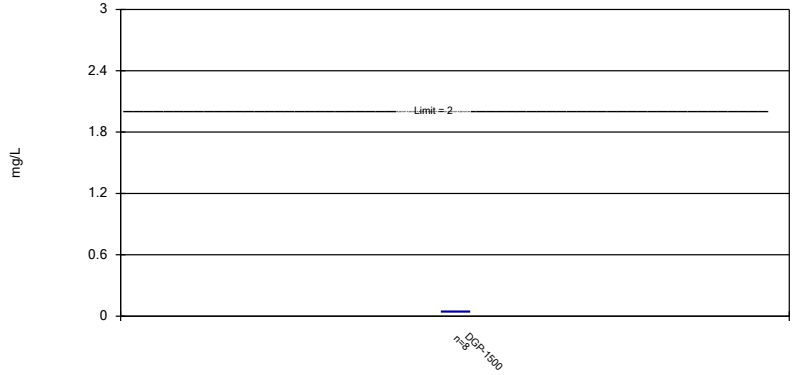
Parametric Confidence Interval

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



Constituent: Barium Analysis Run 1/5/2026 11:53 AM View: 2025_AWQR-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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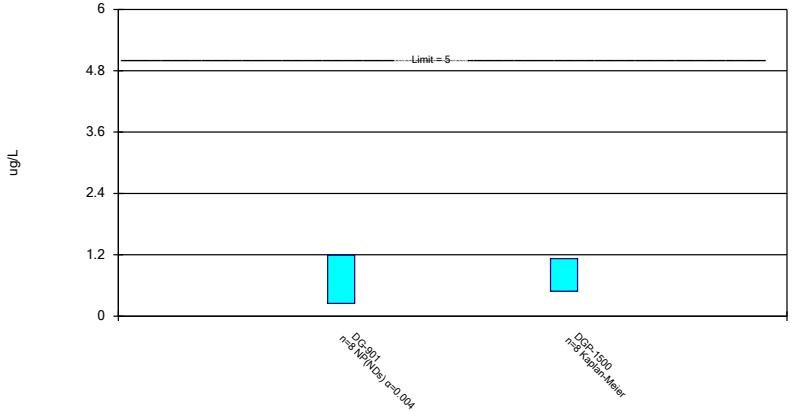
Parametric and Non-Parametric (NP) Confidence Interval

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



Constituent: Benzene Analysis Run 1/5/2026 11:53 AM View: 2025_AWQR-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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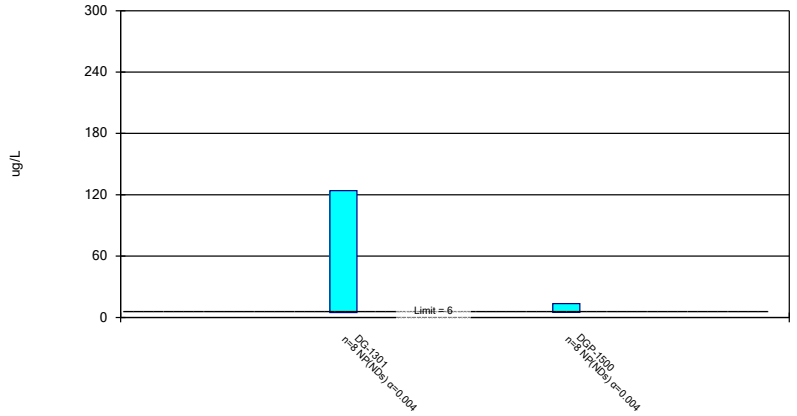
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 1/5/2026 11:53 AM View: 2025_AWQR-Mann_Kend
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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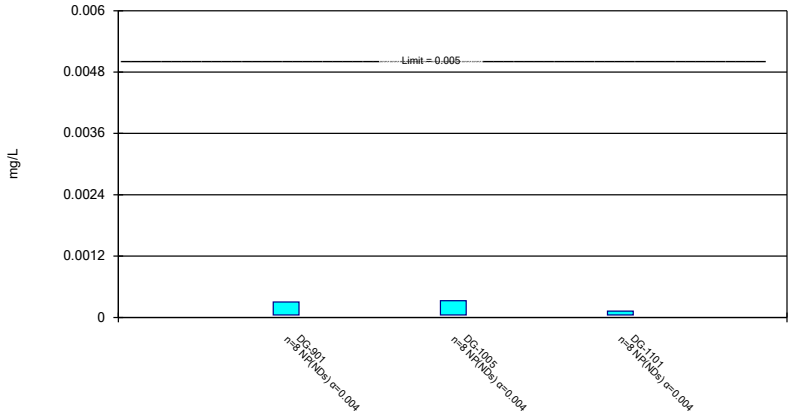
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 1/5/2026 11:53 AM View: 2025_AWQR-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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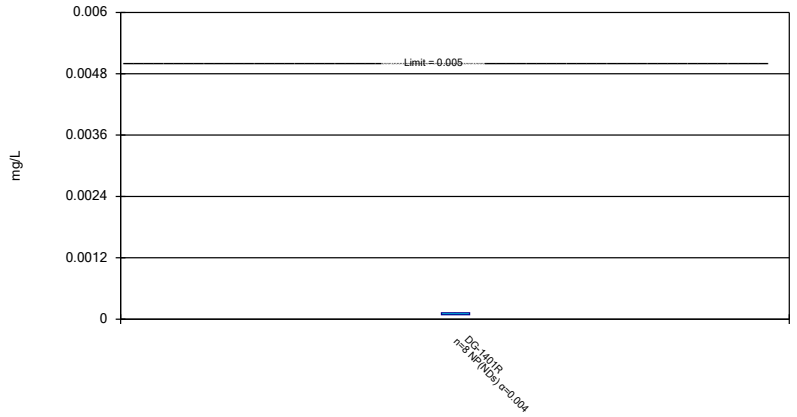
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 1/5/2026 11:53 AM View: 2025_AWQR-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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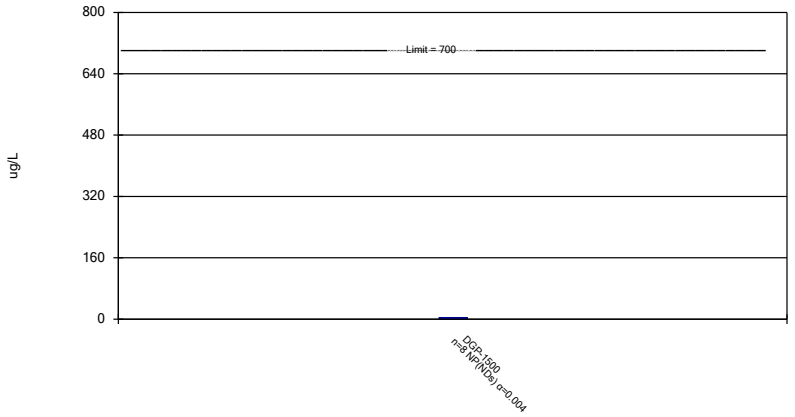
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Carbon disulfide Analysis Run 1/5/2026 11:53 AM View: 2025_AWQR-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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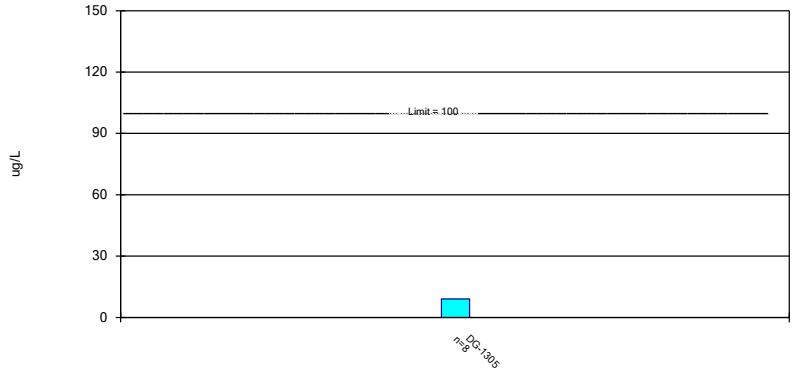
Parametric Confidence Interval

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



Constituent: Chlorobenzene Analysis Run 1/5/2026 11:53 AM View: 2025_AWQR-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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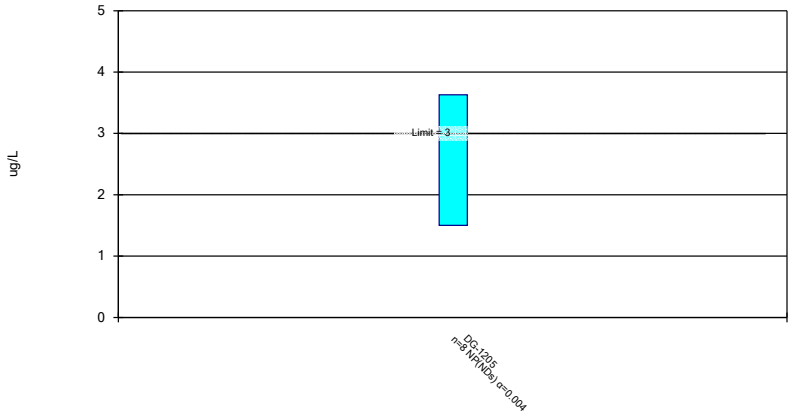
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Chloromethane Analysis Run 1/5/2026 11:53 AM View: 2025_AWQR-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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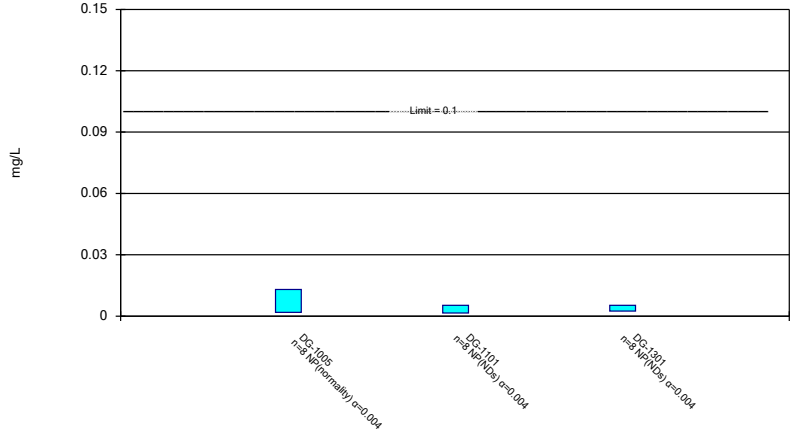
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 1/5/2026 11:53 AM View: 2025_AWQR-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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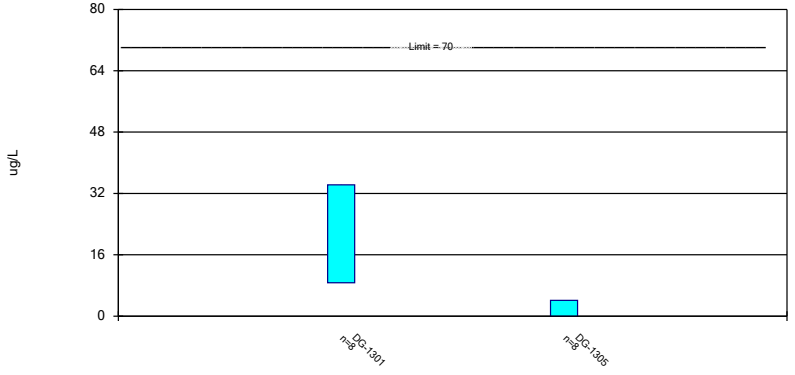
Parametric Confidence Interval

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



Constituent: cis-1,2-Dichloroethene Analysis Run 1/5/2026 11:53 AM View: 2025_AWQR-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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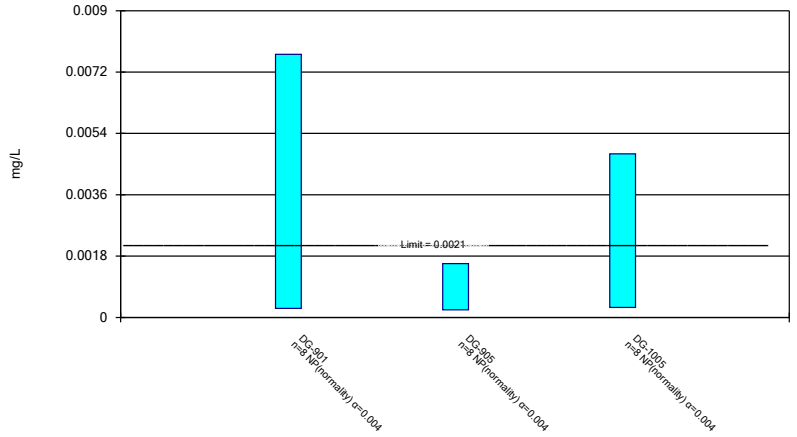
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

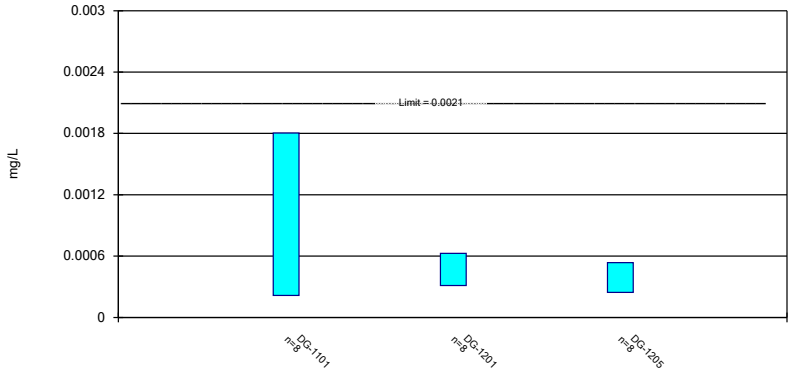


Constituent: Cobalt Analysis Run 1/5/2026 11:54 AM View: 2025_AWQR-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Parametric Confidence Interval

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

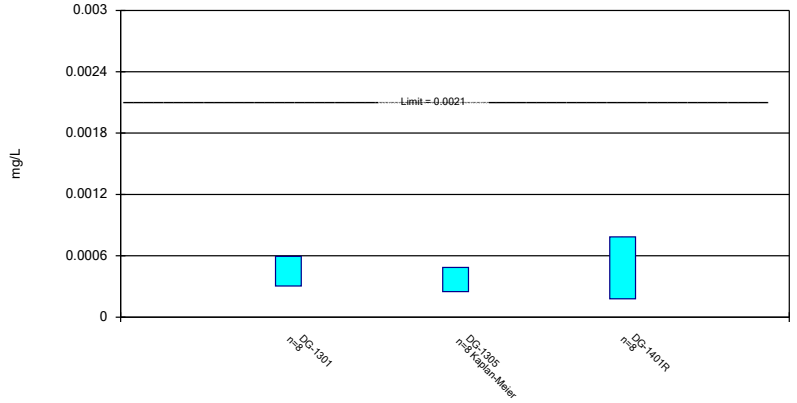


Constituent: Cobalt Analysis Run 1/5/2026 11:54 AM View: 2025_AWQR-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Parametric Confidence Interval

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

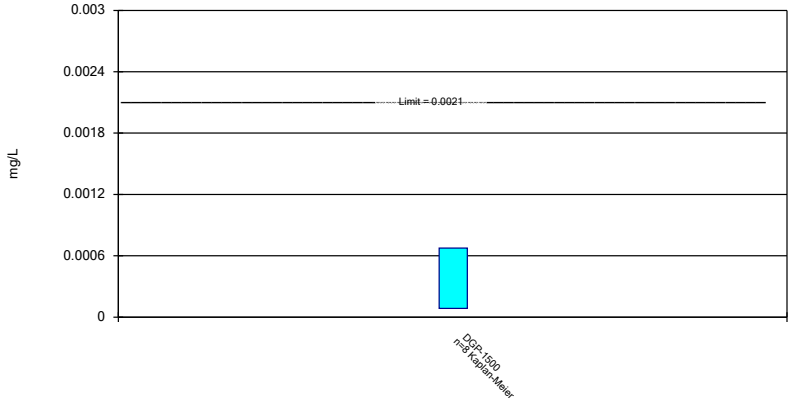


Constituent: Cobalt Analysis Run 1/5/2026 11:54 AM View: 2025_AWQR-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Parametric Confidence Interval

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

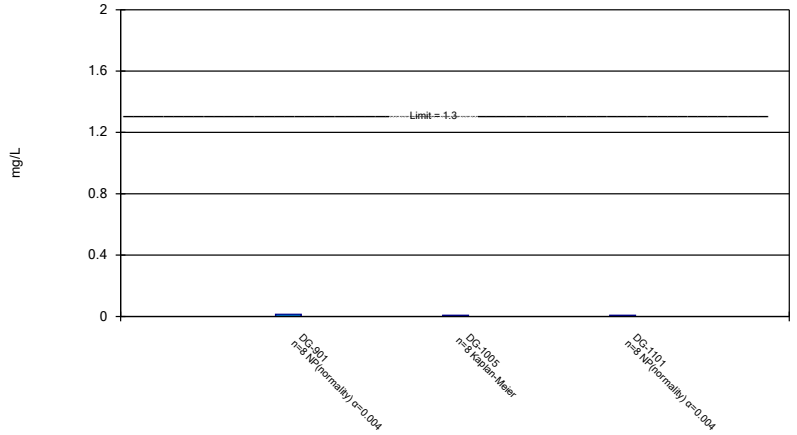


Constituent: Cobalt Analysis Run 1/5/2026 11:54 AM View: 2025_AWQR-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

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: Copper Analysis Run 1/5/2026 11:54 AM View: 2025_AWQR-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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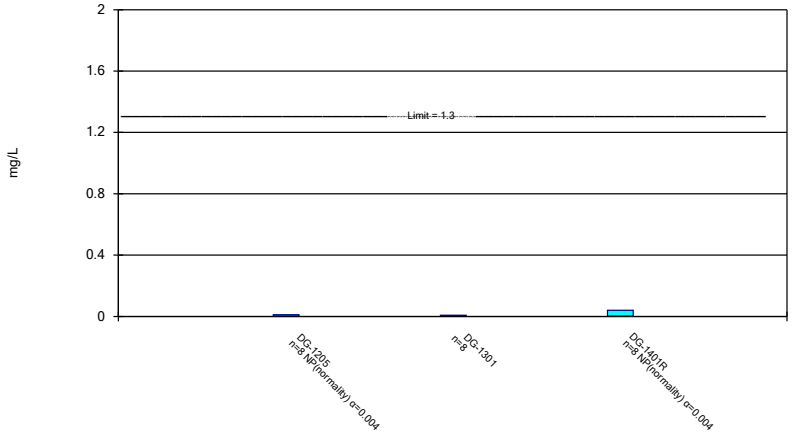
Parametric and Non-Parametric (NP) Confidence Interval

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

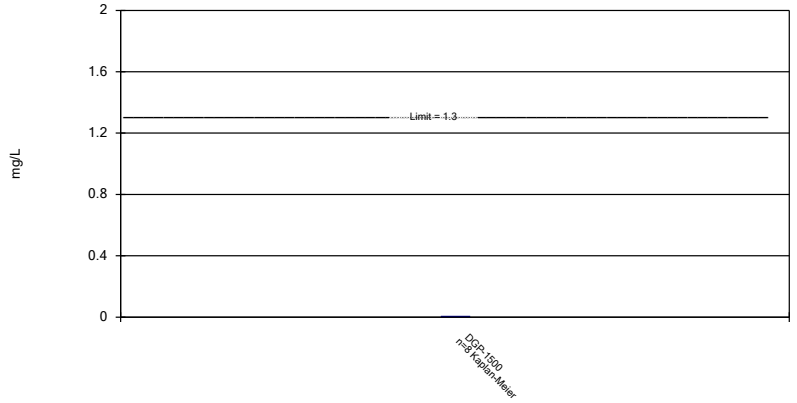


Constituent: Copper Analysis Run 1/5/2026 11:54 AM View: 2025_AWQR-Mann_Kendall
Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Parametric Confidence Interval

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



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Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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Parametric Confidence Interval

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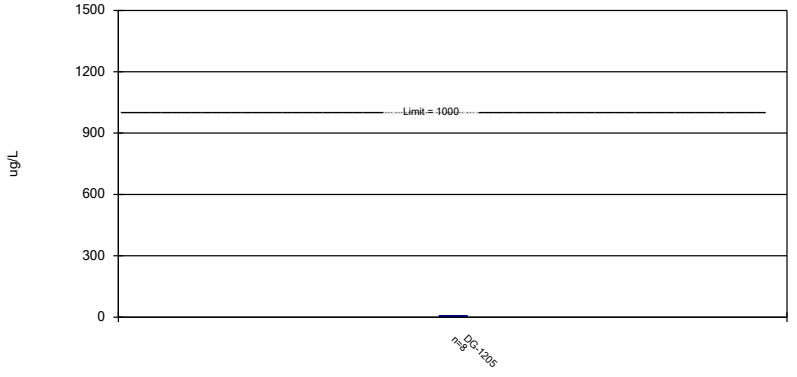

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Parametric and Non-Parametric (NP) Confidence Interval

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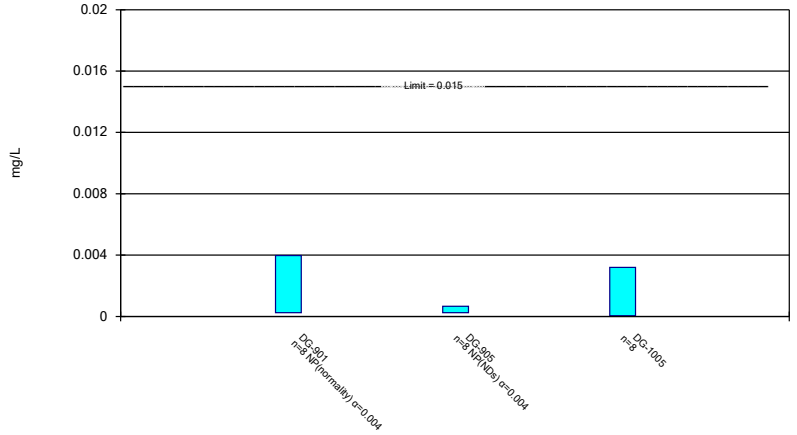

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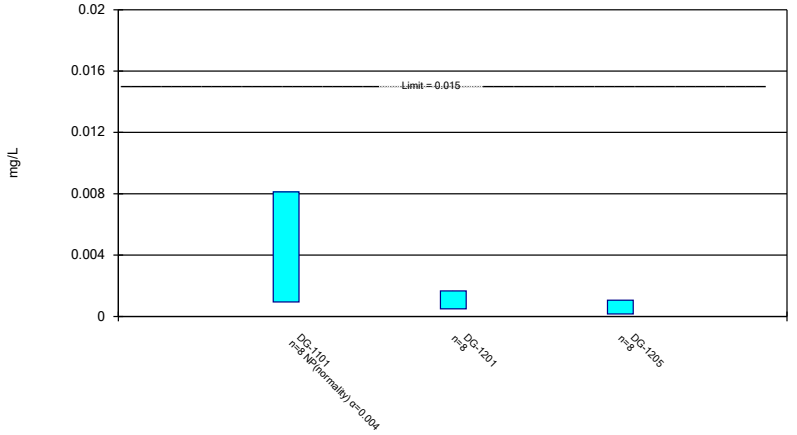

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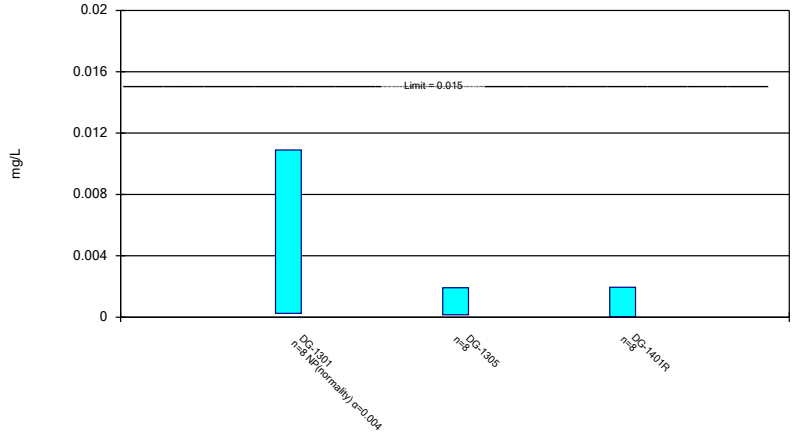

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Non-Parametric Confidence Interval

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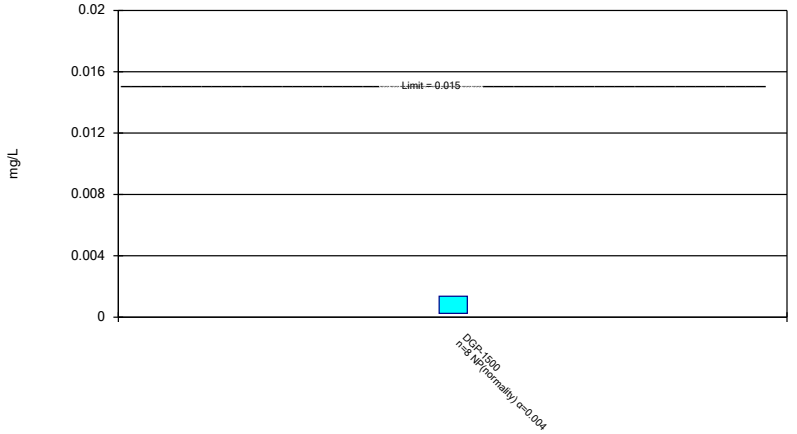

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Non-Parametric Confidence Interval

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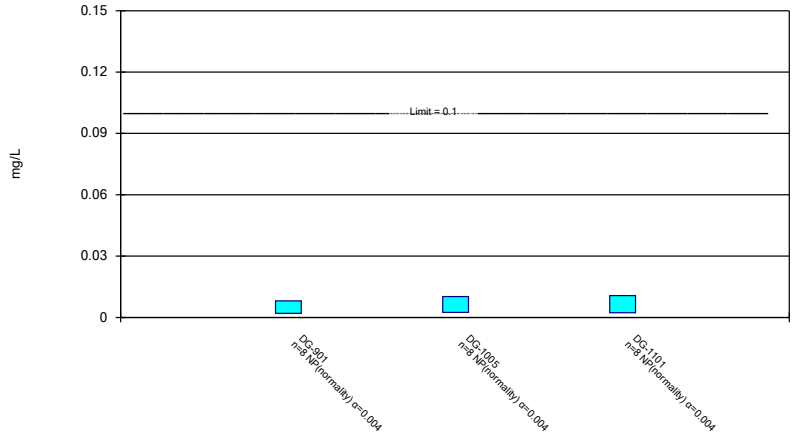

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Parametric and Non-Parametric (NP) Confidence Interval

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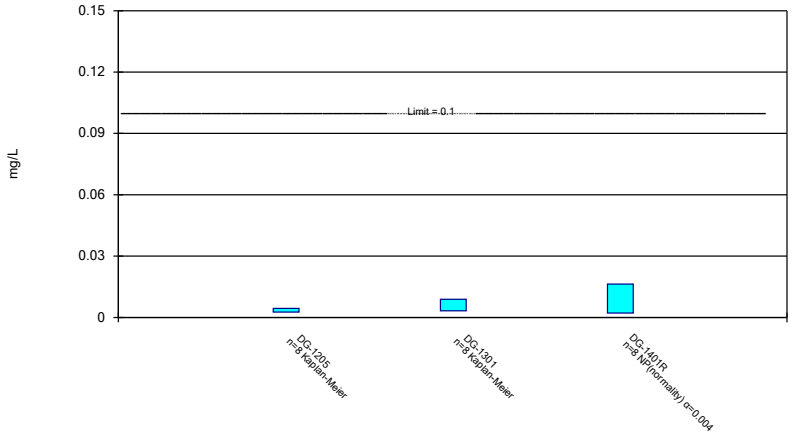

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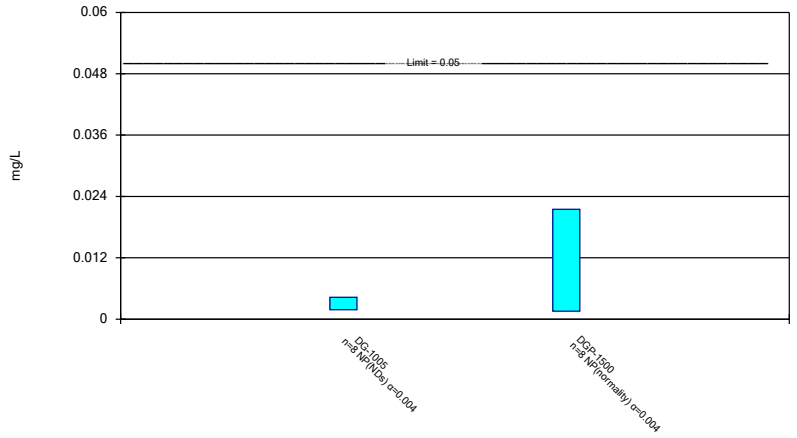

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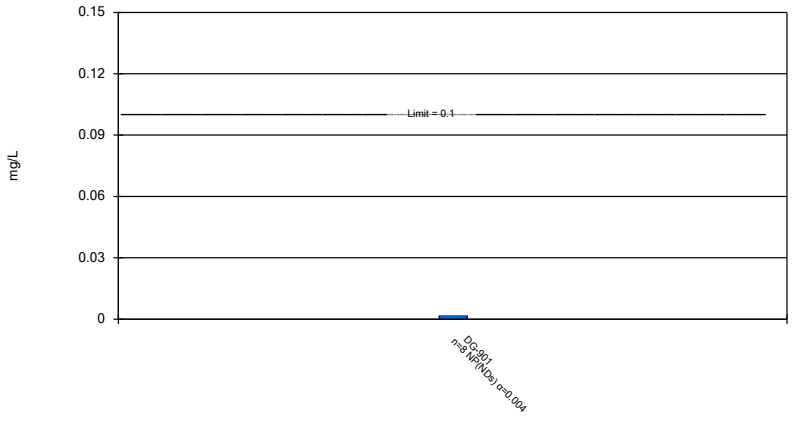

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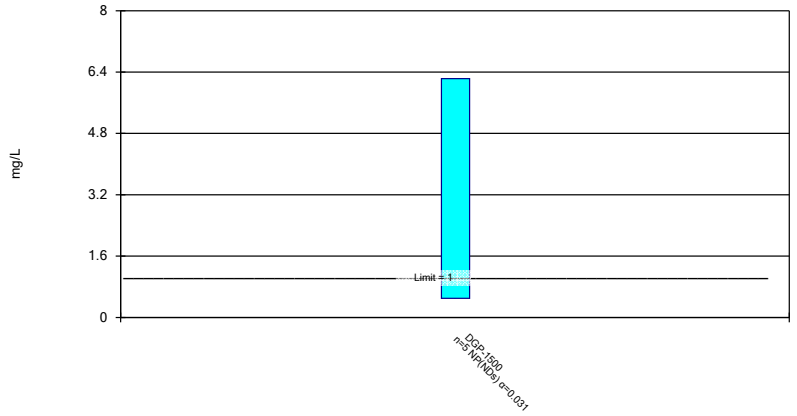

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Parametric Confidence Interval

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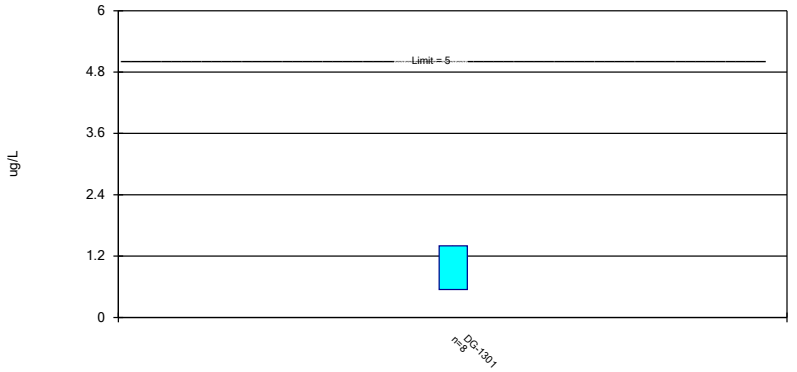

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Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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Non-Parametric Confidence Interval

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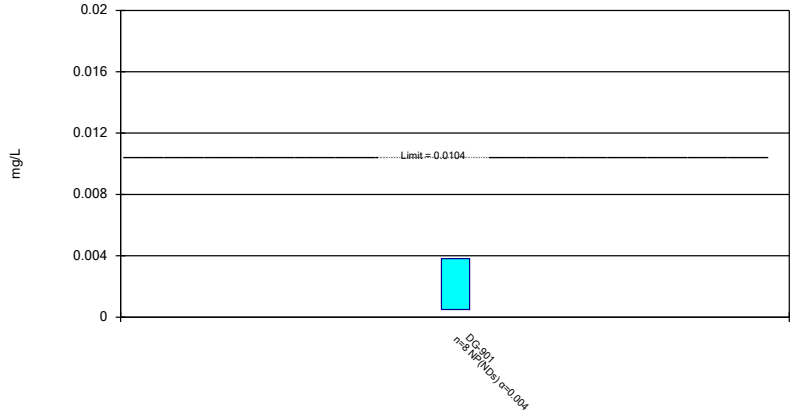

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Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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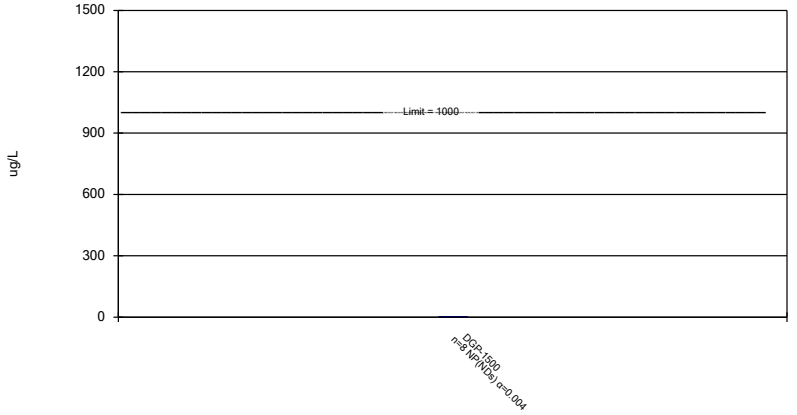

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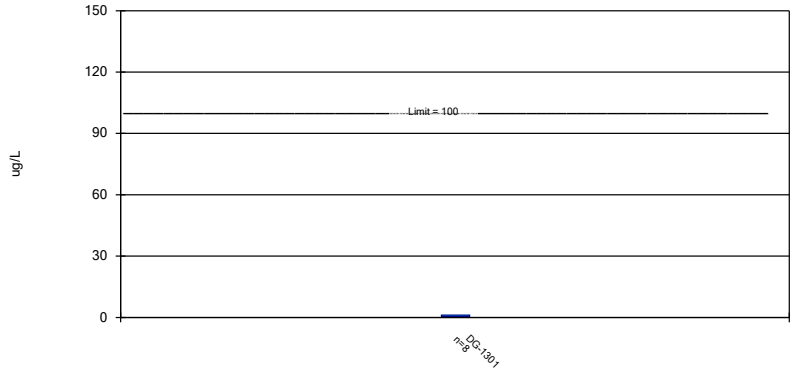

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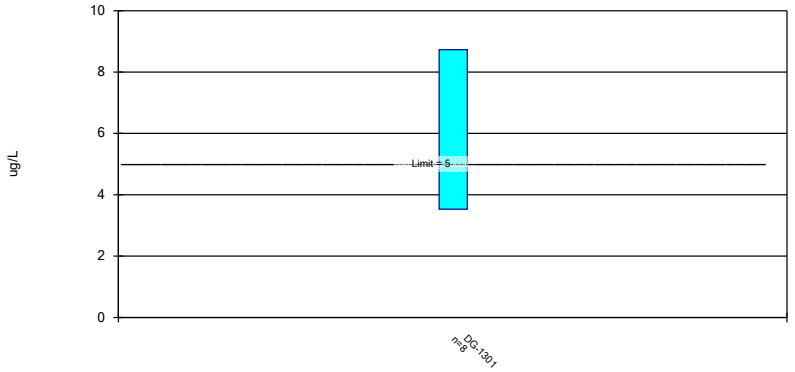

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Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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Parametric and Non-Parametric (NP) Confidence Interval

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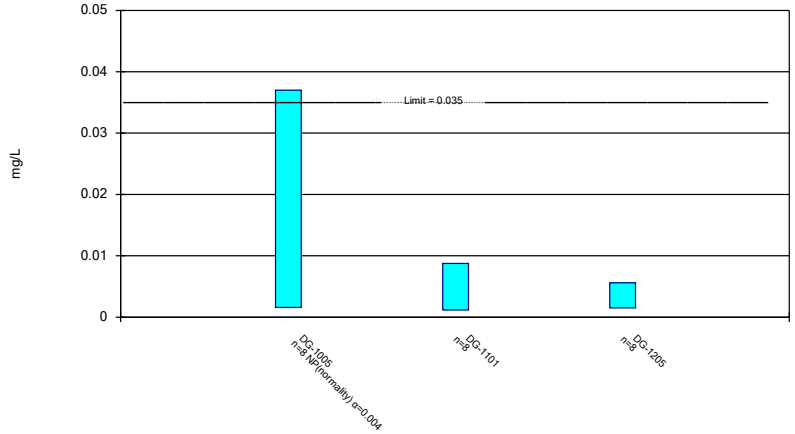

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Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

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Parametric Confidence Interval

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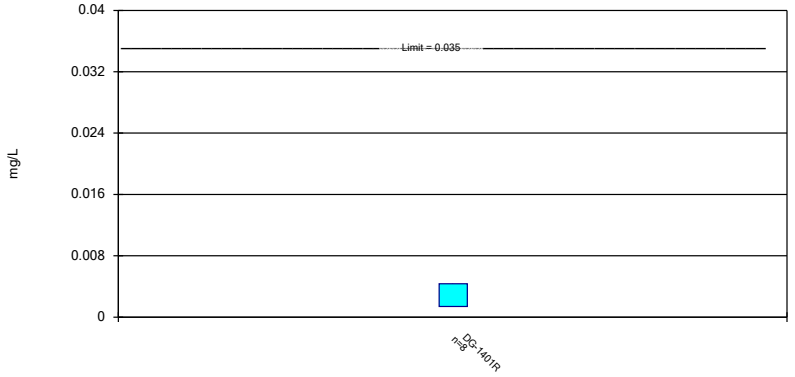

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Parametric and Non-Parametric (NP) Confidence Interval

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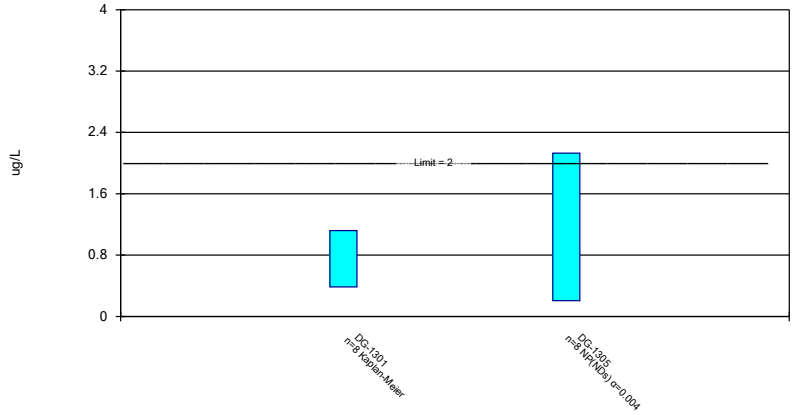

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Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

Non-Parametric Confidence Interval

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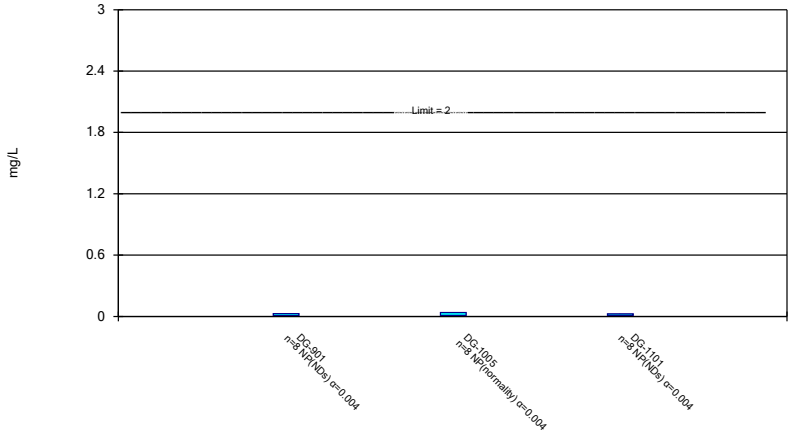

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Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Sanitas™ v.10.1.03a Software licensed to SCS Engineers. UG

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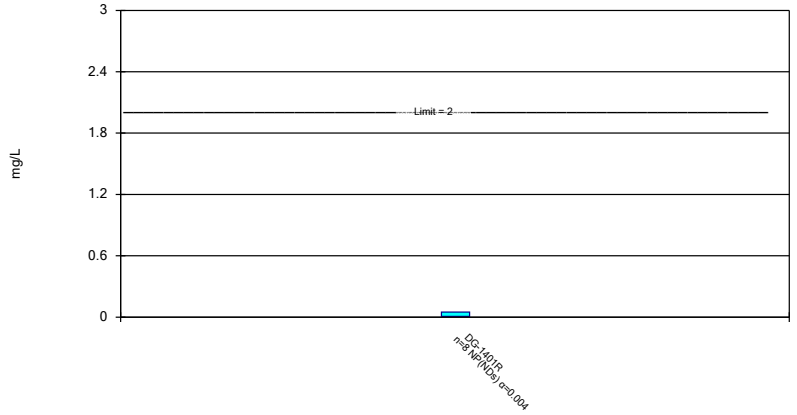

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Northwest Iowa Area SLF Client: SCS Engineers Data: NIASL_AM_2025_AWQR

Appendix E
2025 Leachate Control System Performance Evaluation Report

2025 Leachate Control System Performance Evaluation Report

Prepared for:
Northwest Iowa Area Sanitary Landfill
Sheldon, Iowa

SCS ENGINEERS

27225280.26 | February 2026

1690 All-State Court, Suite 100
West Des Moines, IA 50265
515-631-6160

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1.2 Location of Control System 1
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1.4 Approved Changes/Modifications to System 3
1.5 Proposed Changes to System 3

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Figure 1 Leachate Control System

Attachments

Attachment A Table 12 – Leachate Management Summary
Attachment B Historical Leachate Column Thickness Tables and Graphs

1.0 LEACHATE CONTROL SYSTEM

SCS Engineers (SCS), on behalf of the Northwest Iowa Area Solid Waste Agency (Agency), has prepared this Leachate Control System Performance Evaluation Report (LCSPER) for the Northwest Iowa Area Sanitary Landfill (Landfill). This LCSPER was prepared in general accordance with the requirements of Iowa Administrative Code (IAC) 567-113.7(5)"b"(14) and additional Iowa Department of Natural Resources (DNR) requirements specified in the Landfill's operating permit, most recently revised on September 19, 2025 (Doc #114097). This LCSPER describes the leachate control system, discusses maintenance activities, provides an evaluation of the effectiveness of the system, and, if necessary, provides recommendations for additional control measures. The reporting period for this LCSPER is January through December 2025.

1.1 REPORT PRIORITY

In conjunction with the construction of the final cover over the area monitored by leachate piezometers LP-9R through LP-14R, the Agency had 2" HDPE air supply and leachate discharge lines installed in 2022 to facilitate pumping from the piezometers. The leachate discharge lines for the piezometers are connected directly to their respective manholes to the east. In the spring of 2024, the air compressor and six pumps were connected. An apparent air leak developed in the pressure piping in 2024. Multiple attempts to diagnose the air leak in the pressure pipe were made in the spring and summer of 2025. However, the leak could not be located. Correspondence with the DNR on October 21, 2025 (Doc #114523) concluded that the pneumatic leachate pumps will be replaced with electric pumps to manage the leachate levels. The pump in the leachate lift station that discharges to the lagoon was replaced in November 2025.

1.2 LOCATION OF CONTROL SYSTEM

The Landfill property is depicted in **Figure 1**, Leachate Control System. The Landfill is located at 4540 360th Street, west of Highway 60, and approximately 4.5 miles south of Sheldon, Iowa. The Landfill property is situated in the SW ¼ of Section 14, T96N, R43W, in Sioux County, Iowa.

Leachate piezometers LP-1 through LP-6 were installed along the northern perimeter of Cells 2 through 8 and leachate piezometers LP-7 through LP-14 were installed along the eastern perimeter of Cells 1, 16, and 17. In September 2019, leachate piezometers LP-9, LP-10, LP-11, LP-12, LP-13, and LP-14 were abandoned and replaced with LP-9R, LP-10R, LP-11R, LP-12R, LP-13R, and LP-14R, respectively. Electronic leachate head monitoring devices LHMD-1 and LHMD-2 were installed in conjunction with the construction of the Cell 19 & 20 Expansion and Cell 21, respectively. LHMD-2 was capped during Cell 25 construction and was approved on June 11, 2025 (Doc #113235).

Leachate piezometers C-2, C-5, and C-7 are located in Cells 2, 5, and 7, respectively. A series of interconnected manholes were constructed along the eastern boundaries of Cells 16 and 17 to allow for leachate collection. A leachate lagoon is located in the southeast corner of the site for leachate storage. A wet well lift station was constructed in 2012 to pump leachate from the collection system to the lagoon and was replaced in November 2025.

Cells 1-8 are unlined, Cells 9-14 are clay-lined without a leachate collection system, and Cells 15-18 are Subtitle D-compliant clay-only alternatively lined with a leachate drainage layer. Cells 19, 20, 21, 22, and 25 along with an abutment over Cells 11, 12, 13, and 14, have a prescriptive composite Subtitle D-compliant liner.

The current IAC does not define the leachate level required in unlined areas. However, it is likely the unlined areas would have requirements similar to 2002 IAC 567-113.26(12)"b"(2), which states that the leachate system must be designed to "achieve the lowest possible leachate head above the landfill liner" as they are not over a Subtitle D-compliant liner and do not have a leachate drainage layer. The lined areas with a leachate drainage layer are required to maintain less than 12 inches of head over the liner.

1.3 EFFECTIVENESS OF THE LEACHATE SYSTEM

Table 12 in **Attachment A** provides monthly leachate column thicknesses for the Landfill. **Attachment B** included a table and graphs of the leachate measurements for the period of record. A general discussion of the leachate column thickness measurements in the leachate monitoring points is included below.

- The leachate thickness in leachate piezometer C-2 remained generally stable, with leachate thicknesses from 0.79 feet to 1.15 feet during this reporting period.
- The leachate thickness in leachate piezometer C-5 was stable at approximately six feet throughout this reporting period.
- The leachate thickness in leachate piezometer C-7 remained generally stable, with leachate thicknesses from 0.79 feet to 1.11 feet during this reporting period.
- The leachate thickness in leachate piezometer LP-1 was within the historical thicknesses, with thicknesses from 3.39 feet to 6.98 feet during this reporting period.
- The leachate thickness in leachate piezometer LP-2 was within the historical thicknesses, with thicknesses from 2.43 feet to 4.28 feet during this reporting period.
- Leachate thicknesses in leachate piezometer LP-3 continued a pattern that began in 2020, which is short-lived thickness increases during part of the reporting period with stable measurements of about 0.5 feet during the rest of the reporting period.
- The leachate thickness in leachate piezometer LP-4 remained within the range of historical thickness measurements, generally between 1 and 2 feet during this reporting period. However, the July 2025 measurement matched the historical maximum of 2.5 feet.
- The leachate thickness in leachate piezometer LP-5 was slightly decreasing and below 0.5 feet throughout this reporting period.
- The leachate thickness in leachate piezometer LP-6 was generally stable, with leachate thicknesses from 1.05 feet to 1.54 feet during this reporting period.
- The leachate thickness in leachate piezometer LP-7 was within the historical thickness, with thicknesses from dry to 5.76 feet during this reporting period.
- The leachate thickness in leachate piezometer LP-8 continued a pattern that began in 2020, which generally increased through August 2025 and then decreased to approximately 1.2 feet by the end of this reporting period.

As stated above, replacement leachate piezometers LP-9R, LP-10R, LP-11R, LP-12R, LP-13R, and LP-14R were installed in September 2019 and extended in August 2022 in conjunction with the installation of final cover over this area. Extraction pumps were connected to the leachate discharge lines in spring 2024. Since the compressor and pumps were installed, an apparent air leak in the pressure piping developed. Attempts to diagnose the apparent leak were made in the spring and summer of 2025; however, the apparent leak could not be located. The pneumatic leachate pumps will be replaced with electric pumps in 2026.

- The leachate thickness in replacement well LP-9R was below 1.5 feet during this reporting period
- The leachate thicknesses in replacement well LP-10R started the reporting period at about 2.62 feet, with an increase to 4.53 feet in August 2025, followed by a decrease to 2.33 feet by the end of this reporting period.
- The leachate thicknesses in replacement well LP-11R rose from approximately 2.02 feet at the beginning of the reporting period to a new maximum of 5.19 feet in July 2025 before decreasing to below 2.5 feet at the end of this reporting period.
- The leachate thickness in replacement well LP-12R began the reporting period at 2.49 feet and increased to 6.25 feet in March 2025 before decreasing to about 2.5 feet by the end of this reporting period.
- The leachate thickness in replacement well LP-13R began the reporting period at 4.93 feet and increased to 10.84 feet in September 2025 before decreasing to about 6 feet by the end of this reporting period.
- The leachate thicknesses in replacement well LP-14R ranged from approximately 0.49 feet to 10.05 feet during this reporting period. However, the measurement of 0.49 feet in November 2025 appears to be erroneous.
- The leachate thickness at leachate head monitoring point LHMD-1 remained below the compliance level throughout the reporting period.

1.4 APPROVED CHANGES/MODIFICATIONS TO SYSTEM

In conjunction with the construction of the final cover over the area monitored by piezometers LP-9R through LP-14R, the Agency had 2" HDPE air supply and leachate discharge lines installed to facilitate pumping from the six replacement piezometers LP-9R, LP-10R, LP-11R, LP-12R, LP-13R, and LP-14R. The leachate discharge lines for the piezometers are connected directly to their respective manholes to the east. In the spring of 2024, the air compressor and six pumps were connected. An apparent air leak developed in the pressure piping in 2024. Multiple attempts to diagnose the air leak in the pressure pipe were made in the spring and summer of 2025. However, the leak could not be located. Correspondence with the DNR on October 21, 2025 (Doc #114523) concluded that the pneumatic leachate pumps will be replaced with electric pumps to manage the leachate levels.

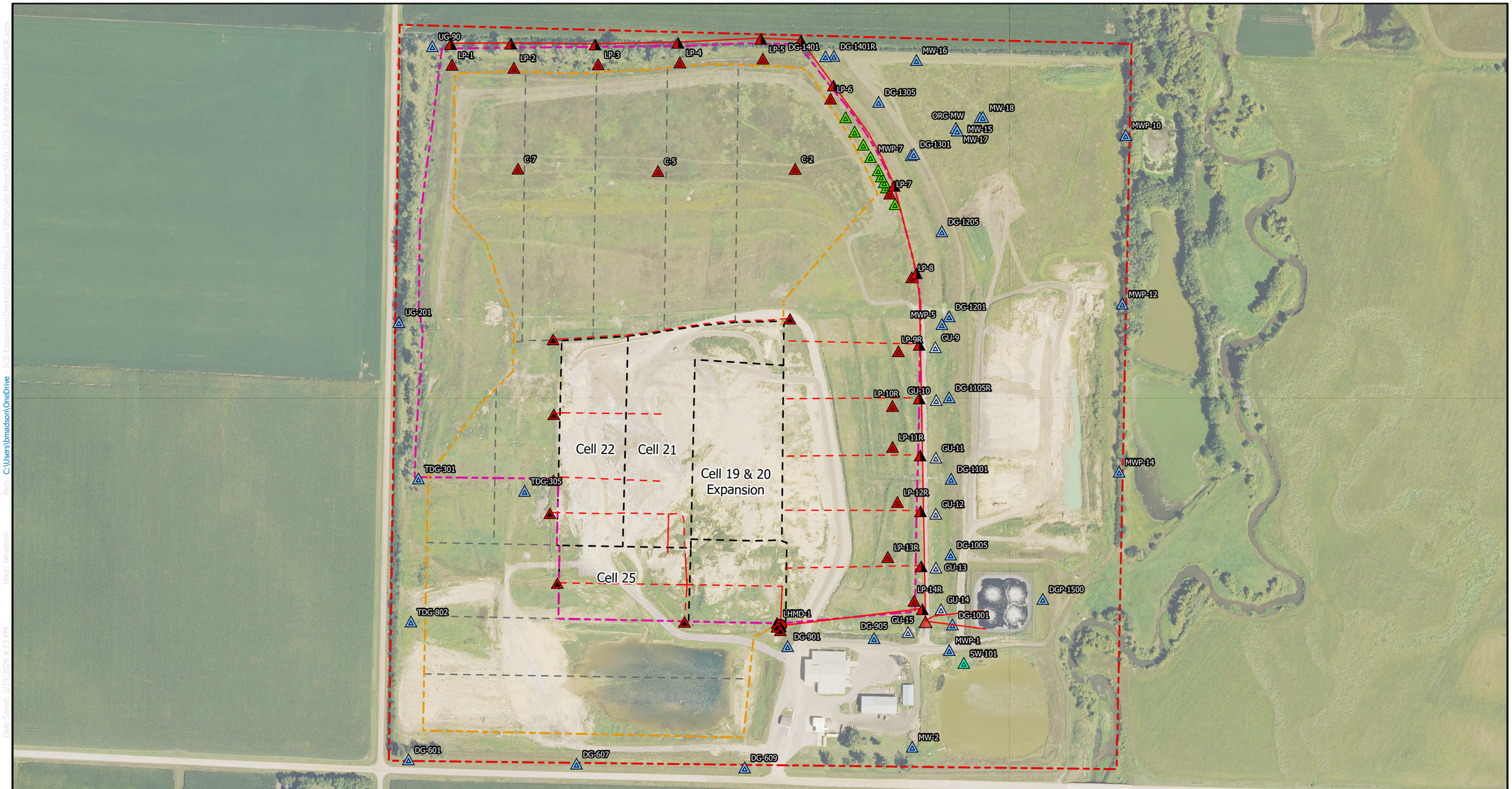
Leachate collection lines were extended, new cleanouts installed, and LHMD-2 was capped during Cell 25 construction and approved on June 11, 2025 (Doc #113235).

1.5 PROPOSED CHANGES TO SYSTEM

SCS recommends continuing to perform the following items to maintain the effectiveness of the leachate control system:

- Replace the pneumatic pumps with electric pumps and resume pumping as needed based on leachate accumulation.
- Continue monthly monitoring of the leachate levels as required in the facility permit. Contact SCS with the monthly results so compliance concerns are promptly identified and addressed.
- Maintain good vegetation over the final cover and intermediate cover over the inactive areas.

- Continue operation and maintenance of the leachate control system in accordance with the approved Leachate Control System Plan.
- The top of casing of the extended leachate piezometers LP-9R through LP-14R should be reviewed for accuracy during the next reporting period. This will likely occur in conjunction with replacing the pumps in 2026.
- Continue recording the volume of leachate disposed of at the City of Orange City and other approved publicly-owned treatment works. 1,116,753 gallons of leachate were hauled for disposal during this reporting period.
- Continue cleaning the leachate collection system once every three years or more frequently if leachate head or the volume of leachate collected indicates cleaning is necessary. The leachate control system was cleaned in November 2023 and will be cleaned next in 2026.



Leachate Control System

Legend

- Leachate valve
- Leachate Manhole
- Leachate Lift Station
- Leachate Cleanout
- Leachate Piezometers
- Leachate Pipe - Solid
- Leachate Pipe - Perforated
- Monitoring Well
- Groundwater Underdrain
- Surface Water Monitoring Point
- Gas Vent
- Approximate Future Waste/ Expansion Boundary
- Approximate Waste Boundary
- Approximate Location of Existing Cell Boundary
- Approximate Location of Future Cell Boundary
- Approximate Property Boundary

Northwest Iowa Area Sanitary Landfill
Sheldon, Iowa
Project No: 27225280.26
Drawing Date: February 2026

N W E S

0 265 530 1,060 Feet

Figure 1

SCS ENGINEERS
environmental consultants and contractors

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri, CGIAR, USGS, USDA NAIP, Iowa State University GIS Facility

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Attachment A

Table 12 – Leachate Management Summary

Table 12
Leachate Management Summary
2025 Leachate Control System Performance Evaluation Report
Northwest Iowa Area Sanitary Landfill
Permit No. 84-SDP-01-74P

	Unlined Cells - Column Thickness (ft)											Lined Cells - Column Thickness (ft)								Hauled to	Precipitation
Month	**C-2**	**C-5**	**C-7**	**LP-1**	**LP-2**	**LP-3**	**LP-4**	**LP-5**	**LP-6**	**LP-7**	**LP-8**	**LP-9R**	**LP-10R**	**LP-11R**	**LP-12R**	**LP-13R**	**LP-14R**	**LHMD-1**	**LHMD-2**	**POTW (gal)**	**(in)**
January 2025	1.05	5.92	0.89	3.86	3.17	0.38	0.96	0.21	1.21	0.20	1.28	1.09	2.62	2.02	2.49	4.93	9.90	<0.1	0.13		0.00
February 2025	1.09	5.92	0.88	3.39	2.43	0.48	0.42	0.18	1.05	Dry	0.81	1.21	2.57	1.73	2.74	7.71	9.38	<0.1	0.13		0.01
March 2025	1.09	5.92	1.11	4.16	2.61	0.35	0.75	0.14	1.41	2.07	1.85	1.32	3.02	1.85	6.25	7.71	9.46	<0.1	0.17		1.91
April 2025	1.10	5.92	1.05	4.89	2.84	3.27	1.14	0.23	1.40	2.37	2.22	0.92	3.14	4.03	2.90	6.33	9.01	0.05	Capped		1.47
May 2025	1.07	5.92	1.02	4.62	3.14	2.24	1.08	0.20	1.24	1.43	1.66	1.15	2.45	2.65	2.72	6.47	8.92	0.08	Capped		1.19
June 2025	1.05	5.92	0.83	5.28	3.32	0.49	1.17	0.26	1.35	1.15	1.41	0.93	3.15	2.38	2.77	6.81	9.13	0.24	Capped	1,116,753	3.97
July 2025	1.15	5.92	0.81	6.91	3.65	6.18	2.50	0.38	1.54	5.76	1.59	0.95	3.75	5.19	2.59	8.07	9.77	0.28	Capped		5.09
August 2025	1.05	5.92	0.79	6.98	4.28	5.06	1.40	0.27	1.45	2.23	2.45	1.15	4.53	3.39	2.58	6.82	9.91	0.10	Capped		4.58
September 2025	1.05	5.92	0.98	5.92	4.24	0.44	1.29	0.28	1.45	1.43	2.05	1.02	2.57	2.55	2.35	10.84	10.05	0.13	Capped		1.63
October 2025	1.02	5.92	0.87	4.50	3.83	0.48	1.08	0.28	1.35	1.14	1.64	1.19	2.36	2.38	2.35	6.59	9.72	0.34	Capped		1.15
November 2025	1.02	5.92	0.84	4.09	3.59	0.41	0.88	0.34	1.31	0.83	1.14	1.02	2.44	2.29	2.39	6.49	0.49	0.21	Capped		0.82
December 2025	0.79	5.92	0.81	4.16	3.33	0.44	0.80	0.14	1.33	0.74	1.15	1.16	2.33	2.45	2.51	5.75	9.61	0.22	Capped		0.19
																			Reporting Period Total Gallons	**1,116,753**	**22.01**

Measurements collected by Landfill staff.

Comments:

1. Reporting Period: January 2025 - December 2025.
2. Recommended Changes to Leachate Collection System: Replace pnuematic pumps with electric pumps in monitoring points LP-9R to LP-14R . Anticipated installation in spring 2026.
3. Maintenance Performed on Leachate Collection System: Lift Station pump was replaced in November 2025.
4. Last Date of Cleaning and Inspection: November 2023.
5. Date for Next Cleaning and Inspection: Leachate line cleaning and inspection will be performed next in 2026.
6. Volume of Leachate Recirculated: 0 gallons.
7. Volume of Leachate Treated On-Site: 0 gallons.
8. Volume of Leachate Treated Off-Site: 1,116,753 gallons of leachate were transported to the Orange City POTW during this reporting period.
9. Storage Capacity: The wet well capacity is 10,000 gallons, the storage capacity of the lagoon is approximately 1,622,000 gallons.
10. Precipitation data for February 2025 - December 2025 from https://mesonet.agron.iastate.edu/ASOS/reports/mon_prec.php?network=IA_ASOS&year=2025 for Sheldon, Iowa. January 2025 precipitation data was from Spencer, Iowa.
11. LHMD-2 was capped due to the construction of cell 25.

Attachment B

Historical Leachate Column Thickness Tables and Graphs

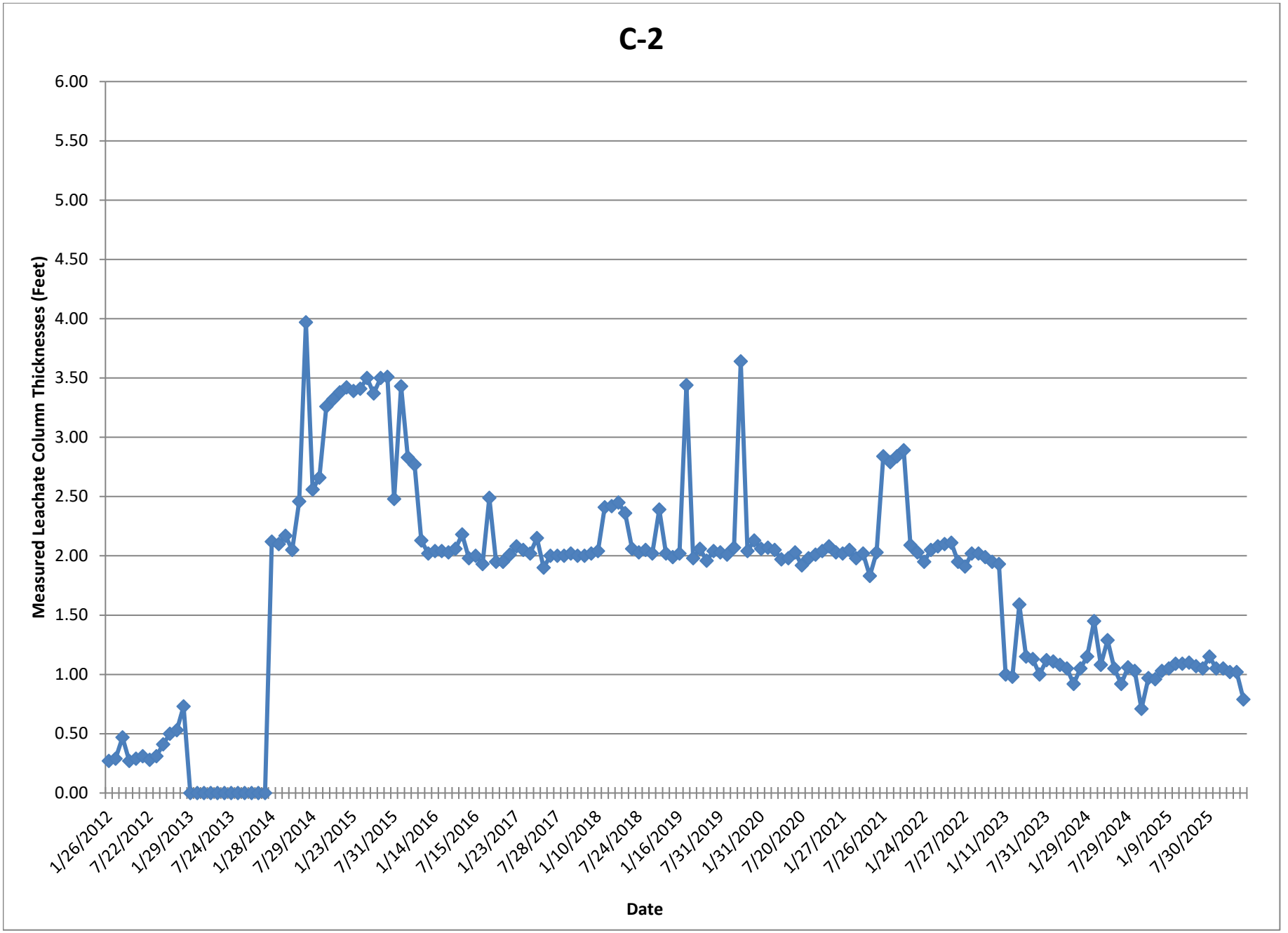
Attachment B
Table B-1
Historical Leachate Column Thicknesses
Northwest Iowa Area Sanitary Landfill

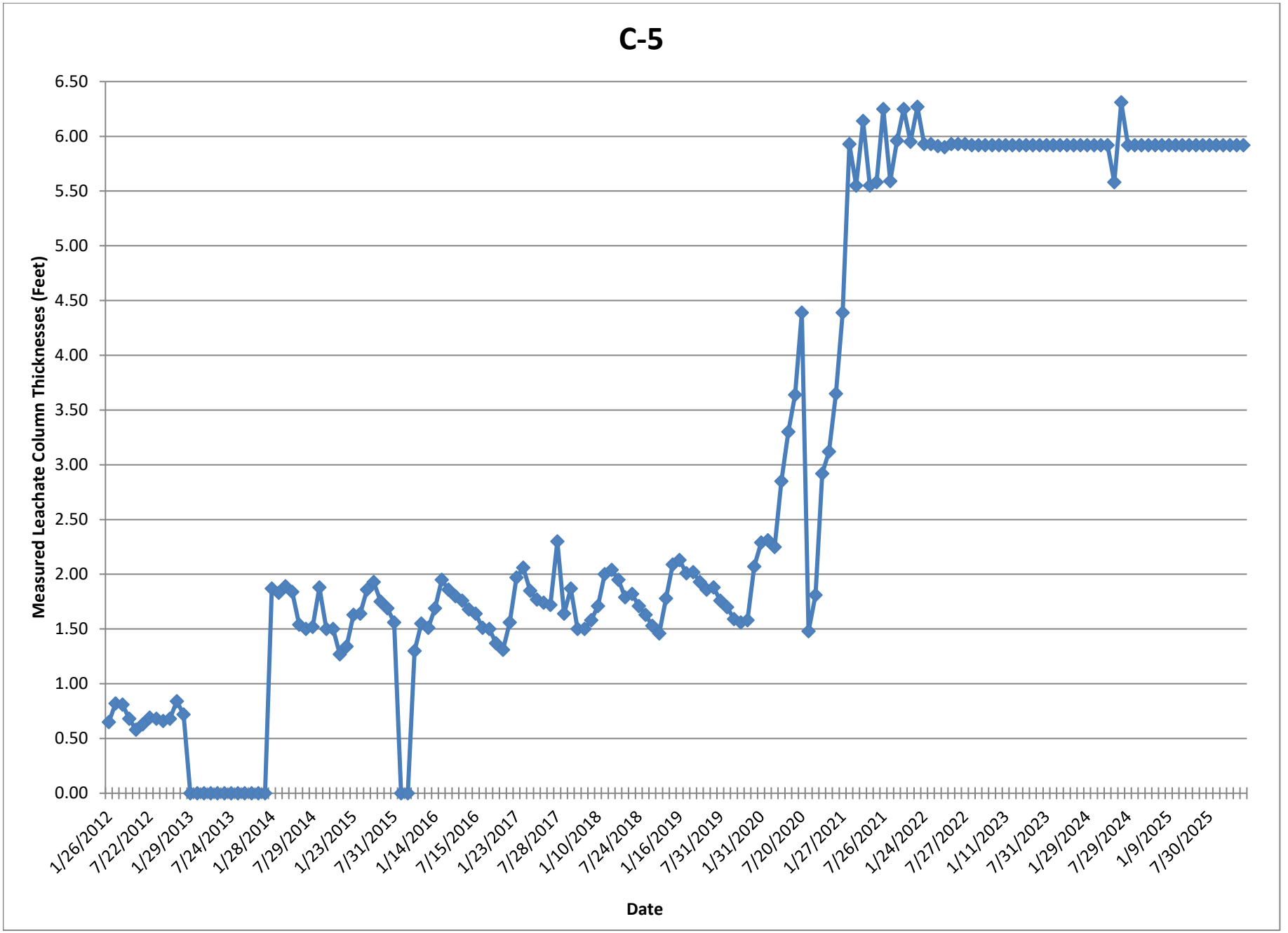
	C-2	C-5	C-7	LP-1	LP-2	LP-3	LP-4	LP-5	LP-6	LP-7	LP-8	LP-9/9R	LP-10/10R	LP-11/11R	LP-12/12R	LP-13/13R	LP-14/14R	LHMD-1	LHMD-2
Installed Depth (ft)	27.0	31.5	24.0	15.5	15.56	16.0	10.9	10.8	14.0	16.2	15.7	15.2	14.9	15.0	15.2	15.0	14.0		
											Replacement LP Depths →	22.5	22.3	22.9	27.3	27.9	15.6		
											Depth after August 2022 Extension →	27.5	27.3	27.9	32.3	32.9	20.6		
Date	Leachate Column Thickness (ft)																		
1/26/2012	0.27	0.65	0.24	2.90	0.10	0.23	0.24	0.25	0.37	0.25	0.19	0.49	1.66	0.33	0.45	14.31	1.12	NI	NI
2/16/2012	0.29	0.82	0.05	2.93	0.09	0.32	0.29	0.22	0.45	0.29	0.24	0.38	1.58	0.19	0.54	14.26	1.06	NI	NI
3/16/2012	0.47	0.81	0.16	2.91	0.17	0.65	0.35	0.25	0.47	0.34	0.23	0.41	1.65	0.25	0.52	14.34	1.03	NI	NI
4/20/2012	0.27	0.68	0.13	2.88	0.29	0.72	0.37	0.17	0.71	0.27	0.28	0.36	1.52	0.24	0.46	14.61	0.36	NI	NI
5/23/2012	0.29	0.58	0.11	1.99	0.17	0.77	0.27	0.15	0.48	0.42	0.43	0.65	1.57	0.19	0.39	14.21	0.15	NI	NI
6/15/2012	0.31	0.63	0.14	2.18	0.07	0.69	0.34	0.16	0.21	0.24	0.38	0.56	1.68	0.23	0.32	14.53	0.07	NI	NI
7/22/2012	0.28	0.69	0.08	2.21	0.27	0.57	0.32	0.10	0.09	0.36	0.17	0.59	1.65	0.17	0.37	14.48	0.22	NI	NI
8/13/2012	0.31	0.68	0.13	2.28	0.13	0.61	0.17	0.09	0.58	0.24	0.74	0.65	1.68	0.23	0.44	14.47	0.35	NI	NI
9/16/2012	0.41	0.66	0.08	2.69	0.08	0.58	0.45	0.20	0.63	0.30	0.69	0.75	2.20	0.26	0.39	14.82	0.37	NI	NI
10/23/2012	0.50	0.68	0.17	2.78	0.18	0.56	0.17	0.13	0.70	0.31	0.90	0.65	0.55	0.44	0.41	14.73	0.35	NI	NI
11/30/2012	0.53	0.84	0.09	2.76	0.22	0.34	0.18	0.16	0.77	1.20	0.71	0.88	0.73	0.37	0.52	14.76	0.19	NI	NI
12/18/2012	0.73	0.72	0.24	2.95	0.32	0.16	0.29	0.10	0.59	0.20	0.34	0.77	2.52	1.01	0.07	13.59	1.26	NI	NI
1/29/2013	0.00	0.00	0.00	2.76	0.00	0.00	1.71	0.00	0.00	0.00	0.00	0.60	2.07	1.10	0.39	13.54	1.61	NI	NI
2/25/2013	0.00	0.00	0.00	2.83	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.81	1.47	1.17	0.33	13.71	2.14	NI	NI
3/27/2013	0.00	0.00	0.00	3.49	0.00	1.40	0.00	0.00	0.00	0.00	0.00	1.33	3.19	1.38	0.00	13.55	2.60	NI	NI
4/30/2013	0.00	0.00	0.00	3.51	0.00	1.64	0.71	0.00	0.00	0.00	0.00	2.14	4.73	1.51	0.91	13.27	2.83	NI	NI
5/21/2013	0.00	0.00	0.00	5.08	0.00	1.64	1.52	0.00	0.00	0.00	0.77	1.77	4.57	1.86	1.02	11.35	3.39	NI	NI
6/20/2013	0.00	0.00	0.00	4.67	0.00	1.14	1.36	0.00	0.00	0.00	0.32	1.60	4.38	1.83	0.95	11.48	3.32	NI	NI
7/24/2013	0.00	0.00	0.00	4.20	0.00	0.00	0.98	0.00	0.00	0.00	1.03	1.14	4.13	1.76	0.90	11.87	3.29	NI	NI
8/30/2013	0.00	0.00	0.00	1.01	0.00	0.00	0.66	0.00	0.00	0.00	0.00	0.36	1.08	0.66	0.00	12.82	3.22	NI	NI
9/20/2013	0.00	0.00	0.00	0.90	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.61	1.21	0.42	0.00	12.75	3.16	NI	NI
10/21/2013	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24	2.24	1.31	0.00	13.34	3.56	NI	NI
11/14/2013	0.00	0.00	0.00	0.00	1.22	0.00	0.00	0.00	0.00	0.00	0.00	1.24	2.73	1.59	0.61	13.54	3.37	NI	NI
12/16/2013	0.00	0.00	0.00	0.98	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	2.50	1.19	0.00	13.49	3.25	NI	NI
1/28/2014	2.12	1.87	0.18	1.00	0.56	0.00	0.58	0.46	1.91	1.18	0.63	0.69	2.23	1.32	0.23	13.63	2.87	NI	NI
2/24/2014	2.10	1.83	0.12	0.97	0.56	0.00	0.58	0.46	1.95	1.12	0.55	0.61	2.29	0.75	0.23	13.74	2.94	NI	NI
3/26/2014	2.17	1.89	0.28	0.99	0.56	0.00	0.58	0.46	1.96	1.02	0.82	0.64	2.50	0.82	0.23	13.69	3.13	NI	NI
4/24/2014	2.05	1.84	0.26	0.93	0.56	0.00	0.58	0.46	1.92	1.18	0.69	1.00	2.50	0.91	0.40	13.29	3.06	NI	NI
5/21/2014	2.46	1.54	0.39	2.22	0.62	0.00	0.58	0.46	1.91	0.80	0.47	1.09	2.59	1.32	0.44	13.04	3.25	NI	NI
6/25/2014	3.97	1.50	0.00	1.36	1.70	0.36	0.78	0.54	1.91	1.38	2.20	1.71	3.31	1.26	0.80	10.38	3.68	NI	NI
7/29/2014	2.56	1.52	0.22	2.30	1.08	0.00	0.58	0.46	1.91	1.08	1.41	1.64	2.48	1.08	0.66	12.65	3.29	NI	NI
8/25/2014	2.66	1.88	0.12	2.07	0.70	0.22	0.68	0.46	1.96	0.82	1.69	0.98	1.27	1.52	0.49	11.57	2.76	NI	NI
9/30/2014	3.26	1.50	0.00	1.87	2.03	0.02	0.81	0.45	1.83	0.83	1.61	1.59	2.36	1.94	0.71	13.65	3.32	NI	NI
10/28/2014	3.32	1.50	0.00	1.43	1.50	0.00	0.76	0.46	1.83	0.80	1.54	1.25	1.99	1.91	0.55	13.27	3.39	NI	NI
11/25/2014	3.38	1.27	0.00	3.27	1.32	0.00	0.65	0.46	1.83	0.80	1.50	1.09	2.33	1.93	0.60	13.80	3.47	NI	NI
12/5/2014	3.42	1.34	0.00	3.20	1.17	0.04	0.61	0.46	1.83	0.82	1.24	1.17	2.31	1.81	0.60	13.96	3.46	NI	NI
1/23/2015	3.39	1.63	0.00	2.00	0.82	0.06	0.77	0.00	0.00	0.80	1.10	1.05	2.27	1.73	0.50	13.49	3.34	NI	NI
2/20/2015	3.41	1.64	0.00	1.88	0.68	0.08	0.67	0.00	0.00	0.92	1.24	1.07	2.43	1.70	0.49	13.75	3.42	NI	NI
3/18/2015	3.50	1.86	0.00	2.08	0.00	0.06	0.60	0.00	0.00	0.98	1.17	0.98	2.05	1.63	0.36	13.80	3.48	NI	NI
4/30/2015	3.37	1.93	0.00	2.42	0.00	0.36	0.61	0.00	0.00	1.10	2.10	1.06	2.43	1.20	0.28	13.97	3.35	NI	NI
5/27/2015	3.50	1.75	0.00	2.70	0.72	3.96	0.68	0.00	0.00	0.97	2.77	1.04	1.65	1.30	0.68	13.61	3.62	NI	NI
6/13/2015	3.51	1.69	0.00	2.62	0.92	3.74	0.61	0.00	0.00	1.10	2.62	1.07	1.65	1.33	0.66	13.57	3.63	NI	NI
7/31/2015	2.48	1.56	0.00	3.10	1.02	0.05	0.81	0.00	0.00	0.00	2.72	1.02	1.08	1.28	0.50	12.84	3.62	NI	NI
8/26/2015	3.43	0.00	0.00	3.20	1.30	0.05	0.95	0.00	0.00	0.00	2.66	1.10	1.93	2.05	0.56	12.27	3.38	NI	NI
9/28/2015	2.83	0.00	0.39	3.45	1.30	0.04	0.13	0.00	0.00	0.00	2.72	1.13	1.87	2.00	0.50	12.64	3.47	NI	NI
10/30/2015	2.77	1.30	0.42	3.57	1.23	0.20	0.56	0.44	1.84	0.75	2.79	1.15	1.91	2.00	0.54	12.49	3.93	NI	NI
11/23/2015	2.13	1.55	0.41	3.38	1.19	0.00	0.61	0.45	1.85	0.77	2.77	1.11	1.79	2.22	0.64	12.55	3.77	NI	NI
12/30/2015	2.02	1.51	0.45	3.13	1.21	0.00	0.66	0.44	1.83	0.80	2.77	1.06	1.86	2.34	0.80	12.60	3.86	NI	NI
1/14/2016	2.04	1.69	0.44	2.90	1.36	0.01	0.60	0.45	1.84	0.88	3.15	1.24	2.13	2.34	0.81	12.28	4.11	NI	NI
2/29/2016	2.04	1.95	0.44	3.57	1.71	0.76	0.59	0.47	1.84	0.88	3.15	1.81	2.39	2.55	0.88	12.20	4.44	NI	NI
3/21/2016	2.03	1.86	0.47	3.83	1.98	0.73	1.25	0.46	1.83	1.58	3.47	1.54	2.36	2.22	1.36	12.20	4.32	NI	NI
4/20/2016	2.06	1.80	0.51	3.33	2.32	0.66	0.63	0.48	2.00	1.41	3.32	1.51	2.40	4.51	1.36	12.26	4.23	NI	NI
5/16/2016	2.18	1.76	0.48	3.03	2.14	0.11	0.60	0.47	1.90	0.86	3.01	1.18	2.18	4.27	1.46	11.98	4.02	NI	NI
6/30/2016	1.98	1.68	0.46	2.91	2.26	0.67	0.64	0.47	1.83	1.04	1.97	1.28	2.61	3.33	1.44	11.24	3.61	NI	NI
7/15/2016	2.00	1.64	0.51	2.47	2.32	0.19	0.83	0.48	1.86	0.87	1.79	1.61	2.41	2.10	1.37	11.17	3.71	NI	NI
8/30/2016	1.93	1.51	0.44	2.60	2.42	0.04	0.58	0.51	1.83	0.22	2.19	1.29	2.07	2.61	1.03	11.03	4.03	Dry	NI
9/21/2016	2.49	1.50	0.06	2.95	2.58	0.00	1.20	0.47	1.83	1.33	2.24	1.41	2.71	2.51	1.06	11.08	4.09	0.01	NI
10/21/2016	1.95	1.37	0.44	2.77	2.82	0.55	0.66	0.48	1.83	0.96	2.24	1.45	2.50	2.62	0.95	11.32	4.90	Dry	NI
11/10/2016	1.95	1.31	0.46	2.87	2.63	0.65	0.69	0.46	1.83	0.64	2.70	1.27	2.19	2.40	0.74	11.52	4.41	Dry	NI
12/23/2016	2.01	1.56	0.44	3.46	3.41	1.16	0.83	0.45	1.83	0.62	2.89	1.23	2.54	2.63	0.86	11.33	3.73	Dry	NI
1/23/2017	2.08	1.97	0.38	3.27	3.25	1.20	0.65	0.46	1.83	0.83	2.36	1.11	2.34	2.45	0.72	11.87	3.38	Dry	NI
2/28/2017	2.05	2.06	0.39	4.03	3.31	0.90	1.16	0.46	1.83	1.25	2.63	1.38	2.55	2.76	1.10	11.58	4.43	Dry	NI
3/16/2017	2.02	1.85	0.40	4.31	3.02	1.29	1.45	0.46	2.56	1.69	2.06	1.94	2.23	2.42	1.16	11.03	4.73	Dry	NI
4/11/2017	2.15	1.77	0.38	4.27	2.79	0.98	1.25	0.46	2.07	1.40	2.85	2.03	2.46	2.73	1.07	11.10	4.71	Dry	NI
5/22/2017	1.90	1.74	0.45	4.29	2.63	0.73	1.13	0.46	1.83	0.82	3.10	1.97	2.84	3.23	1.00	11.05	4.65	Dry	NI
6/23/2017	2.00	1.72	0.42	3.75	3.21	0.00	1.05	0.46	1.83	0.52	2.89	1.82	2.62	3.05	0.93	11.10	4.73	Dry	NI
7/28/2017	2.00	2.30	0.42	3.94	2.74	0.07	0.89	0.46	1.83	0.27	2.58	1.46	2.44	3.64	0.83	11.27	4.24	Dry	NI
8/21/2017	2.00	1.64	0.54	3.79	2.82	0.14	1.06	0.51	1.83	0.89	2.30	1.59	2.78	3.73	0.95	11.12	3.65	Dry	NI
9/11/2017	2.02	1.87	0.37	3.59	2.72	0.00	0.71	0.46	1.85	0.84	2.30	1.26	2.33	3.31	0.52	11.68	3.77	Dry	NI
10/16/2017	2.00	1.50	0.49	4.05	2.69	0.92	1.46	0.46	1.83	1.16	2.26	1.82	3.04	4.02	0.89	11.32	3.65	0.03	NI
11/20/2017	2.00	1.50	0.42	3.58	2.67	1.36	0.82	0.46	1.83	0.85	2.33	1.24	3.35	4.17	0.72	11.82	3.71	Dry	NI
12/29/2017	2.02	1.58	0.43	4.21	2.98	0.27	0.81	0.46	1.83	0.50	1.58	1.03	2.94	3.18	0.98	12.63	3.50	0.18	NI
1/10/2018	2.04	1.71	0.42	4.35	3.13	0.00	0.86	0.46	1.83	0.39	1.56	1.08	2.95	3.13	0.67	12.35	3.22	0.11	NM
2/27/2018	2.41	2.00	0.06	3.80	3.02	0.00	0.19	0.46	1.83	0.68	1.23	0.98	3.67	2.70	0.58	12.76	3.61	0.12	NM
3/30/2018	2.42	2.04	0.02	4.45	3.68	0.11	1.30	0.46	1.83	0.75	1.21	1.11	3.48	2.71	0.94	12.14	3.17	0.16	NM
4/16/2018	2.45	1.95	0.14	4.47	4.26	0.55	2.10	0.46	1.93	1.25	1.56	0.97	3.42	2.14	1.23	12.39	3.04	0.01	NM
5/14/2018	2.36	1.79	0.12	4.39	4.08	0.58	2.00	0.46	1.88	1.22	1.34	0.75	3.22	2.02	0.89	12.52	2.97	0.05	NM
6/29/2018	2.06	1.82	0.59	3.83	3.67	1.16	2.15	0.46	1.82	1.57	1.04	1.48	3.49	2.86	1.22	11.56	3.47	0.02	NM
7/24/2018	2.03	1.71	0.20	3.80	3.12	2.10	1.53	0.46	1.83	1.01	0.73	1.92	3.39	2.26	0.91	11.25	3.37	Dry	NM
8/27/2018	2.05	1.63	0.41	4.54	3.69	2.00	1.92	0.46	1.83	1.20	0.89	1.99	3.14	2.59	0.93	11.24	3.02	0.24	NM
9/28/2018	2.02	1.53	0.41	5.33	4.76	2.32	1.73	0.46	1.83	1.06	0.69	1.72	3.32	2.66	1.33	11.16	3.34	0.19	NM
10/22/2018	2.39	1.46	0.37	4.91	4.72	1.84	1.47	0.46	1.83	1.14	1.04	1.71	3.10	2.60	1.38	11.69	3.25	0.15	NM
11/12/2018	2.02	1.78	0.38	4.86	4.71	1.71	1.07	0.46	1.84	0.89	0.76	1.61	3.21	2.60	1.21	11.90	3.02	0.13	NM
12/19/2018	1.99	2.09	0.40	4.65	4.86	1.57	1.06	0.46	1.86	1.74	0.74	1.55	4.30	4.07	1.18	10.65	3.73	0.11	NM

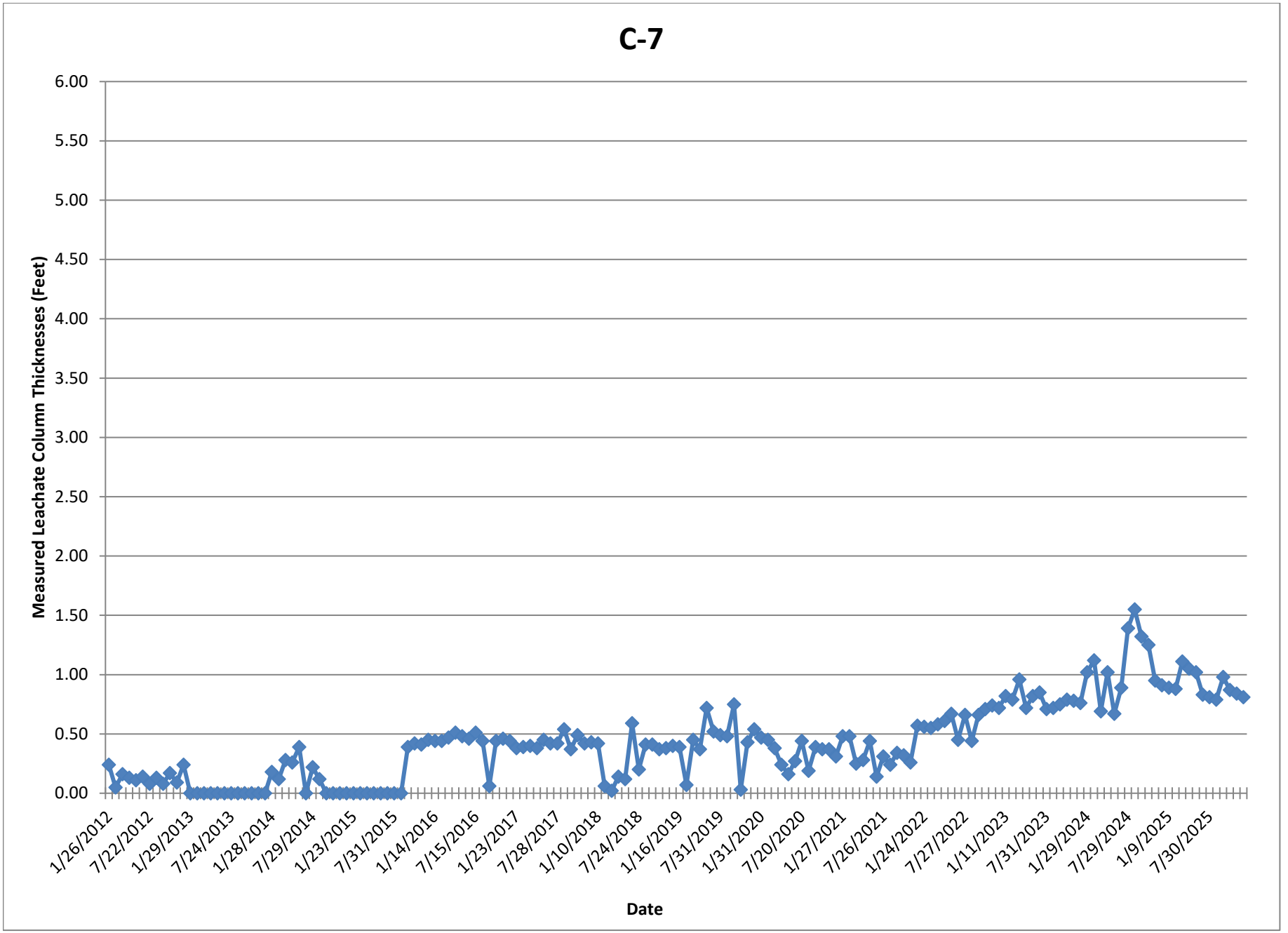
Attachment B
Table B-1
Historical Leachate Column Thicknesses
Northwest Iowa Area Sanitary Landfill

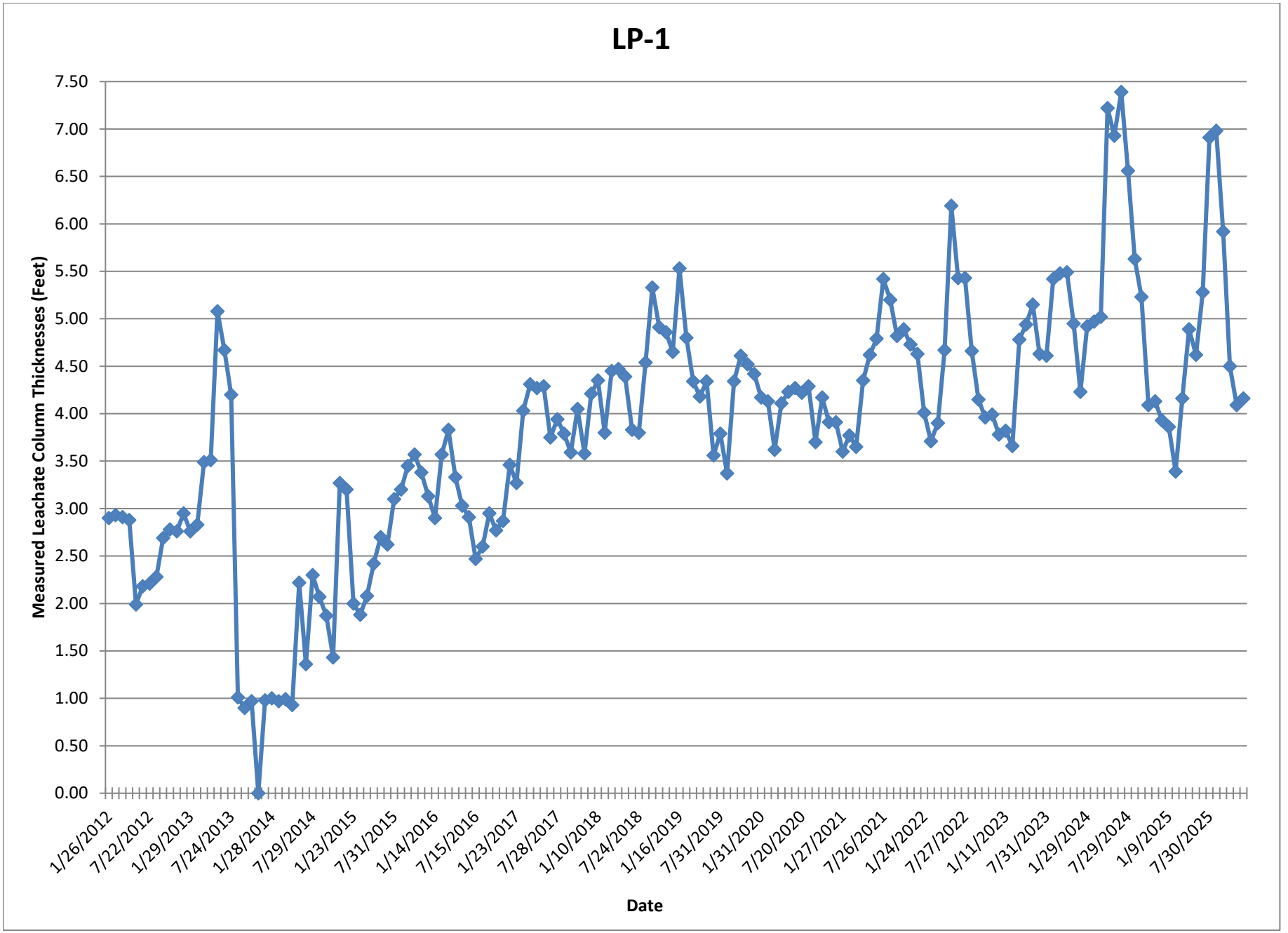
	C-2	C-5	C-7	LP-1	LP-2	LP-3	LP-4	LP-5	LP-6	LP-7	LP-8	LP-9/9R	LP-10/10R	LP-11/11R	LP-12/12R	LP-13/13R	LP-14/14R	LHMD-1	LHMD-2
Installed Depth (ft)	27.0	31.5	24.0	15.5	15.56	16.0	10.9	10.8	14.0	16.2	15.7	15.2	14.9	15.0	15.2	15.0	14.0		
											Replacement LP Depths →	22.5	22.3	22.9	27.3	27.9	15.6		
											Depth after August 2022 Extension →	27.5	27.3	27.9	32.3	32.9	20.6		
Date	**Leachate Column Thickness (ft)**																		
1/16/2019	2.02	2.13	0.39	5.53	4.80	1.95	1.53	0.46	1.88	1.04	1.53	1.63	4.47	4.68	1.49	10.94	3.51	0.58	NM
2/19/2019	3.44	2.01	0.07	4.80	4.33	1.28	1.17	0.46	1.21	0.59	1.99	1.12	4.20	4.88	1.70	11.08	3.50	0.68	NM
3/28/2019	1.98	2.02	0.45	4.34	2.84	2.30	1.06	0.46	1.81	1.18	1.59	2.01	4.45	4.83	1.80	11.13	3.03	0.55	NM
4/15/2019	2.06	1.93	0.37	4.18	2.97	2.89	1.14	0.49	1.89	1.32	1.74	2.60	4.32	4.77	2.47	10.87	3.37	1.03	NM
5/22/2019	1.96	1.86	0.72	4.34	3.08	3.30	1.17	0.53	1.79	2.03	1.89	3.30	4.43	4.88	3.68	10.51	3.65	1.56	NM
6/28/2019	2.04	1.88	0.52	3.56	3.22	1.07	1.63	0.54	2.24	1.31	2.15	2.82	4.44	4.68	2.03	10.51	4.80	0.72	NM
7/31/2019	2.03	1.76	0.49	3.79	2.51	3.45	1.57	0.46	1.84	1.23	2.96	2.10	4.10	4.68	1.88	10.20	4.63	0.89	NM
8/27/2019	2.01	1.70	0.48	3.37	2.60	1.47	1.54	0.45	1.83	1.07	2.61	1.59	4.75	4.16	1.72	10.65	4.77	0.28	NM
9/30/2019	2.07	1.59	0.75	4.34	3.78	3.25	2.50	0.53	2.57	1.96	3.37	0.31	2.46	1.64	0.18	20.20	11.66	0.33	NM
10/25/2019	3.64	1.56	0.03	4.61	4.37	4.18	1.61	0.46	1.83	1.43	2.90	0.27	2.03	1.57	0.50	23.21	11.00	0.10	NM
11/20/2019	2.04	1.58	0.43	4.52	2.42	4.23	1.42	0.47	1.83	1.32	2.82	0.29	2.46	2.27	0.49	23.30	10.83	0.36	NM
12/27/2019	2.13	2.07	0.54	4.42	2.58	4.03	1.54	0.47	2.21	1.65	2.78	1.03	2.25	2.50	0.50	23.53	10.55	0.06	NM
1/31/2020	2.06	2.29	0.47	4.17	3.20	4.75	1.41	0.46	2.33	1.18	2.59	0.45	2.34	1.75	0.63	23.60	10.33	0.05	NM
2/20/2020	2.07	2.31	0.45	4.13	3.04	4.81	1.37	0.47	2.50	0.84	2.45	0.13	2.03	1.58	0.58	23.45	8.44	1.05	NM
3/30/2020	2.05	2.25	0.38	3.62	2.67	4.35	1.34	0.45	2.69	0.76	2.77	0.00	1.81	1.49	0.38	23.81	7.36	1.28	NM
4/21/2020	1.97	2.85	0.24	4.11	2.82	4.63	1.26	0.48	2.50	0.83	2.90	0.08	1.94	1.46	0.58	23.93	8.96	0.61	0.47
5/20/2020	1.98	3.30	0.16	4.23	2.66	4.27	1.29	0.50	2.32	0.81	3.18	0.25	2.11	1.42	0.98	24.19	9.18	1.22	0.45
6/15/2020	2.03	3.64	0.27	4.27	3.19	4.25	0.86	0.52	2.16	1.34	3.08	0.47	1.95	1.61	0.53	23.74	9.31	0.68	0.43
7/20/2020	1.92	4.39	0.44	4.22	2.78	2.16	1.51	0.46	2.12	0.92	2.55	0.45	2.04	1.51	0.55	26.47	8.73	0.99	0.47
8/20/2020	1.98	1.48	0.19	4.29	2.65	1.03	1.27	0.44	1.83	1.16	2.41	0.38	2.02	1.38	0.31	25.72	8.69	0.48	0.45
9/23/2020	2.01	1.81	0.39	3.70	2.64	1.22	1.20	0.45	1.85	0.77	2.18	0.59	2.23	1.61	0.51	25.74	9.32	0.11	0.40
10/29/2020	2.04	2.92	0.37	4.17	2.58	0.87	1.08	0.47	1.87	0.80	1.75	0.31	2.08	1.66	0.54	25.52	8.81	0.01	0.15
11/30/2020	2.08	3.12	0.37	3.91	3.25	0.44	0.96	0.47	1.83	0.76	1.51	0.51	2.08	1.42	0.23	24.22	8.39	0.01	0.24
12/21/2020	2.03	3.65	0.31	3.91	2.98	0.47	0.89	0.44	1.40	0.59	1.45	0.42	2.03	1.48	0.61	24.46	8.29	0.01	0.03
1/27/2021	2.02	4.39	0.48	3.60	2.69	0.49	0.74	0.42	1.62	0.20	1.22	0.47	1.97	1.51	0.84	24.41	7.62	0.01	0.45
2/23/2021	2.05	5.93	0.48	3.77	2.73	0.51	0.68	0.50	1.19	0.20	1.07	0.28	2.08	1.51	0.87	24.41	7.91	0.01	0.06
3/26/2021	1.98	5.55	0.25	3.65	2.83	1.01	0.82	0.56	1.67	1.20	0.91	0.45	2.55	1.99	2.55	23.35	6.67	0.01	0.37
4/26/2021	2.02	6.14	0.28	4.35	3.63	1.29	1.57	0.48	1.58	1.70	1.17	1.35	2.25	1.72	1.91	23.19	7.39	0.01	0.36
5/24/2021	1.83	5.55	0.44	4.62	3.45	3.06	1.31	0.47	1.87	1.74	2.09	0.34	1.81	1.22	1.25	23.97	7.44	0.01	0.03
6/14/2021	2.03	5.58	0.14	4.79	3.00	2.03	0.67	0.49	1.84	1.56	1.82	0.19	1.78	1.28	1.13	23.89	6.74	0.03	0.01
7/26/2021	2.84	6.25	0.31	5.42	3.51	1.43	1.25	0.42	1.48	1.34	1.68	0.48	1.75	1.42	1.27	25.06	7.17	0.13	0.01
8/18/2021	2.79	5.59	0.24	5.20	3.53	1.14	1.20	0.44	1.54	1.23	1.61	0.38	1.85	1.32	1.28	24.52	7.11	0.07	0.01
9/13/2021	2.84	5.96	0.34	4.82	3.48	0.81	1.09	0.47	1.50	0.76	1.41	0.35	1.83	1.34	1.14	24.76	7.08	Dry	0.04
10/26/2021	2.89	6.25	0.32	4.89	3.45	0.43	0.98	0.45	1.47	0.83	1.35	0.46	1.88	1.28	1.09	24.96	7.01	Dry	0.05
11/29/2021	2.09	5.95	0.26	4.73	3.37	0.55	0.97	0.44	1.79	1.69	0.12	0.45	1.87	1.29	1.52	24.98	7.17	Dry	0.03
12/15/2021	2.03	6.27	0.57	4.63	3.27	0.52	0.97	0.49	1.48	1.47	1.10	0.38	2.01	1.34	1.78	24.39	7.28	Dry	0.05
1/24/2022	1.95	5.93	0.56	4.01	2.82	0.44	0.68	0.50	1.77	0.23	0.83	0.48	2.05	1.29	2.15	24.29	7.47	0.51	0.01
2/28/2022	2.05	5.93	0.55	3.71	2.67	0.42	0.58	0.44	1.82	0.24	0.71	0.49	1.92	1.31	2.13	24.85	7.32	0.00	0.03
3/21/2022	2.08	5.91	0.58	3.90	2.82	0.68	0.58	0.46	1.80	0.80	1.20	0.35	2.08	1.54	2.09	24.77	6.87	Dry	0.39
4/18/2022	2.10	5.90	0.61	4.67	3.29	2.85	1.07	0.48	1.78	1.34	1.43	0.42	2.23	2.05	2.04	24.53	6.19	0.04	0.43
5/18/2022	2.11	5.93	0.67	6.19	3.80	4.58	1.32	0.52	1.47	2.75	2.81	0.48	2.32	3.01	2.12	24.24	5.77	0.01	0.53
6/28/2022	1.95	5.93	0.45	5.43	4.05	1.98	0.58	0.52	1.47	1.75	2.25	0.04	2.20	2.36	1.71	22.81	6.03	0.05	0.70
7/27/2022	1.91	5.93	0.66	5.43	4.05	1.98	0.58	0.52	1.47	1.75	2.25	0.04	2.20	2.36	1.71	22.81	6.03	0.07	0.03
8/29/2022	2.02	5.92	0.44	4.66	3.77	0.48	0.98	0.48	1.47	1.45	1.81	1.75	2.91	1.75	1.32	Damaged	11.28	0.21	0.03
9/27/2022	2.02	5.92	0.66	4.15	3.44	0.55	0.97	0.46	1.47	1.32	1.69	1.63	2.55	1.72	1.31	Damaged	11.43	0.24	0.01
10/31/2022	1.99	5.92	0.71	3.96	3.00	0.55	0.78	0.44	1.47	1.13	1.52	1.29	2.68	1.62	1.47	Damaged	11.00	0.03	0.05
11/28/2022	1.95	5.92	0.74	3.99	2.80	0.54	0.68	0.47	1.47	0.85	1.31	1.03	2.77	1.56	1.32	Damaged	11.38	0.18	0.03
12/7/2022	1.93	5.92	0.72	3.78	2.57	0.51	0.64	0.45	1.47	0.81	1.21	0.99	2.36	1.55	1.32	Damaged	10.39	0.48	0.05
1/11/2023	1.00	5.92	0.82	3.82	2.35	0.42	0.91	0.46	1.47	0.73	1.08	1.28	2.97	2.16	2.41	Damaged	10.63	0.07	0.05
2/7/2023	0.98	5.92	0.79	3.66	2.09	0.44	0.68	0.46	1.47	0.75	0.88	1.04	3.32	2.32	2.32	Damaged	10.16	0.28	0.10
3/27/2023	1.59	5.92	0.96	4.78	2.48	3.61	1.87	0.58	1.47	7.26	2.40	0.99	3.12	1.92	2.42	Damaged	9.56	0.42	0.03
4/18/2023	1.15	5.92	0.72	4.94	3.62	2.67	1.64	0.53	1.47	3.18	2.71	1.04	2.81	1.97	2.47	Damaged	9.95	0.12	0.03
5/22/2023	1.13	5.92	0.82	5.15	4.11	2.95	1.76	0.45	1.69	3.38	2.89	1.21	3.17	3.68	3.55	Damaged	10.09	0.05	0.01
6/28/2023	1.00	5.92	0.85	4.63	4.23	0.53	1.38	0.43	1.81	1.53	2.35	1.12	2.49	2.63	3.39	Damaged	10.28	0.01	0.07
7/31/2023	1.12	5.92	0.71	4.61	4.01	0.52	1.29	0.44	1.80	1.78	1.95	1.08	2.20	2.21	3.09	Damaged	10.17	0.17	0.12
8/29/2023	1.11	5.92	0.72	5.42	3.92	0.51	1.43	0.47	1.87	1.07	1.79	1.13	2.41	2.45	2.97	Damaged	10.14	0.11	0.09
9/26/2023	1.08	5.92	0.75	5.48	3.83	0.52	1.37	0.35	1.60	0.70	1.52	1.14	2.78	2.41	5.43	Damaged	9.84	0.12	0.10
10/24/2023	1.05	5.92	0.79	5.49	3.64	0.49	1.24	0.35	1.47	0.53	1.37	1.12	3.09	2.97	5.65	Damaged	9.77	0.07	0.12
11/15/2023	0.92	5.92	0.78	4.95	3.56	0.43	1.15	0.34	1.49	0.43	1.29	1.05	2.55	2.44	3.11	Damaged	9.88	0.17	0.12
12/14/2023	1.05	5.92	0.76	4.23	3.08	0.49	1.00	0.40	1.48	0.28	1.12	1.35	2.22	2.15	2.71	Damaged	9.18	0.47	0.12
1/29/2024	1.15	5.92	1.02	4.92	3.33	4.05	1.06	0.37	1.05	2.21	2.47	1.92	2.33	2.52	3.50	Damaged	9.14	0.05	0.13
2/26/2024	1.45	5.92	1.12	4.97	2.50	4.11	1.38	0.40	1.48	2.48	2.44	2.05	3.25	3.45	3.35	Damaged	8.74	0.31	0.13
3/27/2024	1.08	5.92	0.69	5.02	2.20	4.12	1.25	0.47	1.67	2.37	2.91	1.55	3.31	4.57	3.20	Damaged	8.77	0.40	0.13
4/15/2024	1.29	5.92	1.02	7.22	5.12	2.95	1.71	0.42	2.64	2.21	3.40	1.31	3.35	3.71	3.44	Damaged	9.28	0.19	0.13
5/29/2024	1.05	5.58	0.67	6.93	5.33	2.81	1.75	0.35	3.35	1.89	3.21	1.34	3.33	3.92	7.23	11.18	9.96	0.48	0.13
7/2/2024	0.92	6.31	0.89	7.39	5.45	3.71	1.95	0.35	3.13	2.19	3.58	4.85	3.49	4.51	8.88	7.29	11.06	0.01	0.13
7/29/2024	1.06	5.92	1.39	6.56	5.52	1.17	1.57	0.34	1.49	0.84	2.91	6.62	3.18	2.79	2.51	7.78	10.91	0.03	0.13
8/27/2024	1.03	5.92	1.55	5.63	4.91	0.32	1.32	0.30	1.47	0.60	2.39	1.02	3.19	2.55	3.22	6.35	10.69	0.17	0.13
9/19/2024	0.71	5.92	1.32	5.23	4.81	0.34	1.38	0.04	1.35	0.33	2.31	1.08	3.19	2.21	2.53	5.58	10.35	0.11	0.13
10/29/2024	0.97	5.92	1.25	4.09	4.12	0.37	1.15	0.32	1.41	0.25	1.87	0.94	2.97	2.08	2.23	5.35	10.79	0.38	0.13
11/15/2024	0.96	5.92	0.95	4.13	3.68	0.41	1.14	0.26	1.31	0.18	1.71	1.01	2.64	2.05	2.41	5.18	10.12	0.21	0.13
12/18/2024	1.03	5.92	0.91	3.93	3.18	0.43	0.97	0.20	1.18	0.09	1.25	1.33	2.21	1.79	2.09	7.49	9.79	0.50	0.13
1/9/2025	1.05	5.92	0.89	3.86	3.17	0.38	0.96	0.21	1.21	0.20	1.28	1.09	2.62	2.02	2.49	4.93	9.90	<0.1	0.13
2/24/2025	1.09	5.92	0.88	3.39	2.43	0.48	0.42	0.18	1.05	Dry	0.81	1.21	2.57	1.73	2.74	7.71	9.38	<0.1	0.13
3/14/2025	1.09	5.92	1.11	4.16	2.61	0.35	0.75	0.14	1.41	2.07	1.85	1.32	3.02	1.85	6.25	7.71	9.46	<0.1	0.17
4/16/2025	1.10	5.92	1.05	4.89	2.84	3.27	1.14	0.23	1.40	2.37	2.22	0.92	3.14	4.03	2.90	6.33	9.01	0.05	Capped
5/30/2025	1.07	5.92	1.02	4.62	3.14	2.24	1.08	0.20	1.24	1.43	1.66	1.15	2.45	2.65	2.72	6.47	8.92	0.08	Capped
6/30/2025	1.05	5.92	0.83	5.28	3.32	0.49	1.17	0.26	1.35	1.15	1.41	0.93	3.15	2.38	2.77	6.81	9.13	0.24	Capped
7/30/2025	1.15	5.92	0.81	6.91	3.65	6.18	2.50	0.38	1.54	5.76	1.59	0.95	3.75	5.19	2.59	8.07	9.77	0.28	Capped
8/22/2025	1.05	5.92	0.79	6.98	4.28	5.06	1.40	0.27	1.45	2.23	2.45	1.15	4.53	3.39	2.58	6.82	9.91	0.10	Capped
9/22/2025	1.05	5.92	0.98	5.92	4.24	0.44	1.29	0.28	1.45	1.43	2.05	1.02	2.57	2.55	2.35	10.84	10.05	0.13	Capped
10/24/2025	1.02	5.92	0.87	4.50	3.83	0.48	1.08	0.28	1.35	1.14	1.64	1.19	2.36	2.38	2.35	6.59	9.72	0.34	Capped
11/20/2025	1.02	5.92	0.84	4.09	3.59	0.41	0.88	0.34	1.31	0.83	1.14	1.02	2.44	2.29	2.39	6.49	0.49	0.21	Capped
12/16/2025	0.79	5.92	0.81	4.16	3.33	0.44	0.80	0.14	1.33	0.74	1.15	1.16	2.33	2.45	2.51	5.75	9.61	0.22	Capped

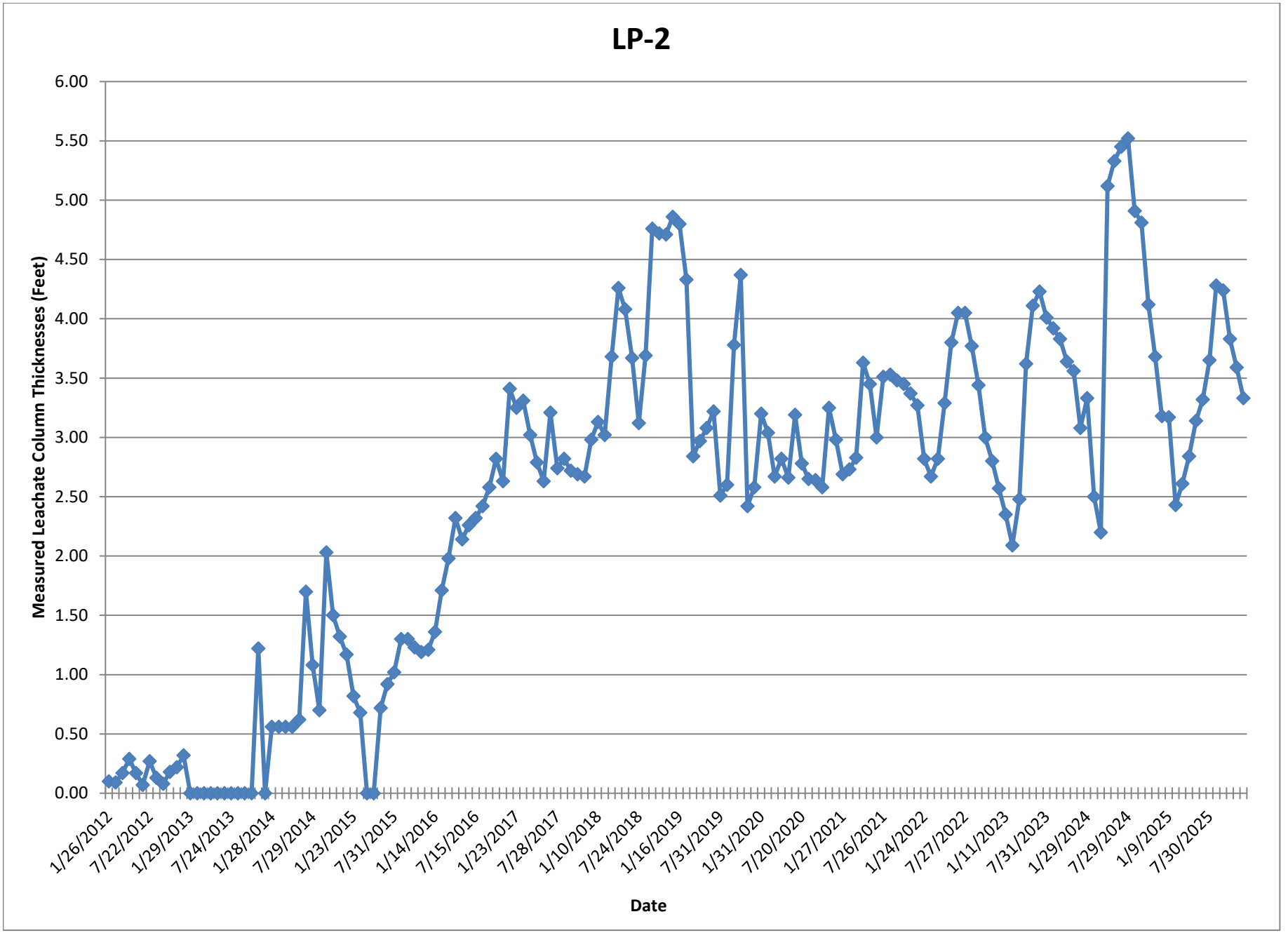
Notes:
NI = Not installed
NM = Not measured
1) Leachate piezometers LP-9R, LP-10R, LP-11R, LP-12R, LP-13R, and LP-14R were installed in September 2019 and extraction pumps were installed in spring 2024.
2) Leachate head measurements for LHLMD-1 and LHMD-2 were incorrectly reported through December 2022. The measurements have been corrected herein.
3) LP-13R was repaired in May 2024.
4) LHMD-2 was capped due to the construction of cell 25.

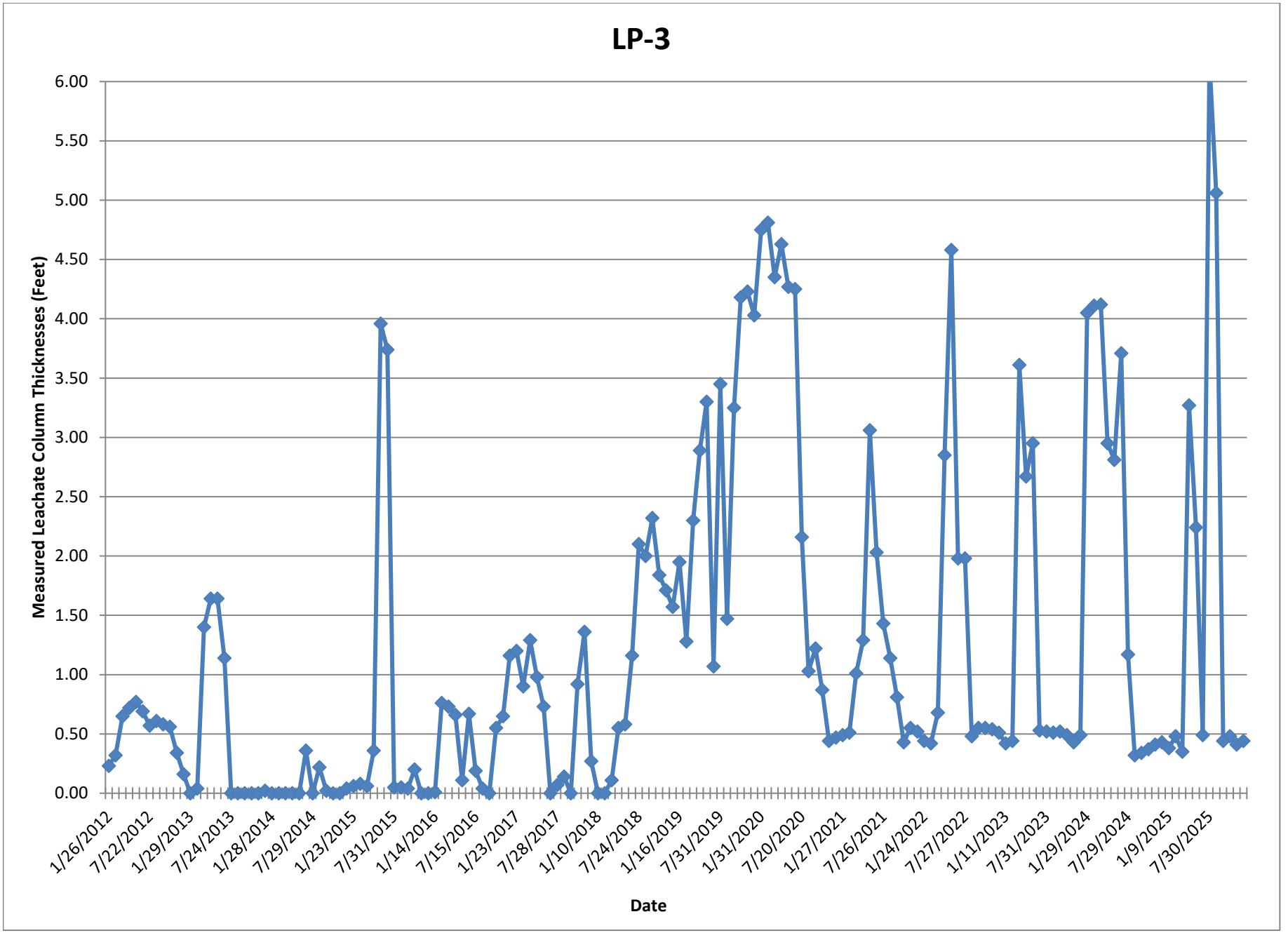

C-2
Measured Leachate Column Thicknesses (Feet)
6.00
5.50
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
1/26/2012
7/22/2012
1/29/2013
7/24/2013
1/28/2014
7/29/2014
1/23/2015
7/31/2015
1/14/2016
7/15/2016
1/23/2017
7/28/2017
1/10/2018
7/24/2018
1/16/2019
7/31/2019
1/31/2020
7/20/2020
1/27/2021
7/26/2021
1/24/2022
7/27/2022
1/11/2023
7/31/2023
1/29/2024
7/29/2024
1/9/2025
7/30/2025
Date

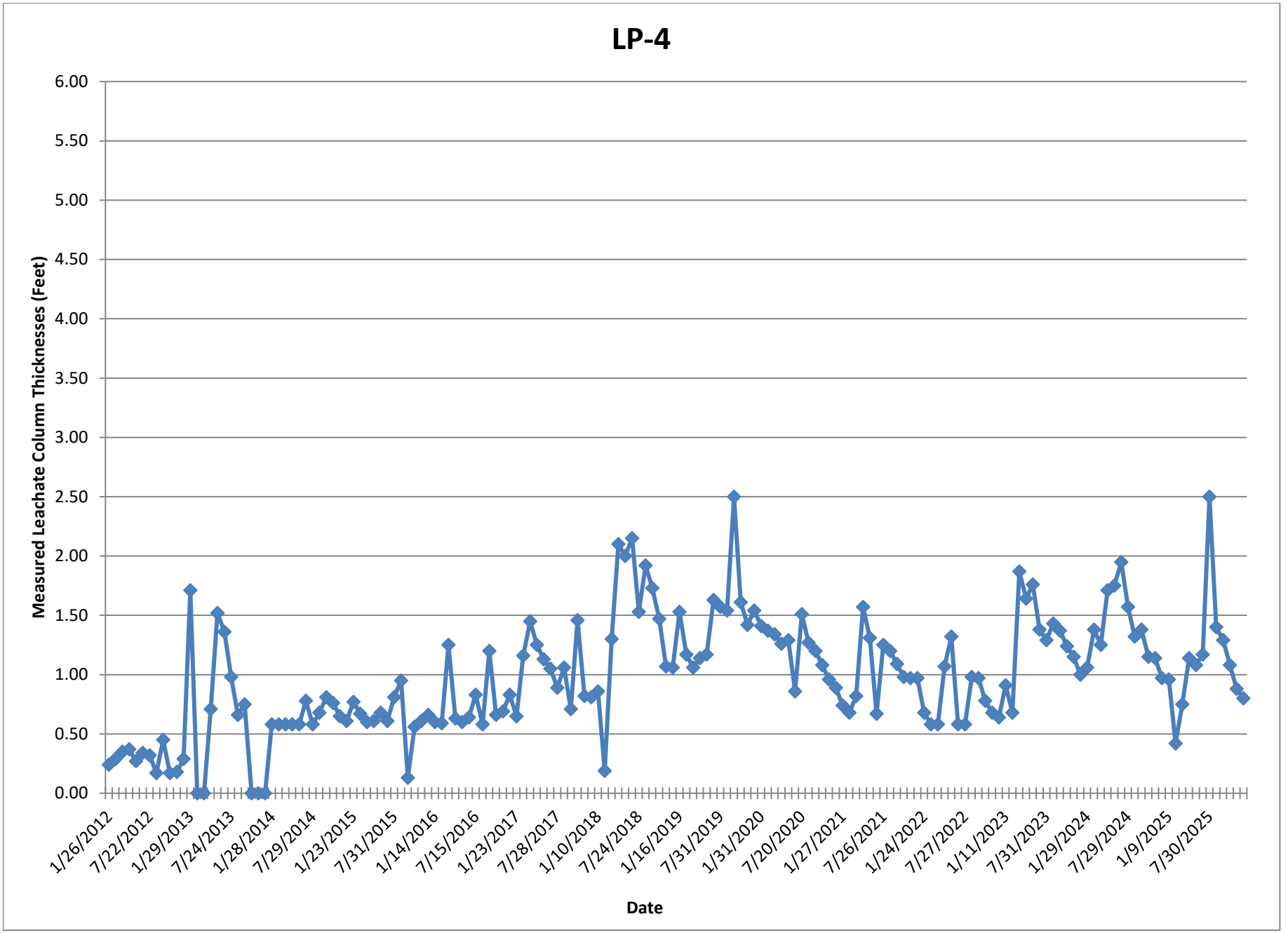

C-5
Measured Leachate Column Thicknesses (Feet)
6.50
6.00
5.50
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
1/26/2012
7/22/2012
1/29/2013
7/24/2013
1/28/2014
7/29/2014
1/23/2015
7/31/2015
1/14/2016
7/15/2016
1/23/2017
7/28/2017
1/10/2018
7/24/2018
1/16/2019
7/31/2019
1/31/2020
7/20/2020
1/27/2021
7/26/2021
1/24/2022
7/27/2022
1/11/2023
7/31/2023
1/29/2024
7/29/2024
1/9/2025
7/30/2025
Date


C-7
Measured Leachate Column Thicknesses (Feet)
6.00
5.50
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
1/26/2012
7/22/2012
1/29/2013
7/24/2013
1/28/2014
7/29/2014
1/23/2015
7/31/2015
1/14/2016
7/15/2016
1/23/2017
7/28/2017
1/10/2018
7/24/2018
1/16/2019
7/31/2019
1/31/2020
7/20/2020
1/27/2021
7/26/2021
1/24/2022
7/27/2022
1/11/2023
7/31/2023
1/29/2024
7/29/2024
1/9/2025
7/30/2025
Date


LP-1
Measured Leachate Column Thicknesses (Feet)
7.50
7.00
6.50
6.00
5.50
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
1/26/2012
7/22/2012
1/29/2013
7/24/2013
1/28/2014
7/29/2014
1/23/2015
7/31/2015
1/14/2016
7/15/2016
1/23/2017
7/28/2017
1/10/2018
7/24/2018
1/16/2019
7/31/2019
1/31/2020
7/20/2020
1/27/2021
7/26/2021
1/24/2022
7/27/2022
1/11/2023
7/31/2023
1/29/2024
7/29/2024
1/9/2025
7/30/2025
Date


LP-2
Measured Leachate Column Thicknesses (Feet)
6.00
5.50
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
1/26/2012
7/22/2012
1/29/2013
7/24/2013
1/28/2014
7/29/2014
1/23/2015
7/31/2015
1/14/2016
7/15/2016
1/23/2017
7/28/2017
1/10/2018
7/24/2018
1/16/2019
7/31/2019
1/31/2020
7/20/2020
1/27/2021
7/26/2021
1/24/2022
7/27/2022
1/11/2023
7/31/2023
1/29/2024
7/29/2024
1/9/2025
7/30/2025
Date


LP-3
Measured Leachate Column Thicknesses (Feet)
6.00
5.50
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
1/26/2012
7/22/2012
1/29/2013
7/24/2013
1/28/2014
7/29/2014
1/23/2015
7/31/2015
1/14/2016
7/15/2016
1/23/2017
7/28/2017
1/10/2018
7/24/2018
1/16/2019
7/31/2019
1/31/2020
7/20/2020
1/27/2021
7/26/2021
1/24/2022
7/27/2022
1/11/2023
7/31/2023
1/29/2024
7/29/2024
1/9/2025
7/30/2025
Date


LP-4
Measured Leachate Column Thicknesses (Feet)
6.00
5.50
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
1/26/2012
7/22/2012
1/29/2013
7/24/2013
1/28/2014
7/29/2014
1/23/2015
7/31/2015
1/14/2016
7/15/2016
1/23/2017
7/28/2017
1/10/2018
7/24/2018
1/16/2019
7/31/2019
1/31/2020
7/20/2020
1/27/2021
7/26/2021
1/24/2022
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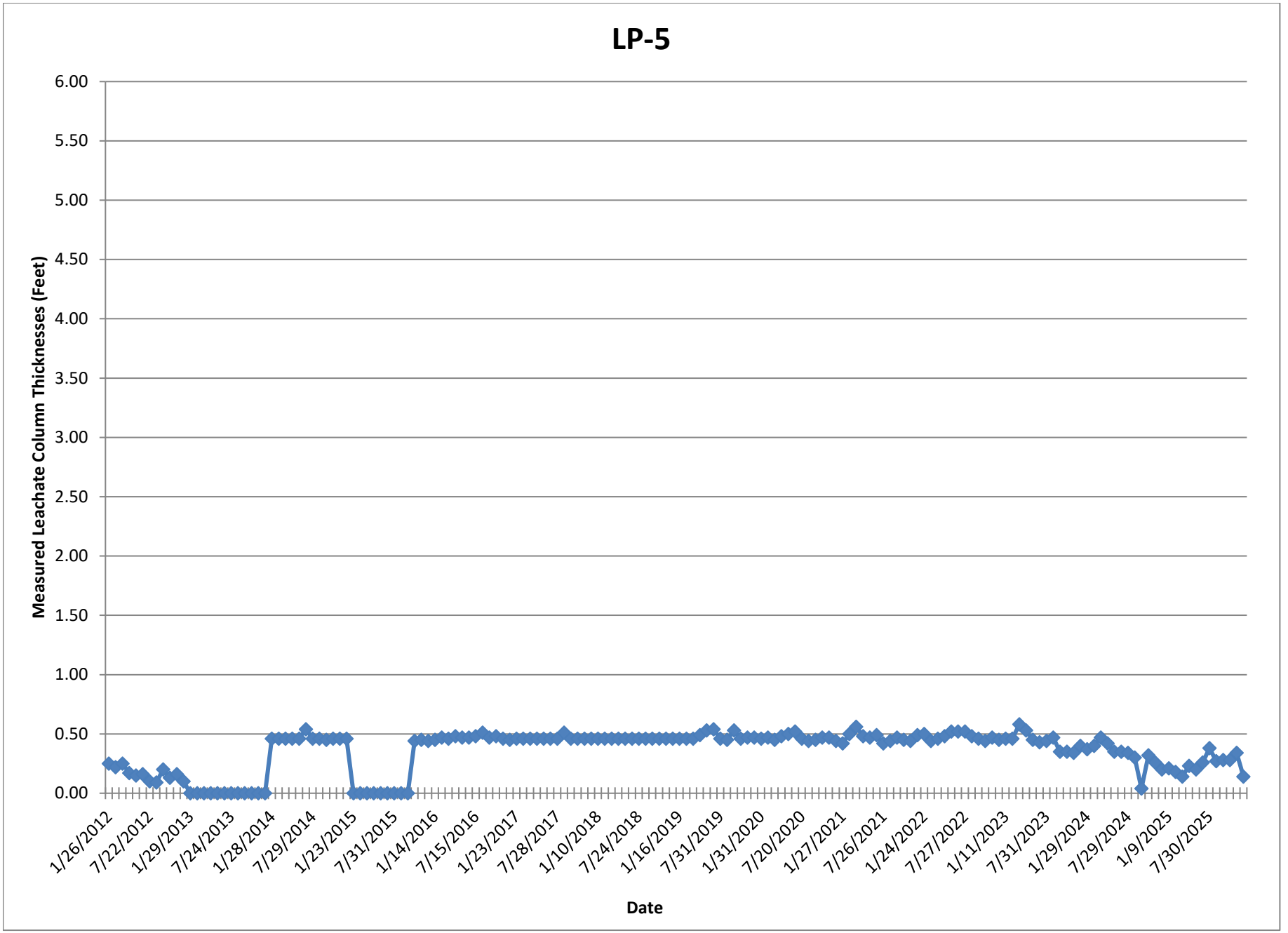
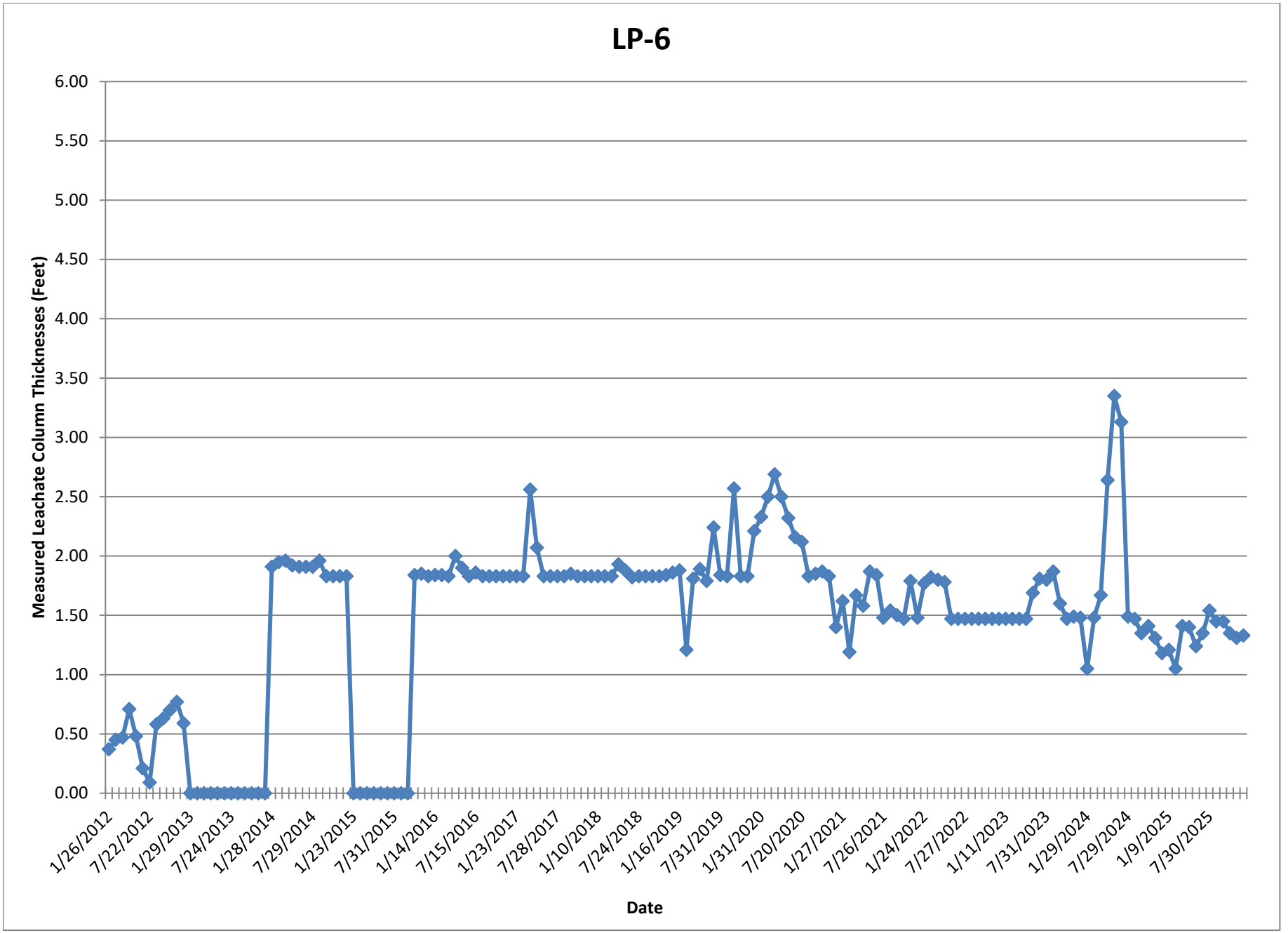
7/29/2024
1/9/2025
7/30/2025
Date


LP-5
Measured Leachate Column Thicknesses (Feet)
6.00
5.50
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
1/26/2012
7/22/2012
1/29/2013
7/24/2013
1/28/2014
7/29/2014
1/23/2015
7/31/2015
1/14/2016
7/15/2016
1/23/2017
7/28/2017
1/10/2018
7/24/2018
1/16/2019
7/31/2019
1/31/2020
7/20/2020
1/27/2021
7/26/2021
1/24/2022
7/27/2022
1/11/2023
7/31/2023
1/29/2024
7/29/2024
1/9/2025
7/30/2025
Date


LP-6
Measured Leachate Column Thicknesses (Feet)
6.00
5.50
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
1/26/2012
7/22/2012
1/29/2013
7/24/2013
1/28/2014
7/29/2014
1/23/2015
7/31/2015
1/14/2016
7/15/2016
1/23/2017
7/28/2017
1/10/2018
7/24/2018
1/16/2019
7/31/2019
1/31/2020
7/20/2020
1/27/2021
7/26/2021
1/24/2022
7/27/2022
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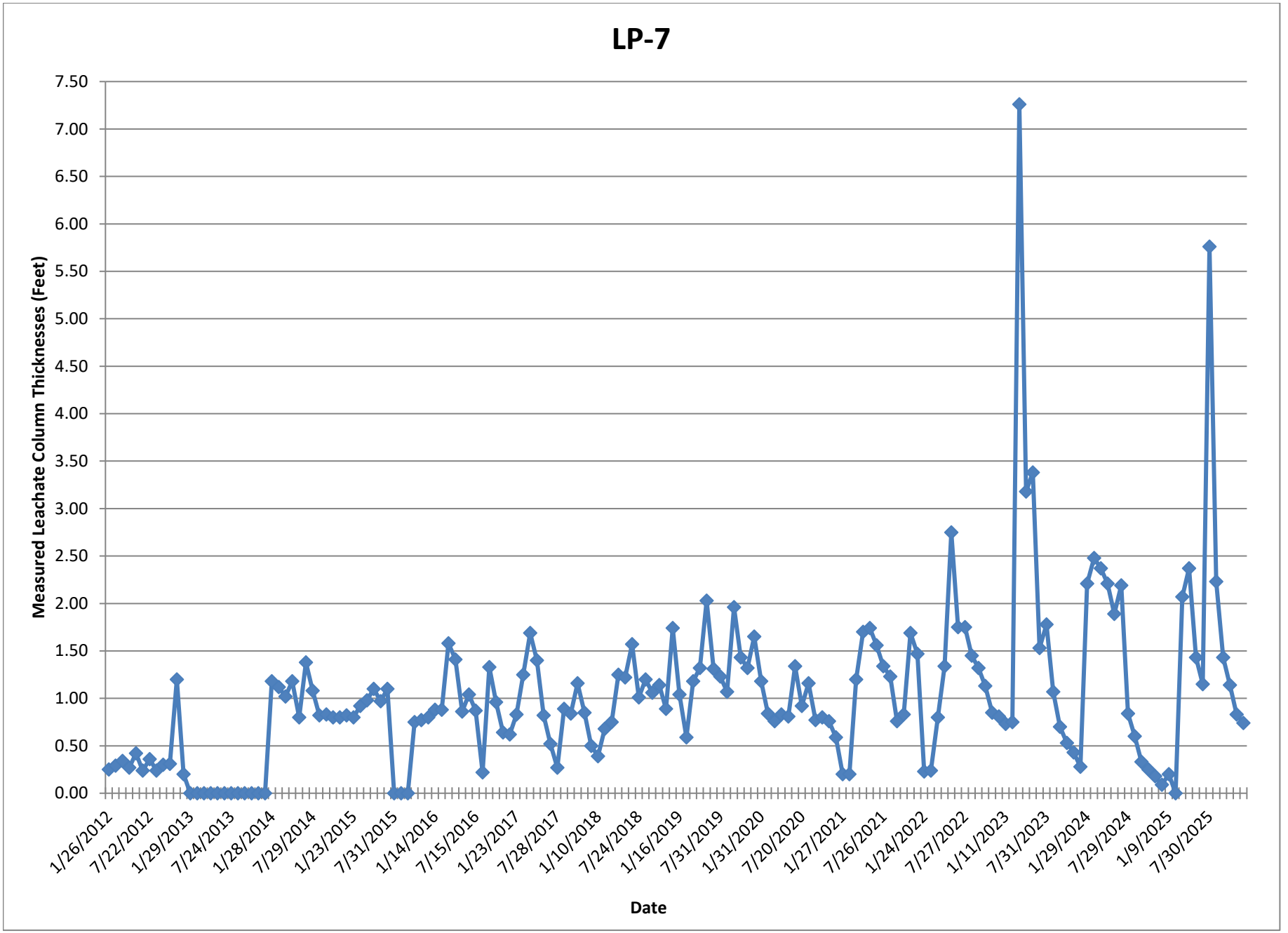
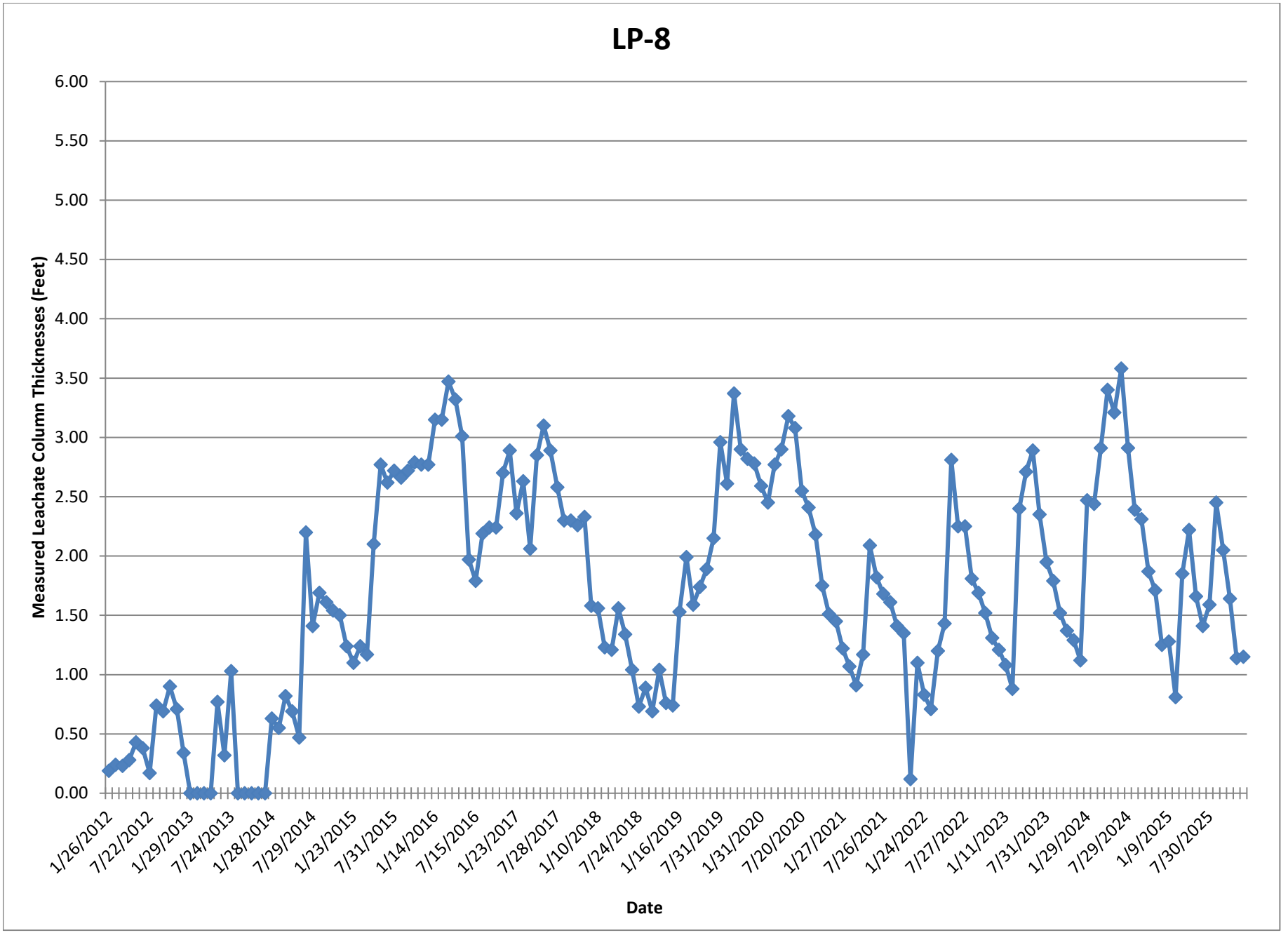
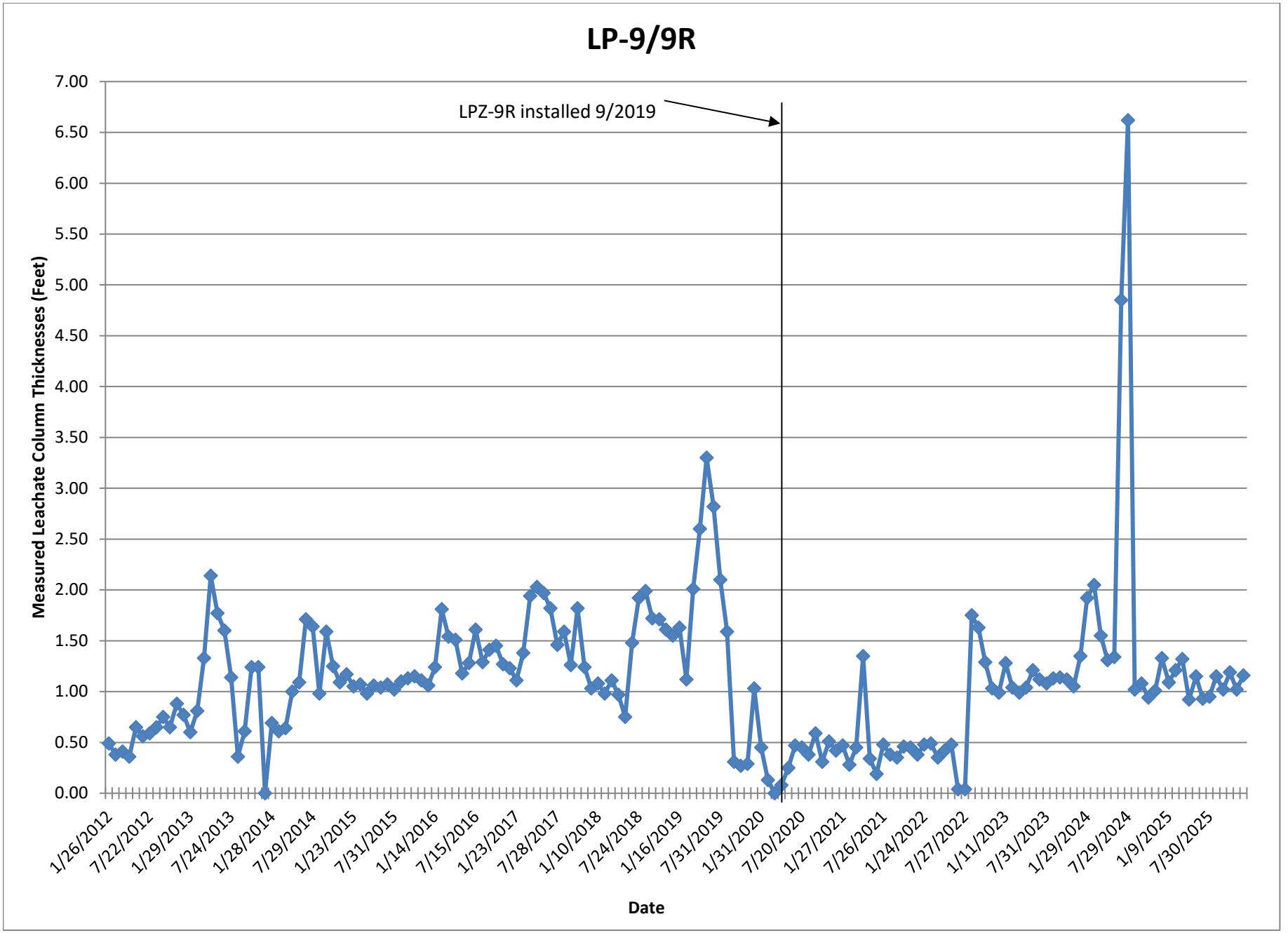
7/31/2023
1/29/2024
7/29/2024
1/9/2025
7/30/2025
Date


LP-7
Measured Leachate Column Thicknesses (Feet)
7.50
7.00
6.50
6.00
5.50
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
1/26/2012
7/22/2012
1/29/2013
7/24/2013
1/28/2014
7/29/2014
1/23/2015
7/31/2015
1/14/2016
7/15/2016
1/23/2017
7/28/2017
1/10/2018
7/24/2018
1/16/2019
7/31/2019
1/31/2020
7/20/2020
1/27/2021
7/26/2021
1/24/2022
7/27/2022
1/11/2023
7/31/2023
1/29/2024
7/29/2024
1/9/2025
7/30/2025
Date


LP-8
Measured Leachate Column Thicknesses (Feet)
6.00
5.50
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
1/26/2012
7/22/2012
1/29/2013
7/24/2013
1/28/2014
7/29/2014
1/23/2015
7/31/2015
1/14/2016
7/15/2016
1/23/2017
7/28/2017
1/10/2018
7/24/2018
1/16/2019
7/31/2019
1/31/2020
7/20/2020
1/27/2021
7/26/2021
1/24/2022
7/27/2022
1/11/2023
7/31/2023
1/29/2024
7/29/2024
1/9/2025
7/30/2025
Date


LP-9/9R
LPZ-9R installed 9/2019
Measured Leachate Column Thicknesses (Feet)
7.00
6.50
6.00
5.50
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
1/26/2012
7/22/2012
1/29/2013
7/24/2013
1/28/2014
7/29/2014
1/23/2015
7/31/2015
1/14/2016
7/15/2016
1/23/2017
7/28/2017
1/10/2018
7/24/2018
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7/31/2019
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1/24/2022
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7/30/2025
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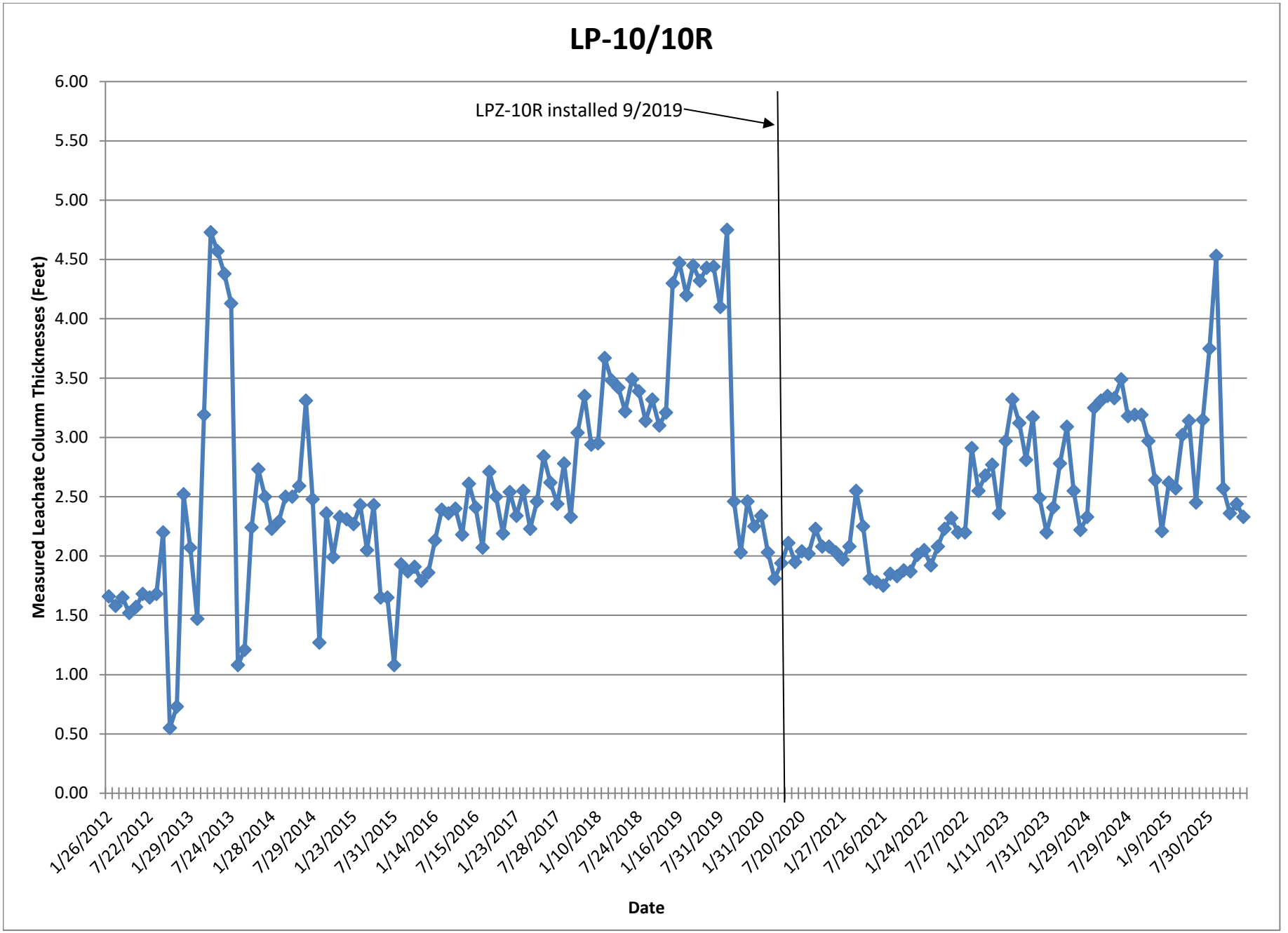
LP-10/10R
LPZ-10R installed 9/2019
Measured Leachate Column Thicknesses (Feet)
6.00
5.50
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
1/26/2012
7/22/2012
1/29/2013
7/24/2013
1/28/2014
7/29/2014
1/23/2015
7/31/2015
1/14/2016
7/15/2016
1/23/2017
7/28/2017
1/10/2018
7/24/2018
1/16/2019
7/31/2019
1/31/2020
7/20/2020
1/27/2021
7/26/2021
1/24/2022
7/27/2022
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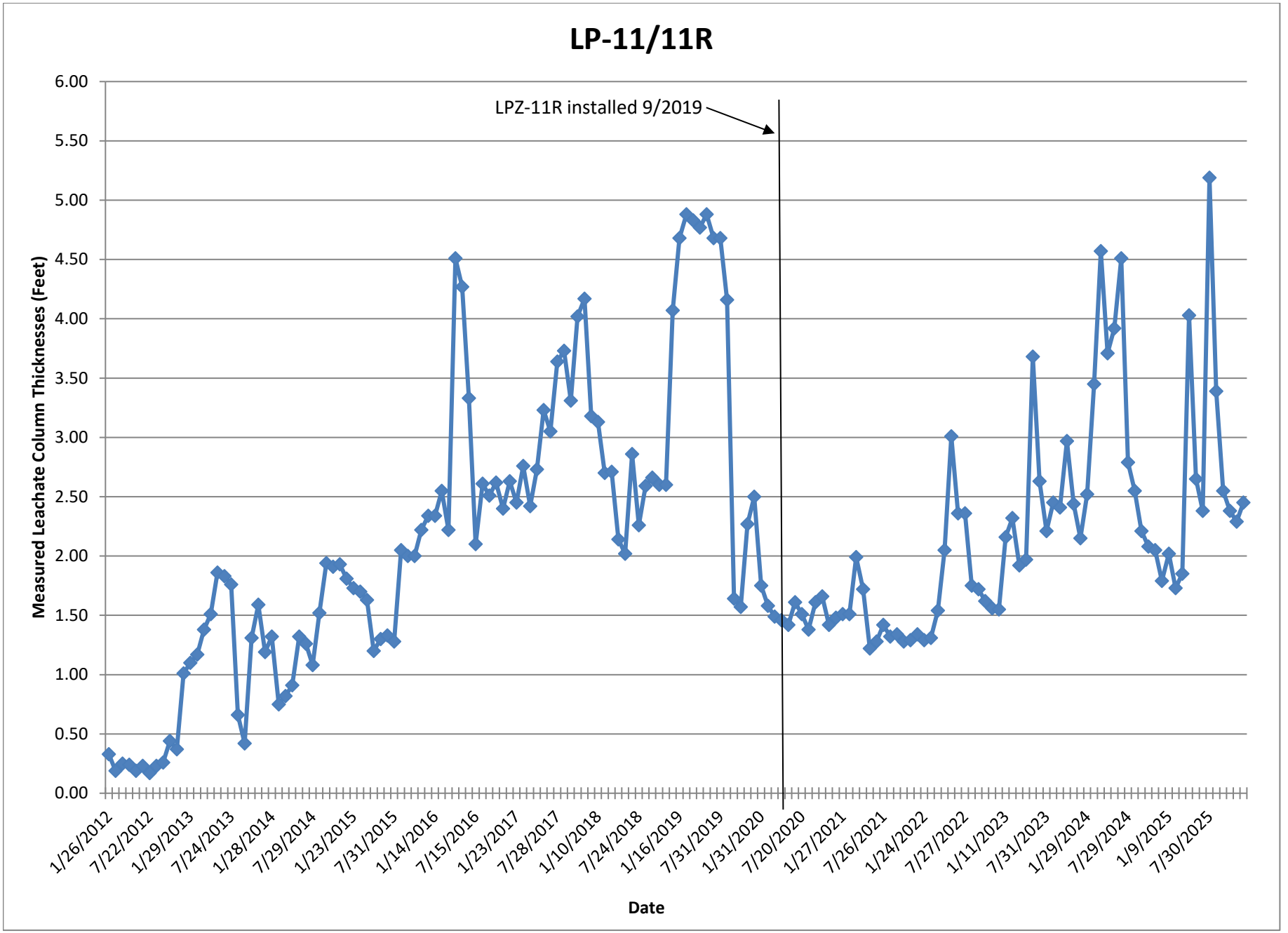
7/31/2023
1/29/2024
7/29/2024
1/9/2025
7/30/2025
Date


LP-11/11R
LPZ-11R installed 9/2019
Measured Leachate Column Thicknesses (Feet)
6.00
5.50
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
1/26/2012
7/22/2012
1/29/2013
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1/23/2015
7/31/2015
1/14/2016
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1/23/2017
7/28/2017
1/10/2018
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1/27/2021
7/26/2021
1/24/2022
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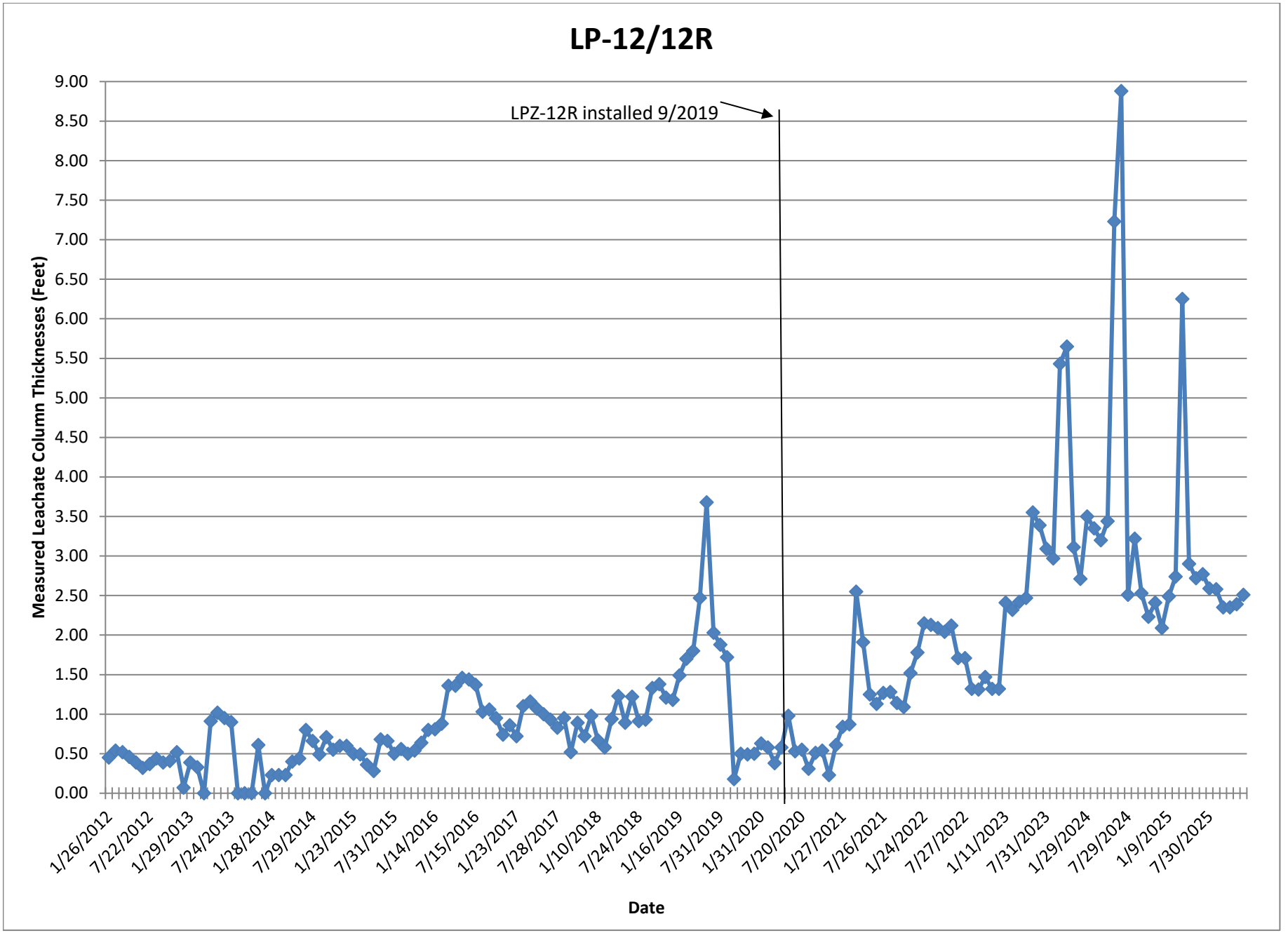
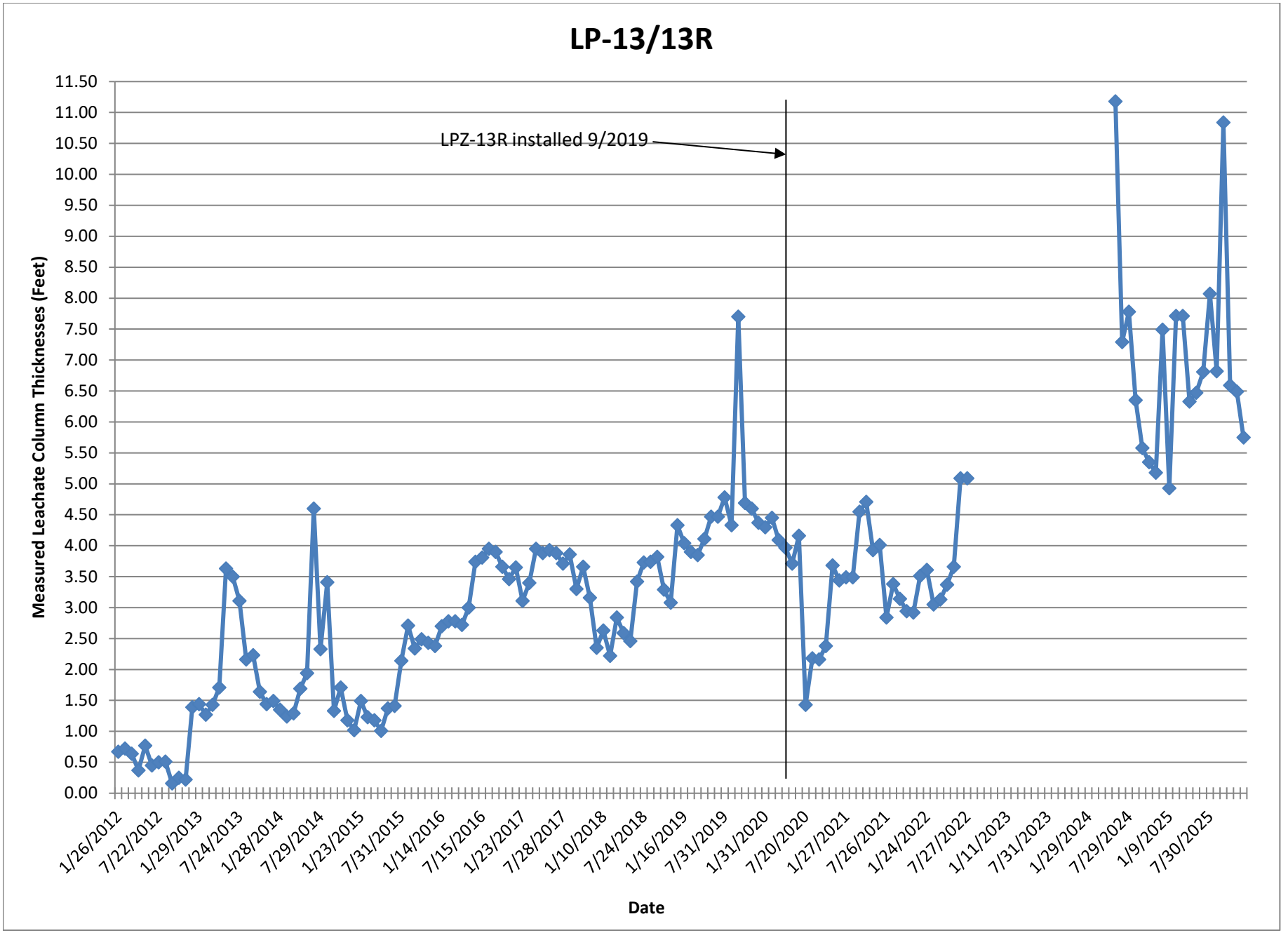
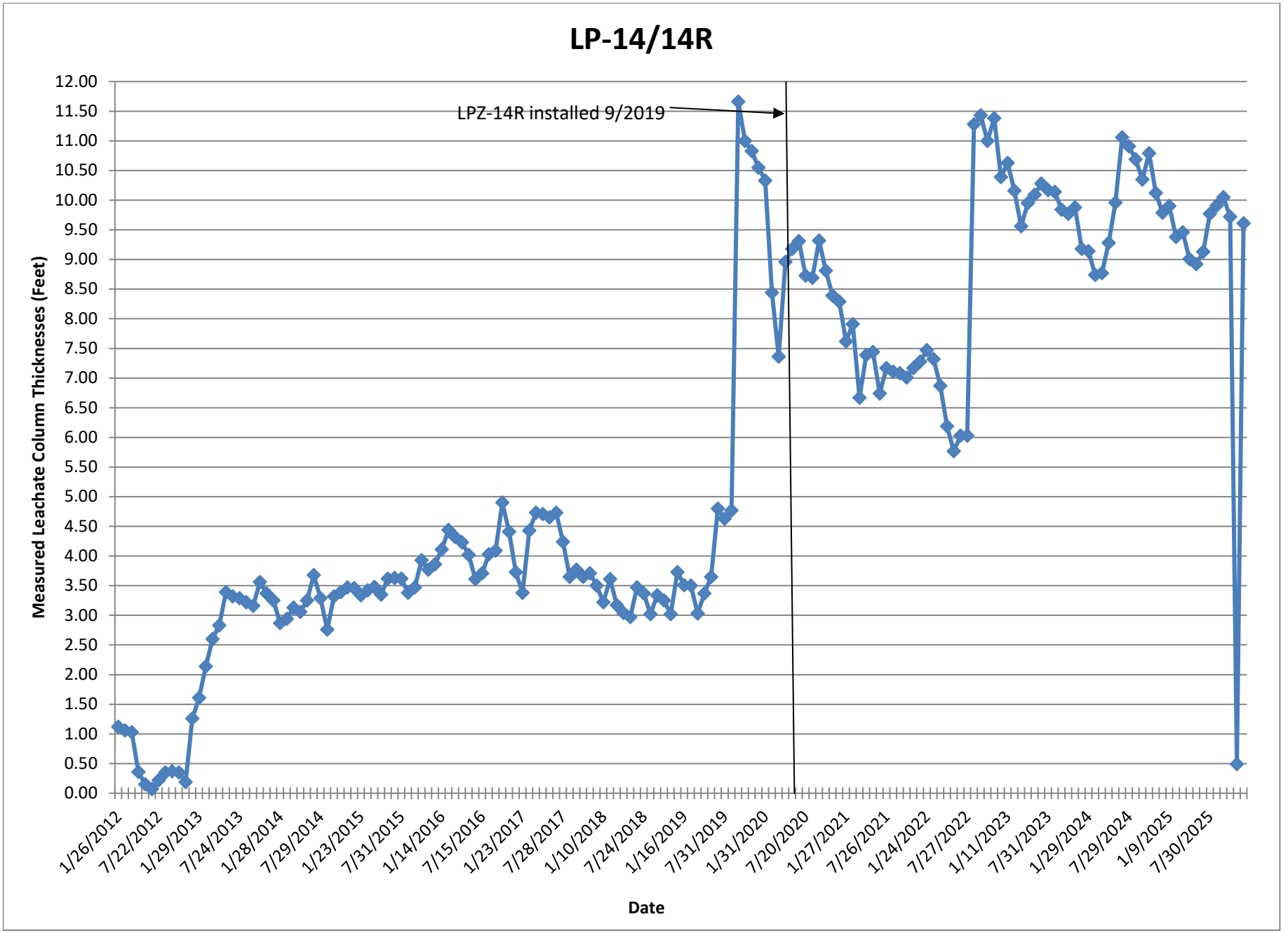
1/9/2025
7/30/2025
Date


LP-12/12R
LPZ-12R installed 9/2019
Measured Leachate Column Thicknesses (Feet)
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
1/26/2012
7/22/2012
1/29/2013
7/24/2013
1/28/2014
7/29/2014
1/23/2015
7/31/2015
1/14/2016
7/15/2016
1/23/2017
7/28/2017
1/10/2018
7/24/2018
1/16/2019
7/31/2019
1/31/2020
7/20/2020
1/27/2021
7/26/2021
1/24/2022
7/27/2022
1/11/2023
7/31/2023
1/29/2024
7/29/2024
1/9/2025
7/30/2025
Date


LP-13/13R
LPZ-13R installed 9/2019
Measured Leachate Column Thicknesses (Feet)
11.50
11.00
10.50
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
1/26/2012
7/22/2012
1/29/2013
7/24/2013
1/28/2014
7/29/2014
1/23/2015
7/31/2015
1/14/2016
7/15/2016
1/23/2017
7/28/2017
1/10/2018
7/24/2018
1/16/2019
7/31/2019
1/31/2020
7/20/2020
1/27/2021
7/26/2021
1/24/2022
7/27/2022
1/11/2023
7/31/2023
1/29/2024
7/29/2024
1/9/2025
7/30/2025
Date


LP-14/14R
LPZ-14R installed 9/2019
Measured Leachate Column Thicknesses (Feet)
12.00
11.50
11.00
10.50
10.00
9.50
9.00
8.50
8.00
7.50
7.00
6.50
6.00
5.50
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
1/26/2012
7/22/2012
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1/14/2016
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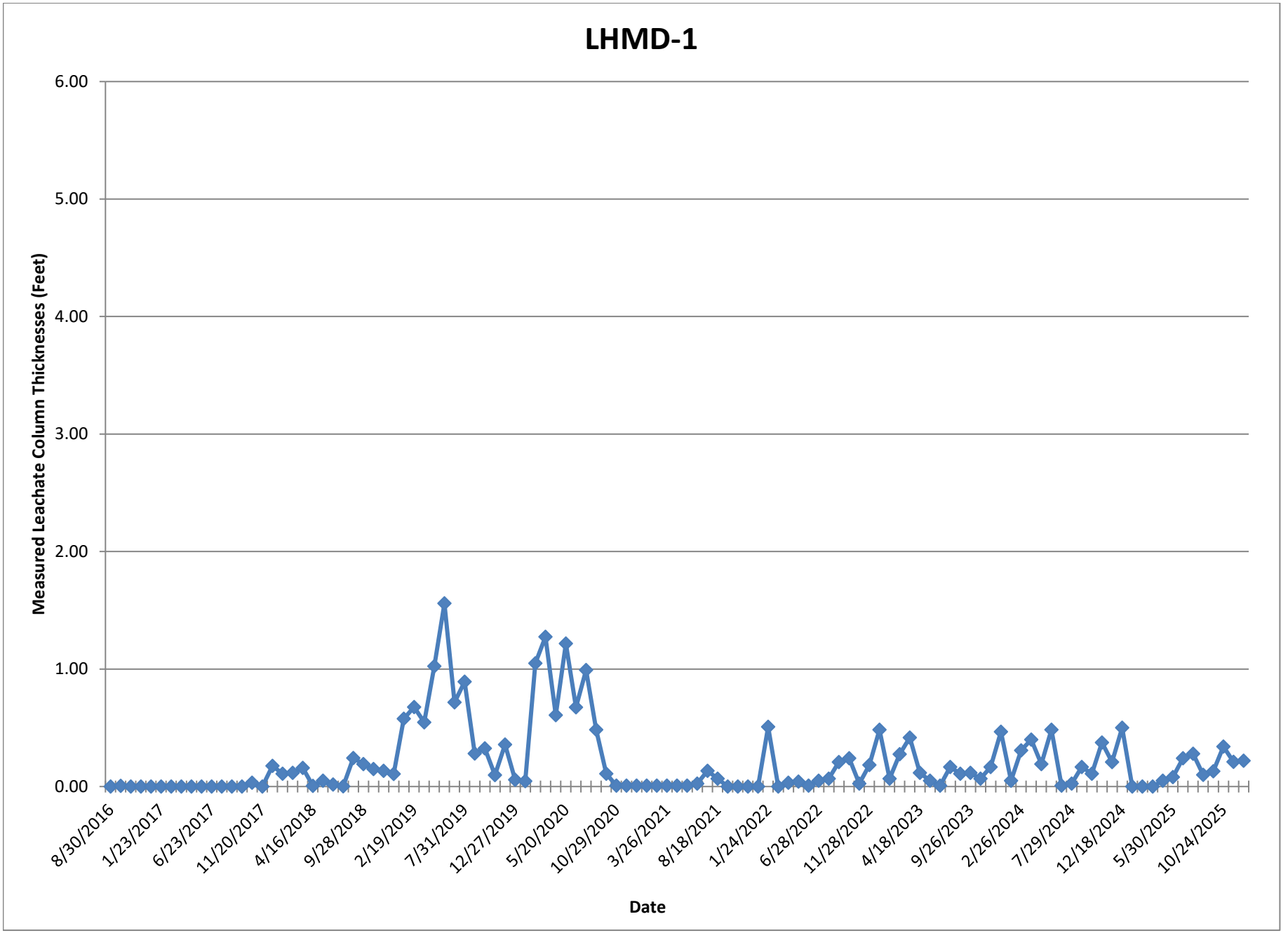
7/24/2018
1/16/2019
7/31/2019
1/31/2020
7/20/2020
1/27/2021
7/26/2021
1/24/2022
7/27/2022
1/11/2023
7/31/2023
1/29/2024
7/29/2024
1/9/2025
7/30/2025
Date


LHMD-1
Measured Leachate Column Thicknesses (Feet)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
8/30/2016
1/23/2017
6/23/2017
11/20/2017
4/16/2018
9/28/2018
2/19/2019
7/31/2019
12/27/2019
5/20/2020
10/29/2020
3/26/2021
8/18/2021
1/24/2022
6/28/2022
11/28/2022
4/18/2023
9/26/2023
2/26/2024
7/29/2024
12/18/2024
5/30/2025
10/24/2025
Date

Attachment C

Leachate Analytical Data Sheets

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

NWIASW - Annual Leachate
Leachate Lagoon

JOB NUMBER

310-314127-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

my EOL

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
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Job Narrative
310-314127-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The sample was received on 8/26/2025 8:35 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 8.4°C.

Receipt Exceptions
The following sample was received at the laboratory outside the required temperature criteria: Annual Leachate (310-314127-1). This does not meet regulatory requirements.

GC/MS VOA
Method 624.1_PREC: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container(s): Annual Leachate (310-314127-1).

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

GC/MS Semi VOA
Method 625.1_PREC: The continuing calibration verification (CCV) associated with batch 310-465129 recovered above the upper control limit for 3,3'-Dichlorobenzidine(143%R). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is:(CCV 310-465129/3).

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

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

Pesticides
Method 608.3_Pest_PREC: The continuing calibration verification (CCV) associated with batch 310-465446 recovered above the upper control limit for 4,4'-DDT and Methoxychlor. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

Metals
Method 200.7_CWA: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of >2: Annual Leachate (310-314127-1). The sample(s) was preserved to the appropriate pH in the laboratory.

Method 200.7_CWA: The initial continuing calibration verification (CCVH) associated with batch 310-465224 recovered above the upper control limit for Silver. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 200.7_CWA: The following sample(s) was diluted due to the presence of an interferent. Annual Leachate (310-314127-1). Elevated reporting limits (RLs) are provided.

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

General Chemistry
Method SM5210B_Calc: The USB dilution water D.O. depletion was greater than 0.2 mg/L. The associated sample results in batch 310-464843 are qualified and reported. The USB depletion was 0.98 mg/L.

Method SM5210B_Calc: The glucose-glutamic acid standard (LCS) recovered outside the recovery limits specified in the method in batch 310-464843. The method holding time had expired, therefore the analysis was not repeated. The data was qualified and reported.

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

Sample Summary

Client: SCS Engineers
Project/Site: NWIASW - Annual Leachate

Job ID: 310-314127-1
SDG: Leachate Lagoon

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
310-314127-1	Annual Leachate	Water	08/25/25 08:45	08/26/25 08:35	Iowa

Detection Summary

Client: SCS Engineers
Project/Site: NWIASW - Annual Leachate

Job ID: 310-314127-1
SDG: Leachate Lagoon

Client Sample ID: Annual Leachate

Lab Sample ID: 310-314127-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.708		0.0500		mg/L	5		200.7 Rev 4.4	Total/NA
Iron	7.36		2.50		mg/L	5		200.7 Rev 4.4	Total/NA
Nickel	0.261		0.250		mg/L	5		200.7 Rev 4.4	Total/NA
Ammonia as N	19.4		5.00		mg/L	10		350.1	Total/NA
Total Kjeldahl Nitrogen	39.9		5.00		mg/L	1		351.2	Total/NA
Total Suspended Solids	42.0		15.0		mg/L	1		I-3765-85	Total/NA
Total Dissolved Solids	3780		250		mg/L	1		SM 2540C	Total/NA
pH	8.5	HF	1.0		SU	1		SM 4500 H+ B	Total/NA
Biochemical Oxygen Demand	17.4	b *-	3.00		mg/L	1		SM 5210B	Total/NA
Total Organic Carbon	180		40.0		mg/L	40		SM 5310C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Annual Leachate

Date Collected: 08/25/25 08:45
Date Received: 08/26/25 08:35

Lab Sample ID: 310-314127-1

Matrix: Water

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	<10.0		10.0		ug/L			08/27/25 22:11	1
Acrylonitrile	<5.00		5.00		ug/L			08/27/25 22:11	1
Benzene	<0.500		0.500		ug/L			08/27/25 22:11	1
Bromodichloromethane	<1.00		1.00		ug/L			08/27/25 22:11	1
Bromoform	<5.00		5.00		ug/L			08/27/25 22:11	1
Bromomethane	<4.00		4.00		ug/L			08/27/25 22:11	1
Carbon tetrachloride	<2.00		2.00		ug/L			08/27/25 22:11	1
Chlorobenzene	<1.00		1.00		ug/L			08/27/25 22:11	1
Chlorodibromomethane	<5.00		5.00		ug/L			08/27/25 22:11	1
Chloroethane	<4.00		4.00		ug/L			08/27/25 22:11	1
2-Chloroethyl vinyl ether	<2.00		2.00		ug/L			08/27/25 22:11	1
Chloroform	<3.00		3.00		ug/L			08/27/25 22:11	1
Chloromethane	<3.00		3.00		ug/L			08/27/25 22:11	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			08/27/25 22:11	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			08/27/25 22:11	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			08/27/25 22:11	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			08/27/25 22:11	1
1,1-Dichloroethane	<1.00		1.00		ug/L			08/27/25 22:11	1
1,2-Dichloroethane	<1.00		1.00		ug/L			08/27/25 22:11	1
1,1-Dichloroethene	<2.00		2.00		ug/L			08/27/25 22:11	1
1,2-Dichloropropane	<1.00		1.00		ug/L			08/27/25 22:11	1
1,3-Dichloropropene, Total	<5.00		5.00		ug/L			08/27/25 22:11	1
Ethylbenzene	<1.00		1.00		ug/L			08/27/25 22:11	1
Methylene Chloride	<5.00		5.00		ug/L			08/27/25 22:11	1
Naphthalene	<5.00		5.00		ug/L			08/27/25 22:11	1
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			08/27/25 22:11	1
Tetrachloroethene	<1.00		1.00		ug/L			08/27/25 22:11	1
Toluene	<1.00		1.00		ug/L			08/27/25 22:11	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			08/27/25 22:11	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			08/27/25 22:11	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			08/27/25 22:11	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			08/27/25 22:11	1
Trichloroethene	<1.00		1.00		ug/L			08/27/25 22:11	1
Vinyl chloride	<1.00		1.00		ug/L			08/27/25 22:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/27/25 22:11*	*1*
Dibromofluoromethane (Surr)	*99*		*76 - 130*		*08/27/25 22:11*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/27/25 22:11*	*1*

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
1,2-Dichlorobenzene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
1,2-Diphenylhydrazine	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
1,3-Dichlorobenzene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
1,4-Dichlorobenzene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
2,4,5-Trichlorophenol	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
2,4,6-Trichlorophenol	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
2,4-Dichlorophenol	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1

Client: SCS Engineers
Project/Site: NWIASW - Annual Leachate

Job ID: 310-314127-1
SDG: Leachate Lagoon

Client Sample ID: Annual Leachate
Date Collected: 08/25/25 08:45
Date Received: 08/26/25 08:35

Lab Sample ID: 310-314127-1
Matrix: Water

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
2,4-Dinitrophenol	<19.2		19.2		ug/L		08/27/25 07:17	08/29/25 10:55	1
2,4-Dinitrotoluene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
2,6-Dinitrotoluene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
2-Chloronaphthalene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
2-Chlorophenol	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
2-Nitrophenol	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
3,3'-Dichlorobenzidine	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
4,6-Dinitro-2-methylphenol	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
4-Bromophenyl phenyl ether	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
4-Chloro-3-methylphenol	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
4-Chlorophenyl phenyl ether	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
4-Nitrophenol	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Acenaphthene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Acenaphthylene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Anthracene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Benzidine	<19.2		19.2		ug/L		08/27/25 07:17	08/29/25 10:55	1
Benzo[a]anthracene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Benzo[a]pyrene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Benzo[b]fluoranthene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Benzo[g,h,i]perylene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Benzo[k]fluoranthene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Benzoic acid	<96.2		96.2		ug/L		08/27/25 07:17	08/29/25 10:55	1
Benzyl alcohol	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Bis(2-chloroethoxy)methane	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Bis(2-chloroethyl)ether	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
bis (2-chloroisopropyl) ether	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Bis(2-ethylhexyl) phthalate	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Butyl benzyl phthalate	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Chrysene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Dibenz(a,h)anthracene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Dibenzofuran	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Diethyl phthalate	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Dimethyl phthalate	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Di-n-butyl phthalate	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Di-n-octyl phthalate	<19.2		19.2		ug/L		08/27/25 07:17	08/29/25 10:55	1
Fluoranthene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Fluorene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Hexachlorobenzene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Hexachlorobutadiene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Hexachlorocyclopentadiene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Hexachloroethane	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Indeno[1,2,3-cd]pyrene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Isophorone	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Naphthalene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Nitrobenzene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
N-Nitrosodimethylamine	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
N-Nitrosodi-n-propylamine	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
N-Nitrosodiphenylamine	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1

Client Sample ID: Annual Leachate

Date Collected: 08/25/25 08:45
Date Received: 08/26/25 08:35

Lab Sample ID: 310-314127-1

Matrix: Water

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Phenanthrene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Phenol	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1
Pyrene	<9.62		9.62		ug/L		08/27/25 07:17	08/29/25 10:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*59*		*21 - 110*	*08/27/25 07:17*	*08/29/25 10:55*	*1*
Phenol-d5 (Surr)	*49*		*21 - 110*	*08/27/25 07:17*	*08/29/25 10:55*	*1*
Nitrobenzene-d5 (Surr)	*88*		*39 - 140*	*08/27/25 07:17*	*08/29/25 10:55*	*1*
2-Fluorobiphenyl (Surr)	*80*		*33 - 126*	*08/27/25 07:17*	*08/29/25 10:55*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*20 - 144*	*08/27/25 07:17*	*08/29/25 10:55*	*1*
Terphenyl-d14 (Surr)	*97*		*13 - 150*	*08/27/25 07:17*	*08/29/25 10:55*	*1*

Method: EPA 608.3 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0627		0.0627		ug/L		08/27/25 11:33	09/03/25 13:21	1
4,4'-DDE	<0.0627		0.0627		ug/L		08/27/25 11:33	09/03/25 13:21	1
4,4'-DDT	<0.0627		0.0627		ug/L		08/27/25 11:33	09/03/25 13:21	1
Aldrin	<0.0627		0.0627		ug/L		08/27/25 11:33	09/03/25 13:21	1
alpha-BHC	<0.0627		0.0627		ug/L		08/27/25 11:33	09/03/25 13:21	1
beta-BHC	<0.0627		0.0627		ug/L		08/27/25 11:33	09/03/25 13:21	1
Chlordane (technical)	<1.96		1.96		ug/L		08/27/25 11:33	09/03/25 13:21	1
delta-BHC	<0.0627		0.0627		ug/L		08/27/25 11:33	09/03/25 13:21	1
Dieldrin	<0.0627		0.0627		ug/L		08/27/25 11:33	09/03/25 13:21	1
Endosulfan I	<0.0627	*1	0.0627		ug/L		08/27/25 11:33	09/03/25 13:21	1
Endosulfan II	<0.0627		0.0627		ug/L		08/27/25 11:33	09/03/25 13:21	1
Endosulfan sulfate	<0.0627		0.0627		ug/L		08/27/25 11:33	09/03/25 13:21	1
Endrin	<0.0627		0.0627		ug/L		08/27/25 11:33	09/03/25 13:21	1
Endrin aldehyde	<0.0627		0.0627		ug/L		08/27/25 11:33	09/03/25 13:21	1
gamma-BHC (Lindane)	<0.0627		0.0627		ug/L		08/27/25 11:33	09/03/25 13:21	1
Heptachlor	<0.0627	*1	0.0627		ug/L		08/27/25 11:33	09/03/25 13:21	1
Heptachlor epoxide	<0.0627		0.0627		ug/L		08/27/25 11:33	09/03/25 13:21	1
Methoxychlor	<0.0627		0.0627		ug/L		08/27/25 11:33	09/03/25 13:21	1
Toxaphene	<1.96		1.96		ug/L		08/27/25 11:33	09/03/25 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*48*		*10 - 126*	*08/27/25 11:33*	*09/03/25 13:21*	*1*
Tetrachloro-m-xylene	*49*		*10 - 124*	*08/27/25 11:33*	*09/03/25 13:21*	*1*

Method: EPA 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.784		0.784		ug/L		08/27/25 11:33	09/03/25 13:21	1
PCB-1221	<0.784		0.784		ug/L		08/27/25 11:33	09/03/25 13:21	1
PCB-1232	<0.784		0.784		ug/L		08/27/25 11:33	09/03/25 13:21	1
PCB-1242	<0.784		0.784		ug/L		08/27/25 11:33	09/03/25 13:21	1
PCB-1248	<0.784		0.784		ug/L		08/27/25 11:33	09/03/25 13:21	1
PCB-1254	<0.784		0.784		ug/L		08/27/25 11:33	09/03/25 13:21	1
PCB-1260	<0.784		0.784		ug/L		08/27/25 11:33	09/03/25 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*48*		*10 - 126*	*08/27/25 11:33*	*09/03/25 13:21*	*1*

Client Sample ID: Annual Leachate

Date Collected: 08/25/25 08:45
Date Received: 08/26/25 08:35

Lab Sample ID: 310-314127-1

Matrix: Water

Method: EPA 608.3 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*49*		*10 - 124*	*08/27/25 11:33*	*09/03/25 13:21*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.400		0.400		mg/L		08/28/25 08:30	08/29/25 10:40	5
Barium	**0.708**		0.0500		mg/L		08/28/25 08:30	08/29/25 10:40	5
Cadmium	<0.100		0.100		mg/L		08/28/25 08:30	08/29/25 10:40	5
Chromium	<0.100		0.100		mg/L		08/28/25 08:30	08/29/25 10:40	5
Copper	<0.100		0.100		mg/L		08/28/25 08:30	08/29/25 10:40	5
Iron	**7.36**		2.50		mg/L		08/28/25 08:30	08/29/25 10:40	5
Lead	<0.500		0.500		mg/L		08/28/25 08:30	08/29/25 10:40	5
Nickel	**0.261**		0.250		mg/L		08/28/25 08:30	08/29/25 10:40	5
Selenium	<0.500		0.500		mg/L		08/28/25 08:30	08/29/25 10:40	5
Silver	<0.100	^+	0.100		mg/L		08/28/25 08:30	08/29/25 10:40	5
Zinc	<0.200		0.200		mg/L		08/28/25 08:30	08/29/25 10:40	5

Method: EPA 245.2 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		08/27/25 12:30	08/28/25 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	**19.4**		5.00		mg/L			08/28/25 14:12	10
Total Kjeldahl Nitrogen (EPA 351.2)	**39.9**		5.00		mg/L		08/27/25 05:38	08/27/25 16:54	1
Total Suspended Solids (USGS I-3765-85)	**42.0**		15.0		mg/L			08/28/25 13:48	1
Total Dissolved Solids (SM 2540C)	**3780**		250		mg/L			08/27/25 17:03	1
Biochemical Oxygen Demand (SM 5210B)	**17.4**	**b *-**	3.00		mg/L			08/27/25 07:20	1
Total Organic Carbon (SM 5310C)	**180**		40.0		mg/L			08/28/25 21:18	40

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**8.5**	**HF**	1.0		SU			08/26/25 10:28	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: NWIASW - Annual Leachate

Job ID: 310-314127-1
SDG: Leachate Lagoon

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

General Chemistry

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
b	Result Detected in the Unseeded Control blank (USB).
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

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: NWIASW - Annual Leachate

Job ID: 310-314127-1
SDG: Leachate Lagoon

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(76-130)	(80-120)
310-314127-1	Annual Leachate	100	99	101
LCS 310-464940/7	Lab Control Sample	103	98	99
LCS 310-464940/8	Lab Control Sample	100	101	97
MB 310-464940/6	Method Blank	101	99	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(21-110)	(21-110)	(39-140)	(33-126)	(20-144)	(13-150)
310-314127-1	Annual Leachate	59	49	88	80	81	97

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 608.3 - Organochlorine Pesticides in Water

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(10-126)	(10-124)
310-314127-1	Annual Leachate	48	49
LCS 310-464920/4-A	Lab Control Sample	63	83
LCSD 310-464920/5-A	Lab Control Sample Dup	45	54
MB 310-464920/1-A	Method Blank	39	44

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(10-126)	(10-124)
310-314127-1	Annual Leachate	48	49
LCS 310-464920/2-A	Lab Control Sample	47	57
LCSD 310-464920/3-A	Lab Control Sample Dup	59	68
MB 310-464920/1-A	Method Blank	39	44

Surrogate Legend

Surrogate Summary

Client: SCS Engineers
Project/Site: NWIASW - Annual Leachate

Job ID: 310-314127-1
SDG: Leachate Lagoon

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 310-464940/6
Matrix: Water
Analysis Batch: 464940

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	<10.0		10.0		ug/L			08/27/25 15:44	1
Acrylonitrile	<5.00		5.00		ug/L			08/27/25 15:44	1
Benzene	<0.500		0.500		ug/L			08/27/25 15:44	1
Bromodichloromethane	<1.00		1.00		ug/L			08/27/25 15:44	1
Bromoform	<5.00		5.00		ug/L			08/27/25 15:44	1
Bromomethane	<4.00		4.00		ug/L			08/27/25 15:44	1
Carbon tetrachloride	<2.00		2.00		ug/L			08/27/25 15:44	1
Chlorobenzene	<1.00		1.00		ug/L			08/27/25 15:44	1
Chlorodibromomethane	<5.00		5.00		ug/L			08/27/25 15:44	1
Chloroethane	<4.00		4.00		ug/L			08/27/25 15:44	1
2-Chloroethyl vinyl ether	<2.00		2.00		ug/L			08/27/25 15:44	1
Chloroform	<3.00		3.00		ug/L			08/27/25 15:44	1
Chloromethane	<3.00		3.00		ug/L			08/27/25 15:44	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			08/27/25 15:44	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			08/27/25 15:44	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			08/27/25 15:44	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			08/27/25 15:44	1
1,1-Dichloroethane	<1.00		1.00		ug/L			08/27/25 15:44	1
1,2-Dichloroethane	<1.00		1.00		ug/L			08/27/25 15:44	1
1,1-Dichloroethene	<2.00		2.00		ug/L			08/27/25 15:44	1
1,2-Dichloropropane	<1.00		1.00		ug/L			08/27/25 15:44	1
1,3-Dichloropropene, Total	<5.00		5.00		ug/L			08/27/25 15:44	1
Ethylbenzene	<1.00		1.00		ug/L			08/27/25 15:44	1
Methylene Chloride	<5.00		5.00		ug/L			08/27/25 15:44	1
Naphthalene	<5.00		5.00		ug/L			08/27/25 15:44	1
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			08/27/25 15:44	1
Tetrachloroethene	<1.00		1.00		ug/L			08/27/25 15:44	1
Toluene	<1.00		1.00		ug/L			08/27/25 15:44	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			08/27/25 15:44	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			08/27/25 15:44	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			08/27/25 15:44	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			08/27/25 15:44	1
Trichloroethene	<1.00		1.00		ug/L			08/27/25 15:44	1
Vinyl chloride	<1.00		1.00		ug/L			08/27/25 15:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/27/25 15:44*	*1*
Dibromofluoromethane (Surr)	*99*		*76 - 130*		*08/27/25 15:44*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/27/25 15:44*	*1*

Lab Sample ID: LCS 310-464940/7
Matrix: Water
Analysis Batch: 464940

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acrylonitrile	200	188.7		ug/L		94	60 - 140
Benzene	20.0	18.12		ug/L		91	71 - 125
Bromodichloromethane	20.0	17.73		ug/L		89	70 - 122

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 310-464940/7
Matrix: Water
Analysis Batch: 464940

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromoform	20.0	19.96		ug/L		100	70 - 122
Carbon tetrachloride	20.0	18.62		ug/L		93	70 - 130
Chlorobenzene	20.0	18.61		ug/L		93	74 - 120
Chlorodibromomethane	20.0	19.17		ug/L		96	70 - 121
2-Chloroethyl vinyl ether	20.0	18.88		ug/L		94	50 - 150
Chloroform	20.0	17.82		ug/L		89	72 - 122
cis-1,2-Dichloroethene	20.0	18.33		ug/L		92	72 - 123
1,2-Dichlorobenzene	20.0	18.60		ug/L		93	74 - 120
1,3-Dichlorobenzene	20.0	19.07		ug/L		95	71 - 120
1,4-Dichlorobenzene	20.0	18.20		ug/L		91	72 - 120
1,1-Dichloroethane	20.0	19.78		ug/L		99	70 - 127
1,2-Dichloroethane	20.0	19.51		ug/L		98	70 - 125
1,1-Dichloroethene	20.0	18.40		ug/L		92	64 - 134
1,2-Dichloropropane	20.0	18.97		ug/L		95	72 - 128
Ethylbenzene	20.0	18.25		ug/L		91	75 - 120
Methylene Chloride	20.0	17.38		ug/L		87	72 - 128
Naphthalene	20.0	19.45		ug/L		97	69 - 126
1,1,2,2-Tetrachloroethane	20.0	19.62		ug/L		98	70 - 122
Tetrachloroethene	20.0	19.65		ug/L		98	70 - 128
Toluene	20.0	18.34		ug/L		92	74 - 120
trans-1,2-Dichloroethene	20.0	18.25		ug/L		91	70 - 127
1,2,4-Trichlorobenzene	20.0	19.45		ug/L		97	69 - 125
1,1,1-Trichloroethane	20.0	18.09		ug/L		90	70 - 130
1,1,2-Trichloroethane	20.0	19.08		ug/L		95	75 - 121
Trichloroethene	20.0	17.91		ug/L		90	70 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*76 - 130*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: LCS 310-464940/8
Matrix: Water
Analysis Batch: 464940

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	15.54		ug/L		78	33 - 138
Chloroethane	20.0	19.78		ug/L		99	59 - 139
Chloromethane	20.0	17.69		ug/L		88	52 - 146
Vinyl chloride	20.0	21.39		ug/L		107	60 - 142

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*76 - 130*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 608.3 - Organochlorine Pesticides in Water

Lab Sample ID: MB 310-464920/1-A
Matrix: Water
Analysis Batch: 465446

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 464920

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0640		0.0640		ug/L		08/27/25 11:33	09/03/25 12:16	1
4,4'-DDE	<0.0640		0.0640		ug/L		08/27/25 11:33	09/03/25 12:16	1
4,4'-DDT	<0.0640		0.0640		ug/L		08/27/25 11:33	09/03/25 12:16	1
Aldrin	<0.0640		0.0640		ug/L		08/27/25 11:33	09/03/25 12:16	1
alpha-BHC	<0.0640		0.0640		ug/L		08/27/25 11:33	09/03/25 12:16	1
beta-BHC	<0.0640		0.0640		ug/L		08/27/25 11:33	09/03/25 12:16	1
Chlordane (technical)	<2.00		2.00		ug/L		08/27/25 11:33	09/03/25 12:16	1
delta-BHC	<0.0640		0.0640		ug/L		08/27/25 11:33	09/03/25 12:16	1
Dieldrin	<0.0640		0.0640		ug/L		08/27/25 11:33	09/03/25 12:16	1
Endosulfan I	<0.0640		0.0640		ug/L		08/27/25 11:33	09/03/25 12:16	1
Endosulfan II	<0.0640		0.0640		ug/L		08/27/25 11:33	09/03/25 12:16	1
Endosulfan sulfate	<0.0640		0.0640		ug/L		08/27/25 11:33	09/03/25 12:16	1
Endrin	<0.0640		0.0640		ug/L		08/27/25 11:33	09/03/25 12:16	1
Endrin aldehyde	<0.0640		0.0640		ug/L		08/27/25 11:33	09/03/25 12:16	1
gamma-BHC (Lindane)	<0.0640		0.0640		ug/L		08/27/25 11:33	09/03/25 12:16	1
Heptachlor	<0.0640		0.0640		ug/L		08/27/25 11:33	09/03/25 12:16	1
Heptachlor epoxide	<0.0640		0.0640		ug/L		08/27/25 11:33	09/03/25 12:16	1
Methoxychlor	<0.0640		0.0640		ug/L		08/27/25 11:33	09/03/25 12:16	1
Toxaphene	<2.00		2.00		ug/L		08/27/25 11:33	09/03/25 12:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*39*		*10 - 126*	*08/27/25 11:33*	*09/03/25 12:16*	*1*
Tetrachloro-m-xylene	*44*		*10 - 124*	*08/27/25 11:33*	*09/03/25 12:16*	*1*

Lab Sample ID: LCS 310-464920/4-A
Matrix: Water
Analysis Batch: 465446

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 464920

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	1.00	0.7674		ug/L		77	41 - 117
4,4'-DDE	1.00	0.7566		ug/L		76	35 - 110
4,4'-DDT	1.00	1.105		ug/L		111	26 - 123
Aldrin	1.00	0.6629		ug/L		66	42 - 110
alpha-BHC	1.00	0.7450		ug/L		75	37 - 110
beta-BHC	1.00	0.8319		ug/L		83	38 - 114
delta-BHC	1.00	0.7795		ug/L		78	34 - 114
Dieldrin	1.00	0.7994		ug/L		80	37 - 114
Endosulfan I	1.00	0.6253		ug/L		63	45 - 113
Endosulfan II	1.00	0.6566		ug/L		66	12 - 113
Endosulfan sulfate	1.00	1.013		ug/L		101	35 - 123
Endrin	1.00	0.8662		ug/L		87	36 - 119
Endrin aldehyde	1.00	0.7653		ug/L		77	37 - 111
gamma-BHC (Lindane)	1.00	0.7885		ug/L		79	35 - 113
Heptachlor	1.00	0.7839		ug/L		78	34 - 110
Heptachlor epoxide	1.00	0.8047		ug/L		80	38 - 114
Methoxychlor	1.00	1.047		ug/L		105	24 - 145

Method: 608.3 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: LCS 310-464920/4-A
Matrix: Water
Analysis Batch: 465446

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 464920

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	63		10 - 126
Tetrachloro-m-xylene	83		10 - 124

Lab Sample ID: LCSD 310-464920/5-A
Matrix: Water
Analysis Batch: 465446

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 464920

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			1.00	0.6182		ug/L		62	41 - 117	22	34
4,4'-DDE			1.00	0.6094		ug/L		61	35 - 110	22	35
4,4'-DDT			1.00	0.8796		ug/L		88	26 - 123	23	35
Aldrin			1.00	0.4961		ug/L		50	42 - 110	29	35
alpha-BHC			1.00	0.5720		ug/L		57	37 - 110	26	35
beta-BHC			1.00	0.6697		ug/L		67	38 - 114	22	35
delta-BHC			1.00	0.6285		ug/L		63	34 - 114	21	35
Dieldrin			1.00	0.6431		ug/L		64	37 - 114	22	35
Endosulfan I			1.00	0.4998		ug/L		50	45 - 113	22	28
Endosulfan II			1.00	0.5329		ug/L		53	12 - 113	21	35
Endosulfan sulfate			1.00	0.8268		ug/L		83	35 - 123	20	35
Endrin			1.00	0.6776		ug/L		68	36 - 119	24	35
Endrin aldehyde			1.00	0.6279		ug/L		63	37 - 111	20	35
gamma-BHC (Lindane)			1.00	0.6151		ug/L		62	35 - 113	25	35
Heptachlor			1.00	0.5908		ug/L		59	34 - 110	28	35
Heptachlor epoxide			1.00	0.6456		ug/L		65	38 - 114	22	26
Methoxychlor			1.00	0.8520		ug/L		85	24 - 145	21	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	45		10 - 126
Tetrachloro-m-xylene	54		10 - 124

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 310-464920/1-A
Matrix: Water
Analysis Batch: 465444

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 464920

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.800		0.800		ug/L		08/27/25 11:33	09/03/25 12:16	1
PCB-1221	<0.800		0.800		ug/L		08/27/25 11:33	09/03/25 12:16	1
PCB-1232	<0.800		0.800		ug/L		08/27/25 11:33	09/03/25 12:16	1
PCB-1242	<0.800		0.800		ug/L		08/27/25 11:33	09/03/25 12:16	1
PCB-1248	<0.800		0.800		ug/L		08/27/25 11:33	09/03/25 12:16	1
PCB-1254	<0.800		0.800		ug/L		08/27/25 11:33	09/03/25 12:16	1
PCB-1260	<0.800		0.800		ug/L		08/27/25 11:33	09/03/25 12:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	39		10 - 126	08/27/25 11:33	09/03/25 12:16	1
Tetrachloro-m-xylene (Surr)	44		10 - 124	08/27/25 11:33	09/03/25 12:16	1

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: LCS 310-464920/2-A
Matrix: Water
Analysis Batch: 465444

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 464920

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			10.0	6.283		ug/L		63	50 - 123		
PCB-1260			10.0	6.407		ug/L		64	38 - 118		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*47*		*10 - 126*
Tetrachloro-m-xylene (Surr)	*57*		*10 - 124*

Lab Sample ID: LCSD 310-464920/3-A
Matrix: Water
Analysis Batch: 465444

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 464920

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			10.0	7.087		ug/L		71	50 - 123	12	33
PCB-1260			10.0	7.212		ug/L		72	38 - 118	12	33

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*59*		*10 - 126*
Tetrachloro-m-xylene (Surr)	*68*		*10 - 124*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 310-464968/1-A
Matrix: Water
Analysis Batch: 465224

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 464968

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0800		0.0800		mg/L		08/28/25 08:30	08/28/25 15:30	1
Barium	<0.0100		0.0100		mg/L		08/28/25 08:30	08/28/25 15:30	1
Cadmium	<0.0200		0.0200		mg/L		08/28/25 08:30	08/28/25 15:30	1
Chromium	<0.0200		0.0200		mg/L		08/28/25 08:30	08/28/25 15:30	1
Copper	<0.0200		0.0200		mg/L		08/28/25 08:30	08/28/25 15:30	1
Iron	<0.500		0.500		mg/L		08/28/25 08:30	08/28/25 15:30	1
Lead	<0.100		0.100		mg/L		08/28/25 08:30	08/28/25 15:30	1
Nickel	<0.0500		0.0500		mg/L		08/28/25 08:30	08/28/25 15:30	1
Selenium	<0.100		0.100		mg/L		08/28/25 08:30	08/28/25 15:30	1
Silver	<0.0200	^+	0.0200		mg/L		08/28/25 08:30	08/28/25 15:30	1
Zinc	<0.0400		0.0400		mg/L		08/28/25 08:30	08/28/25 15:30	1

Lab Sample ID: LCS 310-464968/2-A
Matrix: Water
Analysis Batch: 465224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 464968

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			2.00	2.014		mg/L		101	85 - 115		
Barium			1.00	0.9981		mg/L		100	85 - 115		
Cadmium			1.00	0.9580		mg/L		96	85 - 115		
Chromium			1.00	0.9916		mg/L		99	85 - 115		
Copper			2.00	2.056		mg/L		103	85 - 115		

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 310-464968/2-A
Matrix: Water
Analysis Batch: 465224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 464968

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	2.00	1.971		mg/L		99	85 - 115
Lead	2.00	1.889		mg/L		94	85 - 115
Nickel	2.00	1.933		mg/L		97	85 - 115
Selenium	4.00	3.885		mg/L		97	85 - 115
Silver	0.100	0.1066	^+	mg/L		107	85 - 115
Zinc	2.00	1.978		mg/L		99	85 - 115

Method: 245.2 - Mercury (CVAA)

Lab Sample ID: MB 310-464805/1-A
Matrix: Water
Analysis Batch: 465101

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 464805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		08/27/25 12:30	08/28/25 10:45	1

Lab Sample ID: LCS 310-464805/2-A
Matrix: Water
Analysis Batch: 465101

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 464805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00167	0.001607		mg/L		96	85 - 115

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 310-465131/48
Matrix: Water
Analysis Batch: 465131

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	<0.500		0.500		mg/L			08/28/25 13:32	1

Lab Sample ID: LCS 310-465131/49
Matrix: Water
Analysis Batch: 465131

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	2.26	2.226		mg/L		98	90 - 110

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 310-464841/1-A
Matrix: Water
Analysis Batch: 464985

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 464841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	<1.00		1.00		mg/L		08/27/25 05:38	08/27/25 16:47	1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCS 310-464841/2-A
Matrix: Water
Analysis Batch: 464985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 464841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	4.01	3.928		mg/L		98	90 - 110

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

Lab Sample ID: MB 310-465091/1
Matrix: Water
Analysis Batch: 465091

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	<5.0		5.0		mg/L			08/28/25 13:48	1

Lab Sample ID: LCS 310-465091/2
Matrix: Water
Analysis Batch: 465091

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	90.00		mg/L		90	82 - 117

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 310-464984/1
Matrix: Water
Analysis Batch: 464984

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<50.0		50.0		mg/L			08/27/25 17:03	1

Lab Sample ID: LCS 310-464984/2
Matrix: Water
Analysis Batch: 464984

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	982.0		mg/L		98	89 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 310-464769/1
Matrix: Water
Analysis Batch: 464769

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		100	98 - 102

Lab Sample ID: 310-314127-1 DU
Matrix: Water
Analysis Batch: 464769

Client Sample ID: Annual Leachate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.5	HF	8.5		SU		0.1	20

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 310-464843/1
Matrix: Water
Analysis Batch: 464843

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	<3.00		3.00		mg/L			08/27/25 06:10	1

Lab Sample ID: LCS 310-464843/2
Matrix: Water
Analysis Batch: 464843

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biochemical Oxygen Demand	198	145.7	*-	mg/L		74	85 - 115

Method: SM 5310C - TOC

Lab Sample ID: MB 310-465242/16
Matrix: Water
Analysis Batch: 465242

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<1.00		1.00		mg/L			08/28/25 18:17	1

Lab Sample ID: LCS 310-465242/17
Matrix: Water
Analysis Batch: 465242

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	9.99	10.97		mg/L		110	85 - 115

GC/MS VOA

Analysis Batch: 464940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-314127-1	Annual Leachate	Total/NA	Water	624.1	
MB 310-464940/6	Method Blank	Total/NA	Water	624.1	
LCS 310-464940/7	Lab Control Sample	Total/NA	Water	624.1	
LCS 310-464940/8	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 464848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-314127-1	Annual Leachate	Total/NA	Water	625	

Analysis Batch: 465129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-314127-1	Annual Leachate	Total/NA	Water	625.1	464848

GC Semi VOA

Prep Batch: 464920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-314127-1	Annual Leachate	Total/NA	Water	608	
MB 310-464920/1-A	Method Blank	Total/NA	Water	608	
LCS 310-464920/2-A	Lab Control Sample	Total/NA	Water	608	
LCS 310-464920/4-A	Lab Control Sample	Total/NA	Water	608	
LCSD 310-464920/3-A	Lab Control Sample Dup	Total/NA	Water	608	
LCSD 310-464920/5-A	Lab Control Sample Dup	Total/NA	Water	608	

Analysis Batch: 465444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-314127-1	Annual Leachate	Total/NA	Water	608.3	464920
MB 310-464920/1-A	Method Blank	Total/NA	Water	608.3	464920
LCS 310-464920/2-A	Lab Control Sample	Total/NA	Water	608.3	464920
LCSD 310-464920/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	464920

Analysis Batch: 465446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-314127-1	Annual Leachate	Total/NA	Water	608.3	464920
MB 310-464920/1-A	Method Blank	Total/NA	Water	608.3	464920
LCS 310-464920/4-A	Lab Control Sample	Total/NA	Water	608.3	464920
LCSD 310-464920/5-A	Lab Control Sample Dup	Total/NA	Water	608.3	464920

Metals

Prep Batch: 464805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-314127-1	Annual Leachate	Total/NA	Water	245.1	
MB 310-464805/1-A	Method Blank	Total/NA	Water	245.1	
LCS 310-464805/2-A	Lab Control Sample	Total/NA	Water	245.1	

Prep Batch: 464968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-314127-1	Annual Leachate	Total/NA	Water	200.7	
MB 310-464968/1-A	Method Blank	Total/NA	Water	200.7	

Metals (Continued)

Prep Batch: 464968 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-464968/2-A	Lab Control Sample	Total/NA	Water	200.7	

Analysis Batch: 465101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-314127-1	Annual Leachate	Total/NA	Water	245.2	464805
MB 310-464805/1-A	Method Blank	Total/NA	Water	245.2	464805
LCS 310-464805/2-A	Lab Control Sample	Total/NA	Water	245.2	464805

Analysis Batch: 465224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-314127-1	Annual Leachate	Total/NA	Water	200.7 Rev 4.4	464968
MB 310-464968/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	464968
LCS 310-464968/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	464968

General Chemistry

Analysis Batch: 464769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-314127-1	Annual Leachate	Total/NA	Water	SM 4500 H+ B	
LCS 310-464769/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
310-314127-1 DU	Annual Leachate	Total/NA	Water	SM 4500 H+ B	

Prep Batch: 464841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-314127-1	Annual Leachate	Total/NA	Water	351.2	
MB 310-464841/1-A	Method Blank	Total/NA	Water	351.2	
LCS 310-464841/2-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 464843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-314127-1	Annual Leachate	Total/NA	Water	SM 5210B	
USB 310-464843/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 310-464843/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Analysis Batch: 464984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-314127-1	Annual Leachate	Total/NA	Water	SM 2540C	
MB 310-464984/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-464984/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 464985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-314127-1	Annual Leachate	Total/NA	Water	351.2	464841
MB 310-464841/1-A	Method Blank	Total/NA	Water	351.2	464841
LCS 310-464841/2-A	Lab Control Sample	Total/NA	Water	351.2	464841

Analysis Batch: 465091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-314127-1	Annual Leachate	Total/NA	Water	I-3765-85	
MB 310-465091/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-465091/2	Lab Control Sample	Total/NA	Water	I-3765-85	

QC Association Summary

Client: SCS Engineers
Project/Site: NWIASW - Annual Leachate

Job ID: 310-314127-1
SDG: Leachate Lagoon

General Chemistry

Analysis Batch: 465131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-314127-1	Annual Leachate	Total/NA	Water	350.1	
MB 310-465131/48	Method Blank	Total/NA	Water	350.1	
LCS 310-465131/49	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 465242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-314127-1	Annual Leachate	Total/NA	Water	SM 5310C	
MB 310-465242/16	Method Blank	Total/NA	Water	SM 5310C	
LCS 310-465242/17	Lab Control Sample	Total/NA	Water	SM 5310C	

Lab Chronicle

Client: SCS Engineers
Project/Site: NWIASW - Annual Leachate

Job ID: 310-314127-1
SDG: Leachate Lagoon

Client Sample ID: Annual Leachate

Date Collected: 08/25/25 08:45
Date Received: 08/26/25 08:35

Lab Sample ID: 310-314127-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	464940	FE5V	EET CF	08/27/25 22:11
Total/NA	Prep	625			464848	J5BR	EET CF	08/27/25 07:17
Total/NA	Analysis	625.1		1	465129	V7YZ	EET CF	08/29/25 10:55
Total/NA	Prep	608			464920	J5BR	EET CF	08/27/25 11:33
Total/NA	Analysis	608.3		1	465444	BW2O	EET CF	09/03/25 13:21
Total/NA	Prep	608			464920	J5BR	EET CF	08/27/25 11:33
Total/NA	Analysis	608.3		1	465446	BW2O	EET CF	09/03/25 13:21
Total/NA	Prep	200.7			464968	QTZ5	EET CF	08/28/25 08:30
Total/NA	Analysis	200.7 Rev 4.4		5	465224	ZRI4	EET CF	08/29/25 10:40
Total/NA	Prep	245.1			464805	QTZ5	EET CF	08/27/25 12:30
Total/NA	Analysis	245.2		1	465101	RLT9	EET CF	08/28/25 11:34
Total/NA	Analysis	350.1		10	465131	WZC8	EET CF	08/28/25 14:12
Total/NA	Prep	351.2			464841	W9YR	EET CF	08/27/25 05:38
Total/NA	Analysis	351.2		1	464985	ZJX4	EET CF	08/27/25 16:54
Total/NA	Analysis	I-3765-85		1	465091	HE7K	EET CF	08/28/25 13:48
Total/NA	Analysis	SM 2540C		1	464984	ENB7	EET CF	08/27/25 17:03
Total/NA	Analysis	SM 4500 H+ B		1	464769	W9YR	EET CF	08/26/25 10:28
Total/NA	Analysis	SM 5210B		1	464843	W9YR	EET CF	08/27/25 07:20
Total/NA	Analysis	SM 5310C		40	465242	ENB7	EET CF	08/28/25 21:18

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: NWIASW - Annual Leachate

Job ID: 310-314127-1
SDG: Leachate Lagoon

Laboratory: Eurofins Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

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

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2,4-Trichlorobenzene
624.1		Water	1,3-Dichloropropene, Total
624.1		Water	Naphthalene
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
625.1	625	Water	Dibenzofuran

Method Summary

Client: SCS Engineers
Project/Site: NWIASW - Annual Leachate

Job ID: 310-314127-1
SDG: Leachate Lagoon

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET CF
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET CF
608.3	Organochlorine Pesticides in Water	EPA	EET CF
608.3	Polychlorinated Biphenyls (PCBs) (GC)	EPA	EET CF
200.7 Rev 4.4	Metals (ICP)	EPA	EET CF
245.2	Mercury (CVAA)	EPA	EET CF
350.1	Nitrogen, Ammonia	EPA	EET CF
351.2	Nitrogen, Total Kjeldahl	EPA	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CF
SM 4500 H+ B	pH	SM	EET CF
SM 5210B	BOD, 5-Day	SM	EET CF
SM 5310C	TOC	SM	EET CF
200.7	Preparation, Total Metals	EPA	EET CF
245.1	Preparation, Mercury	EPA	EET CF
351.2	Nitrogen, Total Kjeldahl	EPA	EET CF
608	Liquid-Liquid Extraction (Separatory Funnel)	EPA	EET CF
625	Liquid-Liquid Extraction	EPA	EET CF

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

eurofins | Environment Testing America

310-314127 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: NW IA Area Solid Waste

City/State: CITY | STATE IA | Project.

Receipt Information

Date/Time Received: DATE 8/26/25 TIME 0835 | Received By K

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? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE

Thermometer ID: K | Correction Factor (°C): +0.0

• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 8.4 | Corrected Temp (°C): 8.4

• Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:	PL 250 NaOH	PL 1L NP
Uncorrected Temp (°C):	10.2	9.4
Corrected Temp (°C):	10.2	9.4

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

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613
Phone. 319-277-2401 Fax: 319-277-2425

Chain of Custody Record

eurofins

Client Information	Sampler: Brent Kach	Lab PM: Bindert, Zach T	Carrier Tracking No(s):	COC No: 310-109675-8289 1
Client Contact: ~~Lesley Oldenkamp~~ Brent Kach	Phone: 712-324-4026	E-Mail: Zach.Bindert@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: NW IA Area Solid Waste Agency	PWSID:	Analysis Requested		Job #:
Address: 4540 360th Street	Due Date Requested			Preservation Codes: S - H2SO4; D - HNO3; A - HCL; N None
City: Sheldon	TAT Requested (days):			
State, Zip: IA, 51201	Compliance Project: Δ Yes Δ No			
Phone: 712-324-4026(Tel)	PO #: Purchase Order not required			
Email: ~~[redacted]~~ brentnw1@premieronline.net	WO #:			
Project Name: NWIASW - Annual Leachate	Project #: 31007625			
Site: Leachate Lagoon	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1, 351.2	200.7_CWA, 245.2	624_5ml - Volatile TTO Sublist	608_PCB, 608_Pest, 625	2540C_Calcd, I_3765_85, SM4500_H+, SM5210B_Calc	624_5ml_UP - Volatile TTO Sublist	5310C - Total Organic Carbon	Total Number of containers	Special Instructions/Note.
			Preservation Code:		X	X	S	D	A	N	N	N	S	X	
Annual Leachate				Water											

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Brent Kach	8-25-25 8:45am		[redacted]		
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
		NWIASWA	ES	08/26/25 0835	EET
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver 10/10/2024

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-314127-1
SDG Number: Leachate Lagoon

Login Number: 314127
List Number: 1
Creator: Schaufenbuel, Erin

List Source: Eurofins Cedar Falls

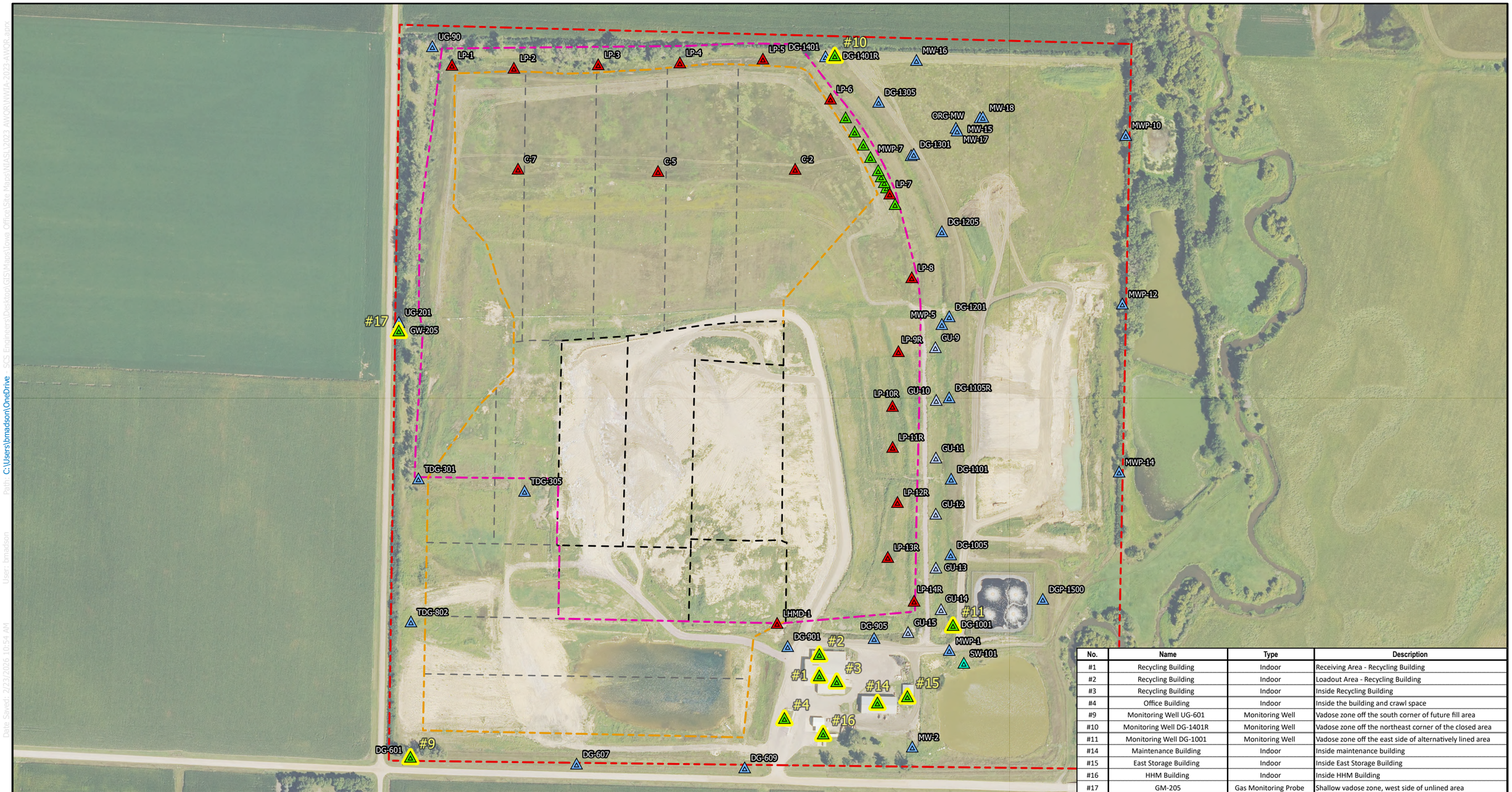
Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
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.	False	missing sample time and date
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix F
2025 Landfill Gas Annual Report

Table 13
Gas Monitoring Summary
2025 Gas Monitoring Report
Northwest Iowa Area Sanitary Landfill
Permit No. 84-SDP-01-74P

Monitoring Points				Methane Results (% LEL)							
Name		Type	Description	3/14/2025	S (Y/N)	6/30/2025	S (Y/N)	9/22/2025	S (Y/N)	12/16/2025	S (Y/N)
#1	Recycling Building	Indoor	Receiving Area - Recycling Building	0		0		0		0	
#2	Recycling Building	Indoor	Loadout Area - Recycling Building	0		0		0		0	
#3	Recycling Building	Indoor	Inside Recycling Building	0		0		0		0	
#4	Office Building	Indoor	Inside the building and crawl space	0		0		0		0	
#9	Monitoring Well DG-601	Monitoring Well	Vadose zone off the south corner of future fill area	0	NM	0	NM	0	NM	0	NM
#10	Monitoring Well DG-1401R	Monitoring Well	Vadose zone off the northeast corner of the closed area	0	NM	0	NM	0	NM	0	NM
#11	Monitoring Well DG-1001	Monitoring Well	Vadose zone off the east side of alternatively lined area	0	NM	0	NM	0	NM	0	NM
#14	Maintenance Building	Indoor	Inside maintenance building	0		0		0		0	
#16	HHM Building	Indoor	Inside HHM Building	0		0		0		0	
#17	GM-205	Gas Monitoring Probe	Shallow vadose zone, west side of unlined area	0	NM	0	NM	0	NM	0	NM

S (Y/N) - Was screen submerged, yes or no or blank is non-applicable.
No action levels were exceeded during this reporting period.
NM - Not measured.



No.	Name	Type	Description
#1	Recycling Building	Indoor	Receiving Area - Recycling Building
#2	Recycling Building	Indoor	Loadout Area - Recycling Building
#3	Recycling Building	Indoor	Inside Recycling Building
#4	Office Building	Indoor	Inside the building and crawl space
#9	Monitoring Well UG-601	Monitoring Well	Vadose zone off the south corner of future fill area
#10	Monitoring Well DG-1401R	Monitoring Well	Vadose zone off the northeast corner of the closed area
#11	Monitoring Well DG-1001	Monitoring Well	Vadose zone off the east side of alternatively lined area
#14	Maintenance Building	Indoor	Inside maintenance building
#15	East Storage Building	Indoor	Inside East Storage Building
#16	HHM Building	Indoor	Inside HHM Building
#17	GM-205	Gas Monitoring Probe	Shallow vadose zone, west side of unlined area

SCS ENGINEERS
environmental consultants and contractors

Methane Monitoring Network

Legend

- Methane Monitoring Point
- Leachate Piezometers
- Monitoring Well
- Groundwater Underdrain
- Surface Water Monitoring Point
- Gas Vent
- Approximate Future Waste/ Expansion Boundary
- Approximate Waste Boundary
- Approximate Location of Future Cell Boundary
- Approximate Location of Existing Cell Boundary
- Approximate Property Boundary

Northwest Iowa Area Sanitary Landfill
Sheldon, Iowa
Project No: 27225280.26
Drawing Date: February 2026

Figure 1

N
W E
S

0 265 530 1,060 Feet

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri, CGIAR, USGS, USDA NAIP, Iowa State University GIS Facility

Path: C:\Users\bmadson\OneDrive - SCS Engineers\Desktop\GIS\Mans\Iowa Office\Site Mans\NIAS\2023 AWOR\NWIA-2023-AWOR.aprx
User: bmadson
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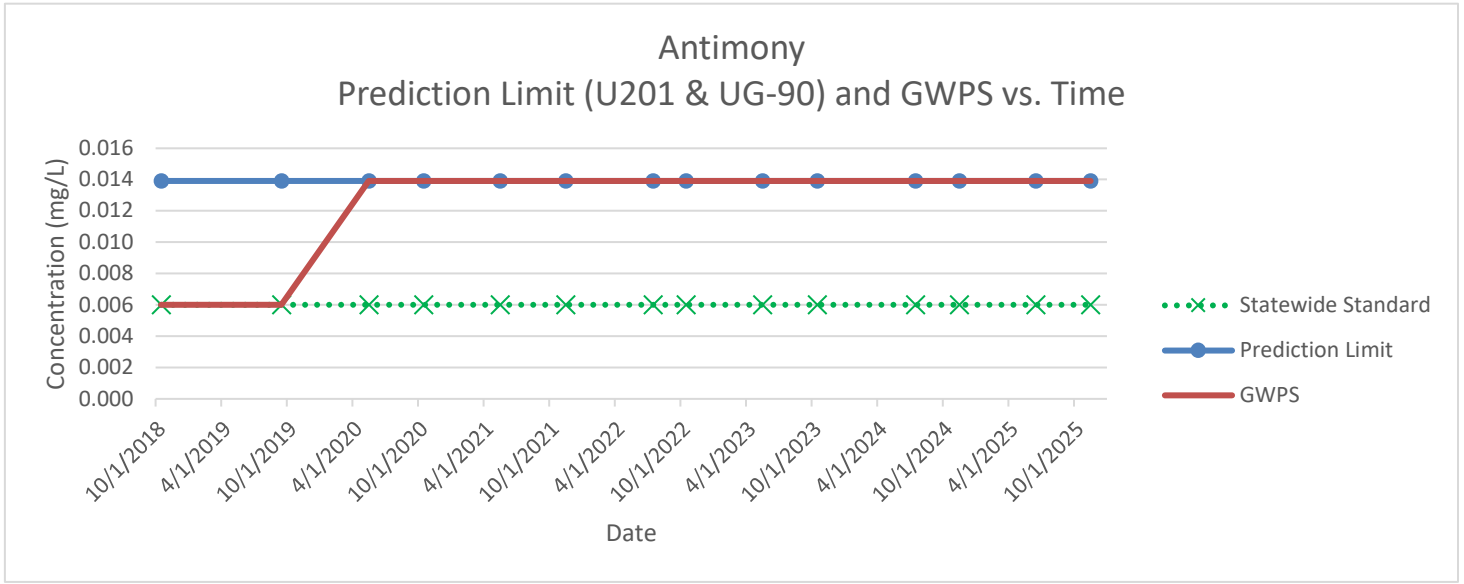
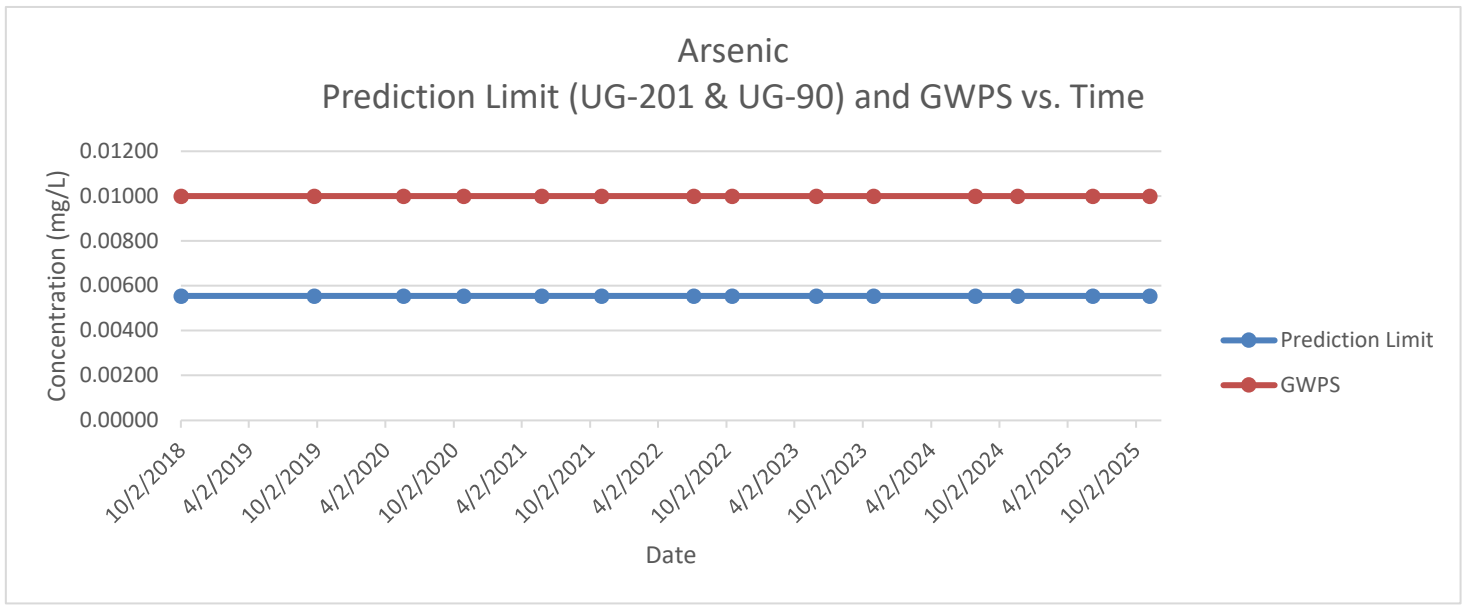
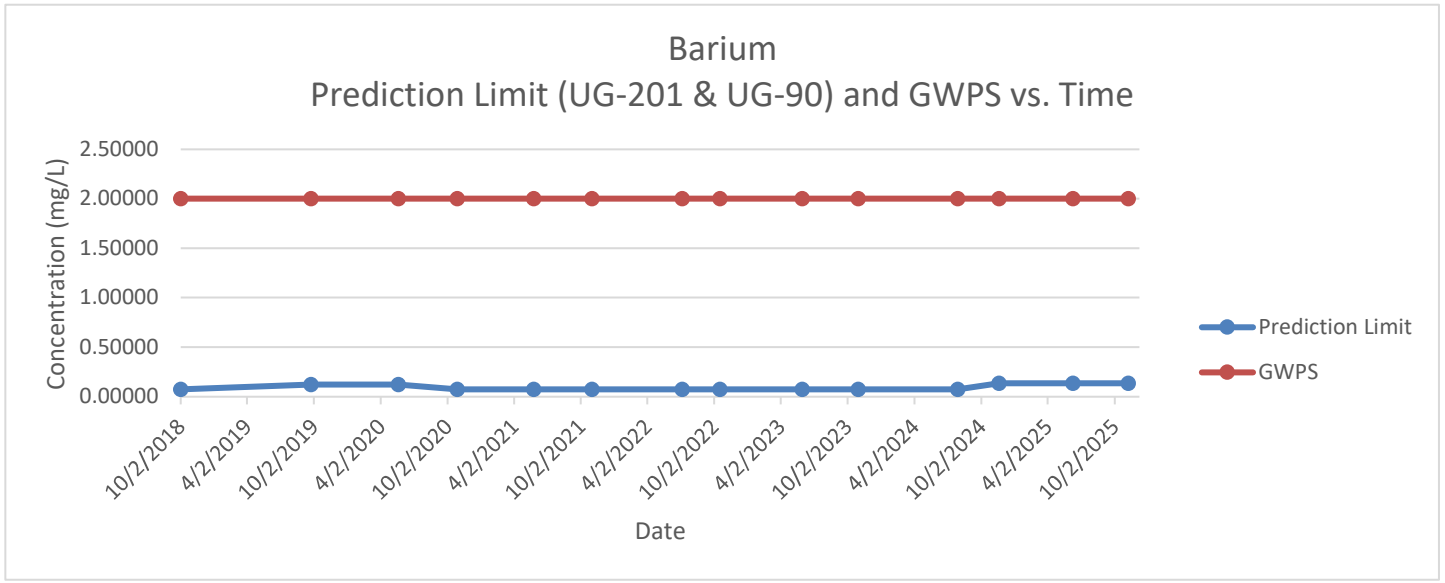
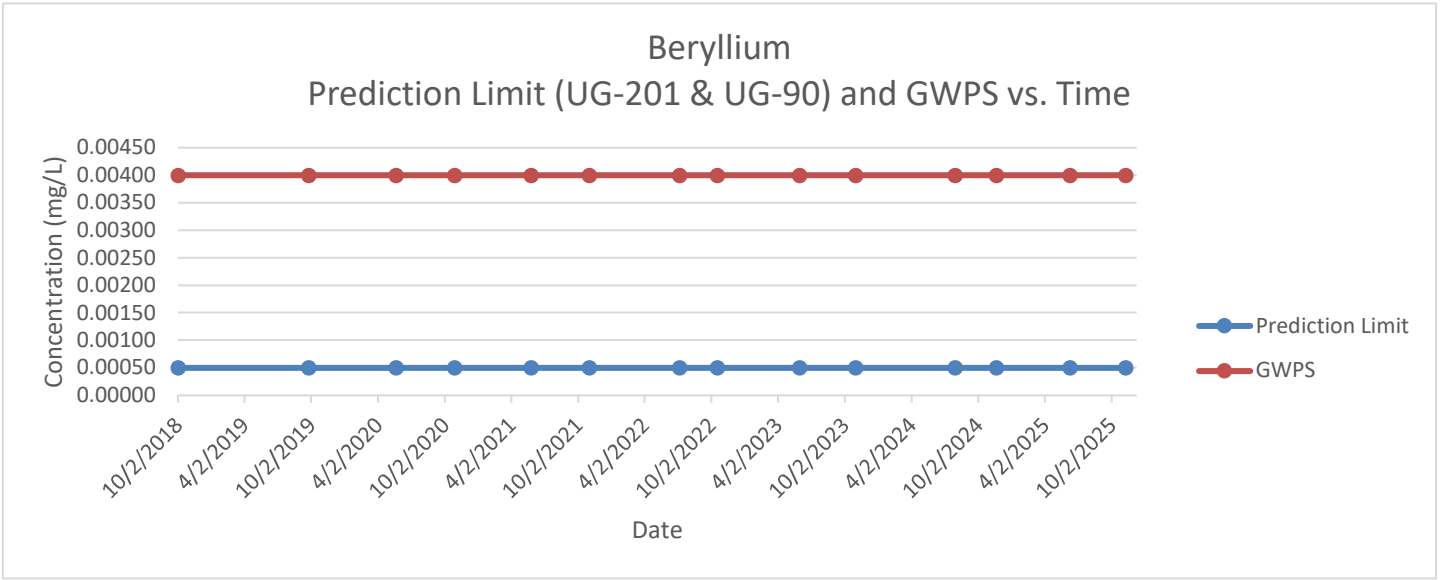
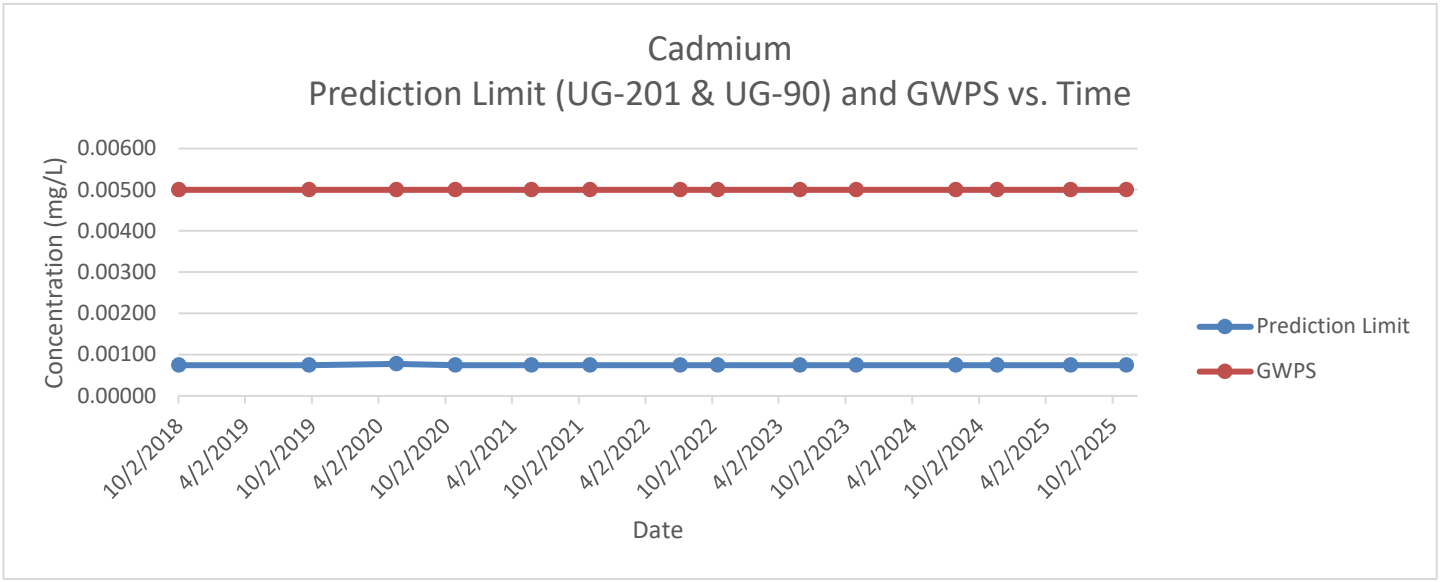
Appendix G
Standards History Graphs

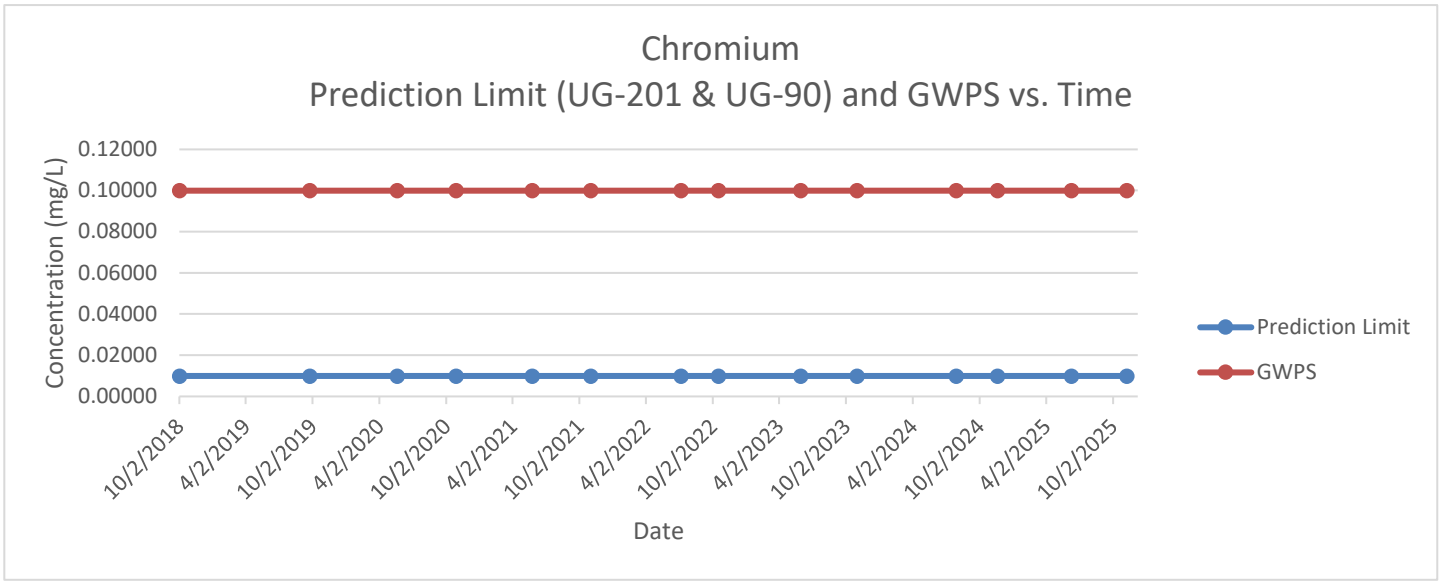

Antimony
Prediction Limit (U201 & UG-90) and GWPS vs. Time
Concentration (mg/L)
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
10/1/2018
4/1/2019
10/1/2019
4/1/2020
10/1/2020
4/1/2021
10/1/2021
4/1/2022
10/1/2022
4/1/2023
10/1/2023
4/1/2024
10/1/2024
4/1/2025
10/1/2025
Date
Statewide Standard
Prediction Limit
GWPS

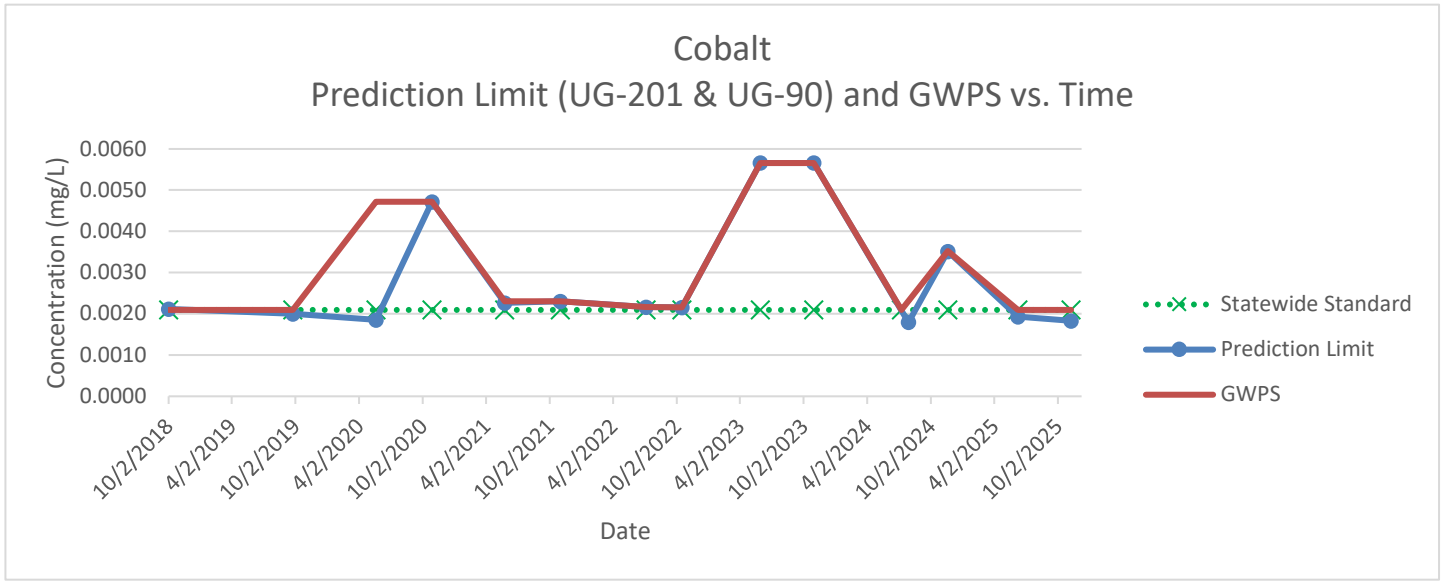

Arsenic
Prediction Limit (UG-201 & UG-90) and GWPS vs. Time
Concentration (mg/L)
0.01200
0.01000
0.00800
0.00600
0.00400
0.00200
0.00000
10/2/2018
4/2/2019
10/2/2019
4/2/2020
10/2/2020
4/2/2021
10/2/2021
4/2/2022
10/2/2022
4/2/2023
10/2/2023
4/2/2024
10/2/2024
4/2/2025
10/2/2025
Date
Prediction Limit
GWPS

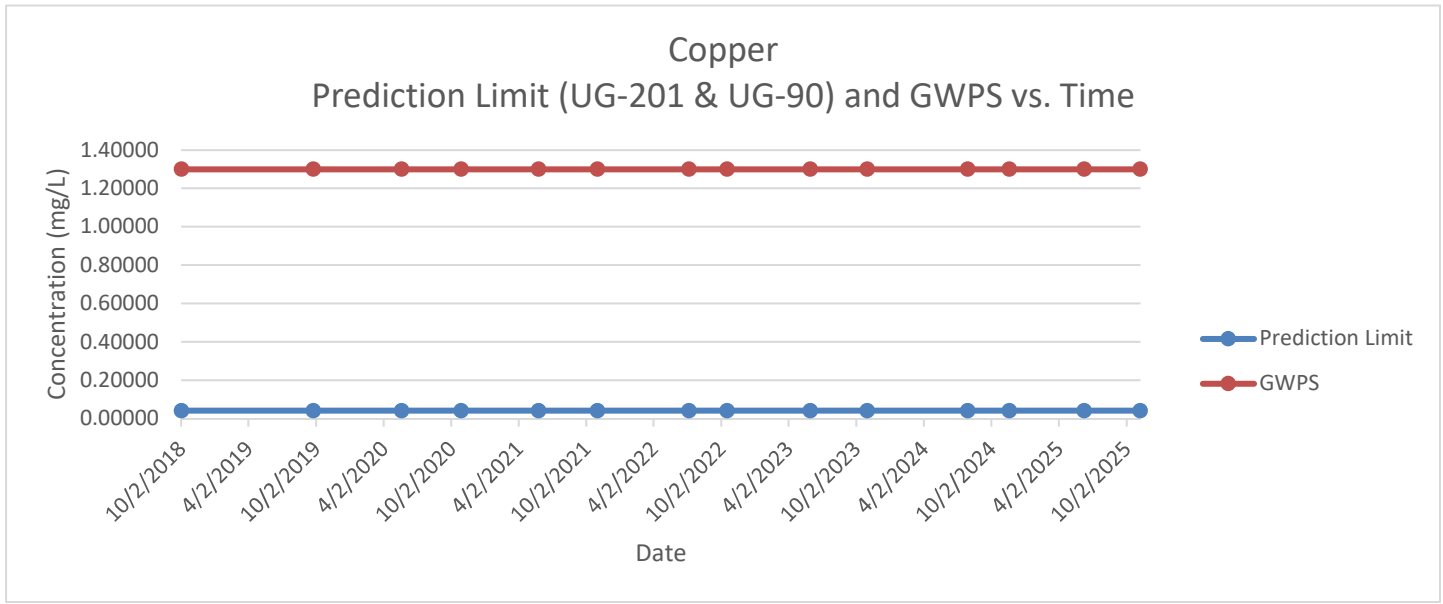

Barium
Prediction Limit (UG-201 & UG-90) and GWPS vs. Time
Concentration (mg/L)
2.50000
2.00000
1.50000
1.00000
0.50000
0.00000
10/2/2018
4/2/2019
10/2/2019
4/2/2020
10/2/2020
4/2/2021
10/2/2021
4/2/2022
10/2/2022
4/2/2023
10/2/2023
4/2/2024
10/2/2024
4/2/2025
10/2/2025
Date
Prediction Limit
GWPS

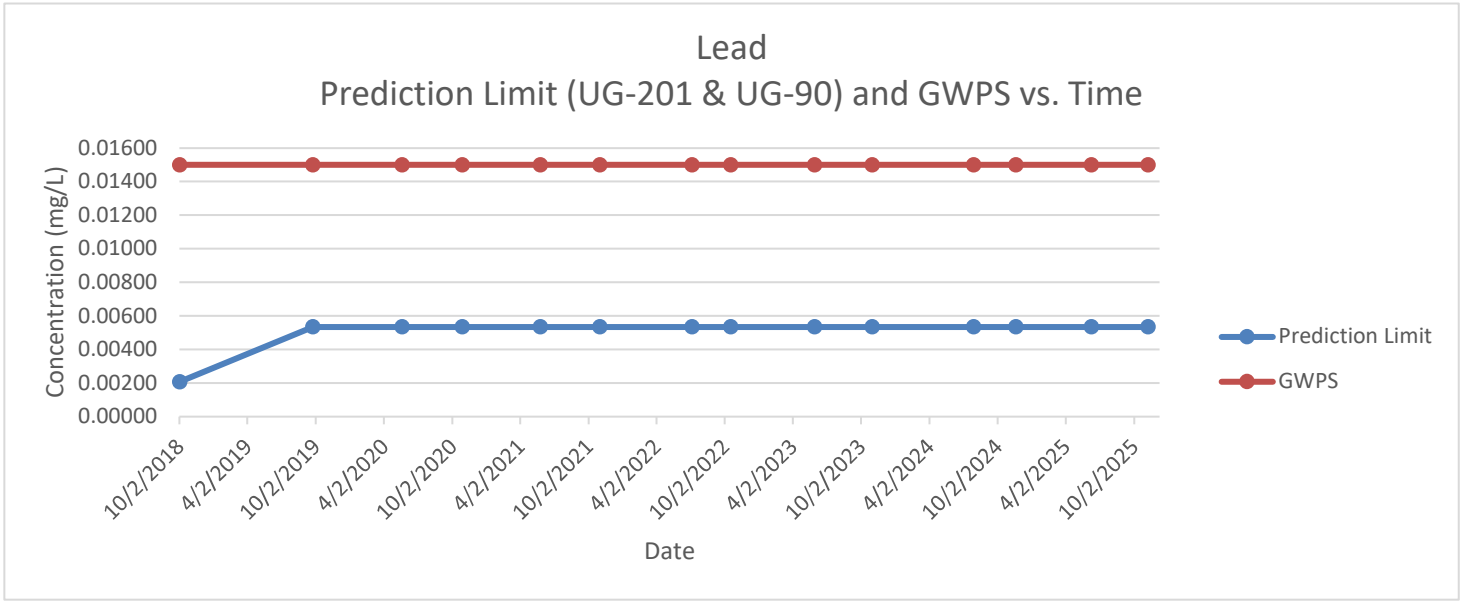

Beryllium
Prediction Limit (UG-201 & UG-90) and GWPS vs. Time
Concentration (mg/L)
0.00450
0.00400
0.00350
0.00300
0.00250
0.00200
0.00150
0.00100
0.00050
0.00000
10/2/2018
4/2/2019
10/2/2019
4/2/2020
10/2/2020
4/2/2021
10/2/2021
4/2/2022
10/2/2022
4/2/2023
10/2/2023
4/2/2024
10/2/2024
4/2/2025
10/2/2025
Date
Prediction Limit
GWPS

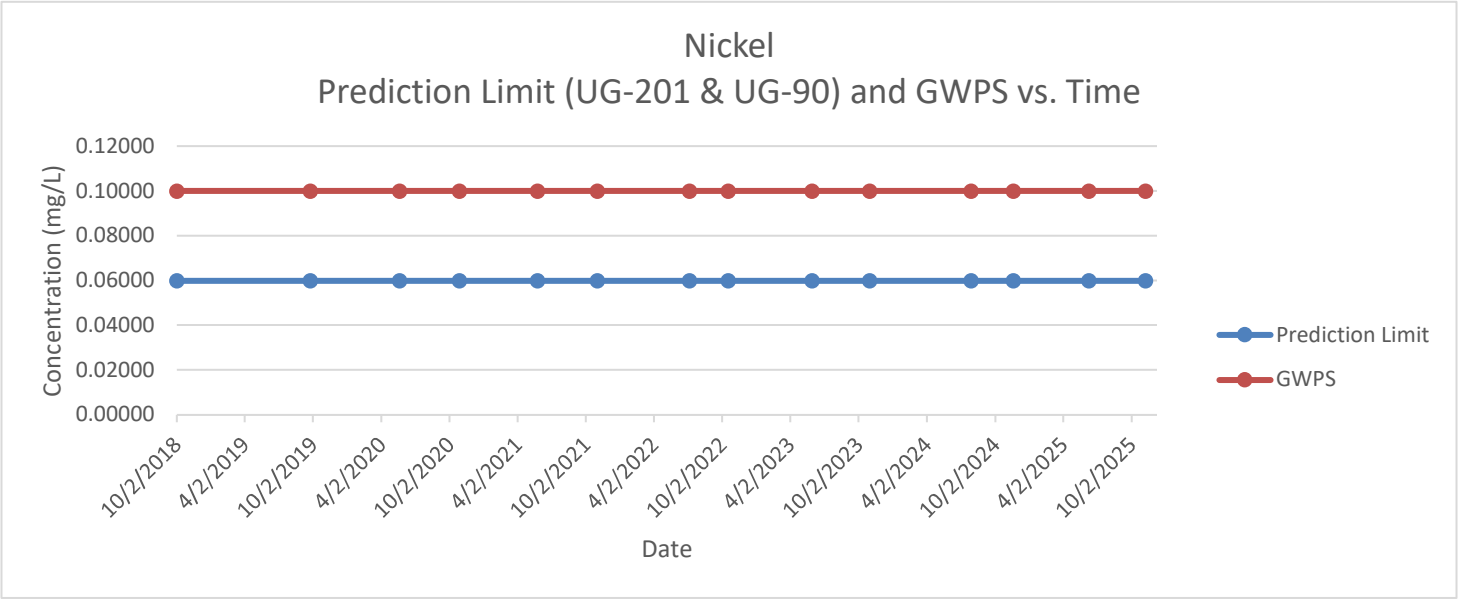

Cadmium
Prediction Limit (UG-201 & UG-90) and GWPS vs. Time
Concentration (mg/L)
0.00600
0.00500
0.00400
0.00300
0.00200
0.00100
0.00000
10/2/2018
4/2/2019
10/2/2019
4/2/2020
10/2/2020
4/2/2021
10/2/2021
4/2/2022
10/2/2022
4/2/2023
10/2/2023
4/2/2024
10/2/2024
4/2/2025
10/2/2025
Date
Prediction Limit
GWPS


Chromium
Prediction Limit (UG-201 & UG-90) and GWPS vs. Time
Concentration (mg/L)
0.12000
0.10000
0.08000
0.06000
0.04000
0.02000
0.00000
10/2/2018
4/2/2019
10/2/2019
4/2/2020
10/2/2020
4/2/2021
10/2/2021
4/2/2022
10/2/2022
4/2/2023
10/2/2023
4/2/2024
10/2/2024
4/2/2025
10/2/2025
Date
Prediction Limit
GWPS


Cobalt
Prediction Limit (UG-201 & UG-90) and GWPS vs. Time
Concentration (mg/L)
0.0060
0.0050
0.0040
0.0030
0.0020
0.0010
0.0000
10/2/2018
4/2/2019
10/2/2019
4/2/2020
10/2/2020
4/2/2021
10/2/2021
4/2/2022
10/2/2022
4/2/2023
10/2/2023
4/2/2024
10/2/2024
4/2/2025
10/2/2025
Date
Statewide Standard
Prediction Limit
GWPS


Copper
Prediction Limit (UG-201 & UG-90) and GWPS vs. Time
Concentration (mg/L)
1.40000
1.20000
1.00000
0.80000
0.60000
0.40000
0.20000
0.00000
10/2/2018
4/2/2019
10/2/2019
4/2/2020
10/2/2020
4/2/2021
10/2/2021
4/2/2022
10/2/2022
4/2/2023
10/2/2023
4/2/2024
10/2/2024
4/2/2025
10/2/2025
Date
Prediction Limit
GWPS


Lead
Prediction Limit (UG-201 & UG-90) and GWPS vs. Time
Concentration (mg/L)
0.01600
0.01400
0.01200
0.01000
0.00800
0.00600
0.00400
0.00200
0.00000
10/2/2018
4/2/2019
10/2/2019
4/2/2020
10/2/2020
4/2/2021
10/2/2021
4/2/2022
10/2/2022
4/2/2023
10/2/2023
4/2/2024
10/2/2024
4/2/2025
10/2/2025
Date
Prediction Limit
GWPS


Nickel
Prediction Limit (UG-201 & UG-90) and GWPS vs. Time
Concentration (mg/L)
0.12000
0.10000
0.08000
0.06000
0.04000
0.02000
0.00000
10/2/2018
4/2/2019
10/2/2019
4/2/2020
10/2/2020
4/2/2021
10/2/2021
4/2/2022
10/2/2022
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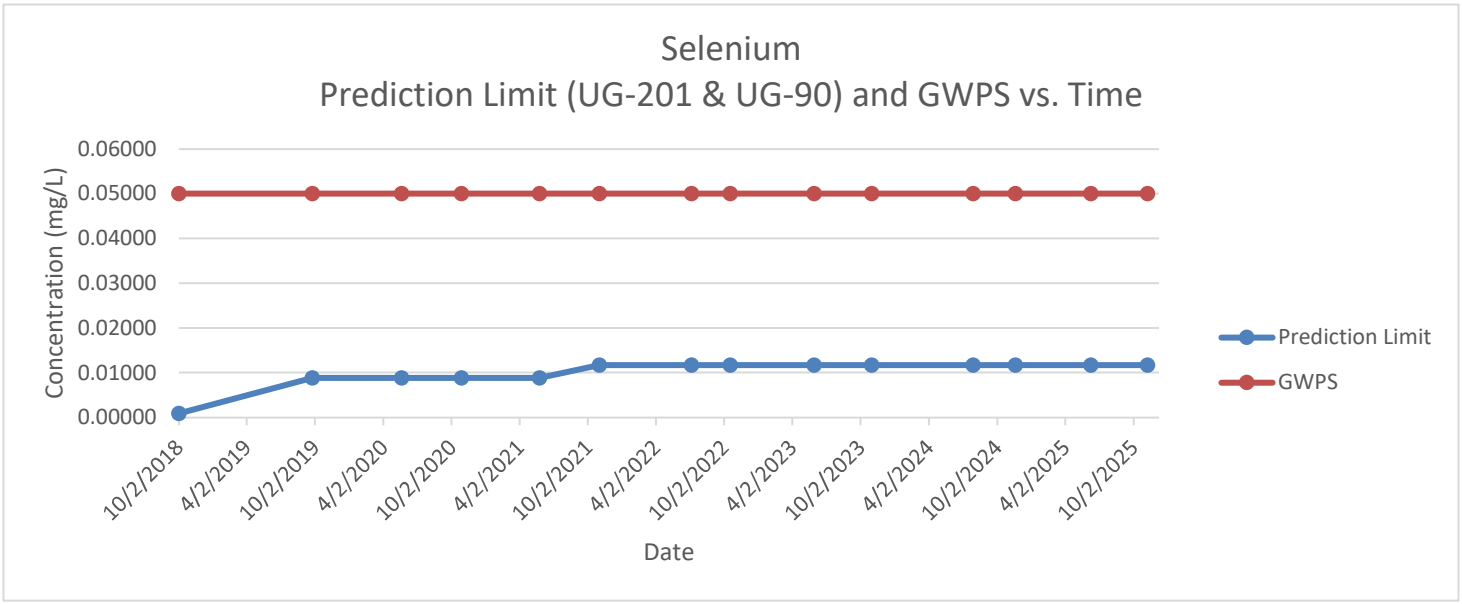
10/2/2025
Date
Prediction Limit
GWPS


Selenium
Prediction Limit (UG-201 & UG-90) and GWPS vs. Time
Concentration (mg/L)
0.06000
0.05000
0.04000
0.03000
0.02000
0.01000
0.00000
10/2/2018
4/2/2019
10/2/2019
4/2/2020
10/2/2020
4/2/2021
10/2/2021
4/2/2022
10/2/2022
4/2/2023
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4/2/2024
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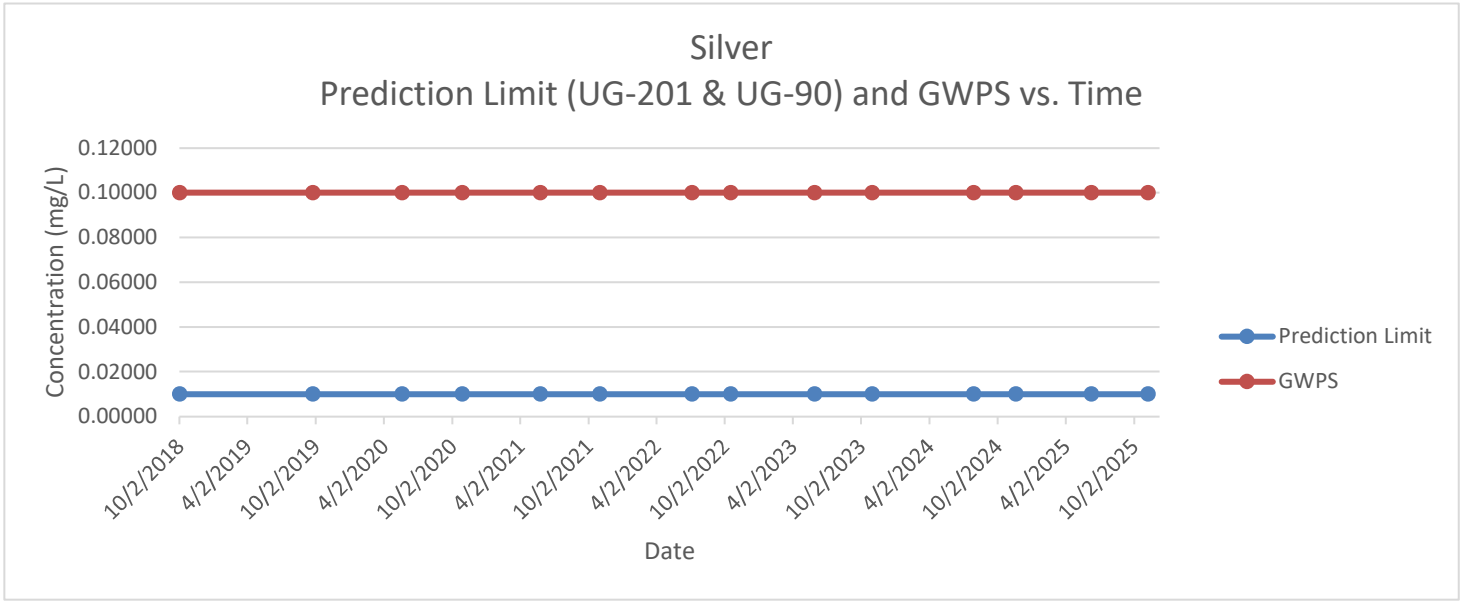
10/2/2025
Date
Prediction Limit
GWPS


Silver
Prediction Limit (UG-201 & UG-90) and GWPS vs. Time
Concentration (mg/L)
0.12000
0.10000
0.08000
0.06000
0.04000
0.02000
0.00000
10/2/2018
4/2/2019
10/2/2019
4/2/2020
10/2/2020
4/2/2021
10/2/2021
4/2/2022
10/2/2022
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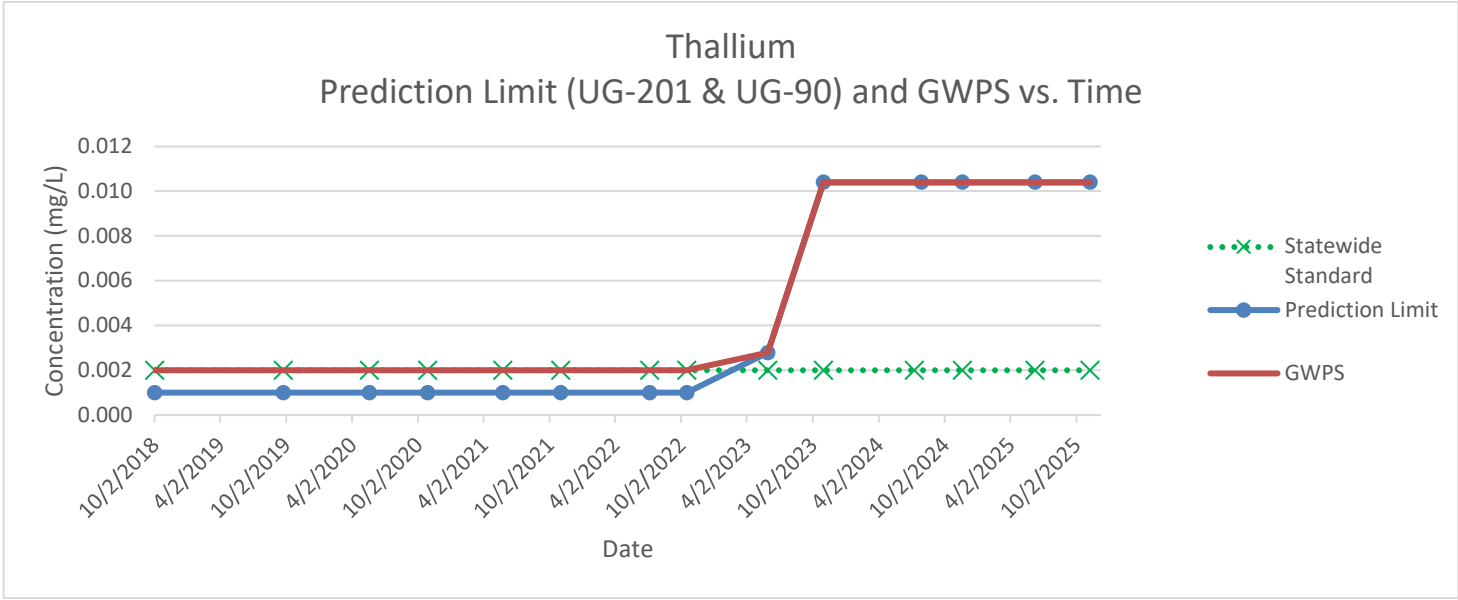
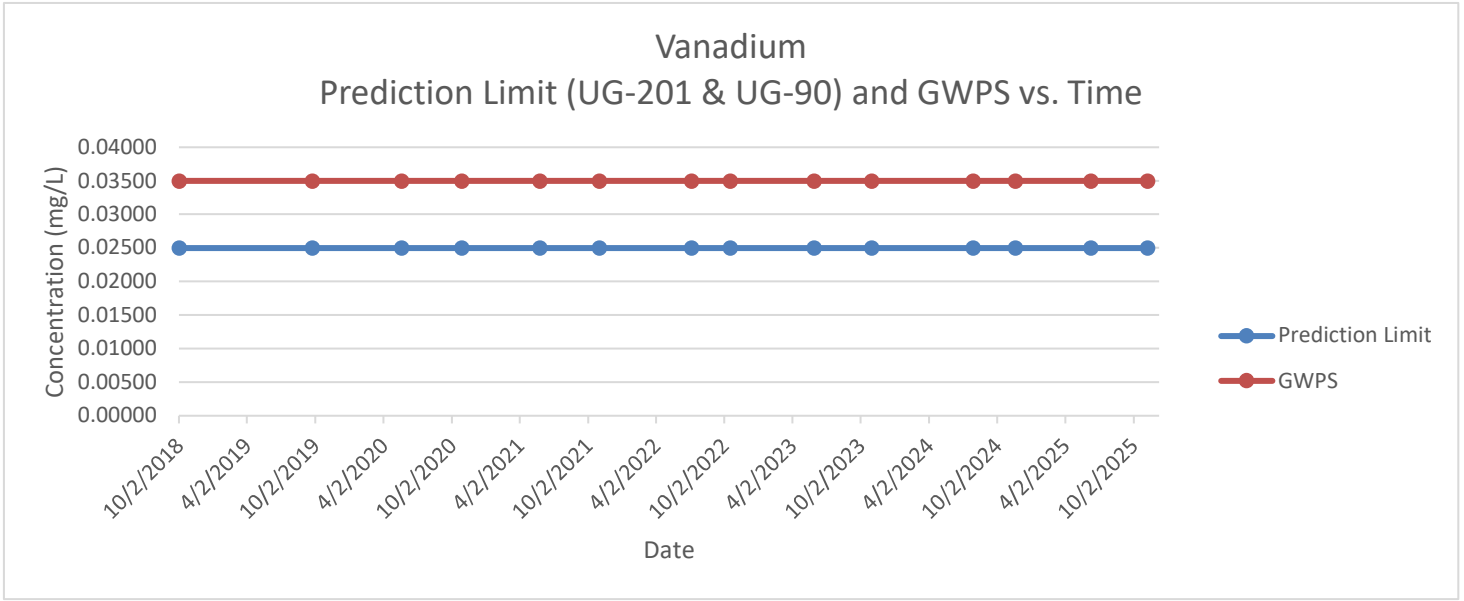
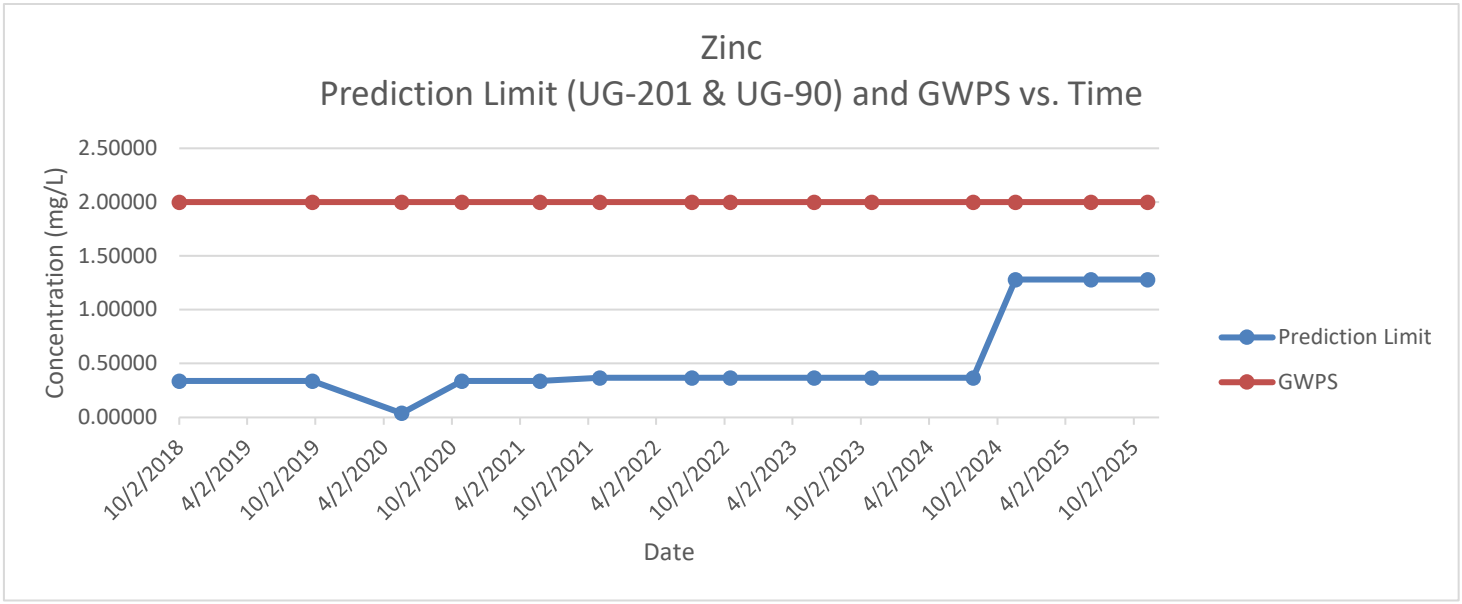
Date
Prediction Limit
GWPS


Thallium
Prediction Limit (UG-201 & UG-90) and GWPS vs. Time
Concentration (mg/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
10/2/2018
4/2/2019
10/2/2019
4/2/2020
10/2/2020
4/2/2021
10/2/2021
4/2/2022
10/2/2022
4/2/2023
10/2/2023
4/2/2024
10/2/2024
4/2/2025
10/2/2025
Date
Statewide Standard
Prediction Limit
GWPS


Vanadium
Prediction Limit (UG-201 & UG-90) and GWPS vs. Time
Concentration (mg/L)
0.04000
0.03500
0.03000
0.02500
0.02000
0.01500
0.01000
0.00500
0.00000
10/2/2018
4/2/2019
10/2/2019
4/2/2020
10/2/2020
4/2/2021
10/2/2021
4/2/2022
10/2/2022
4/2/2023
10/2/2023
4/2/2024
10/2/2024
4/2/2025
10/2/2025
Date
Prediction Limit
GWPS


Zinc
Prediction Limit (UG-201 & UG-90) and GWPS vs. Time
Concentration (mg/L)
2.50000
2.00000
1.50000
1.00000
0.50000
0.00000
10/2/2018
4/2/2019
10/2/2019
4/2/2020
10/2/2020
4/2/2021
10/2/2021
4/2/2022
10/2/2022
4/2/2023
10/2/2023
4/2/2024
10/2/2024
4/2/2025
10/2/2025
Date
Prediction Limit
GWPS