

July 27, 2026
File No. 27226309.00

Mr. Khalid Al Gharrawi
Iowa Department of Natural Resources
Land Quality Bureau
6200 Park Avenue
Des Moines, Iowa 50321

Subject: 2026 Annual Water Quality Report & Landfill Gas Report
City of Council Bluffs Alter Trading Corporation ASR Monofill
Permit No. 78-SDP-19-98C

Dear Brad:

SCS Engineers has completed the annual water quality monitoring and data evaluation for the closed Alter Trading Corporation Monofill, managed by the City of Council Bluffs, for the year 2026. Our services were performed in general accordance with 1998 Iowa Administrative Code (IAC) 567-103, the landfill closure permit, and subsequent permit amendment requirements for implementation of the Hydrologic Monitoring System Plan (HMSP).

Please find enclosed a copy of the 2026 Annual Water Quality Report for the Alter Trading Corporation Monofill, including a summary of the landfill gas monitoring results for 2026. If you have any questions about this report, please contact us as noted below.

Sincerely,



Beth Kephart
Project Professional
SCS Engineers
bkephart@scsengineers.com
(515) 415-9215



Kevin Jensen
Project Manager
SCS Engineers
kjensen@scsengineers.com
(515) 368-3155

BK/SO/KAJ/TCB

Copies: Jeff Krist - City of Council Bluffs



2026 Annual Water Quality Report and Landfill Gas Annual Report

City of Council Bluffs Alter Trading Corporation ASR Monofill
Solid Waste Permit No. 78-SDP-19-98C

Prepared for:

City of Council Bluffs

SCS ENGINEERS

27226309.00 | July 27, 2026

1690 All-State Court, Suite 100
West Des Moines, Iowa 50265
515-631-6160

CERTIFICATION

Prepared by: Bethany Kephart

Date: 7/27/2026

Typed: Beth Kephart

Reviewed by: [Signature]

Date: 7/27/2026

Typed: Kevin Jensen

	I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.
	<u>Bethany Kephart</u> Date: <u>7/27/26</u>
	Bethany Kephart, P.E.
	License No. 17120
	My license renewal date is December 31, 2027.
	Pages or sheets covered by this seal:
	All except Appendix B-1.

EXECUTIVE SUMMARY

ES.1 PERIOD OF REPORT COVERAGE

SCS Engineers (SCS), on behalf of the City of Council Bluffs, has completed the required groundwater sampling of the Alter Trading Corporation Monofill (Monofill) in Council Bluffs, Iowa. The purpose of this Annual Water Quality Report (AWQR) is to document and statistically evaluate the groundwater sampling results since the 2025 AWQR up to and including the February 2026 annual sampling event. This AWQR was prepared in accordance with the requirements of the 1998 Iowa Administrative Code (IAC) 567-103, the site permit, and current requirements for implementation of the Hydrologic Monitoring System Plan (HMSP).

ES.2 REPORT PRIORITY

The following summarizes report priorities associated with groundwater compliance at the Monofill:

- 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

- Monofill Status: Closed, Closure Permit.
- Types of waste accepted: Auto Shredder Residue (ASR).
- Applicable IAC rules: 1998 Iowa Administrative Code 567-103.

ES.4 COMMENTS

The following summarizes points of special emphasis:

Elevated arsenic concentrations measured in multiple site monitoring wells have been documented and the source investigated. The DNR has concluded that since these elevated concentrations are stable, no drinking water wells exist near the site, and the City of Council Bluffs has enacted a water well ordinance that prohibits the construction of drinking water wells within the city limits, the human health risk posed by groundwater exposure at the site is low (Doc #98623).

Routine groundwater sampling and gas monitoring in accordance with the permit and DNR correspondence is recommended to continue at the Monofill until scheduled permit expiration in 2029 due to the persistence of multiple contaminants and its current usage as communicated by DNR (Doc #101984).

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1.0 ACRONYMS/ABBREVIATIONS

AL = Action Level
CCV = Continuing Calibration Verification
CL = Control Limit - Mean plus Two Standard Deviations
DNR = Iowa Department of Natural Resources
DO = Dissolved Oxygen
GWPS = Groundwater Protection Standard
GWQAP = Groundwater Quality Assessment Plan
LEL = Lower Explosive Limit
LCL = Lower Confidence Limit
LCS = Laboratory Control Sample
LN = Lognormal
M+/-2SD = Mean Plus/Minus Two Standard Deviations
MCL = EPA Maximum Contaminant Level
MDL = Method Detection Limit
N = Normal
NC = No Change
NM = Not Measured
ORP = Oxidation-Reduction Potential
PL = Prediction Limit
QA = Quality Assurance
QC = Quality Control
RL = Reporting Limit
SWS = DNR Statewide Standard for a Protected Groundwater Source
SSI = Statistically Significant Increase Above Background
SSL = Statistically Significant Level Above Groundwater Protection Standard
SSS = Site-Specific Standard (Site-Specific GWPS)
TSS = Total Suspended Solids
UCL = Upper Confidence Limit

2.0 SITE BACKGROUND

2.1 SITE LOCATION

The Monofill property is depicted in **Figure 1**, Approved Monitoring Network, and summarized in Table 1. The Monofill is located on an approximately 42-acre plot of land on the north side of I-80 and north of 23rd Avenue in Council Bluffs, Iowa. The Monofill is situated in the NE ¼ of Section 3, T74N, R44W, in Pottawattamie County, Iowa.

2.2 GEOLOGY OF THE SITE

The following information pertaining to this section was obtained from the Engineering Design Report dated September 1994, prepared by GBB Engineering Inc.:

Based on borings drilled on-site, the geology beneath the 23rd Avenue Monofill consists of 90 to 130 feet of alluvial sediments overlying Pennsylvanian-age limestone. The alluvial sediments are predominantly stratified sand and gravel deposits. The sand units vary in grain size from a silty fine-grained sand to a well-graded sand. Isolated silt and sandy clay lenses occur throughout the alluvium. In general, the sediments become coarser with depth.

2.3 HYDROLOGY OF THE SITE

According to the above-referenced 1994 Engineering Design Report:

Based on four rounds of water level measurements taken at the site, local groundwater is flowing in a southwesterly direction. The horizontal hydraulic gradient at the site is relatively flat (0.0001 to 0.001), which corresponds to an average groundwater flow velocity of approximately 14 feet/year.

3.0 FIGURES DISCUSSION

The following figures are attached.

3.1 FIGURE 1 – APPROVED MONITORING NETWORK

The Monofill property and hydrologic monitoring system plan (HMSP) network is depicted in **Figure 1**. **Figure 1** indicates the location of each monitoring well.

3.2 FIGURE 2 – GROUNDWATER CONTOURS – SHALLOW FLOW

A groundwater contour map for the shallow flow wells based on groundwater levels measured in February 2026 is included in **Figure 2**. Review of the groundwater flow pattern indicates that a generally convergent flow direction exists toward the wetland area in the west-central portion of the site. The highest shallow groundwater elevation was measured in monitoring well EPA-1AR in the southeast portion of the site. Groundwater flow from this portion of the site appears to be generally radially outward into the overall convergent flow direction toward the wetland area.

3.3 FIGURE 3 – GROUNDWATER CONTOURS – DEEP FLOW

A groundwater contour map for the deep flow wells based on groundwater levels measured in February 2026 is included in **Figure 3**. Review of the groundwater flow pattern indicates that the general flow direction is to the northwest, which is generally consistent with historical groundwater measurements.

4.0 QA/QC SUMMARY

Date indicates the date(s) of sampling.

4.1 FEBRUARY 17, 2026 (2026 ANNUAL SAMPLING EVENT)

Based on the QA review, no samples were rejected as unusable due to QC failures. In general, the quality of the analytical data for this reporting period does not appear to have been compromised by analytical irregularities and results affected by QC anomalies are qualified with the appropriate data flags, which are listed in the laboratory report in **Appendix B-1**. Data validation documentation can be found in **Appendix B-2**.

5.0 DATA EVALUATION

The historical analytical results of the groundwater monitoring wells for the Monofill are presented in **Appendix C** (Summary of Groundwater Chemistry). The statistical evaluation for samples collected during the 2026 annual sampling event is located in **Appendix D** of this report.

5.1 DATA EVALUATION

Groundwater monitoring for the Monofill consists of sampling from the shallow flow and deep flow portions of the alluvial aquifer. The shallow flow contains a background monitoring well located on the northwest corner of the site and ten compliance monitoring wells; two located on the north side, three located on the east side, three located along the south side, and two located on the west side of the Monofill within the wetland area. The deep flow contains a background monitoring well located on the northwest corner of the site and three compliance monitoring wells; one located on the northeast side, one located on the southeast side, and one located on the southwest side of the Monofill.

There were 18 control limit exceedances detected based on 2026 sampling results as listed in **Table 1** compared to 14 control limit exceedances detected based on 2025 sampling results reported in the 2025 AWQR. Most control limit exceedances detected based on 2026 sampling results were attributed to monitoring well MW-2. Stabilized field parameters and sufficient sample volumes were obtained from all monitoring wells listed in the monitoring plan during this reporting period.

Exceedances of action or advisory levels consisted of ammonia (as N) in monitoring well MW-2, arsenic in monitoring wells MW-2 and MW-3, nickel in monitoring well MW-14R, and zinc in monitoring well MW-14R as shown in **Table 9**. Arsenic was calculated at an 80% confidence level as having stable trends in monitoring wells MW-2 and MW-3, Nickel was calculated at an 80% confidence level as having a stable trend in MW-14R, and Zinc was calculated at an 80% confidence level as having a stable trend in monitoring wells MW-14R as shown in **Table 10**. The monitoring results continue to demonstrate that the elevated arsenic concentrations remain stable and human health risks posed by groundwater exposure at the site remain low.

5.2 TRENDING IN MONITORING WELLS

Statistically significant decreasing trends at a 99% confidence level ($\alpha=0.01$) were identified in three monitoring well/constituent pairs by Mann-Kendall analysis during this reporting period. A statistically significant increasing trend at a 99% confidence level ($\alpha=0.01$) was identified in one monitoring well/constituent pair by Mann-Kendall analysis during this reporting period. The trend analysis is included in Attachment A of **Appendix D** of this report. The statistically significant trends were as follows:

Monitoring Point	Constituent	Trend
MW-5	Specific Conductance	Decreasing
MW-11	Chemical Oxygen Demand	Increasing
MW-15R	Arsenic	Decreasing
	Nickel	Decreasing

As indicated in the above table, the majority of the statistically significant trends were found to be decreasing. The increasing trend for COD in monitoring well MW-11 was heavily influenced by elevated reporting limits (25 mg/L) in 2023 and 2025 compared to earlier reporting limits (5 mg/L) and a potentially anomalously high concentration measured in 2024.

6.0 RECOMMENDATIONS

6.1 SITE IMPACT ON GROUNDWATER

Concentrations of most analyzed parameters in groundwater at the site remain stable to decreasing. Overall, a generally continued stability of groundwater quality at the site was noted.

Elevated arsenic concentrations measured in multiple site monitoring wells have been documented and the source investigated. The DNR has concluded that since these elevated concentrations are stable, no drinking water wells exist near the site, and the City of Council Bluffs has enacted a water well ordinance that prohibits the construction of drinking water wells within the city limits, the human health risk posed by groundwater exposure at the site is low (Doc #98623).

Routine groundwater sampling and gas monitoring in accordance with the permit and DNR correspondence is recommended to continue at the Monofill until scheduled permit expiration in 2029 due to the persistence of multiple contaminants and its current usage as communicated by DNR (Doc #101984).

6.2 PROPOSED MONITORING

The groundwater monitoring program is summarized in **Tables 1** and **2**. No changes to the HMSP monitoring program are recommended at this time.

6.3 PROPOSED MONITORING WELL CHANGES

Monitoring well performance is summarized in **Table 4**. No proposed changes to the monitoring wells are recommended at this time.

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- 2 Monitoring Program Implementation Schedule
- 3 Monitoring Well Maintenance and Performance Re-Evaluation Schedule
- 4 Monitoring Well Performance and Maintenance Summary
- 5 Background and GWPS Summary
- 6 Summary of Well/Detected Constituent Pairs with No Immediately Preceding Control Limit Exceedances
- 7 Summary Table of Ongoing and Newly Identified Control Limit Exceedances
- 8 Summary of Groundwater Chemistry (The Summary of Groundwater Chemistry is Located in Appendix C)
- 9 Historical Control and Action Level Exceedances
- 10 Groundwater Quality Assessment Plan Trend Analysis

Table 1
Monitoring Program Summary
2026 Annual Water Quality Report
Alter Trading Corporation Monofill
Permit No. 78-SDP-19-98C

Monitoring Well	Formation	Current Monitoring Program	Change for Next Sampling Event	Control Limit Exceedances	Total Number of Samples in Each Monitoring Program Since January 1, 2018		
					Routine	Supplemental	Remedial Action
Shallow Flow							
MW-5	Alluvium	Background	None	None	8	0	0
EPA-1AR	Alluvium	Detection	None	None	9	0	0
MW-2	Alluvium	Detection	None	Ammonia as N, Arsenic, COD, pH, TEH	9	0	0
EPA-2A	Alluvium	Detection	None	None	9	0	0
MW-3	Alluvium	Detection	None	Arsenic, COD, Iron,	8	0	0
MW-9	Alluvium	Detection	None	COD, TEH	9	0	0
MW-11	Alluvium	Detection	None	None	9	0	0
MW-12	Alluvium	Detection	None	None	9	0	0
MW-13	Alluvium	Detection	None	COD	9	0	0
MW-14R	Alluvium	Detection	None	Nickel, Zinc	8	0	0
MW-15R	Alluvium	Detection	None	None	8	0	0
Deep Flow							
MW-4	Alluvium	Background	None	None	8	0	0
MW-1	Alluvium	Detection	None	Ammonia as N	9	0	0
MW-8	Alluvium	Detection	None	COD, TEH	9	0	0
MW-10	Alluvium	Detection	None	Arsenic, pH	9	0	0

Notes: None.

Table 2
Monitoring Program Implementation Schedule
2026 Annual Water Quality Report
Alter Trading Corporation Monofill
Permit No. 78-SDP-19-98C

Monitoring Well	Recent Sampling Dates and Constituents	Upcoming Sampling Dates and Constituents
	2/17/2026	2027 Annual Sampling Event
Shallow Flow		
MW-5 (b)	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, Arsenic, Barium, Lead, Nickel, Zinc, TEH, TSS	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, Arsenic, Barium, Lead, Nickel, Zinc, TEH, TSS
EPA-1AR	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, TEH	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, TEH
MW-2	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, Arsenic, TEH, TSS	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, Arsenic, TEH, TSS
EPA-2A	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, Arsenic, TEH, TSS	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, Arsenic, TEH, TSS
MW-3	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, Arsenic, TEH, TSS	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, Arsenic, TEH, TSS
MW-9	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, TEH	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, TEH
MW-11	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, TEH	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, TEH
MW-12	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, Lead, TEH, TSS	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, Lead, TEH, TSS
MW-13	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, Arsenic, Lead, TEH, TSS	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, Arsenic, Lead, TEH, TSS
MW-14R	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, Arsenic, Barium, Lead, Nickel, Zinc, TEH, TSS	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, Arsenic, Barium, Lead, Nickel, Zinc, TEH, TSS
MW-15R	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, Arsenic, Barium, Lead, Nickel, TEH, TSS	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, Arsenic, Barium, Lead, Nickel, TEH, TSS
Deep Flow		
MW-4 (b)	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, Arsenic, Barium, Lead, Nickel, Zinc, TEH, TSS	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, Arsenic, Barium, Lead, Nickel, Zinc, TEH, TSS
MW-1	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, TEH	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, TEH
MW-8	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, TEH	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, TEH
MW-10	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, Arsenic, TEH, TSS	Ammonia-Nitrogen, COD, Chloride, pH, Specific Conductance, Iron, Arsenic, TEH, TSS

Notes: (b) denotes background monitoring point
Metals listed are for total concentrations
COD – Chemical Oxygen Demand
TSS – Total Suspended Solids
TEH – Total Extractable Hydrocarbons (Iowa Method OA-2)

Table 3
Monitoring Well Maintenance and Performance Re-Evaluation Schedule
2026 Annual Water Quality Report
Alter Trading Corporation Monofill
Permit No. 78-SDP-19-98C

Compliance with:	2024	2025	2026	2027
567 IAC 114.21(2)"a" high and low water levels (annually)	Completed	Completed	Included	Scheduled
567 IAC 114.21(2)"b" changes in the hydrologic setting and flow paths	Completed	Completed	Included	Scheduled
567 IAC 114.21(2)"c" well depths	Completed	Completed	Included	Scheduled
567 IAC 114.21(2)"d" well recharge rates ⁽¹⁾	-	Completed	-	Scheduled

Notes:

⁽¹⁾ In-situ permeability testing was replaced with biennial well recharge rate evaluation in DNR correspondence dated May 30, 2013 (Doc #77045).

Table 4
Monitoring Well Maintenance and Performance Summary
2026 Annual Water Quality Report
After Trading Corporation Monofill
Permit No. 78-SDP-19-98C

Well	Top of Casing	Top of Screen	Total Depth	Measurement Description	Date of Measurements 2/17/2026	Maximum Depth Discrepancy ¹ (ft)
Shallow Flow						
MW-5	977.52	NA	25.0	Groundwater Level (ft)	12.25	-4.0
				Groundwater Elevation (Ft MSL)	965.27	
				Measured Well Depth (ft)	21.0	
				Submerged screen	NA	
EPA-1AR	978.13	968.13	20.0	Groundwater Level (ft)	10.40	2.6
				Groundwater Elevation (Ft MSL)	967.73	
				Measured Well Depth (ft)	22.6	
				Submerged screen	N	
MW-2	982.26	NA	35.0	Groundwater Level (ft)	16.50	1.5
				Groundwater Elevation (Ft MSL)	965.76	
				Measured Well Depth (ft)	36.5	
				Submerged screen	NA	
EPA-2A	980.92	NA	NA	Groundwater Level (ft)	15.30	NA
				Groundwater Elevation (Ft MSL)	965.62	
				Measured Well Depth (ft)	25.4	
				Submerged screen	NA	
MW-3	978.82	967.90	25.0	Groundwater Level (ft)	13.20	-8.4
				Groundwater Elevation (Ft MSL)	965.62	
				Measured Well Depth (ft)	16.6	
				Submerged screen	N	
MW-9	976.77	961.77	25.0	Groundwater Level (ft)	11.19	-0.1
				Groundwater Elevation (Ft MSL)	965.58	
				Measured Well Depth (ft)	24.9	
				Submerged screen	Y	
MW-11	982.53	NA	30.0	Groundwater Level (ft)	16.70	-4.6
				Groundwater Elevation (Ft MSL)	965.83	
				Measured Well Depth (ft)	25.4	
				Submerged screen	NA	
MW-12	982.28	972.28	20.0	Groundwater Level (ft)	16.38	2.5
				Groundwater Elevation (Ft MSL)	965.90	
				Measured Well Depth (ft)	22.5	
				Submerged screen	N	
MW-13	976.69	971.69	15.0	Groundwater Level (ft)	11.00	2.3
				Groundwater Elevation (Ft MSL)	965.69	
				Measured Well Depth (ft)	17.3	
				Submerged screen	N	
MW-14R	972.58	965.38	17.2	Groundwater Level (ft)	7.09	-2.5
				Groundwater Elevation (Ft MSL)	965.49	
				Measured Well Depth (ft)	14.7	
				Submerged screen	Y	
MW-15R	972.50	964.80	17.7	Groundwater Level (ft)	7.11	-2.0
				Groundwater Elevation (Ft MSL)	965.39	
				Measured Well Depth (ft)	15.7	
				Submerged screen	Y	
Deep Flow						
MW-4	976.03	NA	80.0	Groundwater Level (ft)	10.50	1.5
				Groundwater Elevation (Ft MSL)	965.53	
				Measured Well Depth (ft)	81.5	
				Submerged screen	NA	
MW-1	981.04	NA	80.0	Groundwater Level (ft)	15.31	1.2
				Groundwater Elevation (Ft MSL)	965.73	
				Measured Well Depth (ft)	81.2	
				Submerged screen	NA	
MW-8	976.53	905.70	80.0	Groundwater Level (ft)	10.91	0.2
				Groundwater Elevation (Ft MSL)	965.62	
				Measured Well Depth (ft)	80.2	
				Submerged screen	Y	
MW-10	980.58	NA	70.0	Groundwater Level (ft)	14.81	-1.0
				Groundwater Elevation (Ft MSL)	965.77	
				Measured Well Depth (ft)	69.0	
				Submerged screen	NA	

NA - Not Available.

Comments:

1) Measured well depths were within 3.0 feet of the installed depths where measured with the following exceptions:

MW-5 and MW-11: These monitoring wells have consistently measured shallower than the installed depth; however, since the monitoring wells produce sufficient groundwater for sampling it is likely that the wells are functioning adequately.

MW-3: The monitoring well has consistently measured approximately 8.4 feet shallower than the installed depth; however, the monitoring well produced sufficient groundwater during the 2026 sampling event.

Table 5
Background Summary
2026 Annual Water Quality Report
Alter Trading Company Monofill
Permit No. 78-SDP-19-98C

Interwell Background/Control Limit (MW-4 & MW-5)

Constituent	Units	Samples	Detections	Background Level	Statistical Test	Action Level	Source
Ammonia as N	mg/L	62	31	1.209	M+2SD	30 mg/L	HAL
Arsenic	mg/L	30	28	0.00504	M+2SD	0.01 mg/L	MCL
Barium	mg/L	30	30	0.41	M+2SD	2 mg/L	MCL
Chemical Oxygen Demand	mg/L	62	58	38.75	M+2SD	-	-
Chloride	mg/L	62	62	366.5	M+2SD	-	-
Iron	mg/L	18	15	19.6	M+2SD	-	-
Lead	mg/L	30	15	0.007706	M+2SD	0.015 mg/L	MCL
Nickel	mg/L	30	26	0.02574	M+2SD	0.1 mg/L	HAL
pH	S.U.	58	58	6.54 - 8.18	M+/-2SD	-	-
Specific Conductance	µS/cm	60	60	2413	M+2SD	-	-
Total Extractable Hydrocarbons	µg/L	36	11	492.4	M+2SD	-	-
Zinc	mg/L	30	8	0.02981	M+2SD	2 mg/L	HAL

Notes:
1) Background levels based on calculated control limits or reporting limit, as applicable.

Acronyms/Abbreviations:
RL = Reporting Limit
GWPS = Groundwater Protection Standard
SSS = Site-Specific GWPS
SWS = Statewide Standard
SD = Standard Deviation

MCL = EPA Maximum Contaminant Level
HAL = Health Advisory Level
DWA = Drinking Water Advisory

Comments:
1) **Water quality results and effectiveness of the statistical data evaluation criteria:** Statistical evaluations consist of control limits.
2) **Changes to the previous statistical method during reporting period:** None.

Table 6
Summary of Well/Detected Constituent Pairs With No Immediately Preceding Control Limit Exceedances
2026 Annual Water Quality Report
Alter Trading Corporation Monofill
Permit No. 78-SDP-19-98C

Well	Constituent	Units	Most recent result	Background Standard
Shallow Flow				
MW-2	pH	S.U.	8.89	6.543 - 8.184
	TEH	mg/L	1760	492.4
MW-3	COD	mg/L	44.4	38.75
MW-9	TEH	mg/L	1430	492.4
MW-13	COD	mg/L	277	38.75
Deep Flow				
MW-8	TEH	mg/L	493	492.4

Notes: Table includes control limit exceedances identified during the 2025 sampling event that were not identified as control limit exceedances in the previous year.

Table 7
Summary Table of Ongoing and Newly Identified Control Limit Exceedances
2026 Annual Water Quality Report
Alter Trading Corporation Monofill
Permit No.78-SDP-19-98C

Key

	Denotes ongoing control limit exceedances that were identified as control limit exceedances during this reporting period and the previous reporting period at least once during each reporting period.
	Denotes newly identified control limit exceedances in the current reporting period. Newly identified is defined as occurring at least once in the current reporting period but not in the immediately preceeding reporting period.

Well	Constituent	Units	Most recent result	Background Standard	Action Level/ Statewide Standard
Shallow Flow					
MW-2	Ammonia as N	mg/L	33	1.209	30
	Arsenic	mg/L	0.159	0.00504	0.01
	Chemical Oxygen Demand	mg/L	113	38.75	-
	pH	S.U.	8.89	8.184	-
	Total Extractable Hydrocarbons	mg/L	1760	492.4	-
MW-3	Arsenic	mg/L	0.175	0.00504	0.01
	Chemical Oxygen Demand	mg/L	44.4	39.14	-
	Iron	mg/L	27.3	19.6	0.3
MW-9	Chemical Oxygen Demand	mg/L	60.75	39.14	-
	Total Extractable Hydrocarbons	mg/L	1430	492.4	-
MW-13	Chemical Oxygen Demand	mg/L	277	38.75	-
MW-14R	Nickel	mg/L	0.142	0.0257	0.1
	Zinc	mg/L	2.18	0.0298	2
Deep Flow					
MW-1	Ammonia as N	mg/L	1.36	1.209	30
MW-8	Chemical Oxygen Demand	mg/L	49.8	39.14	-
	Total Extractable Hydrocarbons	mg/L	493	492.4	-
MW-10	Arsenic	mg/L	0.00975	0.00504	0.01
	pH	S.U.	9.30	6.543 - 8.184	-

Notes:

- 1) **Problems with the current HMSP network:** None.
- 2) **Proposed remedies:** None.
- 3) **Alternative constituent or sample frequency changes:** None.
- 4) **Plume delineation strategies:** Not Applicable.
- 5) **Property owner notifications:** Not Applicable.

Table 8
Summary of Groundwater Chemistry
2026 Annual Water Quality Report
Alter Trading Corporation Monofill
Permit No. 78-SDP-19-98C

The Summary of Groundwater Chemistry is located in Appendix C.

Table 9
Historical Control Limit & MCL Exceedances
2026 Annual Water Quality Report
Alter Trading Corporation Monofill
Permit No. 78-SDP-19-98C

Key

	Control Limit Exceedance
X	Action Level Exceedance

Well	Constituent	2023	2024	2025	2026
Shallow Flow					
MW-2	Ammonia as N				X
	Arsenic	X	X	X	X
	Chemical Oxygen Demand				
	Total Extractable Hydrocarbons				
	pH				
MW-3	Ammonia as N			NS	
	Arsenic	X	X	NS	X
	Chemical Oxygen Demand			NS	
	Iron			NS	
MW-9	Chemical Oxygen Demand				
	Total Extractable Hydrocarbons				
MW-11	Chemical Oxygen Demand				
MW-13	Arsenic				
	Chemical Oxygen Demand				
MW-14R	Ammonia as N				
	Barium				
	Nickel	X		X	X
	Zinc				X
MW-15R	Barium				
	Chemical Oxygen Demand				
Deep Flow					
MW-1	Ammonia as N				
	Chemical Oxygen Demand				
MW-8	Chemical Oxygen Demand				
	Total Extractable Hydrocarbons				
MW-10	Arsenic			X	
	pH				

Notes:

NS - Not Sampled

Table 10
Groundwater Quality Assessment Plan Trend Analysis
2026 Annual Water Quality Report
Alter Trading Corporation Monofill
Permit No. 78-SDP-19-98C

Monitoring Well	Constituent Name	Calculated Statistic		
		Decreasing Trend	Stable Trend	Increasing Trend
EPA-1AR	Chemical Oxygen Demand		7	
	Chloride		-8	
	Iron	-19		
	pH			18
	Specific Conductance	-16		
EPA-2A	Ammonia as N		-8	
	Arsenic		2	
	Chemical Oxygen Demand		7	
	Chloride			14
	Iron		-12	
	pH			15
	Specific Conductance		-8	
MW-1	Ammonia as N			20
	Chemical Oxygen Demand		-5	
	Chloride		4	
	Iron		-7	
	pH		1	
	Specific Conductance		8	
MW-2	Ammonia as N		6	
	Arsenic		-1	
	Chemical Oxygen Demand		10	
	Chloride			18
	Iron		-10	
	pH			14
	Specific Conductance		8	
	Total Extractable Hydrocarbons		4	
MW-3	Ammonia as N		0	
	Arsenic		8	
	Chemical Oxygen Demand		-4	
	Chloride		5	
	Iron			16
	pH		0	
	Specific Conductance		-8	
MW-8	Ammonia as N		8	
	Chemical Oxygen Demand	-14		
	Chloride		-10	
	Iron		-12	
	pH			16
	Specific Conductance		-4	
	Total Extractable Hydrocarbons		6	
MW-9	Chemical Oxygen Demand	-16		
	Chloride		-6	
	Iron		8	
	pH			20
	Specific Conductance	-18		
	Total Extractable Hydrocarbons		10	

Table 10
Groundwater Quality Assessment Plan Trend Analysis
2026 Annual Water Quality Report
Alter Trading Corporation Monofill
Permit No. 78-SDP-19-98C

Monitoring Well	Constituent Name	Calculated Statistic		
		Decreasing Trend	Stable Trend	Increasing Trend
MW-10	Ammonia as N		-7	
	Arsenic		-8	
	Chemical Oxygen Demand		3	
	Chloride			18
	Iron	-14		
	pH		10	
	Specific Conductance		0	
MW-11	Ammonia as N		7	
	Chemical Oxygen Demand			22
	Chloride		-12	
	Iron		-7	
	pH	-16		
	Specific Conductance			18
MW-12	Chemical Oxygen Demand		-3	
	Chloride		8	
	Lead	-18		
	pH		-7	
	Specific Conductance		-6	
MW-13	Arsenic		-6	
	Chemical Oxygen Demand		4	
	Chloride			16
	Iron		-10	
	Lead		-6	
	pH		12	
	Specific Conductance		12	
MW-14R	Ammonia as N		-10	
	Arsenic	-18		
	Barium		-11	
	Chemical Oxygen Demand		-10	
	Chloride		-4	
	Iron	-16		
	Lead		5	
	Nickel		-12	
	pH		12	
	Specific Conductance	-20	•	
	Zinc		-10	
MW-15R	Arsenic	-24		
	Barium	-20		
	Chemical Oxygen Demand		0	
	Chloride		6	
	Iron	-20		
	Lead		-9	
	Nickel	-26		
	pH		6	
	Specific Conductance	-14		

Notes:

Trending was evaluated using Mann-Kendall analysis at 80% confidence ($\alpha = 0.2$) for the entire historical dataset.

Figures

- 1 Approved Monitoring Network
- 2 Groundwater Contours – Shallow Flow
- 3 Groundwater Contours – Deep Flow

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Shallow Flow	
MW-5	MW-11
EPA-1AR	MW-12
MW-2	MW-13
EPA-2A	MW-14R
MW-3	MW-15R
MW-9	
Deep Flow	
MW-4	MW-8
MW-1	MW-10

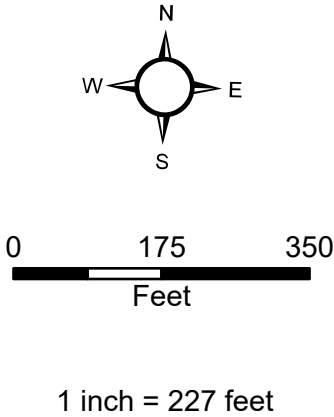
Legend

- HMSP Monitoring Wells

Deep Flow

Shallow Flow

Approximate Monitoring Well Location
- Delineated Wetland Area
- Approximate Property Line



Approved Monitoring Network

FIGURE 1
Alter Trading Corporation Monofil
Council Bluffs, IA

27226309.00

July 2026

SCS ENGINEERS



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Legend

Approximate Groundwater Contours Based on Field Measurements Taken February 17, 2026

HMSP Monitoring Wells

Deep Flow

Shallow Flow

Approximate Monitoring Well Location

Delineated Wetland Area

Approximate Property Line

0 175 350
Feet
1 inch = 227 feet

Groundwater Contours (Shallow)

FIGURE 2
Alter Trading Corporation Monofil
Council Bluffs, IA

27226309.00

July 2026

SCS ENGINEERS

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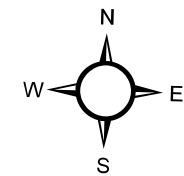


Legend

Approximate
Groundwater Contours
Based on Field
Measurments Taken
on February 17, 2026

Approximate
Monitoring Well
Location

Delineated Wetland
Area
Approximate Property
Line



0 175 350
Feet

1 inch = 227 feet

Groundwater Contours (Deep)

FIGURE 3
Alter Trading Corporation Monofil
Council Bluffs, IA

27226309.00

July 2026

SCS ENGINEERS



Appendix A

Field Sampling Forms

FORM FOR GROUNDWATER SAMPLING

Project:	City of Council Bluffs Alter Trading Coperation ASR Monofill		
Monitoring Well/Piezometer ID:	EPA-1AR	Date:	2/17/2026
Gradient:	Down	Sampler:	Garrett Horak

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):	22.6
Initial Static Water Level (feet):	10.40
Initial Groundwater Elevation (ft-amsl):	967.73
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)	
6:02 PM	Purging start time.						
6:05 PM	14.8	3.0	763.1	7.43	-13.2	3.6	
6:08 PM	14.7	2.5	687.4	7.32	-11.1	5.5	
6:11 PM	14.8	2.3	625.0	7.27	-8.1	3.2	
6:14 PM	14.8	2.2	608.3	7.24	-4.8	3.3	
6:17 PM	14.7	2.1	605.3	7.23	-1.5	4.3	
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

[illegible]

FORM FOR GROUNDWATER SAMPLING

Project: City of Council Bluffs Alter Trading Cooperation ASR Monofill	
Monitoring Well/Piezometer ID: MW-1	Date: 2/17/2026
Gradient: Down	Sampler: Garrett Horak

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):	81.2
Initial Static Water Level (feet):	15.31
Initial Groundwater Elevation (ft-amsl):	-0.10
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)	
2:12 PM	Purging start time.						
2:15 PM	14.6	1.3	1302.7	7.06	218.6	18.9	
2:18 PM	14.6	0.7	1333.6	7.04	99.6	74.3	
2:21 PM	14.5	0.5	1352.6	7.04	-3.0	28.3	
2:24 PM	14.4	0.4	1365.7	7.05	-39.5	46.3	
2:27 PM	14.4	0.4	1371.0	7.06	-57.4	21.8	
2:30 PM	14.3	0.3	1375.5	7.07	-69.4	48.4	
2:33 PM	14.3	0.3	1375.6	7.08	-78.0	117.0	
2:36 PM	14.3	0.3	1378.0	7.08	-84.6	76.3	
2:39 PM	14.3	0.3	1376.6	7.08	-90.0	24.4	
2:42 PM	14.3	0.3	1379.5	7.09	-94.1	33.6	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	3.2
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	30:00
Average Purge Rate (mL/min):	106.67

D. WELL MAINTENANCE

Does the well require any future maintenance?		No
If yes, explain:		
Additional Comments:	Color: Clear with black flakes Odor: None	

FORM FOR GROUNDWATER SAMPLING

[illegible]

FORM FOR GROUNDWATER SAMPLING

Project:	City of Council Bluffs Alter Trading Cooperation ASR Monofill		
Monitoring Well/Piezometer ID:	MW-3	Date:	2/18/2026
Gradient:	Down	Sampler:	Garrett Horak

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):	13.20
Initial Groundwater Elevation (ft-amsl):	965.62
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)	
9:28 AM	Purging start time.						
9:31 AM	13.4	1.5	1099.8	7.24	52.8	48.6	
9:34 AM	13.6	0.9	1124.8	7.13	-59.1	40.5	
9:37 AM	13.6	0.7	1127.8	7.09	-78.0	36.6	
9:40 AM	13.6	0.5	1132.9	7.07	-86.3	30.1	
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: Gray Odor: None

FORM FOR GROUNDWATER SAMPLING

Project:	City of Council Bluffs Alter Trading Cooperation ASR Monofill		
Monitoring Well/Piezometer ID:	MW-4	Date:	2/17/2026
Gradient:	Up	Sampler:	Garrett Horak

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):	81.5
Initial Static Water Level (feet):	10.50
Initial Groundwater Elevation (ft-amsl):	965.53
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)	
5:14 PM	Purging start time.						
5:17 PM	15.1	3.1	1471.5	7.22	123.3	3.1	
5:20 PM	13.1	1.5	1658.4	7.19	29.0	2.7	
5:23 PM	13.1	0.7	1681.5	7.20	-29.5	2.7	
5:26 PM	13.1	0.5	1687.5	7.21	-57.2	3.6	
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:	City of Council Bluffs Alter Trading Cooperation ASR Monofill		
Monitoring Well/Piezometer ID:	MW-5	Date:	2/17/2026
Gradient:	Up	Sampler:	Garrett Horak

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):	21.0
Initial Static Water Level (feet):	12.25
Initial Groundwater Elevation (ft-amsl):	965.27
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	12.9	3.4	909.4	7.61	192.2	26.7	
12:40 PM	13.0	2.7	924.8	7.59	183.6	14.9	
12:43 PM	13.0	2.2	933.1	7.56	177.9	7.1	
12:46 PM	12.9	1.9	936.6	7.54	173.1	5.6	
Parameters stabilized, sample collected.							

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

D. WELL MAINTENANCE

Does the well require any future maintenance?		No
If yes, explain:		
Additional Comments:	Color: Clear with pieces of ants Odor: None	

FORM FOR GROUNDWATER SAMPLING

Project:	City of Council Bluffs Alter Trading Cooperation ASR Monofill		
Monitoring Well/Piezometer ID:	MW-8	Date:	2/18/2026
Gradient:	Down	Sampler:	Garrett Horak

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):	80.2
Initial Static Water Level (feet):	10.91
Initial Groundwater Elevation (ft-amsl):	965.62
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)	
2:13 PM	Purging start time.						
2:16 PM	14.4	1.7	1110.0	7.82	182.7	3.1	
2:19 PM	14.5	1.0	1111.2	7.81	167.5	3.1	
2:22 PM	14.5	0.7	1117.9	7.78	122.0	3.6	
2:25 PM	14.5	0.5	1124.5	7.76	35.3	4.9	
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: Beige Odor: Sulfur	

FORM FOR GROUNDWATER SAMPLING

[illegible]

FORM FOR GROUNDWATER SAMPLING

Project:	City of Council Bluffs Alter Trading Coperation ASR Monofill		
Monitoring Well/Piezometer ID:	MW-10	Date:	2/18/2026
Gradient:	Down	Sampler:	Garrett Horak

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):	69.0
Initial Static Water Level (feet):	14.81
Initial Groundwater Elevation (ft-amsl):	965.77
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)	
8:36 AM	Purging start time.						
8:39 AM	13.9	1.9	389.9	8.86	167.2	3.4	
8:42 AM	14.0	1.1	374.5	9.11	157.2	3.5	
8:45 AM	14.1	0.9	373.3	9.22	150.0	3.1	
8:48 AM	14.1	0.7	374.6	9.27	144.4	2.6	
8:51 AM	14.2	0.6	376.0	9.30	139.5	2.5	
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):	15:00
Average Purge Rate (mL/min):	140.00

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:	City of Council Bluffs Alter Trading Coperation ASR Monofill		
Monitoring Well/Piezometer ID:	MW-11	Date:	2/18/2026
Gradient:	Down	Sampler:	Garrett Horak

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):	25.4
Initial Static Water Level (feet):	16.70
Initial Groundwater Elevation (ft-amsl):	965.83
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)	
7:54 AM	Purging start time.						
7:57 AM	14.2	2.3	741.4	7.53	124.8	15.8	
8:00 AM	14.4	1.6	738.8	7.26	136.9	20.8	
8:03 AM	14.4	1.3	730.5	7.17	142.4	18.3	
8:06 AM	14.1	1.2	718.8	7.14	145.3	13.1	
8:09 AM	14.3	1.1	716.9	7.12	146.7	16.8	
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):	15:00
Average Purge Rate (mL/min):	140.00

D. WELL MAINTENANCE

Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color: Clear with black flakes Odor: None

FORM FOR GROUNDWATER SAMPLING

Project:	City of Council Bluffs Alter Trading Coperation ASR Monofill		
Monitoring Well/Piezometer ID:	MW-12	Date:	2/17/2026
Gradient:	Down	Sampler:	Garrett Horak

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):	22.5
Initial Static Water Level (feet):	16.38
Initial Groundwater Elevation (ft-amsl):	965.90
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)	
1:31 PM	Purging start time.						
1:34 PM	15.2	1.6	678.4	7.11	201.9	2.9	
1:37 PM	15.2	1.0	662.6	6.86	211.6	3.9	
1:40 PM	15.3	0.8	655.7	6.76	215.4	6.6	
1:43 PM	15.0	0.7	646.5	6.72	216.5	4.5	
1:46 PM	15.0	0.6	643.1	6.69	216.5	6.8	
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):	15:00
Average Purge Rate (mL/min):	146.67

D. WELL MAINTENANCE

Does the well require any future maintenance?		No
If yes, explain:		
Additional Comments:	Color: Clear Odor: None	

FORM FOR GROUNDWATER SAMPLING

[illegible]

FORM FOR GROUNDWATER SAMPLING

Project:	City of Council Bluffs Alter Trading Coperation ASR Monofill		
Monitoring Well/Piezometer ID:	MW-14R	Date:	2/18/2026
Gradient:	Down	Sampler:	Garrett Horak

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):	7.09
Initial Groundwater Elevation (ft-amsl):	965.49
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)	
10:16 AM	Purging start time.						
10:19 AM	8.9	2.5	767.2	7.40	14.1	29.6	
10:22 AM	8.9	1.7	751.5	7.27	14.6	16.0	
10:25 AM	8.8	1.4	747.2	7.22	13.9	19.2	
10:28 AM	8.8	1.2	744.6	7.19	13.4	19.2	
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: Beige Odor: None

FORM FOR GROUNDWATER SAMPLING

Project:	City of Council Bluffs Alter Trading Coperation ASR Monofill		
Monitoring Well/Piezometer ID:	MW-15R	Date:	2/18/2026
Gradient:	Down	Sampler:	Garrett Horak

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):	15.7
Initial Static Water Level (feet):	7.11
Initial Groundwater Elevation (ft-amsl):	965.39
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)	
11:06 AM	Purging start time.						
11:09 AM	9.1	3.3	593.1	7.26	64.9	14.0	
11:12 AM	9.1	2.8	592.1	7.22	65.9	10.6	
11:15 AM	9.2	2.3	593.4	7.18	65.9	7.8	
11:18 AM	9.2	1.9	596.0	7.15	65.2	5.7	
Parameters stabilized, sample collected.							

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

D. WELL MAINTENANCE

Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color: Clear Odor: None



Appendix B1

Laboratory Analytical Data Sheets

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/3/2026 1:58:41 PM

JOB DESCRIPTION

Annual GW Sampling 2026
Council Bluffs ASR Monofill
Council Bluffs ASR Monofill 2024

JOB NUMBER

310-326142-1

Eurofins Cedar Falls

Job Notes

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

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

Authorization



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

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Case Narrative

Client: SCS Engineers
Project: Annual GW Sampling 2026

Job ID: 310-326142-1

Job ID: 310-326142-1

Eurofins Cedar Falls

Job Narrative 310-326142-1

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 2/19/2026 4:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.4°C, 1.3°C and 1.9°C.

Diesel Range Organics

Method OA-2: The method blank for preparation batch 310-481618 and analytical batch 310-481929 contained Total Extractable Hydrocarbons above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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.

Eurofins Cedar Falls

Sample Summary

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
310-326142-1	MW-1	Groundwater	02/17/26 14:54	02/19/26 16:10	Iowa
310-326142-2	EPA-1AR	Groundwater	02/17/26 18:32	02/19/26 16:10	Iowa
310-326142-3	MW-2	Groundwater	02/17/26 15:44	02/19/26 16:10	Iowa
310-326142-4	EPA-2A	Groundwater	02/18/26 12:20	02/19/26 16:10	Iowa
310-326142-5	MW-3	Groundwater	02/18/26 09:56	02/19/26 16:10	Iowa
310-326142-6	MW-4	Groundwater	02/17/26 17:46	02/19/26 16:10	Iowa
310-326142-7	MW-5	Groundwater	02/18/26 13:05	02/19/26 16:10	Iowa
310-326142-8	MW-8	Groundwater	02/18/26 14:52	02/19/26 16:10	Iowa
310-326142-9	MW-9	Groundwater	02/18/26 14:05	02/19/26 16:10	Iowa
310-326142-10	MW-10	Groundwater	02/18/26 09:07	02/19/26 16:10	Iowa
310-326142-11	MW-11	Groundwater	02/18/26 09:25	02/19/26 16:10	Iowa
310-326142-12	MW-12	Groundwater	02/17/26 13:59	02/19/26 16:10	Iowa
310-326142-13	MW-13	Groundwater	02/17/26 16:41	02/19/26 16:10	Iowa
310-326142-14	MW-14R	Groundwater	02/18/26 10:50	02/19/26 16:10	Iowa
310-326142-15	MW-15R	Groundwater	02/18/26 11:30	02/19/26 16:10	Iowa
310-326142-16	MW-D	Ground Water	02/18/26 14:05	02/19/26 16:10	Iowa

Detection Summary

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Client Sample ID: MW-1

Lab Sample ID: 310-326142-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	40.9		5.00	2.25	mg/L	5		9056A	Total/NA
Iron	11.7		0.100	0.0500	mg/L	1		6020B	Total/NA
Ammonia	1.36		0.200	0.110	mg/L	1		350.1	Total/NA

Client Sample ID: EPA-1AR

Lab Sample ID: 310-326142-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11.5		5.00	2.25	mg/L	5		9056A	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 310-326142-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil	1130		294	176	ug/L	1		OA-2	Total/NA
Total Extractable Hydrocarbons	1760		490	235	ug/L	1		OA-2	Total/NA
Chloride	24.8		5.00	2.25	mg/L	5		9056A	Total/NA
Arsenic	0.159		0.00200	0.000530	mg/L	1		6020B	Total/NA
Iron	0.844		0.100	0.0500	mg/L	1		6020B	Total/NA
Ammonia	33.0		1.88	1.03	mg/L	9.38		350.1	Total/NA
Chemical Oxygen Demand	113		25.0	23.0	mg/L	5		SM 5220D	Total/NA

Client Sample ID: EPA-2A

Lab Sample ID: 310-326142-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	18.7		5.00	2.25	mg/L	5		9056A	Total/NA
Arsenic	0.00232		0.00200	0.000530	mg/L	1		6020B	Total/NA
Iron	0.0585	J	0.100	0.0500	mg/L	1		6020B	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 310-326142-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil	284	J	300	180	ug/L	1		OA-2	Total/NA
Total Extractable Hydrocarbons	472	J	500	240	ug/L	1		OA-2	Total/NA
Chloride	30.3		10.0	4.50	mg/L	10		9056A	Total/NA
Arsenic	0.175		0.00200	0.000530	mg/L	1		6020B	Total/NA
Iron	27.3		0.100	0.0500	mg/L	1		6020B	Total/NA
Ammonia	0.986		0.200	0.110	mg/L	1		350.1	Total/NA
Total Suspended Solids	60.0		15.0	10.5	mg/L	1		I-3765-85	Total/NA
Chemical Oxygen Demand	44.4		25.0	23.0	mg/L	5		SM 5220D	Total/NA

Client Sample ID: MW-4

Lab Sample ID: 310-326142-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	148		10.0	4.50	mg/L	10		9056A	Total/NA
Arsenic	0.00211		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.305		0.00200	0.000660	mg/L	1		6020B	Total/NA
Iron	18.1		0.100	0.0500	mg/L	1		6020B	Total/NA
Nickel	0.00313	J	0.00500	0.00230	mg/L	1		6020B	Total/NA
Ammonia	0.817		0.200	0.110	mg/L	1		350.1	Total/NA
Total Suspended Solids	38.0		15.0	10.5	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-5

Lab Sample ID: 310-326142-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	83.7		10.0	4.50	mg/L	10		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Client Sample ID: MW-5 (Continued)

Lab Sample ID: 310-326142-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.000884	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0761		0.00200	0.000660	mg/L	1		6020B	Total/NA
Iron	0.0859	J	0.100	0.0500	mg/L	1		6020B	Total/NA
Nickel	0.00480	J	0.00500	0.00230	mg/L	1		6020B	Total/NA
Total Suspended Solids	40.8		3.75	2.63	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 310-326142-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil	259	J	294	176	ug/L	1		OA-2	Total/NA
Total Extractable Hydrocarbons	493		490	235	ug/L	1		OA-2	Total/NA
Chloride	35.6		5.00	2.25	mg/L	5		9056A	Total/NA
Iron	1.36		0.100	0.0500	mg/L	1		6020B	Total/NA
Ammonia	0.454		0.200	0.110	mg/L	1		350.1	Total/NA
Chemical Oxygen Demand	71.2		25.0	23.0	mg/L	5		SM 5220D	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 310-326142-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil	1170		294	176	ug/L	1		OA-2	Total/NA
Total Extractable Hydrocarbons	1460		490	235	ug/L	1		OA-2	Total/NA
Chloride	46.3		10.0	4.50	mg/L	10		9056A	Total/NA
Iron	1.11		0.100	0.0500	mg/L	1		6020B	Total/NA
Chemical Oxygen Demand	109		50.0	46.0	mg/L	10		SM 5220D	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 310-326142-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil	241	J	294	176	ug/L	1		OA-2	Total/NA
Total Extractable Hydrocarbons	306	J	490	235	ug/L	1		OA-2	Total/NA
Chloride	20.8		5.00	2.25	mg/L	5		9056A	Total/NA
Arsenic	0.00975		0.00200	0.000530	mg/L	1		6020B	Total/NA
Iron	0.0855	J	0.100	0.0500	mg/L	1		6020B	Total/NA
Total Suspended Solids	4.75		1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 310-326142-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	18.1		5.00	2.25	mg/L	5		9056A	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 310-326142-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	46.2		5.00	2.25	mg/L	5		9056A	Total/NA
Lead	0.00193		0.000500	0.000330	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.75	J	1.88	1.31	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 310-326142-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	159		5.00	2.25	mg/L	5		9056A	Total/NA
Arsenic	0.00157	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Iron	0.422		0.100	0.0500	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.00		1.88	1.31	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Client Sample ID: MW-13 (Continued)

Lab Sample ID: 310-326142-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chemical Oxygen Demand	277		25.0	23.0	mg/L	5		SM 5220D	Total/NA

Client Sample ID: MW-14R

Lab Sample ID: 310-326142-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil	291	J	306	184	ug/L	1		OA-2	Total/NA
Total Extractable Hydrocarbons	409	J	510	245	ug/L	1		OA-2	Total/NA
Chloride	19.8		5.00	2.25	mg/L	5		9056A	Total/NA
Arsenic	0.00269		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.185		0.00200	0.000660	mg/L	1		6020B	Total/NA
Iron	1.25		0.100	0.0500	mg/L	1		6020B	Total/NA
Lead	0.00333		0.000500	0.000330	mg/L	1		6020B	Total/NA
Nickel	0.142		0.00500	0.00230	mg/L	1		6020B	Total/NA
Zinc	2.18		0.0200	0.0130	mg/L	1		6020B	Total/NA
Total Suspended Solids	9.38		1.88	1.31	mg/L	1		I-3765-85	Total/NA
Chemical Oxygen Demand	25.9		25.0	23.0	mg/L	5		SM 5220D	Total/NA

Client Sample ID: MW-15R

Lab Sample ID: 310-326142-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	31.1		5.00	2.25	mg/L	5		9056A	Total/NA
Arsenic	0.00191	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.256		0.00200	0.000660	mg/L	1		6020B	Total/NA
Iron	1.02		0.100	0.0500	mg/L	1		6020B	Total/NA
Nickel	0.00305	J	0.00500	0.00230	mg/L	1		6020B	Total/NA
Total Suspended Solids	4.00		1.88	1.31	mg/L	1		I-3765-85	Total/NA
Chemical Oxygen Demand	24.3	J	25.0	23.0	mg/L	5		SM 5220D	Total/NA

Client Sample ID: MW-D

Lab Sample ID: 310-326142-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil	1120		283	170	ug/L	1		OA-2	Total/NA
Total Extractable Hydrocarbons	1400	B	472	226	ug/L	1		OA-2	Total/NA
Chloride	30.0		5.00	2.25	mg/L	5		9056A	Total/NA
Iron	1.03		0.100	0.0500	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Client Sample ID: MW-1

Lab Sample ID: 310-326142-1

Date Collected: 02/17/26 14:54

Matrix: Groundwater

Date Received: 02/19/26 16:10

Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<313		313	281	ug/L		02/24/26 06:52	02/27/26 19:26	1
Diesel	<313		313	250	ug/L		02/24/26 06:52	02/27/26 19:26	1
Motor Oil	<313		313	188	ug/L		02/24/26 06:52	02/27/26 19:26	1
Total Extractable Hydrocarbons	<521		521	250	ug/L		02/24/26 06:52	02/27/26 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	81		25 - 150	02/24/26 06:52	02/27/26 19:26	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.9		5.00	2.25	mg/L			02/25/26 16:46	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	11.7		0.100	0.0500	mg/L		02/23/26 07:33	02/25/26 14:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	1.36		0.200	0.110	mg/L			02/23/26 22:18	1
Chemical Oxygen Demand (SM 5220D)	<25.0		25.0	23.0	mg/L			02/24/26 08:23	5

Client Sample Results

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Client Sample ID: EPA-1AR

Lab Sample ID: 310-326142-2

Date Collected: 02/17/26 18:32

Matrix: Groundwater

Date Received: 02/19/26 16:10

Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<300		300	270	ug/L		02/24/26 06:52	02/27/26 19:51	1
Diesel	<300		300	240	ug/L		02/24/26 06:52	02/27/26 19:51	1
Motor Oil	<300		300	180	ug/L		02/24/26 06:52	02/27/26 19:51	1
Total Extractable Hydrocarbons	<500		500	240	ug/L		02/24/26 06:52	02/27/26 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	71		25 - 150	02/24/26 06:52	02/27/26 19:51	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.5		5.00	2.25	mg/L			02/25/26 16:59	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.100		0.100	0.0500	mg/L		02/23/26 07:33	02/25/26 14:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.110	mg/L			02/23/26 22:18	1
Chemical Oxygen Demand (SM 5220D)	<25.0		25.0	23.0	mg/L			02/24/26 08:23	5

Client Sample Results

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Client Sample ID: MW-2

Lab Sample ID: 310-326142-3

Date Collected: 02/17/26 15:44

Matrix: Groundwater

Date Received: 02/19/26 16:10

Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<294		294	265	ug/L		02/24/26 06:52	02/27/26 20:16	1
Diesel	<294		294	235	ug/L		02/24/26 06:52	02/27/26 20:16	1
Motor Oil	1130		294	176	ug/L		02/24/26 06:52	02/27/26 20:16	1
Total Extractable Hydrocarbons	1760		490	235	ug/L		02/24/26 06:52	02/27/26 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	76		25 - 150	02/24/26 06:52	02/27/26 20:16	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.8		5.00	2.25	mg/L			02/25/26 17:13	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.159		0.00200	0.000530	mg/L		02/23/26 07:33	02/25/26 14:20	1
Iron	0.844		0.100	0.0500	mg/L		02/23/26 07:33	02/25/26 14:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	33.0		1.88	1.03	mg/L			02/23/26 23:19	9.38
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.31	mg/L			02/20/26 11:39	1
Chemical Oxygen Demand (SM 5220D)	113		25.0	23.0	mg/L			02/24/26 08:23	5

Client Sample Results

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Client Sample ID: EPA-2A

Lab Sample ID: 310-326142-4

Date Collected: 02/18/26 12:20

Matrix: Groundwater

Date Received: 02/19/26 16:10

Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<300		300	270	ug/L		02/24/26 06:52	02/27/26 20:42	1
Diesel	<300		300	240	ug/L		02/24/26 06:52	02/27/26 20:42	1
Motor Oil	<300		300	180	ug/L		02/24/26 06:52	02/27/26 20:42	1
Total Extractable Hydrocarbons	<500		500	240	ug/L		02/24/26 06:52	02/27/26 20:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	84		25 - 150	02/24/26 06:52	02/27/26 20:42	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.7		5.00	2.25	mg/L			02/25/26 17:26	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00232		0.00200	0.000530	mg/L		02/23/26 07:33	02/25/26 14:23	1
Iron	0.0585	J	0.100	0.0500	mg/L		02/23/26 07:33	02/25/26 14:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.110	mg/L			02/23/26 22:21	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.31	mg/L			02/20/26 11:39	1
Chemical Oxygen Demand (SM 5220D)	<25.0		25.0	23.0	mg/L			02/24/26 08:23	5

Client Sample Results

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Client Sample ID: MW-3

Lab Sample ID: 310-326142-5

Date Collected: 02/18/26 09:56

Matrix: Groundwater

Date Received: 02/19/26 16:10

Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<300		300	270	ug/L		02/24/26 06:52	02/27/26 21:07	1
Diesel	<300		300	240	ug/L		02/24/26 06:52	02/27/26 21:07	1
Motor Oil	284	J	300	180	ug/L		02/24/26 06:52	02/27/26 21:07	1
Total Extractable Hydrocarbons	472	J	500	240	ug/L		02/24/26 06:52	02/27/26 21:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	98		25 - 150	02/24/26 06:52	02/27/26 21:07	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.3		10.0	4.50	mg/L			02/25/26 17:39	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.175		0.00200	0.000530	mg/L		02/23/26 07:33	02/25/26 14:46	1
Iron	27.3		0.100	0.0500	mg/L		02/23/26 07:33	02/25/26 14:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.986		0.200	0.110	mg/L			02/23/26 22:23	1
Total Suspended Solids (USGS I-3765-85)	60.0		15.0	10.5	mg/L			02/20/26 11:39	1
Chemical Oxygen Demand (SM 5220D)	44.4		25.0	23.0	mg/L			02/24/26 08:23	5

Client Sample Results

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Client Sample ID: MW-4

Lab Sample ID: 310-326142-6

Date Collected: 02/17/26 17:46

Matrix: Groundwater

Date Received: 02/19/26 16:10

Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<313		313	281	ug/L		02/24/26 06:52	02/27/26 21:32	1
Diesel	<313		313	250	ug/L		02/24/26 06:52	02/27/26 21:32	1
Motor Oil	<313		313	188	ug/L		02/24/26 06:52	02/27/26 21:32	1
Total Extractable Hydrocarbons	<521		521	250	ug/L		02/24/26 06:52	02/27/26 21:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	70		25 - 150	02/24/26 06:52	02/27/26 21:32	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	148		10.0	4.50	mg/L			02/25/26 18:18	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00211		0.00200	0.000530	mg/L		02/23/26 07:33	02/25/26 14:48	1
Barium	0.305		0.00200	0.000660	mg/L		02/23/26 07:33	02/25/26 14:48	1
Iron	18.1		0.100	0.0500	mg/L		02/23/26 07:33	02/25/26 14:48	1
Lead	<0.000500		0.000500	0.000330	mg/L		02/23/26 07:33	02/25/26 14:48	1
Nickel	0.00313	J	0.00500	0.00230	mg/L		02/23/26 07:33	02/25/26 14:48	1
Zinc	<0.0200		0.0200	0.0130	mg/L		02/23/26 07:33	02/25/26 14:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.817		0.200	0.110	mg/L			02/23/26 22:23	1
Total Suspended Solids (USGS I-3765-85)	38.0		15.0	10.5	mg/L			02/20/26 11:39	1
Chemical Oxygen Demand (SM 5220D)	<25.0		25.0	23.0	mg/L			02/24/26 08:23	5

Client Sample Results

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Client Sample ID: MW-5

Lab Sample ID: 310-326142-7

Date Collected: 02/18/26 13:05

Matrix: Groundwater

Date Received: 02/19/26 16:10

Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<283		283	255	ug/L		02/24/26 06:52	02/27/26 21:57	1
Diesel	<283		283	226	ug/L		02/24/26 06:52	02/27/26 21:57	1
Motor Oil	<283		283	170	ug/L		02/24/26 06:52	02/27/26 21:57	1
Total Extractable Hydrocarbons	<472		472	226	ug/L		02/24/26 06:52	02/27/26 21:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	75		25 - 150	02/24/26 06:52	02/27/26 21:57	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.7		10.0	4.50	mg/L			02/25/26 18:31	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000884	J	0.00200	0.000530	mg/L		02/23/26 07:33	02/25/26 14:51	1
Barium	0.0761		0.00200	0.000660	mg/L		02/23/26 07:33	02/25/26 14:51	1
Iron	0.0859	J	0.100	0.0500	mg/L		02/23/26 07:33	02/25/26 14:51	1
Lead	<0.000500		0.000500	0.000330	mg/L		02/23/26 07:33	02/25/26 14:51	1
Nickel	0.00480	J	0.00500	0.00230	mg/L		02/23/26 07:33	02/25/26 14:51	1
Zinc	<0.0200		0.0200	0.0130	mg/L		02/23/26 07:33	02/25/26 14:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.110	mg/L			02/23/26 22:24	1
Total Suspended Solids (USGS I-3765-85)	40.8		3.75	2.63	mg/L			02/20/26 11:39	1
Chemical Oxygen Demand (SM 5220D)	<25.0		25.0	23.0	mg/L			02/24/26 08:23	5

Client Sample Results

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Client Sample ID: MW-8

Lab Sample ID: 310-326142-8

Date Collected: 02/18/26 14:52

Matrix: Groundwater

Date Received: 02/19/26 16:10

Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<294		294	265	ug/L		02/24/26 06:52	02/27/26 22:23	1
Diesel	<294		294	235	ug/L		02/24/26 06:52	02/27/26 22:23	1
Motor Oil	259	J	294	176	ug/L		02/24/26 06:52	02/27/26 22:23	1
Total Extractable Hydrocarbons	493		490	235	ug/L		02/24/26 06:52	02/27/26 22:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	98		25 - 150	02/24/26 06:52	02/27/26 22:23	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.6		5.00	2.25	mg/L			02/25/26 18:44	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.36		0.100	0.0500	mg/L		02/23/26 07:40	02/27/26 16:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	0.454		0.200	0.110	mg/L			02/23/26 22:25	1
Chemical Oxygen Demand (SM 5220D)	71.2		25.0	23.0	mg/L			02/24/26 08:23	5

Client Sample Results

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Client Sample ID: MW-9

Lab Sample ID: 310-326142-9

Date Collected: 02/18/26 14:05

Matrix: Groundwater

Date Received: 02/19/26 16:10

Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<294		294	265	ug/L		02/24/26 06:52	02/27/26 22:48	1
Diesel	<294		294	235	ug/L		02/24/26 06:52	02/27/26 22:48	1
Motor Oil	1170		294	176	ug/L		02/24/26 06:52	02/27/26 22:48	1
Total Extractable Hydrocarbons	1460		490	235	ug/L		02/24/26 06:52	02/27/26 22:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	88		25 - 150	02/24/26 06:52	02/27/26 22:48	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.3		10.0	4.50	mg/L			02/25/26 18:57	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.11		0.100	0.0500	mg/L		02/23/26 07:40	02/27/26 16:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.110	mg/L			02/23/26 22:26	1
Chemical Oxygen Demand (SM 5220D)	109		50.0	46.0	mg/L			02/24/26 08:23	10

Client Sample Results

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Client Sample ID: MW-10

Lab Sample ID: 310-326142-10

Date Collected: 02/18/26 09:07

Matrix: Groundwater

Date Received: 02/19/26 16:10

Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<294		294	265	ug/L		02/24/26 06:52	02/27/26 23:13	1
Diesel	<294		294	235	ug/L		02/24/26 06:52	02/27/26 23:13	1
Motor Oil	241	J	294	176	ug/L		02/24/26 06:52	02/27/26 23:13	1
Total Extractable Hydrocarbons	306	J	490	235	ug/L		02/24/26 06:52	02/27/26 23:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	95		25 - 150				02/24/26 06:52	02/27/26 23:13	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.8		5.00	2.25	mg/L			02/26/26 14:13	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00975		0.00200	0.000530	mg/L		02/23/26 07:40	02/27/26 16:40	1
Iron	0.0855	J	0.100	0.0500	mg/L		02/23/26 07:40	02/27/26 16:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.110	mg/L			02/23/26 22:26	1
Total Suspended Solids (USGS I-3765-85)	4.75		1.88	1.31	mg/L			02/20/26 11:39	1
Chemical Oxygen Demand (SM 5220D)	<25.0		25.0	23.0	mg/L			02/24/26 08:23	5

Client Sample Results

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Client Sample ID: MW-11

Lab Sample ID: 310-326142-11

Date Collected: 02/18/26 09:25

Matrix: Groundwater

Date Received: 02/19/26 16:10

Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<294		294	265	ug/L		02/24/26 06:52	02/27/26 23:38	1
Diesel	<294		294	235	ug/L		02/24/26 06:52	02/27/26 23:38	1
Motor Oil	<294		294	176	ug/L		02/24/26 06:52	02/27/26 23:38	1
Total Extractable Hydrocarbons	<490		490	235	ug/L		02/24/26 06:52	02/27/26 23:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	88		25 - 150	02/24/26 06:52	02/27/26 23:38	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.1		5.00	2.25	mg/L			02/26/26 14:26	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.100		0.100	0.0500	mg/L		02/23/26 07:40	02/27/26 16:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.110	mg/L			02/23/26 22:28	1
Chemical Oxygen Demand (SM 5220D)	<25.0		25.0	23.0	mg/L			02/24/26 08:23	5

Client Sample Results

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Client Sample ID: MW-12

Lab Sample ID: 310-326142-12

Date Collected: 02/17/26 13:59

Matrix: Groundwater

Date Received: 02/19/26 16:10

Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<300		300	270	ug/L		02/24/26 06:52	02/28/26 00:03	1
Diesel	<300		300	240	ug/L		02/24/26 06:52	02/28/26 00:03	1
Motor Oil	<300		300	180	ug/L		02/24/26 06:52	02/28/26 00:03	1
Total Extractable Hydrocarbons	<500		500	240	ug/L		02/24/26 06:52	02/28/26 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	66		25 - 150	02/24/26 06:52	02/28/26 00:03	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.2		5.00	2.25	mg/L			02/26/26 14:39	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.100		0.100	0.0500	mg/L		02/23/26 07:40	02/27/26 16:45	1
Lead	0.00193		0.000500	0.000330	mg/L		02/23/26 07:40	02/27/26 16:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.110	mg/L			02/23/26 22:28	1
Total Suspended Solids (USGS I-3765-85)	1.75	J	1.88	1.31	mg/L			02/20/26 11:39	1
Chemical Oxygen Demand (SM 5220D)	<25.0		25.0	23.0	mg/L			02/24/26 08:23	5

Client Sample Results

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Client Sample ID: MW-13

Lab Sample ID: 310-326142-13

Date Collected: 02/17/26 16:41

Matrix: Groundwater

Date Received: 02/19/26 16:10

Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<288		288	260	ug/L		02/24/26 06:52	02/28/26 00:29	1
Diesel	<288		288	231	ug/L		02/24/26 06:52	02/28/26 00:29	1
Motor Oil	<288		288	173	ug/L		02/24/26 06:52	02/28/26 00:29	1
Total Extractable Hydrocarbons	<481		481	231	ug/L		02/24/26 06:52	02/28/26 00:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	91		25 - 150	02/24/26 06:52	02/28/26 00:29	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	159		5.00	2.25	mg/L			02/26/26 14:52	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00157	J	0.00200	0.000530	mg/L		02/23/26 07:40	02/27/26 16:48	1
Iron	0.422		0.100	0.0500	mg/L		02/23/26 07:40	02/27/26 16:48	1
Lead	<0.000500		0.000500	0.000330	mg/L		02/23/26 07:40	02/27/26 16:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.110	mg/L			02/23/26 22:30	1
Total Suspended Solids (USGS I-3765-85)	2.00		1.88	1.31	mg/L			02/20/26 11:39	1
Chemical Oxygen Demand (SM 5220D)	277		25.0	23.0	mg/L			02/24/26 08:23	5

Client Sample Results

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Client Sample ID: MW-14R

Lab Sample ID: 310-326142-14

Date Collected: 02/18/26 10:50

Matrix: Groundwater

Date Received: 02/19/26 16:10

Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<306		306	276	ug/L		02/24/26 06:52	02/28/26 00:54	1
Diesel	<306		306	245	ug/L		02/24/26 06:52	02/28/26 00:54	1
Motor Oil	291	J	306	184	ug/L		02/24/26 06:52	02/28/26 00:54	1
Total Extractable Hydrocarbons	409	J	510	245	ug/L		02/24/26 06:52	02/28/26 00:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	78		25 - 150				02/24/26 06:52	02/28/26 00:54	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.8		5.00	2.25	mg/L			02/26/26 15:05	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00269		0.00200	0.000530	mg/L		02/23/26 07:40	02/27/26 16:55	1
Barium	0.185		0.00200	0.000660	mg/L		02/23/26 07:40	02/27/26 16:55	1
Iron	1.25		0.100	0.0500	mg/L		02/23/26 07:40	03/02/26 13:48	1
Lead	0.00333		0.000500	0.000330	mg/L		02/23/26 07:40	03/02/26 13:48	1
Nickel	0.142		0.00500	0.00230	mg/L		02/23/26 07:40	03/02/26 13:48	1
Zinc	2.18		0.0200	0.0130	mg/L		02/23/26 07:40	03/02/26 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.110	mg/L			02/23/26 22:31	1
Total Suspended Solids (USGS I-3765-85)	9.38		1.88	1.31	mg/L			02/20/26 11:01	1
Chemical Oxygen Demand (SM 5220D)	25.9		25.0	23.0	mg/L			02/24/26 08:23	5

Client Sample Results

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Client Sample ID: MW-15R

Lab Sample ID: 310-326142-15

Date Collected: 02/18/26 11:30

Matrix: Groundwater

Date Received: 02/19/26 16:10

Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<306		306	276	ug/L		02/24/26 06:52	02/28/26 01:19	1
Diesel	<306		306	245	ug/L		02/24/26 06:52	02/28/26 01:19	1
Motor Oil	<306		306	184	ug/L		02/24/26 06:52	02/28/26 01:19	1
Total Extractable Hydrocarbons	<510		510	245	ug/L		02/24/26 06:52	02/28/26 01:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	79		25 - 150	02/24/26 06:52	02/28/26 01:19	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.1		5.00	2.25	mg/L			02/26/26 15:19	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00191	J	0.00200	0.000530	mg/L		02/23/26 07:40	02/27/26 16:58	1
Barium	0.256		0.00200	0.000660	mg/L		02/23/26 07:40	02/27/26 16:58	1
Iron	1.02		0.100	0.0500	mg/L		02/23/26 07:40	03/02/26 14:01	1
Lead	<0.000500		0.000500	0.000330	mg/L		02/23/26 07:40	03/02/26 14:01	1
Nickel	0.00305	J	0.00500	0.00230	mg/L		02/23/26 07:40	03/02/26 14:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.110	mg/L			02/23/26 22:32	1
Total Suspended Solids (USGS I-3765-85)	4.00		1.88	1.31	mg/L			02/20/26 11:01	1
Chemical Oxygen Demand (SM 5220D)	24.3	J	25.0	23.0	mg/L			02/24/26 08:23	5

Client Sample Results

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Client Sample ID: MW-D

Lab Sample ID: 310-326142-16

Date Collected: 02/18/26 14:05

Matrix: Ground Water

Date Received: 02/19/26 16:10

Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<283		283	255	ug/L		02/24/26 07:50	03/02/26 18:02	1
Diesel	<283		283	226	ug/L		02/24/26 07:50	03/02/26 18:02	1
Motor Oil	1120		283	170	ug/L		02/24/26 07:50	03/02/26 18:02	1
Total Extractable Hydrocarbons	1400	B	472	226	ug/L		02/24/26 07:50	03/02/26 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	90		25 - 150	02/24/26 07:50	03/02/26 18:02	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.0		5.00	2.25	mg/L			02/26/26 15:58	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.03		0.100	0.0500	mg/L		02/23/26 07:40	03/02/26 14:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200	0.110	mg/L			02/23/26 22:33	1
Chemical Oxygen Demand (SM 5220D)	<25.0		25.0	23.0	mg/L			02/24/26 08:23	5

Definitions/Glossary

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

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.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Surrogate Summary

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Matrix: Ground Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	OTCN (25-150)					
310-326142-16	MW-D	90					
Surrogate Legend							
OTCN = n-Octacosane							

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Matrix: Groundwater

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	OTCN (25-150)					
310-326142-1	MW-1	81					
310-326142-2	EPA-1AR	71					
310-326142-3	MW-2	76					
310-326142-4	EPA-2A	84					
310-326142-5	MW-3	98					
310-326142-6	MW-4	70					
310-326142-7	MW-5	75					
310-326142-8	MW-8	98					
310-326142-9	MW-9	88					
310-326142-10	MW-10	95					
310-326142-11	MW-11	88					
310-326142-12	MW-12	66					
310-326142-13	MW-13	91					
310-326142-14	MW-14R	78					
310-326142-15	MW-15R	79					
Surrogate Legend							
OTCN = n-Octacosane							

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	OTCN (25-150)					
LCS 310-481605/2-A	Lab Control Sample	98					
LCS 310-481618/2-A	Lab Control Sample	95					
LCSD 310-481605/3-A	Lab Control Sample Dup	89					
LCSD 310-481618/3-A	Lab Control Sample Dup	81					
MB 310-481605/1-A	Method Blank	91					
MB 310-481618/1-A	Method Blank	85					
Surrogate Legend							
OTCN = n-Octacosane							

QC Sample Results

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 310-481605/1-A

Matrix: Water

Analysis Batch: 481929

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 481605

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<300		300	270	ug/L		02/24/26 06:52	02/27/26 10:57	1
Diesel	<300		300	240	ug/L		02/24/26 06:52	02/27/26 10:57	1
Motor Oil	<300		300	180	ug/L		02/24/26 06:52	02/27/26 10:57	1
Total Extractable Hydrocarbons	<500		500	240	ug/L		02/24/26 06:52	02/27/26 10:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	91		25 - 150	02/24/26 06:52	02/27/26 10:57	1

Lab Sample ID: LCS 310-481605/2-A

Matrix: Water

Analysis Batch: 481929

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 481605

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel	4000	3684		ug/L		92	38 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane	98		25 - 150

Lab Sample ID: LCSD 310-481605/3-A

Matrix: Water

Analysis Batch: 481929

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 481605

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel	4000	3443		ug/L		86	38 - 128	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
n-Octacosane	89		25 - 150

Lab Sample ID: MB 310-481618/1-A

Matrix: Water

Analysis Batch: 481929

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 481618

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<300		300	270	ug/L		02/24/26 07:50	02/27/26 12:13	1
Diesel	<300		300	240	ug/L		02/24/26 07:50	02/27/26 12:13	1
Motor Oil	<300		300	180	ug/L		02/24/26 07:50	02/27/26 12:13	1
Total Extractable Hydrocarbons	328.0	J	500	240	ug/L		02/24/26 07:50	02/27/26 12:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	85		25 - 150	02/24/26 07:50	02/27/26 12:13	1

Lab Sample ID: LCS 310-481618/2-A

Matrix: Water

Analysis Batch: 481929

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 481618

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel	4000	3423		ug/L		86	38 - 128

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QC Sample Results

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCS 310-481618/2-A

Matrix: Water

Analysis Batch: 481929

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 481618

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane	95		25 - 150

Lab Sample ID: LCSD 310-481618/3-A

Matrix: Water

Analysis Batch: 481929

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 481618

	Spike	LCSD	LCSD					%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Diesel	4000	3790		ug/L		95	38 - 128	10	35		

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane	81		25 - 150

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-481837/3

Matrix: Water

Analysis Batch: 481837

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<1.00		1.00	0.450	mg/L			02/25/26 13:04	1	

Lab Sample ID: LCS 310-481837/4

Matrix: Water

Analysis Batch: 481837

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	10.0	9.061		mg/L		91	90 - 110			

Lab Sample ID: MB 310-481976/3

Matrix: Water

Analysis Batch: 481976

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<1.00		1.00	0.450	mg/L			02/26/26 10:35	1	

Lab Sample ID: LCS 310-481976/4

Matrix: Water

Analysis Batch: 481976

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	10.0	8.998		mg/L		90	90 - 110			

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-481461/1-A

Matrix: Water

Analysis Batch: 481791

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 481461

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	<0.00200		0.00200	0.000530	mg/L		02/23/26 07:33	02/25/26 12:55	1	

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QC Sample Results

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

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

Lab Sample ID: MB 310-481461/1-A

Matrix: Water

Analysis Batch: 481791

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 481461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00200		0.00200	0.000660	mg/L		02/23/26 07:33	02/25/26 12:55	1
Lead	<0.000500		0.000500	0.000330	mg/L		02/23/26 07:33	02/25/26 12:55	1
Nickel	<0.00500		0.00500	0.00230	mg/L		02/23/26 07:33	02/25/26 12:55	1
Zinc	<0.0200	^+	0.0200	0.0130	mg/L		02/23/26 07:33	02/25/26 12:55	1

Lab Sample ID: MB 310-481461/1-A

Matrix: Water

Analysis Batch: 481905

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 481461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.100		0.100	0.0500	mg/L		02/23/26 07:33	02/26/26 14:02	1

Lab Sample ID: LCS 310-481461/2-A

Matrix: Water

Analysis Batch: 481791

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 481461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.1808		mg/L		90	80 - 120
Barium	0.100	0.08855		mg/L		89	80 - 120
Lead	0.200	0.2045		mg/L		102	80 - 120
Nickel	0.200	0.1887		mg/L		94	80 - 120
Zinc	0.200	0.2002	^+	mg/L		100	80 - 120

Lab Sample ID: LCS 310-481461/2-A

Matrix: Water

Analysis Batch: 481905

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 481461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.200	0.1761		mg/L		88	80 - 120

Lab Sample ID: MB 310-481463/1-A

Matrix: Water

Analysis Batch: 482038

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 481463

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		02/23/26 07:40	02/27/26 16:24	1
Barium	<0.00200		0.00200	0.000660	mg/L		02/23/26 07:40	02/27/26 16:24	1
Iron	<0.100		0.100	0.0500	mg/L		02/23/26 07:40	02/27/26 16:24	1
Lead	<0.000500		0.000500	0.000330	mg/L		02/23/26 07:40	02/27/26 16:24	1
Nickel	<0.00500		0.00500	0.00230	mg/L		02/23/26 07:40	02/27/26 16:24	1
Zinc	<0.0200		0.0200	0.0130	mg/L		02/23/26 07:40	02/27/26 16:24	1

Lab Sample ID: LCS 310-481463/2-A

Matrix: Water

Analysis Batch: 482038

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 481463

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.1848		mg/L		92	80 - 120
Barium	0.100	0.09827		mg/L		98	80 - 120
Iron	0.200	0.2018		mg/L		101	80 - 120

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QC Sample Results

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

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

Lab Sample ID: LCS 310-481463/2-A

Matrix: Water

Analysis Batch: 482038

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 481463

Analyte	Spike		LCS		Unit	D	%Rec	%Rec	
	Added	Result	Qualifier	Result				Limits	
Lead	0.200	0.2234			mg/L		112	80 - 120	
Nickel	0.200	0.1917			mg/L		96	80 - 120	
Zinc	0.200	0.1737			mg/L		87	80 - 120	

Lab Sample ID: 310-326142-8 MS

Matrix: Groundwater

Analysis Batch: 482038

Client Sample ID: MW-8

Prep Type: Total/NA

Prep Batch: 481463

Analyte	Sample		Spike	MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	
Arsenic	0.000744	J	0.200	0.1626		mg/L		81	75 - 125	
Barium	0.222		0.100	0.2980		mg/L		76	75 - 125	
Iron	1.36		0.200	1.465	4	mg/L		54	75 - 125	
Lead	<0.000500		0.200	0.1832		mg/L		92	75 - 125	
Nickel	<0.00500		0.200	0.1560		mg/L		78	75 - 125	
Zinc	<0.0200	F1	0.200	0.1436	F1	mg/L		72	75 - 125	

Lab Sample ID: 310-326142-8 MSD

Matrix: Groundwater

Analysis Batch: 482038

Client Sample ID: MW-8

Prep Type: Total/NA

Prep Batch: 481463

Analyte	Sample		Spike	MSD		Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier		Result	Qualifier				Limits		RPD	Limit
Arsenic	0.000744	J	0.200	0.1900		mg/L		95	75 - 125		16	20
Barium	0.222		0.100	0.3476		mg/L		125	75 - 125		15	20
Iron	1.36		0.200	1.726	4	mg/L		185	75 - 125		16	20
Lead	<0.000500		0.200	0.2107		mg/L		105	75 - 125		14	20
Nickel	<0.00500		0.200	0.1878		mg/L		94	75 - 125		18	20
Zinc	<0.0200	F1	0.200	0.1724		mg/L		86	75 - 125		18	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 310-481600/101

Matrix: Water

Analysis Batch: 481600

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ammonia	<0.200		0.200	0.110	mg/L			02/23/26 22:56	1

Lab Sample ID: MB 310-481600/45

Matrix: Water

Analysis Batch: 481600

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ammonia	<0.200		0.200	0.110	mg/L			02/23/26 22:11	1

Lab Sample ID: LCS 310-481600/102

Matrix: Water

Analysis Batch: 481600

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike		LCS		Unit	D	%Rec	%Rec	
	Added	Result	Qualifier	Result				Limits	
Ammonia	5.65	5.862			mg/L		104	90 - 110	

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 310-481600/46
Matrix: Water
Analysis Batch: 481600

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	5.65	6.039		mg/L		107	90 - 110

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

Lab Sample ID: MB 310-481418/1
Matrix: Water
Analysis Batch: 481418

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			02/20/26 11:01	1

Lab Sample ID: LCS 310-481418/2
Matrix: Water
Analysis Batch: 481418

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	98.00		mg/L		98	82 - 117

Lab Sample ID: MB 310-481422/1
Matrix: Water
Analysis Batch: 481422

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			02/20/26 11:39	1

Lab Sample ID: LCS 310-481422/2
Matrix: Water
Analysis Batch: 481422

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

Method: SM 5220D - COD

Lab Sample ID: MB 310-481621/32
Matrix: Water
Analysis Batch: 481621

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<5.00		5.00	4.60	mg/L			02/24/26 08:23	1

Lab Sample ID: MB 310-481621/5
Matrix: Water
Analysis Batch: 481621

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<5.00		5.00	4.60	mg/L			02/24/26 08:23	1

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Method: SM 5220D - COD (Continued)

Lab Sample ID: LCS 310-481621/3

Matrix: Water

Analysis Batch: 481621

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	62.7	59.50		mg/L		95	85 - 115

Lab Sample ID: LCS 310-481621/33

Matrix: Water

Analysis Batch: 481621

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	62.7	59.83		mg/L		95	85 - 115

Lab Sample ID: 310-326142-5 MS

Matrix: Groundwater

Analysis Batch: 481621

Client Sample ID: MW-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	44.4		250	339.4		mg/L		118	84 - 141

Lab Sample ID: 310-326142-5 MSD

Matrix: Groundwater

Analysis Batch: 481621

Client Sample ID: MW-3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chemical Oxygen Demand	44.4		250	332.7		mg/L		115	84 - 141	2	14

QC Association Summary

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

GC Semi VOA

Prep Batch: 481605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-326142-1	MW-1	Total/NA	Groundwater	3510C	
310-326142-2	EPA-1AR	Total/NA	Groundwater	3510C	
310-326142-3	MW-2	Total/NA	Groundwater	3510C	
310-326142-4	EPA-2A	Total/NA	Groundwater	3510C	
310-326142-5	MW-3	Total/NA	Groundwater	3510C	
310-326142-6	MW-4	Total/NA	Groundwater	3510C	
310-326142-7	MW-5	Total/NA	Groundwater	3510C	
310-326142-8	MW-8	Total/NA	Groundwater	3510C	
310-326142-9	MW-9	Total/NA	Groundwater	3510C	
310-326142-10	MW-10	Total/NA	Groundwater	3510C	
310-326142-11	MW-11	Total/NA	Groundwater	3510C	
310-326142-12	MW-12	Total/NA	Groundwater	3510C	
310-326142-13	MW-13	Total/NA	Groundwater	3510C	
310-326142-14	MW-14R	Total/NA	Groundwater	3510C	
310-326142-15	MW-15R	Total/NA	Groundwater	3510C	
MB 310-481605/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-481605/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-481605/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 481618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-326142-16	MW-D	Total/NA	Ground Water	3510C	
MB 310-481618/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-481618/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-481618/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 481929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-326142-1	MW-1	Total/NA	Groundwater	OA-2	481605
310-326142-2	EPA-1AR	Total/NA	Groundwater	OA-2	481605
310-326142-3	MW-2	Total/NA	Groundwater	OA-2	481605
310-326142-4	EPA-2A	Total/NA	Groundwater	OA-2	481605
310-326142-5	MW-3	Total/NA	Groundwater	OA-2	481605
310-326142-6	MW-4	Total/NA	Groundwater	OA-2	481605
310-326142-7	MW-5	Total/NA	Groundwater	OA-2	481605
310-326142-8	MW-8	Total/NA	Groundwater	OA-2	481605
310-326142-9	MW-9	Total/NA	Groundwater	OA-2	481605
310-326142-10	MW-10	Total/NA	Groundwater	OA-2	481605
310-326142-11	MW-11	Total/NA	Groundwater	OA-2	481605
310-326142-12	MW-12	Total/NA	Groundwater	OA-2	481605
310-326142-13	MW-13	Total/NA	Groundwater	OA-2	481605
310-326142-14	MW-14R	Total/NA	Groundwater	OA-2	481605
310-326142-15	MW-15R	Total/NA	Groundwater	OA-2	481605
MB 310-481605/1-A	Method Blank	Total/NA	Water	OA-2	481605
MB 310-481618/1-A	Method Blank	Total/NA	Water	OA-2	481618
LCS 310-481605/2-A	Lab Control Sample	Total/NA	Water	OA-2	481605
LCS 310-481618/2-A	Lab Control Sample	Total/NA	Water	OA-2	481618
LCSD 310-481605/3-A	Lab Control Sample Dup	Total/NA	Water	OA-2	481605
LCSD 310-481618/3-A	Lab Control Sample Dup	Total/NA	Water	OA-2	481618

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

GC Semi VOA

Analysis Batch: 482054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-326142-16	MW-D	Total/NA	Ground Water	OA-2	481618

HPLC/IC

Analysis Batch: 481837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-326142-1	MW-1	Total/NA	Groundwater	9056A	
310-326142-2	EPA-1AR	Total/NA	Groundwater	9056A	
310-326142-3	MW-2	Total/NA	Groundwater	9056A	
310-326142-4	EPA-2A	Total/NA	Groundwater	9056A	
310-326142-5	MW-3	Total/NA	Groundwater	9056A	
310-326142-6	MW-4	Total/NA	Groundwater	9056A	
310-326142-7	MW-5	Total/NA	Groundwater	9056A	
310-326142-8	MW-8	Total/NA	Groundwater	9056A	
310-326142-9	MW-9	Total/NA	Groundwater	9056A	
MB 310-481837/3	Method Blank	Total/NA	Water	9056A	
LCS 310-481837/4	Lab Control Sample	Total/NA	Water	9056A	

Analysis Batch: 481976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-326142-10	MW-10	Total/NA	Groundwater	9056A	
310-326142-11	MW-11	Total/NA	Groundwater	9056A	
310-326142-12	MW-12	Total/NA	Groundwater	9056A	
310-326142-13	MW-13	Total/NA	Groundwater	9056A	
310-326142-14	MW-14R	Total/NA	Groundwater	9056A	
310-326142-15	MW-15R	Total/NA	Groundwater	9056A	
310-326142-16	MW-D	Total/NA	Ground Water	9056A	
MB 310-481976/3	Method Blank	Total/NA	Water	9056A	
LCS 310-481976/4	Lab Control Sample	Total/NA	Water	9056A	

Metals

Prep Batch: 481461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-326142-1	MW-1	Total/NA	Groundwater	3005A	
310-326142-2	EPA-1AR	Total/NA	Groundwater	3005A	
310-326142-3	MW-2	Total/NA	Groundwater	3005A	
310-326142-4	EPA-2A	Total/NA	Groundwater	3005A	
310-326142-5	MW-3	Total/NA	Groundwater	3005A	
310-326142-6	MW-4	Total/NA	Groundwater	3005A	
310-326142-7	MW-5	Total/NA	Groundwater	3005A	
MB 310-481461/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-481461/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 481463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-326142-8	MW-8	Total/NA	Groundwater	3005A	
310-326142-9	MW-9	Total/NA	Groundwater	3005A	
310-326142-10	MW-10	Total/NA	Groundwater	3005A	
310-326142-11	MW-11	Total/NA	Groundwater	3005A	
310-326142-12	MW-12	Total/NA	Groundwater	3005A	
310-326142-13	MW-13	Total/NA	Groundwater	3005A	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Metals (Continued)

Prep Batch: 481463 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-326142-14	MW-14R	Total/NA	Groundwater	3005A	
310-326142-15	MW-15R	Total/NA	Groundwater	3005A	
310-326142-16	MW-D	Total/NA	Ground Water	3005A	
MB 310-481463/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-481463/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-326142-8 MS	MW-8	Total/NA	Groundwater	3005A	
310-326142-8 MSD	MW-8	Total/NA	Groundwater	3005A	

Analysis Batch: 481791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-326142-1	MW-1	Total/NA	Groundwater	6020B	481461
310-326142-2	EPA-1AR	Total/NA	Groundwater	6020B	481461
310-326142-3	MW-2	Total/NA	Groundwater	6020B	481461
310-326142-4	EPA-2A	Total/NA	Groundwater	6020B	481461
310-326142-5	MW-3	Total/NA	Groundwater	6020B	481461
310-326142-6	MW-4	Total/NA	Groundwater	6020B	481461
310-326142-7	MW-5	Total/NA	Groundwater	6020B	481461
MB 310-481461/1-A	Method Blank	Total/NA	Water	6020B	481461
LCS 310-481461/2-A	Lab Control Sample	Total/NA	Water	6020B	481461

Analysis Batch: 481905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-481461/1-A	Method Blank	Total/NA	Water	6020B	481461
LCS 310-481461/2-A	Lab Control Sample	Total/NA	Water	6020B	481461

Analysis Batch: 482038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-326142-8	MW-8	Total/NA	Groundwater	6020B	481463
310-326142-9	MW-9	Total/NA	Groundwater	6020B	481463
310-326142-10	MW-10	Total/NA	Groundwater	6020B	481463
310-326142-11	MW-11	Total/NA	Groundwater	6020B	481463
310-326142-12	MW-12	Total/NA	Groundwater	6020B	481463
310-326142-13	MW-13	Total/NA	Groundwater	6020B	481463
310-326142-14	MW-14R	Total/NA	Groundwater	6020B	481463
310-326142-15	MW-15R	Total/NA	Groundwater	6020B	481463
MB 310-481463/1-A	Method Blank	Total/NA	Water	6020B	481463
LCS 310-481463/2-A	Lab Control Sample	Total/NA	Water	6020B	481463
310-326142-8 MS	MW-8	Total/NA	Groundwater	6020B	481463
310-326142-8 MSD	MW-8	Total/NA	Groundwater	6020B	481463

Analysis Batch: 482144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-326142-14	MW-14R	Total/NA	Groundwater	6020B	481463
310-326142-15	MW-15R	Total/NA	Groundwater	6020B	481463
310-326142-16	MW-D	Total/NA	Ground Water	6020B	481463

General Chemistry

Analysis Batch: 481418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-326142-14	MW-14R	Total/NA	Groundwater	I-3765-85	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

General Chemistry (Continued)

Analysis Batch: 481418 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-326142-15	MW-15R	Total/NA	Groundwater	I-3765-85	
MB 310-481418/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-481418/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 481422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-326142-3	MW-2	Total/NA	Groundwater	I-3765-85	
310-326142-4	EPA-2A	Total/NA	Groundwater	I-3765-85	
310-326142-5	MW-3	Total/NA	Groundwater	I-3765-85	
310-326142-6	MW-4	Total/NA	Groundwater	I-3765-85	
310-326142-7	MW-5	Total/NA	Groundwater	I-3765-85	
310-326142-10	MW-10	Total/NA	Groundwater	I-3765-85	
310-326142-12	MW-12	Total/NA	Groundwater	I-3765-85	
310-326142-13	MW-13	Total/NA	Groundwater	I-3765-85	
MB 310-481422/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-481422/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 481600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-326142-1	MW-1	Total/NA	Groundwater	350.1	
310-326142-2	EPA-1AR	Total/NA	Groundwater	350.1	
310-326142-3	MW-2	Total/NA	Groundwater	350.1	
310-326142-4	EPA-2A	Total/NA	Groundwater	350.1	
310-326142-5	MW-3	Total/NA	Groundwater	350.1	
310-326142-6	MW-4	Total/NA	Groundwater	350.1	
310-326142-7	MW-5	Total/NA	Groundwater	350.1	
310-326142-8	MW-8	Total/NA	Groundwater	350.1	
310-326142-9	MW-9	Total/NA	Groundwater	350.1	
310-326142-10	MW-10	Total/NA	Groundwater	350.1	
310-326142-11	MW-11	Total/NA	Groundwater	350.1	
310-326142-12	MW-12	Total/NA	Groundwater	350.1	
310-326142-13	MW-13	Total/NA	Groundwater	350.1	
310-326142-14	MW-14R	Total/NA	Groundwater	350.1	
310-326142-15	MW-15R	Total/NA	Groundwater	350.1	
310-326142-16	MW-D	Total/NA	Ground Water	350.1	
MB 310-481600/101	Method Blank	Total/NA	Water	350.1	
MB 310-481600/45	Method Blank	Total/NA	Water	350.1	
LCS 310-481600/102	Lab Control Sample	Total/NA	Water	350.1	
LCS 310-481600/46	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 481621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-326142-1	MW-1	Total/NA	Groundwater	SM 5220D	
310-326142-2	EPA-1AR	Total/NA	Groundwater	SM 5220D	
310-326142-3	MW-2	Total/NA	Groundwater	SM 5220D	
310-326142-4	EPA-2A	Total/NA	Groundwater	SM 5220D	
310-326142-5	MW-3	Total/NA	Groundwater	SM 5220D	
310-326142-6	MW-4	Total/NA	Groundwater	SM 5220D	
310-326142-7	MW-5	Total/NA	Groundwater	SM 5220D	
310-326142-8	MW-8	Total/NA	Groundwater	SM 5220D	
310-326142-9	MW-9	Total/NA	Groundwater	SM 5220D	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

General Chemistry (Continued)

Analysis Batch: 481621 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-326142-10	MW-10	Total/NA	Groundwater	SM 5220D	
310-326142-11	MW-11	Total/NA	Groundwater	SM 5220D	
310-326142-12	MW-12	Total/NA	Groundwater	SM 5220D	
310-326142-13	MW-13	Total/NA	Groundwater	SM 5220D	
310-326142-14	MW-14R	Total/NA	Groundwater	SM 5220D	
310-326142-15	MW-15R	Total/NA	Groundwater	SM 5220D	
310-326142-16	MW-D	Total/NA	Ground Water	SM 5220D	
MB 310-481621/32	Method Blank	Total/NA	Water	SM 5220D	
MB 310-481621/5	Method Blank	Total/NA	Water	SM 5220D	
LCS 310-481621/3	Lab Control Sample	Total/NA	Water	SM 5220D	
LCS 310-481621/33	Lab Control Sample	Total/NA	Water	SM 5220D	
310-326142-5 MS	MW-3	Total/NA	Groundwater	SM 5220D	
310-326142-5 MSD	MW-3	Total/NA	Groundwater	SM 5220D	

Lab Chronicle

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Client Sample ID: MW-1

Date Collected: 02/17/26 14:54

Date Received: 02/19/26 16:10

Lab Sample ID: 310-326142-1

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			481605	J5BR	EET CF	02/24/26 06:52
Total/NA	Analysis	OA-2		1	481929	C3AA	EET CF	02/27/26 19:26
Total/NA	Analysis	9056A		5	481837	HE7K	EET CF	02/25/26 16:46
Total/NA	Prep	3005A			481461	RLT9	EET CF	02/23/26 07:33
Total/NA	Analysis	6020B		1	481791	NFT2	EET CF	02/25/26 14:15
Total/NA	Analysis	350.1		1	481600	ZJX4	EET CF	02/23/26 22:18
Total/NA	Analysis	SM 5220D		5	481621	HE7K	EET CF	02/24/26 08:23

Client Sample ID: EPA-1AR

Date Collected: 02/17/26 18:32

Date Received: 02/19/26 16:10

Lab Sample ID: 310-326142-2

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			481605	J5BR	EET CF	02/24/26 06:52
Total/NA	Analysis	OA-2		1	481929	C3AA	EET CF	02/27/26 19:51
Total/NA	Analysis	9056A		5	481837	HE7K	EET CF	02/25/26 16:59
Total/NA	Prep	3005A			481461	RLT9	EET CF	02/23/26 07:33
Total/NA	Analysis	6020B		1	481791	NFT2	EET CF	02/25/26 14:17
Total/NA	Analysis	350.1		1	481600	ZJX4	EET CF	02/23/26 22:18
Total/NA	Analysis	SM 5220D		5	481621	HE7K	EET CF	02/24/26 08:23

Client Sample ID: MW-2

Date Collected: 02/17/26 15:44

Date Received: 02/19/26 16:10

Lab Sample ID: 310-326142-3

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			481605	J5BR	EET CF	02/24/26 06:52
Total/NA	Analysis	OA-2		1	481929	C3AA	EET CF	02/27/26 20:16
Total/NA	Analysis	9056A		5	481837	HE7K	EET CF	02/25/26 17:13
Total/NA	Prep	3005A			481461	RLT9	EET CF	02/23/26 07:33
Total/NA	Analysis	6020B		1	481791	NFT2	EET CF	02/25/26 14:20
Total/NA	Analysis	350.1		9.38	481600	ZJX4	EET CF	02/23/26 23:19
Total/NA	Analysis	I-3765-85		1	481422	HE7K	EET CF	02/20/26 11:39
Total/NA	Analysis	SM 5220D		5	481621	HE7K	EET CF	02/24/26 08:23

Client Sample ID: EPA-2A

Date Collected: 02/18/26 12:20

Date Received: 02/19/26 16:10

Lab Sample ID: 310-326142-4

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			481605	J5BR	EET CF	02/24/26 06:52
Total/NA	Analysis	OA-2		1	481929	C3AA	EET CF	02/27/26 20:42
Total/NA	Analysis	9056A		5	481837	HE7K	EET CF	02/25/26 17:26

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Client Sample ID: EPA-2A

Date Collected: 02/18/26 12:20

Date Received: 02/19/26 16:10

Lab Sample ID: 310-326142-4

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			481461	RLT9	EET CF	02/23/26 07:33
Total/NA	Analysis	6020B		1	481791	NFT2	EET CF	02/25/26 14:23
Total/NA	Analysis	350.1		1	481600	ZJX4	EET CF	02/23/26 22:21
Total/NA	Analysis	I-3765-85		1	481422	HE7K	EET CF	02/20/26 11:39
Total/NA	Analysis	SM 5220D		5	481621	HE7K	EET CF	02/24/26 08:23

Client Sample ID: MW-3

Date Collected: 02/18/26 09:56

Date Received: 02/19/26 16:10

Lab Sample ID: 310-326142-5

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			481605	J5BR	EET CF	02/24/26 06:52
Total/NA	Analysis	OA-2		1	481929	C3AA	EET CF	02/27/26 21:07
Total/NA	Analysis	9056A		10	481837	HE7K	EET CF	02/25/26 17:39
Total/NA	Prep	3005A			481461	RLT9	EET CF	02/23/26 07:33
Total/NA	Analysis	6020B		1	481791	NFT2	EET CF	02/25/26 14:46
Total/NA	Analysis	350.1		1	481600	ZJX4	EET CF	02/23/26 22:23
Total/NA	Analysis	I-3765-85		1	481422	HE7K	EET CF	02/20/26 11:39
Total/NA	Analysis	SM 5220D		5	481621	HE7K	EET CF	02/24/26 08:23

Client Sample ID: MW-4

Date Collected: 02/17/26 17:46

Date Received: 02/19/26 16:10

Lab Sample ID: 310-326142-6

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			481605	J5BR	EET CF	02/24/26 06:52
Total/NA	Analysis	OA-2		1	481929	C3AA	EET CF	02/27/26 21:32
Total/NA	Analysis	9056A		10	481837	HE7K	EET CF	02/25/26 18:18
Total/NA	Prep	3005A			481461	RLT9	EET CF	02/23/26 07:33
Total/NA	Analysis	6020B		1	481791	NFT2	EET CF	02/25/26 14:48
Total/NA	Analysis	350.1		1	481600	ZJX4	EET CF	02/23/26 22:23
Total/NA	Analysis	I-3765-85		1	481422	HE7K	EET CF	02/20/26 11:39
Total/NA	Analysis	SM 5220D		5	481621	HE7K	EET CF	02/24/26 08:23

Client Sample ID: MW-5

Date Collected: 02/18/26 13:05

Date Received: 02/19/26 16:10

Lab Sample ID: 310-326142-7

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			481605	J5BR	EET CF	02/24/26 06:52
Total/NA	Analysis	OA-2		1	481929	C3AA	EET CF	02/27/26 21:57
Total/NA	Analysis	9056A		10	481837	HE7K	EET CF	02/25/26 18:31
Total/NA	Prep	3005A			481461	RLT9	EET CF	02/23/26 07:33
Total/NA	Analysis	6020B		1	481791	NFT2	EET CF	02/25/26 14:51

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Client Sample ID: MW-5

Date Collected: 02/18/26 13:05

Date Received: 02/19/26 16:10

Lab Sample ID: 310-326142-7

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	350.1		1	481600	ZJX4	EET CF	02/23/26 22:24
Total/NA	Analysis	I-3765-85		1	481422	HE7K	EET CF	02/20/26 11:39
Total/NA	Analysis	SM 5220D		5	481621	HE7K	EET CF	02/24/26 08:23

Client Sample ID: MW-8

Date Collected: 02/18/26 14:52

Date Received: 02/19/26 16:10

Lab Sample ID: 310-326142-8

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			481605	J5BR	EET CF	02/24/26 06:52
Total/NA	Analysis	OA-2		1	481929	C3AA	EET CF	02/27/26 22:23
Total/NA	Analysis	9056A		5	481837	HE7K	EET CF	02/25/26 18:44
Total/NA	Prep	3005A			481463	RLT9	EET CF	02/23/26 07:40
Total/NA	Analysis	6020B		1	482038	NFT2	EET CF	02/27/26 16:30
Total/NA	Analysis	350.1		1	481600	ZJX4	EET CF	02/23/26 22:25
Total/NA	Analysis	SM 5220D		5	481621	HE7K	EET CF	02/24/26 08:23

Client Sample ID: MW-9

Date Collected: 02/18/26 14:05

Date Received: 02/19/26 16:10

Lab Sample ID: 310-326142-9

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			481605	J5BR	EET CF	02/24/26 06:52
Total/NA	Analysis	OA-2		1	481929	C3AA	EET CF	02/27/26 22:48
Total/NA	Analysis	9056A		10	481837	HE7K	EET CF	02/25/26 18:57
Total/NA	Prep	3005A			481463	RLT9	EET CF	02/23/26 07:40
Total/NA	Analysis	6020B		1	482038	NFT2	EET CF	02/27/26 16:37
Total/NA	Analysis	350.1		1	481600	ZJX4	EET CF	02/23/26 22:26
Total/NA	Analysis	SM 5220D		10	481621	HE7K	EET CF	02/24/26 08:23

Client Sample ID: MW-10

Date Collected: 02/18/26 09:07

Date Received: 02/19/26 16:10

Lab Sample ID: 310-326142-10

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			481605	J5BR	EET CF	02/24/26 06:52
Total/NA	Analysis	OA-2		1	481929	C3AA	EET CF	02/27/26 23:13
Total/NA	Analysis	9056A		5	481976	HE7K	EET CF	02/26/26 14:13
Total/NA	Prep	3005A			481463	RLT9	EET CF	02/23/26 07:40
Total/NA	Analysis	6020B		1	482038	NFT2	EET CF	02/27/26 16:40
Total/NA	Analysis	350.1		1	481600	ZJX4	EET CF	02/23/26 22:26
Total/NA	Analysis	I-3765-85		1	481422	HE7K	EET CF	02/20/26 11:39
Total/NA	Analysis	SM 5220D		5	481621	HE7K	EET CF	02/24/26 08:23

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Client Sample ID: MW-11

Date Collected: 02/18/26 09:25

Date Received: 02/19/26 16:10

Lab Sample ID: 310-326142-11

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			481605	J5BR	EET CF	02/24/26 06:52
Total/NA	Analysis	OA-2		1	481929	C3AA	EET CF	02/27/26 23:38
Total/NA	Analysis	9056A		5	481976	HE7K	EET CF	02/26/26 14:26
Total/NA	Prep	3005A			481463	RLT9	EET CF	02/23/26 07:40
Total/NA	Analysis	6020B		1	482038	NFT2	EET CF	02/27/26 16:42
Total/NA	Analysis	350.1		1	481600	ZJX4	EET CF	02/23/26 22:28
Total/NA	Analysis	SM 5220D		5	481621	HE7K	EET CF	02/24/26 08:23

Client Sample ID: MW-12

Date Collected: 02/17/26 13:59

Date Received: 02/19/26 16:10

Lab Sample ID: 310-326142-12

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			481605	J5BR	EET CF	02/24/26 06:52
Total/NA	Analysis	OA-2		1	481929	C3AA	EET CF	02/28/26 00:03
Total/NA	Analysis	9056A		5	481976	HE7K	EET CF	02/26/26 14:39
Total/NA	Prep	3005A			481463	RLT9	EET CF	02/23/26 07:40
Total/NA	Analysis	6020B		1	482038	NFT2	EET CF	02/27/26 16:45
Total/NA	Analysis	350.1		1	481600	ZJX4	EET CF	02/23/26 22:28
Total/NA	Analysis	I-3765-85		1	481422	HE7K	EET CF	02/20/26 11:39
Total/NA	Analysis	SM 5220D		5	481621	HE7K	EET CF	02/24/26 08:23

Client Sample ID: MW-13

Date Collected: 02/17/26 16:41

Date Received: 02/19/26 16:10

Lab Sample ID: 310-326142-13

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			481605	J5BR	EET CF	02/24/26 06:52
Total/NA	Analysis	OA-2		1	481929	C3AA	EET CF	02/28/26 00:29
Total/NA	Analysis	9056A		5	481976	HE7K	EET CF	02/26/26 14:52
Total/NA	Prep	3005A			481463	RLT9	EET CF	02/23/26 07:40
Total/NA	Analysis	6020B		1	482038	NFT2	EET CF	02/27/26 16:48
Total/NA	Analysis	350.1		1	481600	ZJX4	EET CF	02/23/26 22:30
Total/NA	Analysis	I-3765-85		1	481422	HE7K	EET CF	02/20/26 11:39
Total/NA	Analysis	SM 5220D		5	481621	HE7K	EET CF	02/24/26 08:23

Client Sample ID: MW-14R

Date Collected: 02/18/26 10:50

Date Received: 02/19/26 16:10

Lab Sample ID: 310-326142-14

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			481605	J5BR	EET CF	02/24/26 06:52
Total/NA	Analysis	OA-2		1	481929	C3AA	EET CF	02/28/26 00:54
Total/NA	Analysis	9056A		5	481976	HE7K	EET CF	02/26/26 15:05

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Client Sample ID: MW-14R

Lab Sample ID: 310-326142-14

Date Collected: 02/18/26 10:50

Matrix: Groundwater

Date Received: 02/19/26 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			481463	RLT9	EET CF	02/23/26 07:40
Total/NA	Analysis	6020B		1	482038	NFT2	EET CF	02/27/26 16:55
Total/NA	Prep	3005A			481463	RLT9	EET CF	02/23/26 07:40
Total/NA	Analysis	6020B		1	482144	NFT2	EET CF	03/02/26 13:48
Total/NA	Analysis	350.1		1	481600	ZJX4	EET CF	02/23/26 22:31
Total/NA	Analysis	I-3765-85		1	481418	HE7K	EET CF	02/20/26 11:01
Total/NA	Analysis	SM 5220D		5	481621	HE7K	EET CF	02/24/26 08:23

Client Sample ID: MW-15R

Lab Sample ID: 310-326142-15

Date Collected: 02/18/26 11:30

Matrix: Groundwater

Date Received: 02/19/26 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			481605	J5BR	EET CF	02/24/26 06:52
Total/NA	Analysis	OA-2		1	481929	C3AA	EET CF	02/28/26 01:19
Total/NA	Analysis	9056A		5	481976	HE7K	EET CF	02/26/26 15:19
Total/NA	Prep	3005A			481463	RLT9	EET CF	02/23/26 07:40
Total/NA	Analysis	6020B		1	482038	NFT2	EET CF	02/27/26 16:58
Total/NA	Prep	3005A			481463	RLT9	EET CF	02/23/26 07:40
Total/NA	Analysis	6020B		1	482144	NFT2	EET CF	03/02/26 14:01
Total/NA	Analysis	350.1		1	481600	ZJX4	EET CF	02/23/26 22:32
Total/NA	Analysis	I-3765-85		1	481418	HE7K	EET CF	02/20/26 11:01
Total/NA	Analysis	SM 5220D		5	481621	HE7K	EET CF	02/24/26 08:23

Client Sample ID: MW-D

Lab Sample ID: 310-326142-16

Date Collected: 02/18/26 14:05

Matrix: Ground Water

Date Received: 02/19/26 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			481618	J5BR	EET CF	02/24/26 07:50
Total/NA	Analysis	OA-2		1	482054	C3AA	EET CF	03/02/26 18:02
Total/NA	Analysis	9056A		5	481976	HE7K	EET CF	02/26/26 15:58
Total/NA	Prep	3005A			481463	RLT9	EET CF	02/23/26 07:40
Total/NA	Analysis	6020B		1	482144	NFT2	EET CF	03/02/26 14:04
Total/NA	Analysis	350.1		1	481600	ZJX4	EET CF	02/23/26 22:33
Total/NA	Analysis	SM 5220D		5	481621	HE7K	EET CF	02/24/26 08:23

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: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Laboratory: Eurofins Cedar Falls

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

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-27

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

Method Summary

Client: SCS Engineers
Project/Site: Annual GW Sampling 2026

Job ID: 310-326142-1
SDG: Council Bluffs ASR Monofill

Method	Method Description	Protocol	Laboratory
OA-2	Iowa - Extractable Petroleum Hydrocarbons (GC)	Iowa DNR	EET CF
9056A	Anions, Ion Chromatography	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
350.1	Nitrogen, Ammonia	EPA	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
SM 5220D	COD	SM	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CF

Protocol References:

EPA = US Environmental Protection Agency
Iowa DNR = Iowa Department of Natural Resources
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



Environment Testing
America



310-326142 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>SLS</u>			
City/State: <u>CITY</u>	STATE	Project:	
Receipt Information			
Date/Time Received: <u>2/19/26</u> <u>1610</u>	Received By: <u>[Signature]</u>		
Delivery Type ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☒ Yes ☐ No		If yes: Cooler ID. _____	
Multiple Coolers? ☒ Yes ☐ No		If yes: Cooler # <u>1</u> of <u>3</u>	
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: <u>BB</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>1.3</u>		Corrected Temp (°C): <u>1.3</u>	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e g , bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			



Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>SCS</u>			
City/State: <u>CITY</u>	STATE	Project:	
Receipt Information			
Date/Time Received:	DATE <u>2/19/26</u>	TIME <u>1600</u>	Received By: <u>[Signature]</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		If yes: Cooler ID.	
☒ Yes ☐ No		<u>2</u>	
Multiple Coolers?		If yes: Cooler # <u>2</u> of <u>3</u>	
☒ Yes ☐ No			
Cooler Custody Seals Present?		If yes: Cooler custody seals intact?	
☐ Yes ☒ No		☐ Yes ☐ No	
Sample Custody Seals Present?		If yes: Sample custody seals intact?	
☐ Yes ☒ No		☐ Yes ☐ No	
Trip Blank Present?		If yes: Which VOA samples are in cooler? ↓	
☐ Yes ☒ No			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>BB</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature: If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>1.0</u>		Corrected Temp (°C): <u>1.0</u>	
• Sample Container Temperature			
Container(s) used.	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C).			
Corrected Temp (°C).			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client. <u>SLS</u>			
City/State. <u>CITY</u>	STATE	Project	
Receipt Information			
Date/Time Received	DATE <u>2/19/26</u>	TIME <u>1640</u>	Received By <u>[Signature]</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other. _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		If yes: Cooler ID.	
☒ Yes ☐ No			
Multiple Coolers?		If yes: Cooler # <u>3</u> of <u>3</u>	
☒ Yes ☐ No			
Cooler Custody Seals Present?		If yes: Cooler custody seals intact?	
☐ Yes ☒ No		☐ Yes ☐ No	
Sample Custody Seals Present?		If yes: Sample custody seals intact?	
☐ Yes ☒ No		☐ Yes ☐ No	
Trip Blank Present?		If yes: Which VOA samples are in cooler? ↓	
☐ Yes ☒ No			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID <u>B13</u>		Correction Factor (°C). <u>0</u>	
• Temp Blank Temperature: If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C) <u>0.4</u>		Corrected Temp (°C): <u>0.4</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No			
a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login.			
Additional Comments			

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Chain of Custody Record



Cedar Falls IA 50613-6907
phone 319.277.2401 fax 319.277.2425

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

Groundwater

Other

Regulatory Program

Project Manager

Client Contact		Project Manager		Site Contact:		Date:		COC No	
Email:		Cell:		Lab Contact:		Carrier:		1 of 1 COCs	
Kevin Jensen - SCS Engineers		1690 All-State Court, Suite 100		Analysis Turnaround Time		For Lab Use Only		Sampler	
West Des Moines Iowa 50265		515-631-6154		CALENDAR DAYS		Walk-in Client		Lab Sampling	
kjensen@scsengineers.com		Other:		WORKING DAYS		Job / SDG No.			
Project Name: Annual GW Sampling 2026		2 weeks		1 week					
Site: Council Bluffs ASR Monofill		1 day		2 days					
P O #		1 day							
Sample Identification		Sample Date	Sample Time	Sample Type (G=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
MW 1		2-17	1454	G	GW		Total Iron	X	
EPA-1AR		2-17	1432	G	GW		Total Suspended Solids	X	
MW-2		2-17	1544	G	GW		Total Zinc	X	
EPA-2A		2-18	1220	G	GW		Total Nickel	X	
MW-3		2-18	1456	G	GW		Total Lead	X	
MW-4		2-17	1746	G	GW		Total Arsenic	X	
MW-5		2-18	1305	G	GW		Perform MS / MSD (Y / N)	X	
MW-8		2-18	1452	G	GW		Filtered Sample (Y / N)	X	
MW-9		2-18	1405	G	GW				
MW 10		2-18	1407	G	GW				
MW 11		2-18	1325	G	GW				
MW 12		2-17	1359	G	GW				
MW 13		2-17	1641	G	GW				
MW 14R	2-18	1600	1650	G	GW				
MW 15R		2-18	1130	G	GW				
MW-D		--	--	G	GW				
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		
Possible Hazard Identification							Return to Client		
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.							Disposal by Lab		
Non-Hazardous							Archive for		
Special Instructions/QC Requirements & Comments							Months		
Custody Seals Intact		Yes		No		Cooler Temp (°C)		Therm ID No.	
Relinquished by		Garrett Horan		Company		Received by		Date/Time	
Relinquished by		Company		Company		Received by		Date/Time	
Relinquished by		Company		Company		Received in Laboratory by		Date/Time	
Form No. CA-C-WJ-002, Rev. 1/23, dated 4/16/2019							WNU		

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-326142-1
SDG Number: Council Bluffs ASR Monofill

Login Number: 326142

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.	False	Refer to Job Narrative for details.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
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 B2

Data Validation

Completed by: Beth Kephart

Lab Report Date: 3/3/2026

Site Name: Council Bluffs-Alter ASR Monofill

Lab Report Number: 310-326142-1

OK NO N/A NOTES

Sample Collection and Sample Handling

Chain of Custody

Temperature

Preservation

Condition

Reporting Limits

Case Narrative

Holding Times

X			
X			
X			
X			
X			
X			
X			

Analytical Sensitivity and Blanks

Method Blank Detections

Trip Blank Detections

	X		Method OA2: The method blank for preparation batch 310-481618 and analytical batch 310-481929 contained Total Extractable Hydrocarbons above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.
		X	

Accuracy

ICV/CCV

LCS/LCSD

MS/MSD

Surrogates (organics only)

	X		Continuing Calibration Verification (CCV) is outside acceptance limits (high biased) for zinc associated with preparation batch 481461 and analytical batch 481791. Analyte was not detected over the laboratory reporting limit (RL).
X			
	X		The Matrix Spike (MS) recovery is outside of control limits for zinc associated with laboratory preparation batch 310-481463 and analytical batch 310-482038. Iron present in original sample is greater than 4 times the matrix spike (MS) concentration for preparation batch 310-481463 and analytical batch 310-482038.
		X	

Precision

QA/QC Sample RPDs

Field Duplicates

X			
X			The duplicate sample was collected from MW-9 during the 2026 sampling event. All parameters had <50% relative difference, with the exception of Chemical Oxygen Demand (COD). Constituents with j flag concentrations were not considered for the duplicate sample comparisons.



Appendix C

Summary of Groundwater Chemistry

Total Metals Constituents		Sample Date	MW-4 UPG	MW-5 UPG	EPA-1AR DNG	EPA-2A DNG	MW-1 DNG	MW-2 DNG	MW-3 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14R DNG	MW-15R DNG		
Arsenic, mg/L (CAS NO - 7440-38-2)			4/19/2012	< 0.004	0.0061	N/A	N/A	N/A	0.159	0.177	N/A	N/A	0.0077	N/A	N/A	0.0484	0.0719	0.0965	
			9/12/2012	N/A	N/A	N/A	0.0284	0.383	0.177	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			3/19/2013	N/A	N/A	N/A	0.0211	0.178	N/A	N/A	N/A	N/A	N/A	0.00679	N/A	N/A	0.0159	0.0258	0.0292
			9/18/2013	N/A	N/A	N/A	0.0206	N/A	0.194	0.153	N/A	N/A	N/A	0.00775	N/A	N/A	0.00708	0.024	0.0385
			3/18/2014	N/A	N/A	N/A	0.0246	N/A	0.139	0.261	N/A	N/A	N/A	0.00703	N/A	N/A	0.00691	0.0177	0.0205
			9/9/2014	< 0.001	0.00375	N/A	0.0159	N/A	0.215	0.155	N/A	N/A	N/A	< 0.001	N/A	N/A	0.0101	N/A	N/A
			3/16/2015	0.00136	0.00396	N/A	0.012	N/A	0.162	0.154	N/A	N/A	N/A	0.00773	N/A	N/A	0.00898	0.0168	0.027
			9/1/2015	0.00159	0.00442	N/A	0.0111	N/A	0.171	0.218	N/A	N/A	N/A	0.00875	N/A	N/A	0.0121	0.017	0.0348
			4/14/2016	0.00201	0.00689	N/A	0.0103	N/A	0.149	0.207	N/A	N/A	N/A	0.00889	N/A	N/A	0.0216	0.0191	0.0401
			9/1/2016	0.00084*	0.00344	N/A	0.0104	N/A	0.152	0.155	N/A	N/A	N/A	0.00743	N/A	N/A	0.00954	0.0206	0.0415
			3/7/2017	0.00127*	0.00155*	N/A	0.0117	N/A	0.142	0.162	N/A	N/A	N/A	0.00837	N/A	N/A	0.00384	0.0182	0.119
			4/3/2018	0.000836*	0.00123*	N/A	0.00502	N/A	0.19	0.136	N/A	N/A	N/A	0.0096	N/A	N/A	0.0028	0.00977	0.0168
			6/20/2019	0.0015*	0.0012*	N/A	0.00185*	N/A	0.198	0.172	N/A	N/A	N/A	N/A	N/A	N/A	0.00675	N/A	N/A
			10/8/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0127	N/A	N/A	N/A	N/A	N/A
			4/1/2020	0.00132*	0.00124*	N/A	0.00195*	N/A	0.159	0.11	N/A	N/A	N/A	0.0133	N/A	N/A	0.004	0.00653	0.0194
			6/16/2021	0.000892*	0.000878*	N/A	0.00344	N/A	0.141	0.176	N/A	N/A	N/A	0.00942	N/A	N/A	0.00174*	0.019	0.00778
			8/30/2022	0.00134*	0.0013*	N/A	0.00528	N/A	0.168	0.15	N/A	N/A	N/A	0.00837	N/A	N/A	0.00258	0.0121	0.0115
			6/28/2023	N/A	N/A	N/A	0.00186*	N/A	0.112	0.139	N/A	N/A	N/A	0.00931	N/A	N/A	0.00856	0.00451	0.00511
			4/17/2024	0.00146*	0.000872*	N/A	0.00198*	N/A	0.2	0.169	N/A	N/A	N/A	0.000609*	N/A	N/A	0.00175*	0.00365	0.00325
			4/9/2025	0.00176*	0.000647*	N/A	0.00174*	N/A	0.175	N/A	N/A	N/A	N/A	0.0117	N/A	N/A	0.00712	0.00133*	0.00271
Barium, mg/L (CAS NO - 7440-39-3)			2/17/2026	0.00211	0.000884*	N/A	0.00232	N/A	0.159	0.175	N/A	N/A	0.00975	N/A	N/A	0.00157*	0.00269	0.00191*	
			4/19/2012	0.254	0.353	N/A	N/A	N/A	0.845	N/A	N/A	N/A	0.226	N/A	N/A	0.605	2.96	2.93	
			9/12/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.699	0.618
			3/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.765	0.902
			9/18/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.17	0.867
			3/18/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.831	0.864
			9/9/2014	0.275	0.151	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			3/16/2015	0.296	0.149	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.551	0.904
			9/1/2015	0.338	0.154	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.524	0.598
			4/14/2016	0.357	0.122	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.565	0.891
			9/1/2016	0.298	0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.773	0.913
			3/7/2017	0.276	0.0966	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.628	1.48
			4/3/2018	0.279	0.0557	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.49	0.99
			6/20/2019	0.294	0.0499	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			4/1/2020	0.256	0.0444	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.69	0.385
			6/16/2021	0.245	0.0798	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.986	0.689
			8/30/2022	0.277	0.0755	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.913	0.741
			6/28/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.703	0.498
			4/17/2024	0.251	0.0593	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.597	0.358
			4/9/2025	0.292	0.0734	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.185	0.35
Lead, mg/L (CAS NO - 7439-92-1)			2/17/2026	0.305	0.0761	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.185	0.256		
			4/19/2012	< 0.004	0.0059	N/A	N/A	N/A	0.0052	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A	0.0523	0.203	0.179
			9/12/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.102	0.00563	0.121	0.0221
			3/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.381	< 0.004	0.0325	0.0129
			9/18/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.125	0.0129	0.136	0.0538
			3/18/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0237	< 0.004	0.0329	0.0372
			9/9/2014	< 0.004	< 0.004	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.78	0.0398	N/A	N/A
			3/16/2015	0.00221	0.00672	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.116	0.0118	0.0537	0.0462
			9/1/2015	0.00158	0.00834	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.553	0.0304	0.0133	0.0108
			4/14/2016	0.00202	0.0114	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.18	0.0103	0.0241	0.029
			9/1/2016	0.000296*	0.00689	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.649	0.013	0.0246	0.019
			3/7/2017	< 0.0005	0.000876	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0416	0.000829	0.00304	0.00324
			4/3/2018	< 0.0005	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00294	0.00314	0.000297*	< 0.0005
			6/20/2019	0.000433*	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00527	0.000346*	N/A	N/A
			4/1/2020	< 0.0005	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00389	< 0.0005	< 0.0005	0.00219
			6/16/2021	< 0.0005	0.000219*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00381	< 0.0005	0.00162	0.000359*
			8/30/2022	0.000333*	0.000524	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00174	0.000269*	0.00119	< 0.0005
			6/28/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00304	0.00169	< 0.0005	< 0.0005
			4/17/2024	0.000315*	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000925	< 0.0005	< 0.0005	< 0.0005
			4/9/2025	< 0.0005	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00274	< 0.0005	0.000757	< 0.0005
Nickel, mg/L (CAS NO - 7440-02-0)			2/17/2026	< 0.0005	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00193	< 0.0005	0.00333	< 0.0005		
			4/19/2012	< 0.05	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	< 0.05	0.659	0.134
			9/12/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.153	0.0126
			3/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0924	< 0.05
			9/18/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.321	0.0371
			3/18/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.147	0.0255
			9/9/2014	0.0127	0.0264	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			3/16/2015	0.00159	0.0221	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.394	0.0245
			9/1/2015	0.00146	0.0169	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.168	0.0175
			4/14/2016	0.00185*	0.0283	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.376	0.0276
			9/1/2016	< 0.005	0.015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.114	0.0184
			3/7/2017	0.00118*	0.00976	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.539	0.018
			4/3/2018	0.00131*	0.00538	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.116	0.0118
			6/20/2019	0.00448*	0.00734	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			4/1/2020	< 0.005	0.00199*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.391	0.0084
			6/16/2021	0.00375*	0.00474*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.244	0.0104
			8/30/2022	0.00323*	0.00517	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.172	0.00748
			6/28/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.109	0.0068
			4/17/2024	0.00307*	0.00388*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0684	0.00396*
			4/9/2025	0.00246*	0.00354*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.101	0.00344*
Zinc, mg/L (CAS NO - 7440-66-6)			2/17/2026	0.00313*	0.0048*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.142	0.00305*		
			4/19/2012	< 0.02	0.0306	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	0.112	10.5	0.677
			9/12/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.93	N/A
			3/19/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.86	N/A
			9/18/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.36	N/A
			3/18/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.2	N/A
			9/9/2014	< 0.02	0.0208	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			3/16/2015	0.00941															

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Summary of Groundwater Chemistry

Alter Trading Corporation Waste Monofill Site (Closed) - 78-SDP-19-98C

	Sample Date	MW-4 UPG	MW-5 UPG	EPA-1AR DNG	EPA-2A DNG	MW-1 DNG	MW-2 DNG	MW-3 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14R DNG	MW-15R DNG
Total Metals Constituents																
Total Suspended Solids, mg/L (CAS NO - TSS)																
	3/18/2014	N/A	N/A	N/A	95	N/A	57	224	N/A	N/A	24	N/A	237	162	860	1280
	9/9/2014	43.3	636	N/A	107	N/A	73.5	864	N/A	N/A	26.4	N/A	473	714	N/A	N/A
	3/16/2015	109	1420	N/A	72	N/A	59.3	720	N/A	N/A	27.3	N/A	305	724	1040	1550
	9/1/2015	63.3	510	N/A	36.3	N/A	70.4	415	N/A	N/A	31.4	N/A	347	540	215	288
	4/14/2016	91.2	943	N/A	29.8	N/A	77.4	597	N/A	N/A	20.5	N/A	828	265	402	803
	9/1/2016	38	327	N/A	32.6	N/A	56	591	N/A	N/A	13.5	N/A	498	371	590	537
	3/7/2017	26.3	71.4	N/A	17.6	N/A	6.5	54.5	N/A	N/A	12.9	N/A	39.5	46.9	82.4	138
	4/3/2018	7.13	1*	N/A	3.87	N/A	18.5	34.6	N/A	N/A	13.3	N/A	3.38	22.3	29.8	36.8
	6/20/2019	29.1	1.75*	N/A	1.38*	N/A	45.2	42.9	N/A	N/A	N/A	N/A	3.5	12.8	N/A	N/A
	10/8/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14.3	N/A	N/A	N/A	N/A	N/A
	4/1/2020	32.5	7	N/A	< 1.88	N/A	2.5	35	N/A	N/A	2.33*	N/A	1*	4.13	14	20
	6/16/2021	29.6	3.75	N/A	2.63	N/A	48.7	48.1	N/A	N/A	6.38	N/A	3	4.25	41.7	13.5
	8/30/2022	36.5	91.6	N/A	2.63	N/A	48	43	N/A	N/A	45.4	N/A	19	14.9	32	28
	6/28/2023	N/A	N/A	N/A	< 5	N/A	41	42	N/A	N/A	24.3	N/A	1.5*	213	15	6
	4/17/2024	27	2.25	N/A	3.63	N/A	52	51	N/A	N/A	6.25	N/A	< 1.88	75.7	8.5	71
	4/9/2025	37.5	< 1.88	N/A	1.63*	N/A	12	N/A	N/A	N/A	12.4	N/A	1.88	10.4	2.63	3.13
	2/17/2026	38	40.8	N/A	< 1.88	N/A	< 1.88	60	N/A	N/A	4.75	N/A	1.75*	2	9.38	4

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
 Alter Trading Corporation Waste Monofill Site (Closed) - 78-SDP-19-98C

Other Constituents	Sample Date	MW-4 UPG	MW-5 UPG	EPA-1AR DNG	EPA-2A DNG	MW-1 DNG	MW-2 DNG	MW-3 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14R DNG	MW-15R DNG	
Ammonia as N, mg/L (CAS NO - 7664-41-7)	1/18/1991	N/A	N/A	N/A	0.5	1.5	20	1.3	0.5	<0.2	N/A	N/A	N/A	N/A	N/A	N/A	
	5/23/1991	N/A	N/A	0.5	0.94	1.1	84	1.6	1.4	0.5	N/A	N/A	N/A	N/A	N/A	N/A	
	9/27/1991	N/A	N/A	0.5	N/A	1.2	1.9	2.3	0.5	0.5	N/A	N/A	N/A	N/A	N/A	N/A	
	12/19/1991	N/A	N/A	0.5	0.8	1.2	110	1.8	1.3	0.5	1	0.5	N/A	N/A	N/A	N/A	
	10/14/1992	N/A	N/A	<0.2	0.5	1.2	110	2.2	1.2	<0.2	1.1	<0.2	N/A	N/A	N/A	N/A	
	1/15/1993	N/A	N/A	<0.2	N/A	N/A	N/A	N/A	N/A	N/A	0.98	<0.2	N/A	N/A	N/A	N/A	
	4/27/1993	N/A	N/A	<0.2	0.68	1.1	120	13	1.1	0.54	1.7	0.41	N/A	N/A	N/A	N/A	
	10/20/1993	N/A	N/A	<0.2	0.74	1.5	94	1.8	1.2	<0.2	1.4	<0.2	N/A	N/A	N/A	N/A	
	4/12/1994	N/A	N/A	<0.2	0.91	<0.2	130	2	0.36	<0.2	0.75	<0.2	N/A	N/A	N/A	N/A	
	10/21/1994	N/A	N/A	<0.2	0.72	0.61	140	1.8	1.2	<0.2	0.92	<0.2	N/A	N/A	N/A	N/A	
	5/28/1995	N/A	N/A	<0.2	0.37	1.1	90	1.4	1.2	<0.2	1.3	<0.2	N/A	N/A	N/A	N/A	
	9/18/1995	N/A	N/A	0.23	0.9	2.2	90	3.3	1.8	0.46	1.5	0.43	N/A	N/A	N/A	N/A	
	10/22/2002	N/A	N/A	N/A	6.6	<1	15.6	N/A	<1	<1	<1	<1	<1	1.1	N/A	N/A	
	2/12/2003	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.42	1.37	N/A	N/A
	3/25/2003	N/A	N/A	N/A	3.97	1.27	20.2	N/A	0.34	<0.2	0.34	<0.2	<0.2	1.4	N/A	N/A	N/A
	8/19/2003	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<0.2	0.82	N/A	N/A	N/A
	12/30/2003	N/A	N/A	N/A	5.28	<0.2	57.6	1.84	0.94	<0.2	0.40	<0.2	<0.2	2.17	N/A	N/A	N/A
	3/11/2004	N/A	N/A	<0.2	0.43	0.53	58.9	N/A	<0.2	1.04	0.39	<0.2	<0.2	2.05	N/A	N/A	N/A
	3/28/2005	N/A	N/A	<0.2	4.98	1.1	37.5	1.58	0.94	<0.2	0.58	<0.2	<0.2	1.85	N/A	N/A	N/A
	6/21/2005	N/A	N/A	<0.2	10	1.14	16.7	1.32	0.88	<0.2	0.58	<0.2	N/A	N/A	N/A	N/A	N/A
	9/14/2005	N/A	N/A	<0.2	<0.2	1.09	1.6	1.57	1.03	<0.2	0.81	<0.2	<0.2	2.3	5.94	0.6	
	12/12/2005	N/A	N/A	<0.2	0.713	0.871	61.5	1.57	0.834	<0.2	0.5	<0.2	<0.2	2.16	6.84	0.633	
	3/13/2006	N/A	N/A	<0.059	1.49	1.12	53.4	1.72	0.0993	0.123	0.691	0.139	0.103	<0.059	6.66	0.643	
	6/27/2006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.91	1.12
	9/21/2006	N/A	N/A	0.103	4.21	0.117	8.27	1.43	0.756	0.0666	0.542	0.168	0.0716	0.279	5.81	1.52	
	3/28/2007	0.0412	0.0412	0.0412	0.0737	0.0689	64	0.103	0.0412	0.0412	0.3	0.0412	0.0412	0.177	1.74	0.394	
	6/22/2007	0.131	0.331	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/13/2007	0.0355	0.114	0.0355	2.62	0.206	92.9	1.36	0.0355	0.0355	0.664	0.0355	0.0355	0.156	2.16	1.16	
	12/13/2007	0.246	<0.021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/26/2008	<0.037	<0.037	0.0582	2.34	0.122	78.5	2.29	<0.037	0.0435	<0.037	<0.037	<0.037	<0.037	0.282	0.148	
	9/16/2008	<0.2	<0.2	<0.2	4.96	0.515	96.1	1.16	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.241	1.69	
	3/10/2009	<0.037	<0.037	<0.037	0.0632	<0.037	155	1.38	<0.037	<0.037	<0.037	<0.037	<0.037	<0.037	0.561	0.35	
	9/10/2009	<0.037	0.167	<0.037	1.12	1.15	22.2	1.26	0.919	<0.037	0.649	<0.037	<0.037	<0.037	1.9	1.36	
	3/25/2010	1.1	<0.016	<0.016	0.913	0.891	35.3	1.49	0.293	<0.016	0.634	<0.016	<0.016	<0.016	0.581	0.497	
	9/29/2010	0.446	<0.016	N/A	0.0722	7.62	13.6	1.07	0.814	<0.016	0.0865	<0.016	<0.016	<0.016	0.18	0.0471	
	3/22/2011	<0.016	<0.016	<0.016	<0.016	1.2	23.2	1.52	0.223	<0.016	0.602	<0.016	<0.016	<0.016	0.793	0.0986	
	9/27/2011	0.0343	<0.016	<0.016	0.0285	1.56	7.75	0.55	0.417	<0.016	0.134	<0.016	0.0596	N/A	N/A	N/A	
	4/19/2012	<1	<1	<1	<1	12.6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	9/12/2012	0.216	0.127	<0.0219	0.0257	0.545	76.8	1.32	0.137	<0.0219	0.478	<0.0219	<0.0219	<0.0219	5.2	0.86	
	3/19/2013	1.06	<0.2	<0.2	0.72	1.13	30.5	N/A	0.735	<0.2	0.606	<0.2	<0.2	<0.2	3.2	0.519	
	9/18/2013	0.328	0.072	<0.2	0.105	0.203	29.1	1.1	0.472	<0.2	<0.2	<0.2	<0.2	<0.2	5.17	0.815	
	3/18/2014	<0.2	<0.2	<0.2	<0.2	0.598	61.4	0.951	0.185	<0.2	<0.2	<0.2	<0.2	<0.2	2.35	0.321	
	9/9/2014	0.902	0.19	<0.2	<0.2	1.17	1.76	0.979	0.772	<0.2	0.623	<0.2	<0.2	<0.2	N/A	N/A	
	3/16/2015	1.09	<0.2	<0.2	<0.2	1.13	22.6	0.991	0.842	<0.2	0.593	<0.2	<0.2	<0.2	1.11	0.163	
	9/1/2015	1.12	<0.2	<0.2	0.159	1.22	11.1	0.952	0.768	<0.2	0.601	<0.2	<0.2	<0.2	3.5	0.247	
	4/14/2016	1.12	<0.2	<0.2	0.147*	1.15	20.5	0.855	0.777	<0.2	0.469	<0.2	<0.2	<0.2	2.06	<0.2	
	9/1/2016	1.24	<0.2	1.36	1.22	1.23	15.6	1.07	0.783	<0.2	0.611	<0.2	<0.2	<0.2	6.94	0.136*	
	3/7/2017	1.21	<0.2	<0.2	0.166*	1.18	23.6	1.23	0.742	<0.2	0.616	<0.2	<0.2	<0.2	1.43	0.0989*	
	4/3/2018	0.626	<0.2	<0.2	0.682	1.11	24	1.13	0.622	<0.2	0.573	<0.2	<0.2	<0.2	1.45	0.0957*	
	6/20/2019	1.12	<0.2	<0.2	0.644	1.16	3.5	1.19	<0.2	<0.2	N/A	N/A	<0.2	<0.2	N/A	N/A	
	10/8/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.477	<0.2	N/A	N/A	N/A	N/A	
	4/1/2020	1.18	<0.2	<0.2	<0.2	0.8	27.2	0.864	0.418	<0.2	0.507	<0.2	<0.2	<0.2	2.54	0.0795*	
	4/1/2020	1.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	6/16/2021	1.15	<0.2	<0.2	0.703	0.711	10.8	0.76	0.52	<0.2	0.521	<0.2	<0.2	<0.2	3.68	0.133*	
	6/16/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.523	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	8/30/2022	1.22	<0.2	<0.2	0.191*	0.816	6.08	1.22	0.377	<0.2	0.563	<0.2	<0.2	<0.2	4.97	0.11*	
	8/30/2022	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	
	6/28/2023	N/A	N/A	<0.2	0.257	1.27	7.21	1.3	0.537	<0.2	0.666	<0.2	<0.2	<0.2	3.66	<0.2	
	6/28/2023	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	
	4/17/2024	0.779	<0.5	<0.5	<0.5	1.2	1.19	1.09	0.501	<0.5	<0.5	0.577	<0.5	<0.5	1.99	<0.5	
	4/17/2024	N/A	N/A	N/A	N/A	1.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/9/2025	0.827	<0.5	<0.5	<0.5	1.27	26.5	N/A	0.441*	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
	4/9/2025	N/A	N/A	N/A	N/A	1.35	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2/17/2026	0.817	<0.2	<0.2	<0.2	1.36	33	0.986	0.454	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Chemical Oxygen Demand, mg/L (CAS NO - COD)	2/17/2026	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	
	1/18/1991	N/A	N/A	N/A	120	34	420	47	68	120	N/A	N/A	N/A	N/A	N/A	N/A	
	5/23/1991	N/A	N/A	21	130	21	640	44	84	120	N/A	N/A	N/A	N/A	N/A	N/A	
	9/27/1991	N/A	N/A	16	N/A	22	550	16	85	76	N/A	N/A	N/A	N/A	N/A	N/A	
	12/19/1991	N/A	N/A	20	170	18	480	8	76	68	30	170	N/A	N/A	N/A	N/A	
	10/14/1992	N/A	N/A	22	270	16	520	70	87	57	38	53	N/A	N/A	N/A	N/A	
	1/15/1993	N/A	N/A	24	N/A	N/A	N/A</										

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Summary of Groundwater Chemistry

Alter Trading Corporation Waste Monofill Site (Closed) - 78-SDP-19-98C

Other Constituents	Sample Date	MW-4 UPG	MW-5 UPG	EPA-1AR DNG	EPA-2A DNG	MW-1 DNG	MW-2 DNG	MW-3 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14R DNG	MW-15R DNG	
Chemical Oxygen Demand, mg/L (CAS NO - COD)	4/3/2018	14	16.9	5.96	10.1	21.7	86.2	32.3	128	70.8	22	9.81	10.1	11.7	32.6	24.9	
	6/20/2019	25.2	19.9	13.2	14.6	24.9	45.1	29.5	116	97.9	N/A	N/A	15.3	15	N/A	N/A	
	10/8/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	18.2	< 5	N/A	N/A	N/A	N/A	
	4/1/2020	17.6	13.4	< 5	< 5	15	105	25.6	76.6	107	17.9	< 5	16.3	28.5	22.7	20.4	
	4/1/2020	16.3	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	
	6/16/2021	27.2	31.1	21.9	9.23	25.6	60.9	46.6	84.8	74.9	20.4	6.04	12.9	13.9	48.7	29.6	
	6/16/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	87.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	8/30/2022	20.7	8.82	5.47	7.9	22.8	56.3	21.3	94.3	59.1	21.6	5.47	6.69	10.3	36.2	23.4	
	8/30/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	64.5	N/A	N/A	N/A	N/A	N/A	N/A	
	6/28/2023	N/A	N/A	6.9	6.9	22.8	69.7	21.4	92.5	61.1	23.1	5.86	8.97	10	25.9	21.4	
	6/28/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.24	N/A	N/A	N/A	N/A	
	4/17/2024	< 25	< 25	< 25	< 25	< 25	50.3	24.1*	66.7	48.7	< 25	< 25	< 25	< 25	< 25	< 25	
	4/17/2024	N/A	N/A	N/A	N/A	32.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/9/2025	43.1	33.2	26.5	28.2	54.8	128	N/A	49.8	96.3	36.5	39.8	31.5	29.9	< 25	43.1	
	4/9/2025	< 25	N/A	N/A	N/A	49.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2/17/2026	< 25	< 25	< 25	< 25	< 25	133	44.4	71.2	< 25	< 25	< 25	< 25	277	25.9	24.3*	
	2/17/2026	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	109	N/A	N/A	N/A	N/A	N/A	N/A	
	Chloride, mg/L (CAS NO - 16887-00-6)	1/18/1991	N/A	N/A	N/A	30	61	200	51	500	310	N/A	N/A	N/A	N/A	N/A	N/A
		5/23/1991	N/A	N/A	N/A	30	320	59	220	43	510	240	N/A	N/A	N/A	N/A	N/A
		9/27/1991	N/A	N/A	34	N/A	50	180	51	500	170	N/A	N/A	N/A	N/A	N/A	N/A
		12/19/1991	N/A	N/A	29	310	51	190	29	550	220	240	28	N/A	N/A	N/A	N/A
		10/14/1992	N/A	N/A	27	350	49	180	110	500	170	210	32	N/A	N/A	N/A	N/A
		1/15/1993	N/A	N/A	20	N/A	N/A	N/A	N/A	N/A	N/A	210	28	N/A	N/A	N/A	N/A
		4/27/1993	N/A	N/A	25	410	48	120	61	560	64	110	35	N/A	N/A	N/A	N/A
		10/20/1993	N/A	N/A	19	430	53	120	110	480	22	180	34	N/A	N/A	N/A	N/A
		4/12/1994	N/A	N/A	16	450	51	210	150	510	14	190	35	N/A	N/A	N/A	N/A
		10/21/1994	N/A	N/A	17	460	57	220	98	540	26	180	39	N/A	N/A	N/A	N/A
		5/28/1995	N/A	N/A	29	440	55	60	230	550	35	190	30	N/A	N/A	N/A	N/A
		9/18/1995	N/A	N/A	13	430	63	82	160	550	28	110	32	N/A	N/A	N/A	N/A
		10/22/2002	N/A	N/A	N/A	50	53	10	N/A	240	33	49	18	13	12	N/A	N/A
		2/12/2003	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.3	13.7	N/A	N/A
		3/25/2003	N/A	N/A	N/A	24.3	58.6	11.8	N/A	256	53.4	51.8	18.1	11.4	16.6	N/A	N/A
		8/19/2003	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.7	10.3	N/A	N/A
12/30/2003		N/A	N/A	N/A	34	57.2	25.4	107	233	101	34.3	19.3	18.3	20.1	N/A	N/A	
3/11/2004		N/A	N/A	26.3	21.8	55.6	23.2	N/A	104	220	34.7	12.4	13.4	38.7	N/A	N/A	
3/28/2005		N/A	N/A	11.1	50.9	63.9	10.9	165	194	122	42.9	23.3	14	100	N/A	N/A	
6/21/2005		N/A	N/A	11.3	42.3	57.1	10	170	182	99.1	36.4	36.5	N/A	N/A	N/A	N/A	
9/14/2005		N/A	N/A	6.1	5.5	60.9	21.4	178	193	122	25.9	37.2	19	80.9	36.2	48.6	
12/12/2005		N/A	N/A	6.28	18.2	59.3	21.3	125	187	238	31.5	30.4	17.6	67.5	38.3	28.4	
3/13/2006		N/A	N/A	5.72	27.3	54.8	17.1	93.1	182	97.9	97.9	27.5	28.5	20	36.3	32.5	
6/27/2006		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9/21/2006		N/A	N/A	7.62	42.7	52.6	10.7	88.1	126	111	26.9	30.1	19.4	16.4	10.7	53	
3/28/2007		204	518	7.16	14.6	54.7	8.59	89.4	123	302	25.5	29.3	6.41	40	7.14	24.7	
6/22/2007		307	199	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9/13/2007		200	393	9.24	25.7	56	9.49	126	125	198	28.1	15.7	11.7	13.6	11.5	37	
12/13/2007		200	384	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3/26/2008		196	349	8.62	12.3	55	8.77	97	126	114	28.1	23.5	6.82	31.4	6.3	10.1	
9/16/2008		232	334	13.8	< 5	49.1	7.83	116	121	107	28.7	15.7	5.67	12	12.7	30.8	
3/10/2009		249	265	3.38	9.91	55.5	13.8	71.4	127	145	32	12.6	13.2	23.8	10.4	10.8	
9/10/2009		220	316	9.57	12.5	73.5	9.79	122	160	140	34.9	18.4	12	15.4	12.1	26.9	
3/25/2010		176	251	17.4	9.5	55.5	8.95	43.3	162	164	31.6	41.3	9.57	9.83	10.3	12.8	
9/29/2010		178	298	N/A	3.91	52.2	9.1	46.3	161	118	27.5	22.4	15.9	13.8	44.1	44.7	
3/22/2011		146	300	5.56	6.73	52.9	7.88	25.6	148	131	712	28.9	8.04	16.8	49.8	74.7	
9/27/2011		155	232	4.09	3.53	55	7.32	26.3	143	144	42.6	22.2	14	N/A	N/A	N/A	
4/19/2012		150	239	< 10	< 10	52	12	32	138	150	34	28	16	32	58	54	
9/12/2012		166	294	4.85	3.82	53.1	27.7	24.7	131	175	34.7	12.3	10.5	30.3	43.2	53.9	
3/19/2013		150	259	5.16	5.77	54.5	12.8	N/A	131	161	40.5	20.4	6.32	30.2	50.7	64.9	
9/18/2013		152	275	22.6	4.93	63.3	23.6	27.5	134	162	47.4	18.2	17.2	12.8	84.9	49.9	
3/18/2014		155	242	7.94	12.7	57.9	35.1	24.5	142	156	41.9	15.9	21.6	11.8	52.7	47.5	
9/9/2014		162	193	27	11.3	74.3	11.1	36.2	124	141	34.3	14	17.8	6	N/A	N/A	
3/16/2015		181	169	7.76	3.01	84.7	25.8	33.9	136	125	37	9.88	12.9	5.54	39.8	12.2	
9/1/2015		169	205	7.54	9.65	67	11.3	34.9	110	164	38.9	11.1	11.4	7.74	47.5	13.7	
4/14/2016		179	247	10.6	5.78	84.7	16.3	13.2	127	164	29.8	6.46	15.1	7.2	34.5	19.3	
9/1/2016		198	192	4.92*	7.36	76.9	15.8	21.8	97.1	233	27.7	7.04	8.7	5.84	36.1	19.2	
3/7/2017		172	167	3.86*	6.55	50.6	22.6	35.7	93.5	134	29.2	7.47	8.37	4.07*	17.6	17.8	
4/3/2018		179	166	11.1	6.55	55.5	49.8	26.4	74.6	47.7	29.3	22.2	11.8	13.8	14.5	20.9	
6/20/2019		153	171	39.7	10.9	46.2	11.4	13.3	55.7	48.6	N/A	N/A	26.6	8.52	N/A	N/A	
10/8/2019		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.5	39.9	N/A	N/A	N/A	
4/1/2020		154	105	8.01	9.7	43.8	22.9	13.5	38.5	112	17.6	27	20.3	13.1	20.9	34.6	
4/1/2020		151	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
6/16/2021		118	143	33.5	7.62	44.3	11.6	24.5	36.4	51.5	19.8	26.3	6.71	11.8	36.7	25.1	
6/16/2021		N/A	N/A	N/A	N/A	N/A	N/A	N/A	36.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
8/30/2022		174	123	8.73	4.76*	42.5	13	13.4	29.5	24.8	20.3	58.1	46.3	34.3	31.8	39.3	
8/30/2022		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	25.4	N/A	N/A	N/A	N/A	N/A	N/A	
6/28/2023	N/A	N/A	5.76	10.4	49.2	13.6	13.3	30.9	23.7	26.2	41.4	33	22.2	27.9	43.4		
6/28/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	38.3	N/A	N/A	N/A	N/A		
4/17/2024	158	88	6.38	11.3	57.4	16.7	25.3	31.4	26.3	45.9	32.5	58.1	25.2	22	41.6		
4/17/2024	N/A	N/A	N/A	N/A	53.5	N/A	N/A	N/A	N/A								

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Summary of Groundwater Chemistry

Alter Trading Corporation Waste Mono-fill Site (Closed) - 78-SDP-19-98C

Other Constituents	Sample Date	MW-4 UPG	MW-5 UPG	EPA-1AR DNG	EPA-2A DNG	MW-1 DNG	MW-2 DNG	MW-3 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14R DNG	MW-15R DNG
pH, S.U. (CAS NO - PH)	2/12/2003	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.65	6.72	N/A	N/A
	3/25/2003	N/A	N/A	N/A	7.32	7.03	7.05	N/A	7.56	7.05	7.44	6.88	6.71	6.87	N/A	N/A
	8/19/2003	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.68	6.84	N/A	N/A
	12/30/2003	N/A	N/A	N/A	7.75	7.38	8.81	7.1	7.55	7.34	8.06	7.32	7.18	6.92	N/A	N/A
	3/11/2004	N/A	N/A	7.41	7.44	8.17	8.1	N/A	6.97	7.5	7.86	7.35	8.33	7.05	N/A	N/A
	3/28/2005	N/A	N/A	7.48	7.61	7.22	7.57	7	7.56	7.45	7.45	7.24	6.9	7.34	N/A	N/A
	6/21/2005	N/A	N/A	7.36	7.86	7.4	7.43	7.14	7.67	7.41	7.71	7.27	N/A	N/A	N/A	N/A
	9/14/2005	N/A	N/A	7.18	7.17	7.3	7.5	7.31	7.55	7.14	7.34	7.16	6.69	7	7.59	7.18
	12/12/2005	N/A	N/A	7.6	7.55	7.67	7.48	6.62	7.89	7.35	7.35	7.6	7	7.1	8.16	7.6
	3/13/2006	N/A	N/A	7.56	7.35	7.12	8.82	7.07	7.8	7.56	7.66	7.26	7.08	7.21	7.5	7.32
	6/27/2006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.42	7.3
	9/21/2006	N/A	N/A	7.24	7.37	7.55	7.56	6.64	7.63	7.18	7.56	7.15	7.56	7.42	7.01	7.05
	3/28/2007	7.52	7.25	7.42	7.4	7.77	7.58	7.11	7.7	7.43	7.75	7	7.13	7.2	7.44	7.3
	6/22/2007	7.5	7.3	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
	9/13/2007	7.84	7.32	7.37	7.68	7.61	8.25	7.24	7.83	7.15	7.83	7.33	7.05	7.18	7.51	7.55
	3/26/2008	7.8	7.85	7.5	7.39	7.72	8.15	7.17	7.8	7.66	8.25	7.56	7.06	7.35	7.69	7.68
	9/16/2008	7.11	6.51	8.8	7.67	5.16	8.83	4.92	6.52	5.88	7.29	6.07	7.92	4.65	5.32	6.19
	3/10/2009	8.03	7.65	7.29	7.55	8.06	8.32	7.25	8.28	7.29	8.13	7.28	6.99	7.15	7.32	7.4
	9/10/2009	7.55	7.33	7.29	7.41	7.14	7.16	6.96	7.55	7.37	7.36	7.18	6.81	6.96	7.06	7.32
	9/29/2010	7.32	6.91	N/A	7.42	7.36	6.74	7.36	7.04	6.84	7.14	7.54	7.17	6.96	7.13	7.02
	3/22/2011	6.53	6.66	7.37	7.15	7.01	7.29	7.18	7.1	7.2	7.55	7.41	8.77	6.52	7.1	7.13
	9/27/2011	6.67	7.1	7.43	7.2	7.6	7.35	7.16	7.6	7.3	7.65	7.35	6.9	N/A	N/A	N/A
	4/19/2012	8.2	6.5	6.65	7.4	6.7	7.35	7	8.41	8.2	8	8.7	7.59	8.55	6.73	6.31
	9/12/2012	7.15	6.75	7.33	7.25	7.3	7.35	6.39	6.57	7.05	7.5	7.55	7	6.95	6.95	7
	3/19/2013	7.34	7.65	7.71	7.97	7.16	7.35	N/A	7.4	7.64	7.62	8.04	7.2	7.42	7.84	7.68
	9/18/2013	7.77	7.4	7.6	7.37	7.43	7.05	7.25	7.3	7.1	7.5	7.65	6.75	7.3	7.15	7
	3/18/2014	7.72	7.53	7.55	7.8	7.62	8.15	7.24	7.57	7.55	7.62	7.49	7.42	7.49	7.44	7.52
	9/9/2014	7.47	7.9	7.45	7.9	7.75	8.26	7.5	7.37	8	7.85	7.73	7.65	7.6	N/A	N/A
	3/16/2015	7.77	8.27	7.92	8.27	7.7	8.18	7.65	7.98	7.96	8.32	8.04	8.03	7.97	7.81	8.06
	9/1/2015	7.11	8.18	7.49	8.05	7.28	7.24	7.36	7.86	7.53	7.98	8.38	7.37	7.57	7.49	7.57
	4/14/2016	7.7	7.89	7.59	7.77	7.55	7.9	7.66	7.89	7.68	8.1	8.01	7.28	7.71	7.37	7.47
	9/1/2016	7.16	7.32	7.33	7.74	7.16	7.47	6.85	8.01	6.65	7.47	7.47	6.98	7.08	7.01	6.98
	3/7/2017	7.28	7.46	7.29	7.49	7.23	8.25	7.23	7.68	7.22	7.92	7.57	6.8	7.24	6.93	7.02
	4/3/2018	7.35	7.6	7.46	7.57	7.36	8.26	7.36	7.79	7.28	7.71	7.82	7.25	7.36	7.08	7.18
	6/20/2019	6.89	7.23	6.87	7.21	6.94	7.02	6.98	7.5	6.79	N/A	N/A	6.75	7.08	N/A	N/A
	10/8/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.44	7.35	N/A	N/A	N/A	N/A
	4/1/2020	7.09	7.45	7.03	7.44	7.1	7.93	6.95	7.63	6.87	7.53	7.36	6.84	6.94	6.92	6.9
	6/16/2021	7.01	7.26	7.15	7.25	7.08	7.12	6.83	7.55	6.88	7.43	7.38	6.61	7.03	6.83	6.71
	8/30/2022	7	7.25	7.11	7.36	7.1	7.18	7.09	7.7	6.96	7.45	7.23	6.57	6.87	6.81	6.81
	6/28/2023	N/A	N/A	7.24	7.31	6.93	7.22	7.03	7.61	7.09	7.42	7.1	6.72	6.92	6.98	7.03
	4/17/2024	7.09	7.38	7.22	7.44	7.1	7.1	7	7.15	7.48	7.18	7.18	6.69	7.16	7	6.97
	4/9/2025	7.15	7.33	7.17	7.43	7.07	8.07	N/A	7.63	7.01	10.08	7.07	6.64	7.18	7.14	7.02
	2/17/2026	7.21	7.54	7.23	7.52	7.09	8.89	7.07	7.76	7.06	9.3	7.12	6.69	7.21	7.19	7.15
Specific Conductance, uS/cm (CAS NO - SPECCON)	1/18/1991	N/A	N/A	N/A	1800	1400	2000	1200	1160	2000	N/A	N/A	N/A	N/A	N/A	N/A
	5/23/1991	N/A	N/A	952	1914	1265	2632	990	2166	1972	N/A	N/A	N/A	N/A	N/A	N/A
	9/27/1991	N/A	N/A	800	N/A	1300	3600	1000	3050	1900	N/A	N/A	N/A	N/A	N/A	N/A
	12/19/1991	N/A	N/A	800	1914	1300	3600	1000	3050	1900	1900	1900	N/A	N/A	N/A	N/A
	10/14/1992	N/A	N/A	1200	2600	1600	3700	1700	2900	1800	2200	1700	N/A	N/A	N/A	N/A
	1/15/1993	N/A	N/A	900	N/A	N/A	N/A	N/A	N/A	N/A	2200	1700	N/A	N/A	N/A	N/A
	4/27/1993	N/A	N/A	900	2500	1400	3500	1600	3000	1800	2200	1700	N/A	N/A	N/A	N/A
	4/12/1994	N/A	N/A	800	2400	2500	4000	1400	2300	2300	1400	1500	N/A	N/A	N/A	N/A
	10/21/1994	N/A	N/A	700	2200	1100	2300	1200	1900	800	1200	1000	N/A	N/A	N/A	N/A
	5/28/1995	N/A	N/A	800	2200	1300	2000	1900	1700	600	110	1100	N/A	N/A	N/A	N/A
	9/18/1995	N/A	N/A	440	1060	660	960	750	940	510	680	500	N/A	N/A	N/A	N/A
	10/22/2002	N/A	N/A	N/A	756	749	744	N/A	1169	585	452	537	692	723	N/A	N/A
	2/12/2003	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	667	809	N/A	N/A
	3/25/2003	N/A	N/A	N/A	934	1331	1353	N/A	1928	942	769	772	763	1206	N/A	N/A
	8/19/2003	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	492	648	N/A	N/A
	12/30/2003	N/A	N/A	N/A	1309	1414	1741	1553	2206	1105	699	690	651	780	N/A	N/A
	3/11/2004	N/A	N/A	666	568	945	1136	N/A	1747	1947	560	635	722	1017	N/A	N/A
	3/28/2005	N/A	N/A	687	848	1225	1282	1936	1778	1175	723	714	1020	1418	N/A	N/A
	6/21/2005	N/A	N/A	750	1162	1445	1398	1740	2040	1265	815	815	N/A	N/A	N/A	N/A
	9/14/2005	N/A	N/A	504	450	1280	1366	1900	1208	943	505	534	642	1400	700	600
	12/12/2005	N/A	N/A	686	677	1285	1541	1533	1783	1587	655	686	799	1293	767	700
	3/13/2006	N/A	N/A	675	785	1329	1530	1373	1805	1007	640	675	847	1488	727	758
	6/27/2006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	780	795
	9/21/2006	N/A	N/A	798	903	1358	1370	1570	1622	1188	682	681	906	1004	888	946
	3/28/2007	1653	1611	500	770	1300	1400	1447	1701	1019	700	875	386	1455	530	957
	6/22/2007	1605	1700	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/13/2007	1675	2553	800	655	1300	1525	1681	1691	1495	583	1002	1135	1000	719	821
	9/13/2007	1650	2800	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/26/2008	1003	985	700	728	1291	1422	1445	1307	1020	602	706	1116	1713	748	593
	9/16/2008	1435	1702	745	459	1016	1191	1278	1215	961	516	646	848	1128	625	566
	3/10/2009	2230	2350	793	611	1398	1627	1420	1635	1422	663	975	1090	1939	1047	800
	9/10/2009	1864	2330	751	628	1531	1309	1686	1957	1390	686	644	1070			

SCS ENGINEERS

Summary of Groundwater Chemistry Alter Trading Corporation Waste Monofill Site (Closed) - 78-SDP-19-98C

Other Constituents	Sample Date	MW-4 UPG	MW-5 UPG	EPA-1AR DNG	EPA-2A DNG	MW-1 DNG	MW-2 DNG	MW-3 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	MW-11 DNG	MW-12 DNG	MW-13 DNG	MW-14R DNG	MW-15R DNG
Total Extractable Hydrocarbons, ug/L (CAS NO - TEHH)	3/22/2011	< 300	< 300	< 300	< 300	< 300	746	< 300	< 300	< 300	1100	< 300	< 300	302	714	< 300
	9/27/2011	N/A	N/A	N/A	< 300	N/A	501	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2012	N/A	N/A	N/A	< 100	N/A	200	N/A	N/A	N/A	N/A	N/A	N/A	100	100	< 100
	9/18/2013	281	294	298	477	282	2340	722	872	287	828	305	738	443	1120	702
	9/9/2014	420	290	268	231	394	926	478	515	277	< 463	< 463	< 463	439	N/A	N/A
	9/1/2015	310	849	182	216	142	685	1300	897	206	1140	1580	338	226	806	229
	9/1/2016	93.1*	< 391	< 379	< 368	< 379	< 379	177*	< 379	< 379	< 403	< 446	< 379	< 379	< 391	97.4*
	4/3/2018	< 481	< 481	< 481	< 481	100*	< 481	139*	< 463	< 481	< 481	76.3*	< 481	86.7*	< 481	116*
	6/20/2019	105*	139*	120*	170*	123*	< 500	176*	369*	< 481	N/A	N/A	146*	< 500	N/A	N/A
	10/8/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 500	167*	N/A	N/A	N/A	N/A
	4/1/2020	< 500	< 481	118*	< 500	139*	2430	< 500	160*	< 521	< 543	< 500	79*	106*	< 500	107*
	4/1/2020	< 481	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/16/2021	348*	331*	412*	353*	401*	< 500	< 500	315*	< 500	< 500	341*	360*	280*	< 500	294*
	6/16/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	388*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/30/2022	< 490	< 500	< 490	< 490	< 568	< 521	< 532	155*	< 521	< 556	< 500	< 521	< 481	< 490	122*
	8/30/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 521	N/A	N/A	N/A	N/A	N/A	N/A
	6/28/2023	N/A	N/A	113*	< 500	104*	< 500	81.7*	181*	< 556	< 500	82*	< 500	< 500	< 532	103*
	6/28/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 532	N/A	N/A	N/A	N/A
	4/17/2024	< 500	< 500	< 500	< 500	< 463	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500	< 500
	4/17/2024	N/A	N/A	N/A	N/A	< 500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/9/2025	< 510	< 510	< 521	< 500	< 521	< 510	N/A	< 510	< 500	< 521	< 500	< 500	< 521	< 500	< 500
	4/9/2025	N/A	N/A	N/A	N/A	< 510	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/17/2026	< 521	< 472	< 500	< 500	< 521	1760	472*	493	1400	306*	< 490	< 500	< 481	409*	< 510
	2/17/2026	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1460	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 Report

Attachment A

Mann-Kendall Trend Test ($\alpha=0.01$)

Trend Test

City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM Printed 5/6/2026, 4:28 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>
Ammonia as N (mg/L)	EPA-2A	-0.0428	-8	-21	No	8	50
Ammonia as N (mg/L)	MW-1	0.04768	20	21	No	8	0
Ammonia as N (mg/L)	MW-2	1.176	6	21	No	8	0
Ammonia as N (mg/L)	MW-3	0.001382	0	21	No	8	0
Ammonia as N (mg/L)	MW-4 (bg)	0.001719	0	21	No	8	0
Ammonia as N (mg/L)	MW-8	0.01781	8	21	No	8	12.5
Ammonia as N (mg/L)	MW-10	-0.05518	-7	-21	No	8	37.5
Ammonia as N (mg/L)	MW-11	0	7	21	No	8	87.5
Ammonia as N (mg/L)	MW-14R	-0.2945	-10	-21	No	8	25
Arsenic (mg/L)	EPA-2A	0.000004949	2	21	No	8	0
Arsenic (mg/L)	MW-2	-0.001119	-1	-21	No	8	0
Arsenic (mg/L)	MW-3	0.003219	8	21	No	8	0
Arsenic (mg/L)	MW-4 (bg)	0.0001229	18	21	No	8	0
Arsenic (mg/L)	MW-10	-0.0005333	-8	-21	No	8	0
Arsenic (mg/L)	MW-13	-0.0003519	-6	-21	No	8	0
Arsenic (mg/L)	MW-14R	-0.001051	-18	-21	No	8	0
Arsenic (mg/L)	MW-15R	-0.002119	-24	-21	Yes	8	0
Barium (mg/L)	MW-4 (bg)	0.001983	4	21	No	8	0
Barium (mg/L)	MW-5 (bg)	0.002863	10	21	No	8	0
Barium (mg/L)	MW-14R	-0.09316	-11	-21	No	8	0
Barium (mg/L)	MW-15R	-0.09206	-20	-21	No	8	0
Chemical Oxygen Demand (mg/L)	EPA-1AR	1.528	7	21	No	8	37.5
Chemical Oxygen Demand (mg/L)	EPA-2A	1.341	7	21	No	8	37.5
Chemical Oxygen Demand (mg/L)	MW-1	-0.4607	-5	-21	No	8	12.5
Chemical Oxygen Demand (mg/L)	MW-2	5.345	10	21	No	8	0
Chemical Oxygen Demand (mg/L)	MW-3	-0.7942	-4	-21	No	8	0
Chemical Oxygen Demand (mg/L)	MW-4 (bg)	-0.09515	-1	-21	No	8	25
Chemical Oxygen Demand (mg/L)	MW-5 (bg)	-0.1877	-3	-21	No	8	25
Chemical Oxygen Demand (mg/L)	MW-8	-6.686	-14	-21	No	8	0
Chemical Oxygen Demand (mg/L)	MW-9	-7.324	-16	-21	No	8	0
Chemical Oxygen Demand (mg/L)	MW-10	1.085	3	21	No	8	25
Chemical Oxygen Demand (mg/L)	MW-11	2.06	22	21	Yes	8	50
Chemical Oxygen Demand (mg/L)	MW-12	-0.1132	-3	-21	No	8	25
Chemical Oxygen Demand (mg/L)	MW-13	1.956	4	21	No	8	12.5
Chemical Oxygen Demand (mg/L)	MW-14R	-2.692	-10	-21	No	8	25
Chemical Oxygen Demand (mg/L)	MW-15R	0.09158	0	21	No	8	12.5
Chloride (mg/L)	EPA-1AR	-1.127	-8	-21	No	8	0
Chloride (mg/L)	EPA-2A	1.233	14	21	No	8	0
Chloride (mg/L)	MW-1	1.206	4	21	No	8	0
Chloride (mg/L)	MW-2	1.479	18	21	No	8	0
Chloride (mg/L)	MW-3	0.2685	5	21	No	8	0
Chloride (mg/L)	MW-4 (bg)	-2.1	-8	-21	No	8	0
Chloride (mg/L)	MW-5 (bg)	-11.52	-20	-21	No	8	0
Chloride (mg/L)	MW-8	-1.151	-10	-21	No	8	0
Chloride (mg/L)	MW-9	-2.796	-6	-21	No	8	0
Chloride (mg/L)	MW-10	1.05	18	21	No	8	0
Chloride (mg/L)	MW-11	-2.057	-12	-21	No	8	0
Chloride (mg/L)	MW-12	4.107	8	21	No	8	0
Chloride (mg/L)	MW-13	3.589	16	21	No	8	0
Chloride (mg/L)	MW-14R	-0.7377	-4	-21	No	8	0

Trend Test

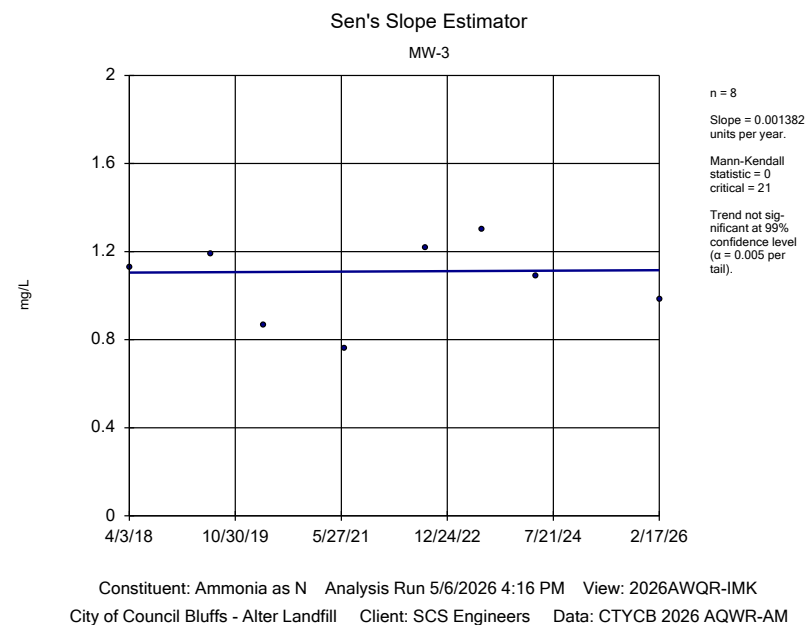
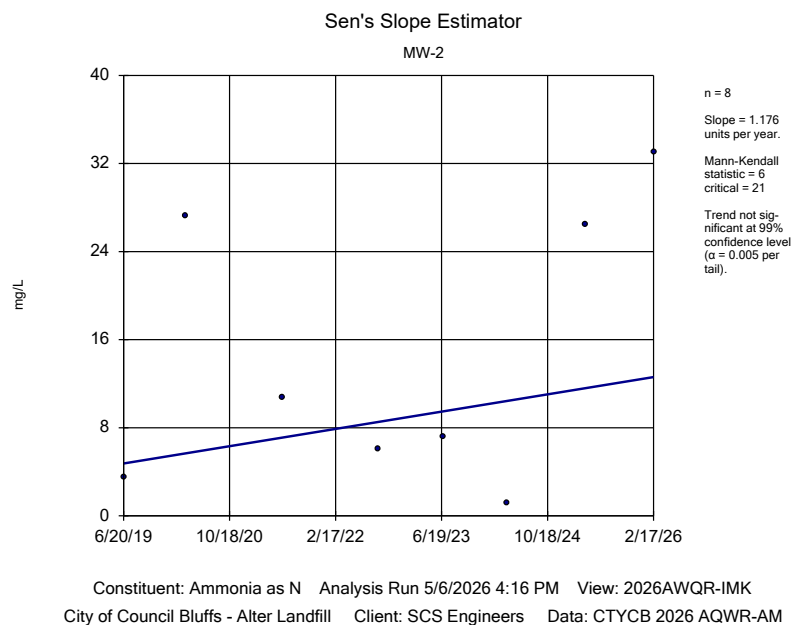
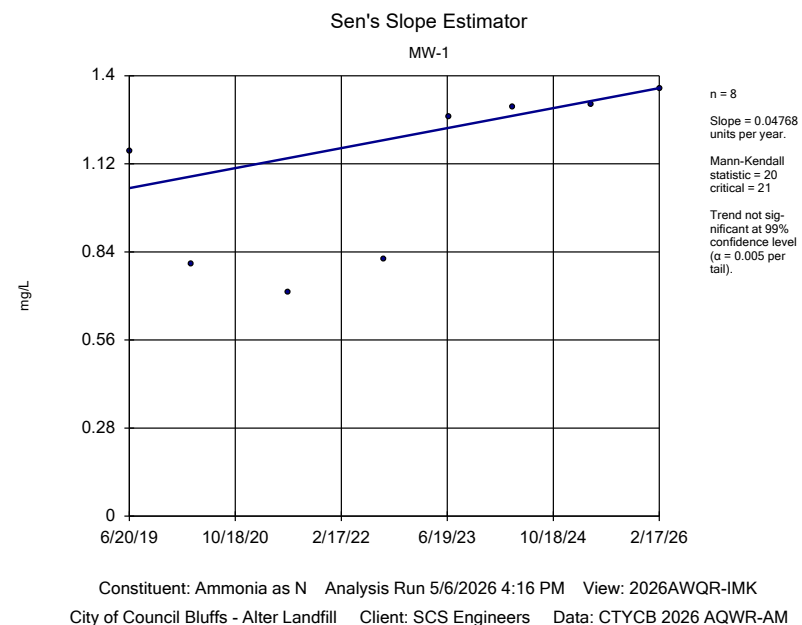
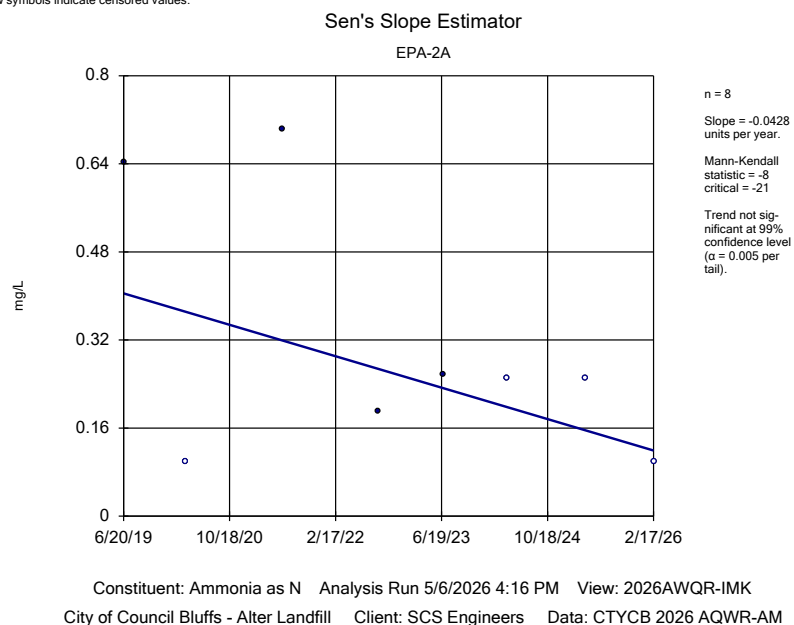
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM Printed 5/6/2026, 4:28 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>
Chloride (mg/L)	MW-15R	1.359	6	21	No	8	0
Iron (mg/L)	EPA-1AR	-0.1413	-19	-21	No	8	37.5
Iron (mg/L)	EPA-2A	-0.04061	-12	-21	No	8	62.5
Iron (mg/L)	MW-1	-0.2641	-7	-21	No	8	0
Iron (mg/L)	MW-2	-2.039	-10	-21	No	8	0
Iron (mg/L)	MW-3	1.235	16	21	No	8	0
Iron (mg/L)	MW-4 (bg)	0.8961	16	21	No	8	0
Iron (mg/L)	MW-5 (bg)	-0.01979	-11	-21	No	8	37.5
Iron (mg/L)	MW-8	-0.1879	-12	-21	No	8	0
Iron (mg/L)	MW-9	0.09897	8	21	No	8	0
Iron (mg/L)	MW-10	-0.6359	-14	-21	No	8	12.5
Iron (mg/L)	MW-11	0	-7	-21	No	8	87.5
Iron (mg/L)	MW-13	-0.1596	-10	-21	No	8	0
Iron (mg/L)	MW-14R	-1.495	-16	-21	No	8	0
Iron (mg/L)	MW-15R	-1.586	-20	-21	No	8	0
Lead (mg/L)	MW-5 (bg)	0	1	21	No	8	75
Lead (mg/L)	MW-12	-0.0004277	-18	-21	No	8	0
Lead (mg/L)	MW-13	0	-6	-21	No	8	62.5
Lead (mg/L)	MW-14R	0.00008321	5	21	No	8	37.5
Lead (mg/L)	MW-15R	0	-9	-21	No	8	75
Nickel (mg/L)	MW-5 (bg)	-0.0002239	-8	-21	No	8	0
Nickel (mg/L)	MW-14R	-0.0245	-12	-21	No	8	0
Nickel (mg/L)	MW-15R	-0.00115	-26	-21	Yes	8	0
pH (S.U.)	EPA-1AR	0.03942	18	21	No	8	0
pH (S.U.)	EPA-2A	0.04481	15	21	No	8	0
pH (S.U.)	MW-1	0	1	21	No	8	0
pH (S.U.)	MW-2	0.05012	14	21	No	8	0
pH (S.U.)	MW-3	-0.0008105	0	21	No	8	0
pH (S.U.)	MW-4 (bg)	0.03129	7	21	No	8	0
pH (S.U.)	MW-5 (bg)	0.01066	2	21	No	8	0
pH (S.U.)	MW-8	0.02622	16	21	No	8	0
pH (S.U.)	MW-9	0.04284	20	21	No	8	0
pH (S.U.)	MW-10	0.04643	10	21	No	8	0
pH (S.U.)	MW-11	-0.04296	-16	-21	No	8	0
pH (S.U.)	MW-12	-0.01188	-7	-21	No	8	0
pH (S.U.)	MW-13	0.03668	12	21	No	8	0
pH (S.U.)	MW-14R	0.04483	12	21	No	8	0
pH (S.U.)	MW-15R	0.0413	6	21	No	8	0
Specific Conductance (uS/cm)	EPA-1AR	-22.28	-16	-21	No	8	0
Specific Conductance (uS/cm)	EPA-2A	-9.471	-8	-21	No	8	0
Specific Conductance (uS/cm)	MW-1	20.31	8	21	No	8	0
Specific Conductance (uS/cm)	MW-2	27.41	8	21	No	8	0
Specific Conductance (uS/cm)	MW-3	-19.31	-8	-21	No	8	0
Specific Conductance (uS/cm)	MW-4 (bg)	-18.79	-2	-21	No	8	0
Specific Conductance (uS/cm)	MW-5 (bg)	-60.87	-22	-21	Yes	8	0
Specific Conductance (uS/cm)	MW-8	-19.19	-4	-21	No	8	0
Specific Conductance (uS/cm)	MW-9	-85.73	-18	-21	No	8	0
Specific Conductance (uS/cm)	MW-10	-4.023	0	21	No	8	0
Specific Conductance (uS/cm)	MW-11	40.2	18	21	No	8	0
Specific Conductance (uS/cm)	MW-12	-16.47	-6	-21	No	8	0

Trend Test

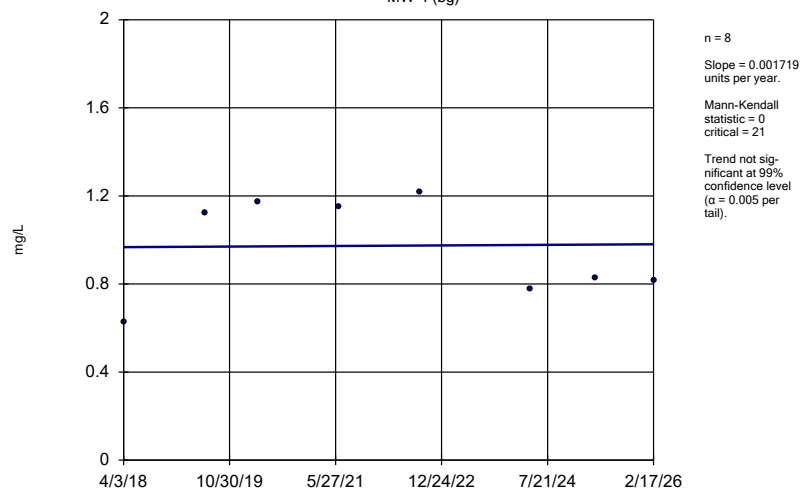
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<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>
Specific Conductance (uS/cm)	MW-13	49.34	12	21	No	8	0
Specific Conductance (uS/cm)	MW-14R	-68.28	-20	-21	No	8	0
Specific Conductance (uS/cm)	MW-15R	-65.25	-14	-21	No	8	0
Total Extractable Hydrocarbons (ug/L)	MW-2	0	4	21	No	8	75
Total Extractable Hydrocarbons (ug/L)	MW-8	18.75	6	21	No	8	25
Total Extractable Hydrocarbons (ug/L)	MW-9	5.085	10	21	No	8	87.5
Zinc (mg/L)	MW-14R	-0.3858	-10	-21	No	8	0



Sen's Slope Estimator

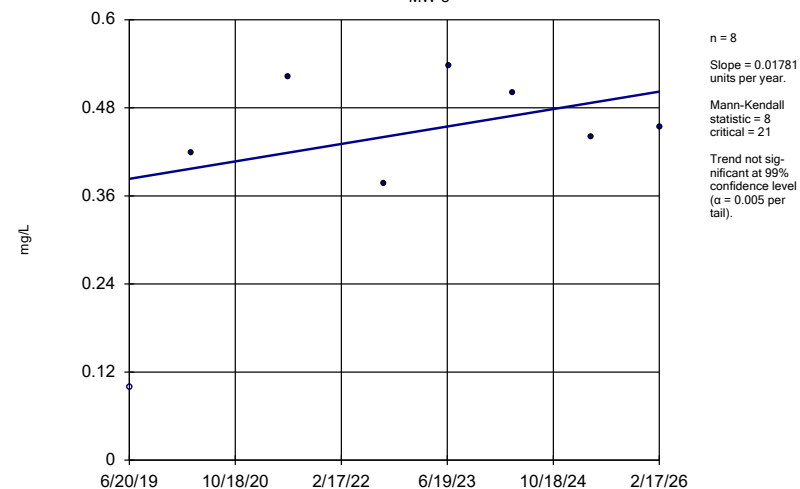
MW-4 (bg)



Constituent: Ammonia as N Analysis Run 5/6/2026 4:16 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Sen's Slope Estimator

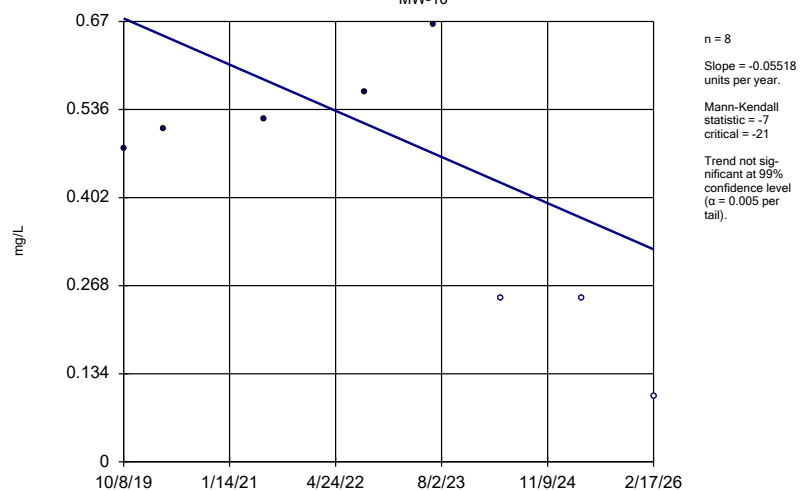
MW-8



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City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Sen's Slope Estimator

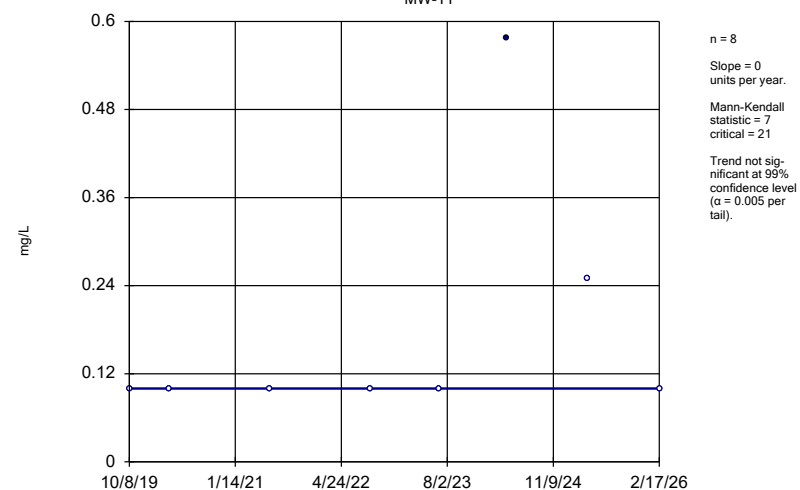
MW-10



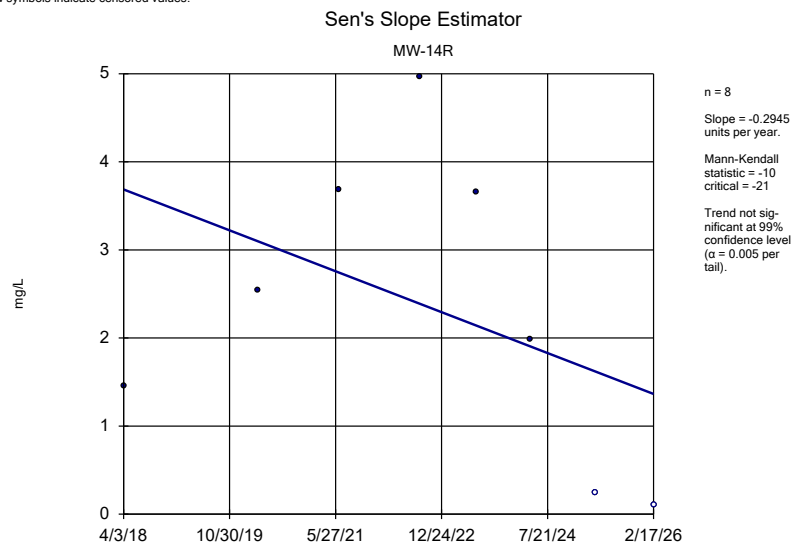
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City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Sen's Slope Estimator

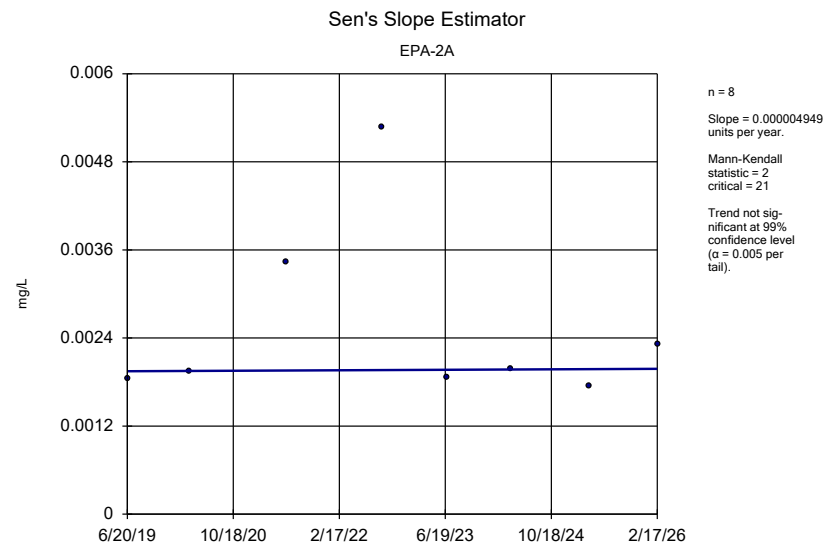
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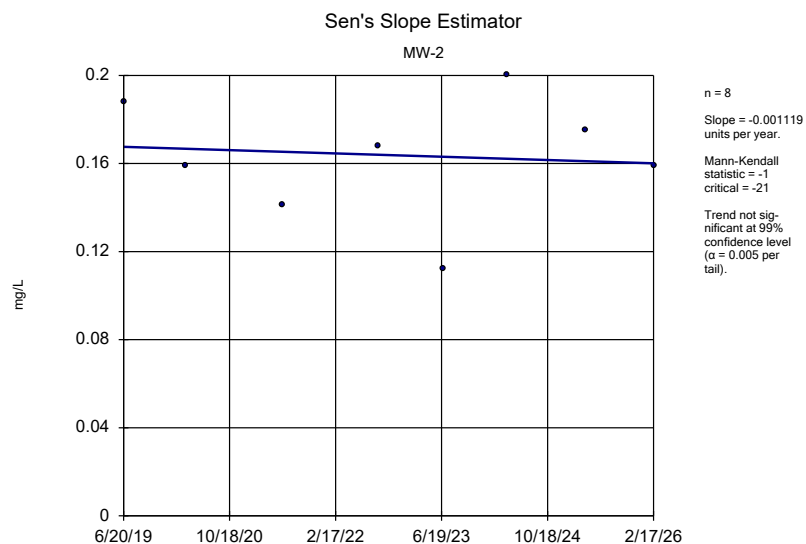
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City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM



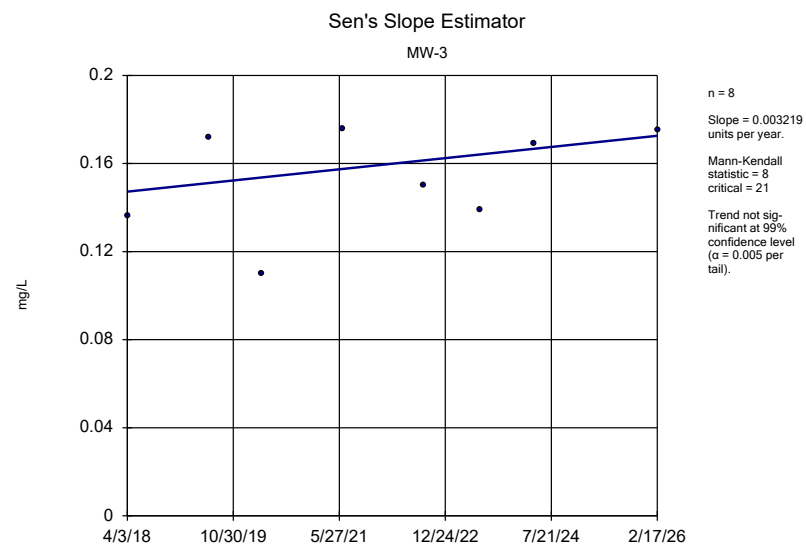
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City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM



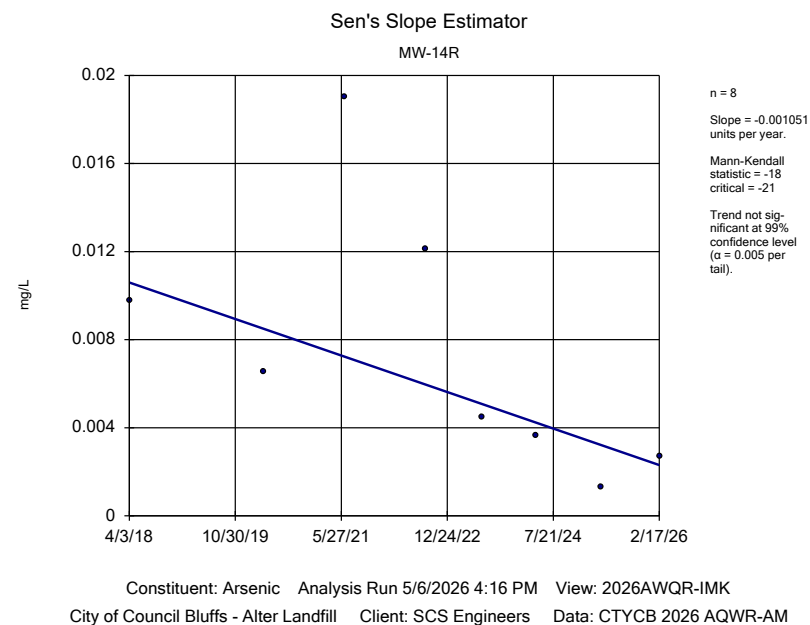
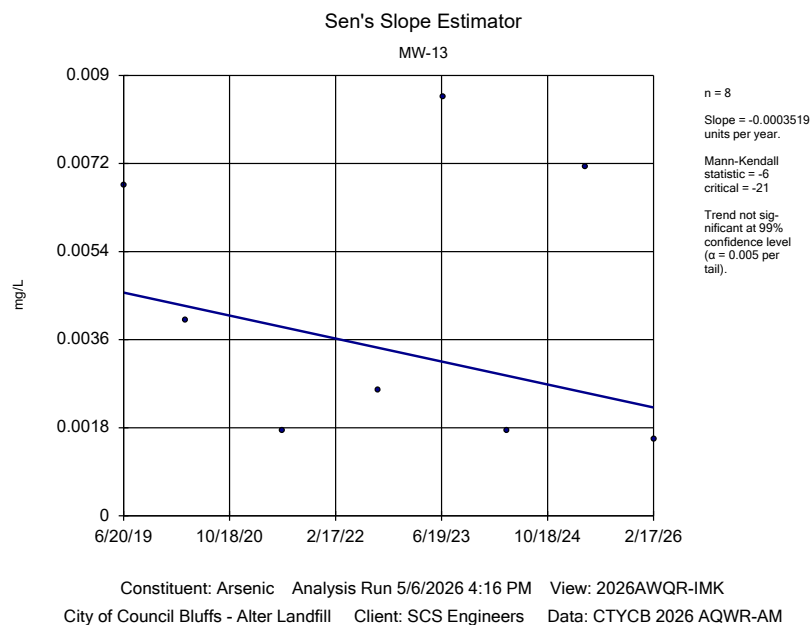
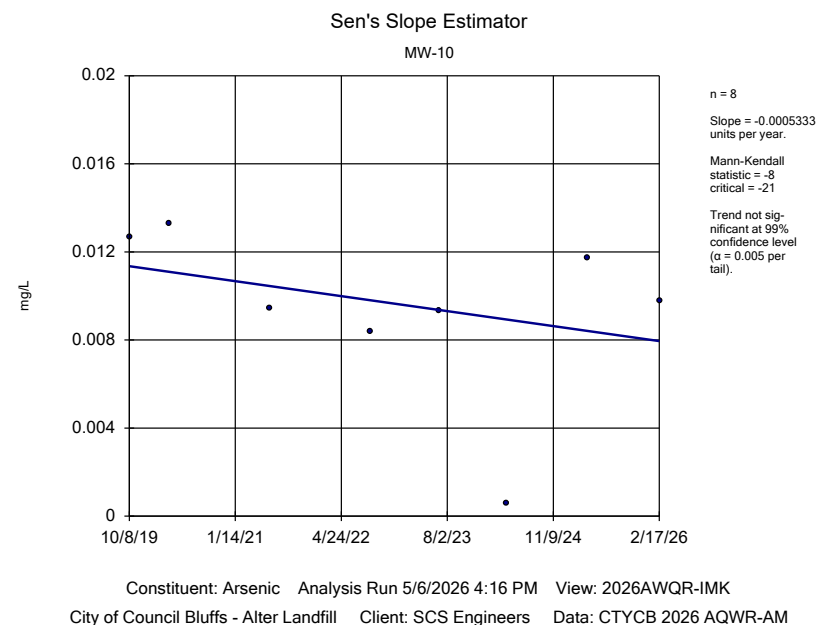
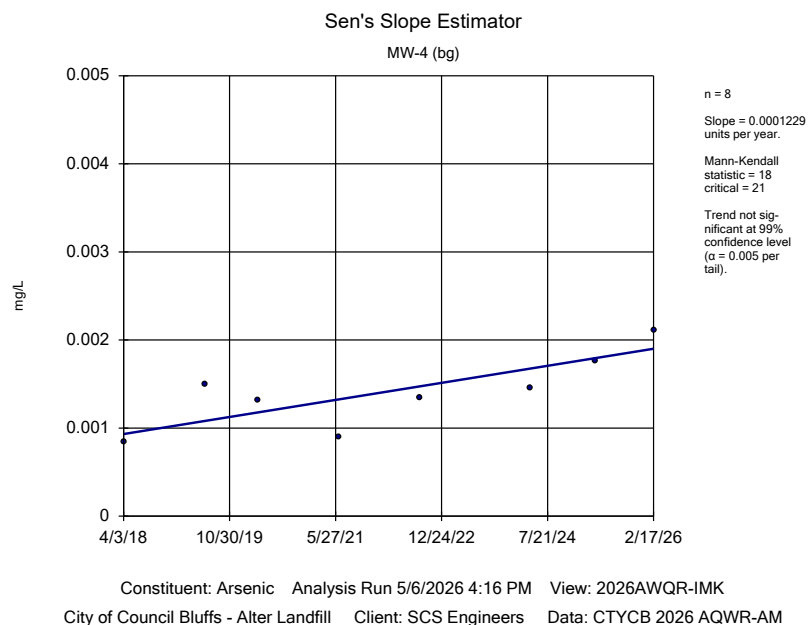
Constituent: Arsenic Analysis Run 5/6/2026 4:16 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

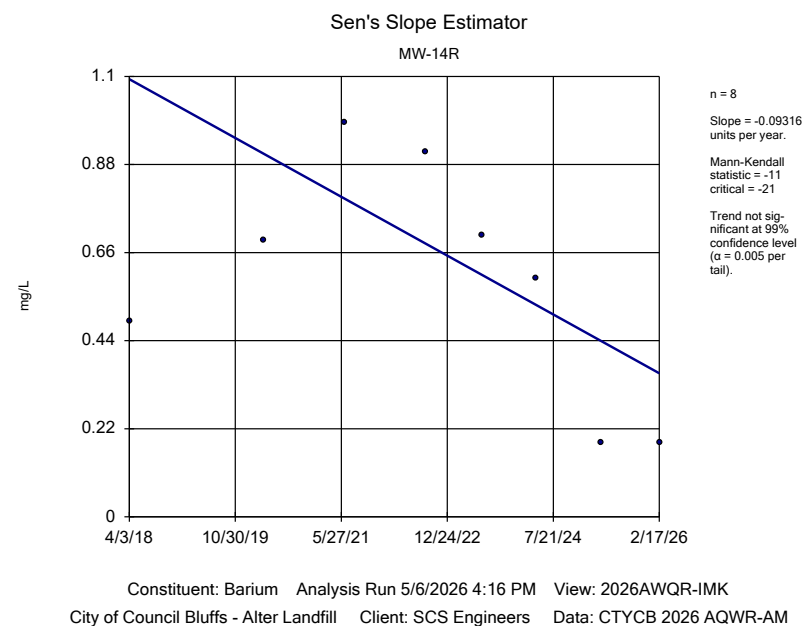
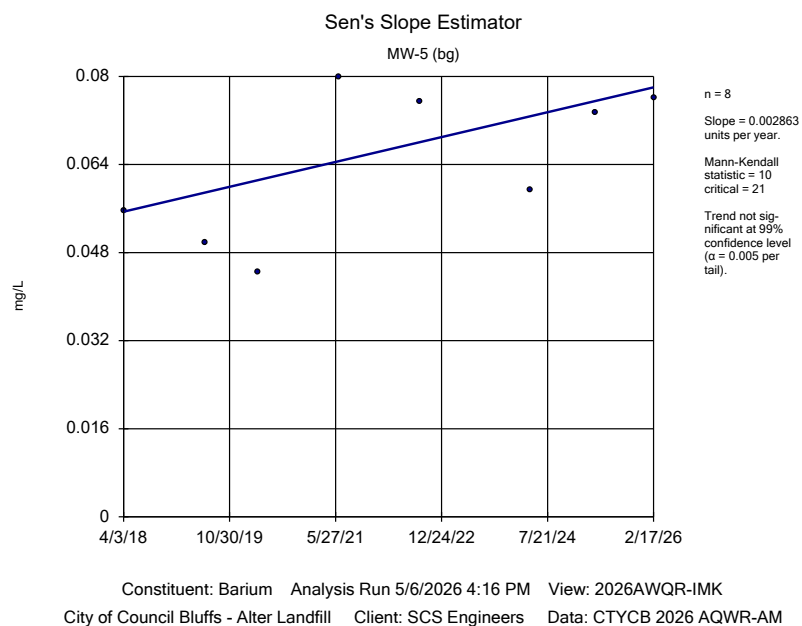
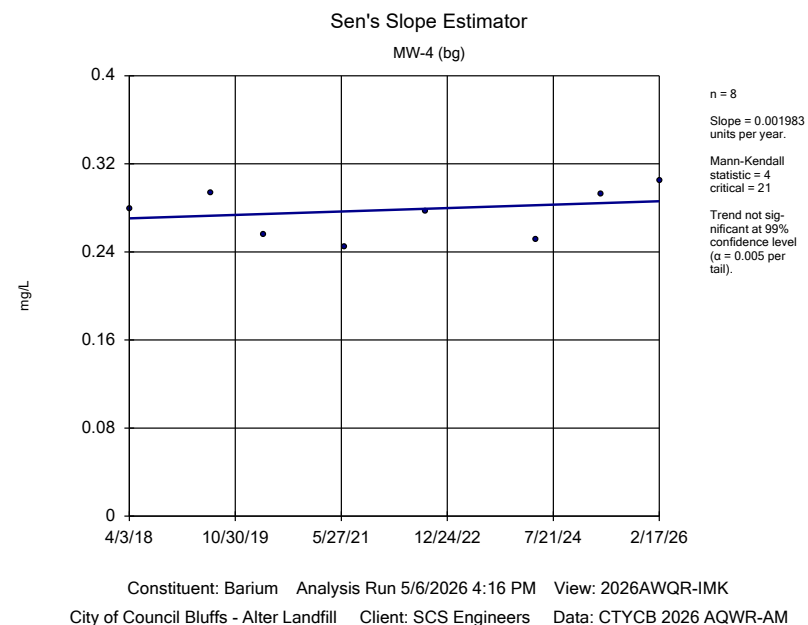
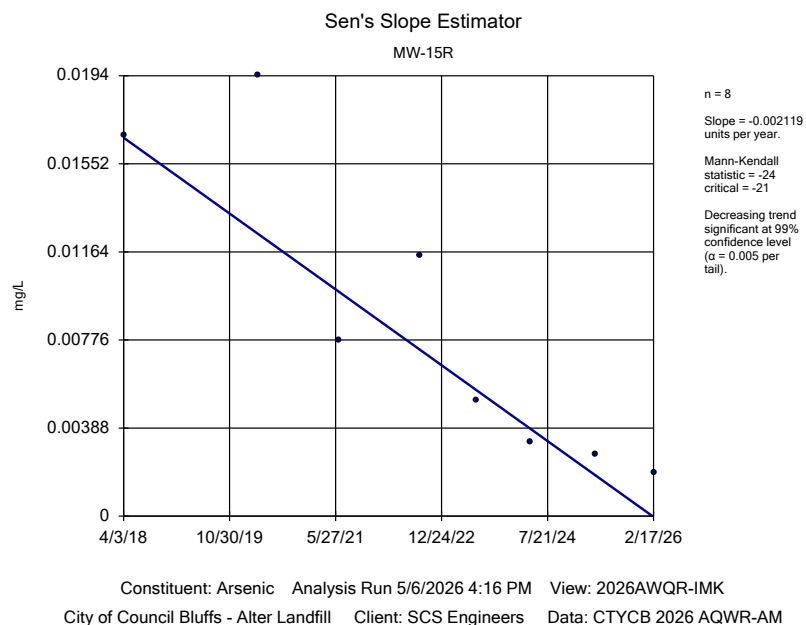


Constituent: Arsenic Analysis Run 5/6/2026 4:16 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM



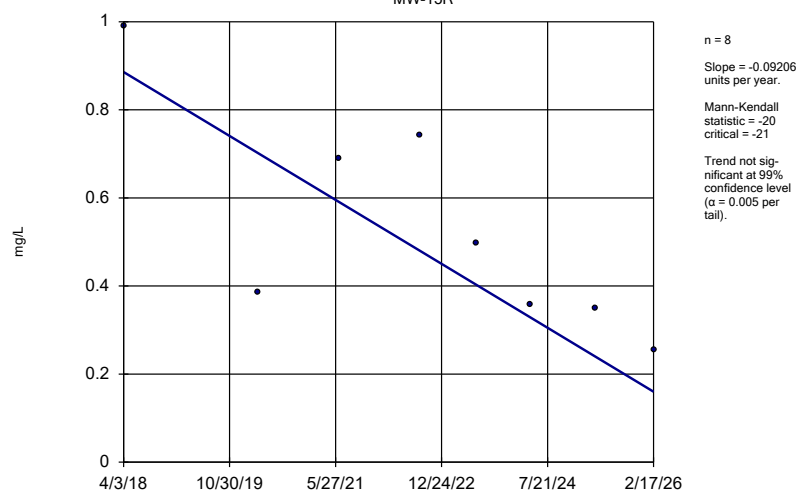
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City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM





Sen's Slope Estimator

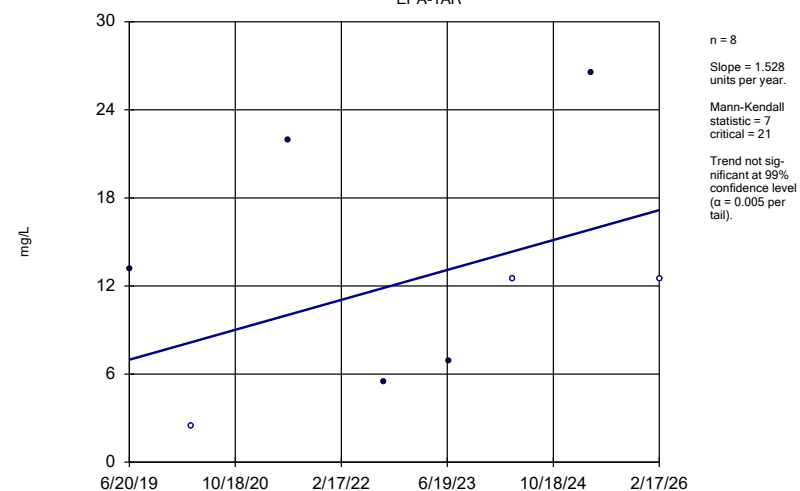
MW-15R



Constituent: Barium Analysis Run 5/6/2026 4:16 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Sen's Slope Estimator

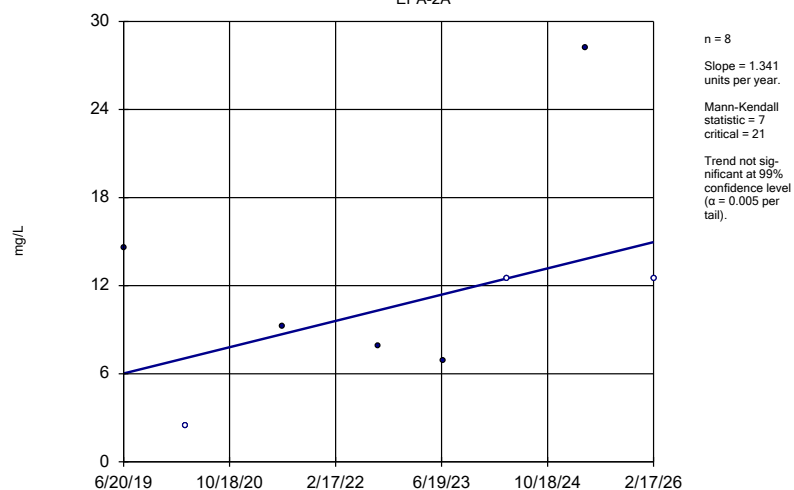
EPA-1AR



Constituent: Chemical Oxygen Demand Analysis Run 5/6/2026 4:16 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Sen's Slope Estimator

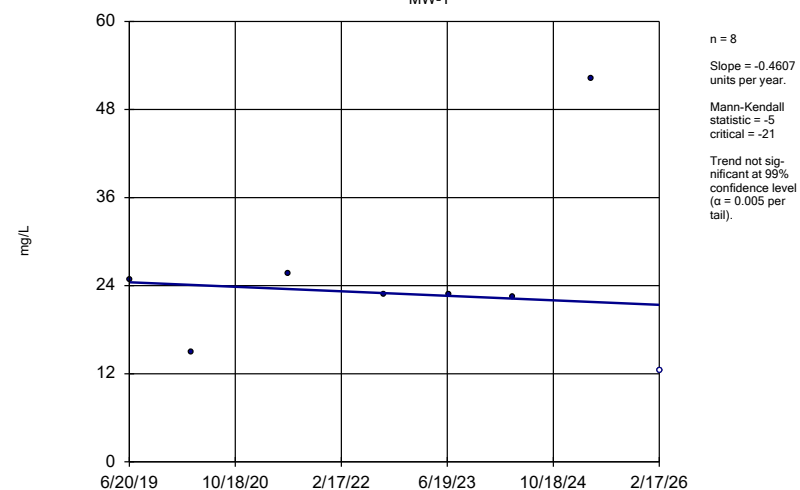
EPA-2A



Constituent: Chemical Oxygen Demand Analysis Run 5/6/2026 4:16 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Sen's Slope Estimator

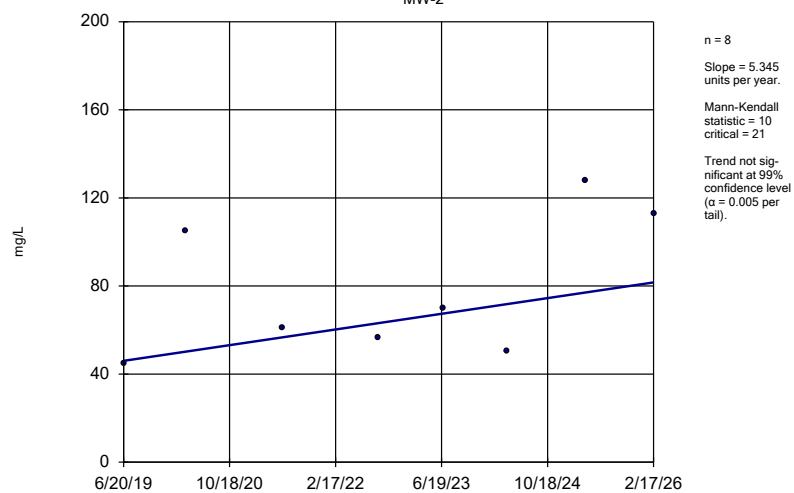
MW-1



Constituent: Chemical Oxygen Demand Analysis Run 5/6/2026 4:16 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Sen's Slope Estimator

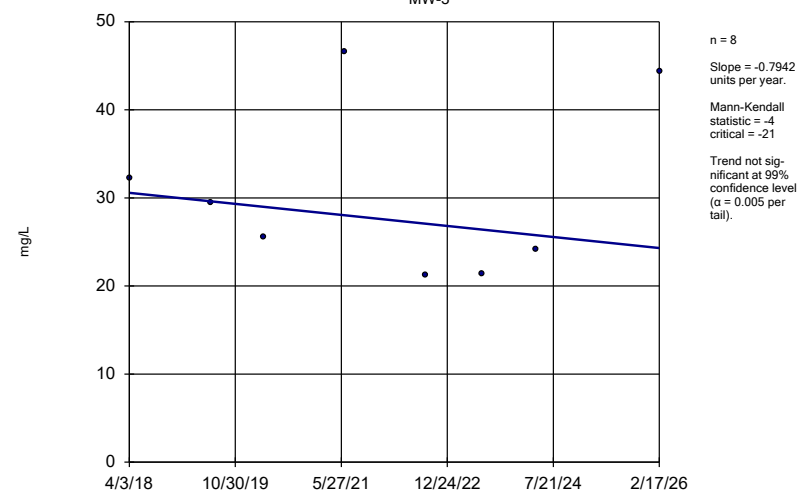
MW-2



Constituent: Chemical Oxygen Demand Analysis Run 5/6/2026 4:16 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Sen's Slope Estimator

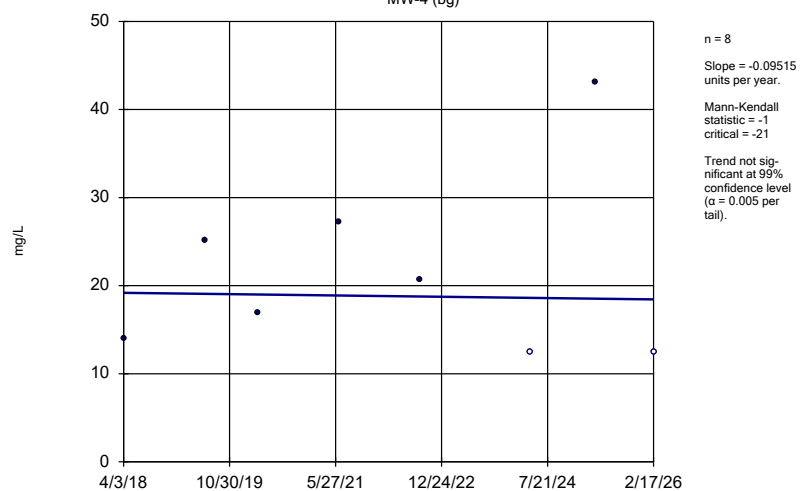
MW-3



Constituent: Chemical Oxygen Demand Analysis Run 5/6/2026 4:16 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Sen's Slope Estimator

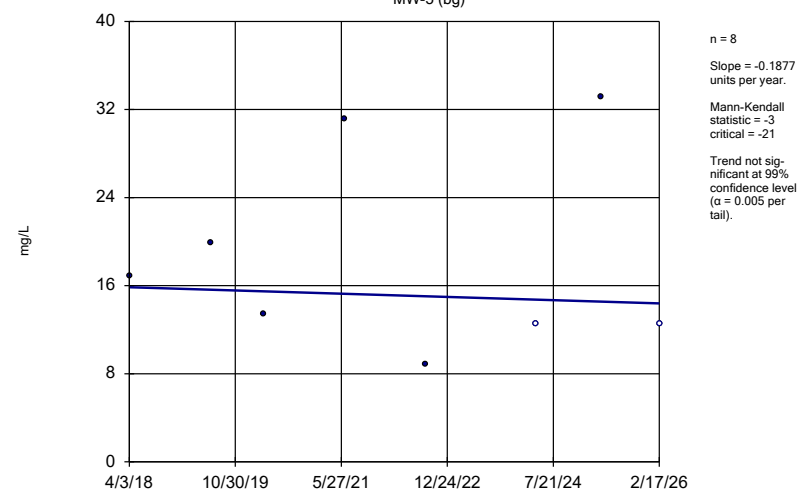
MW-4 (bg)



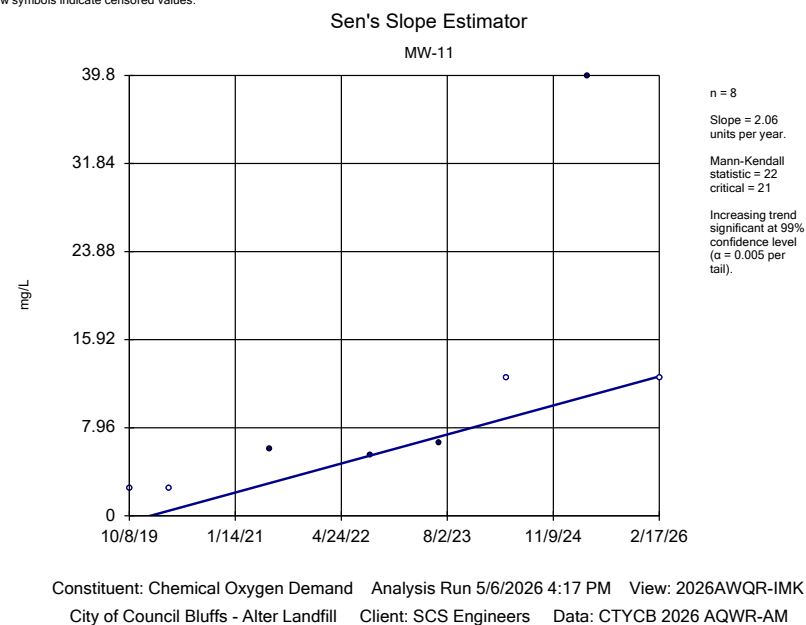
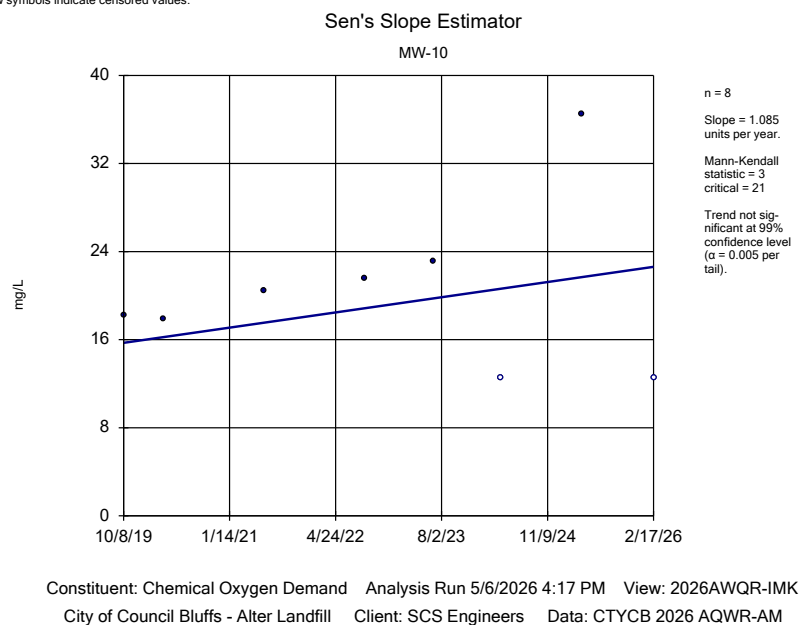
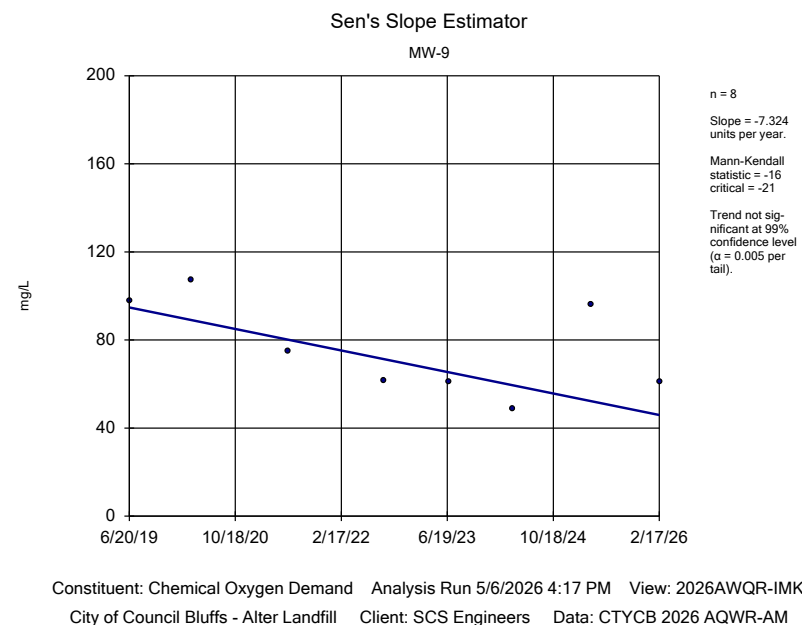
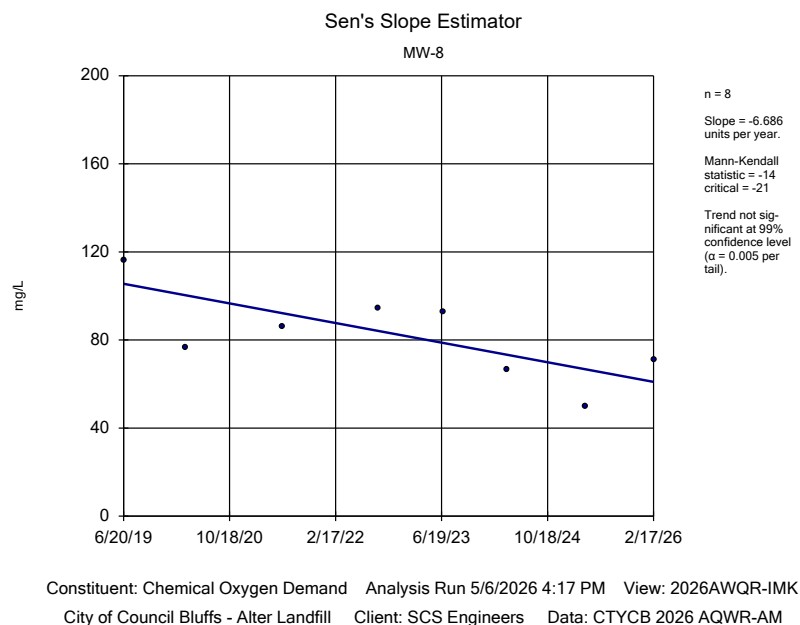
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City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Sen's Slope Estimator

MW-5 (bg)

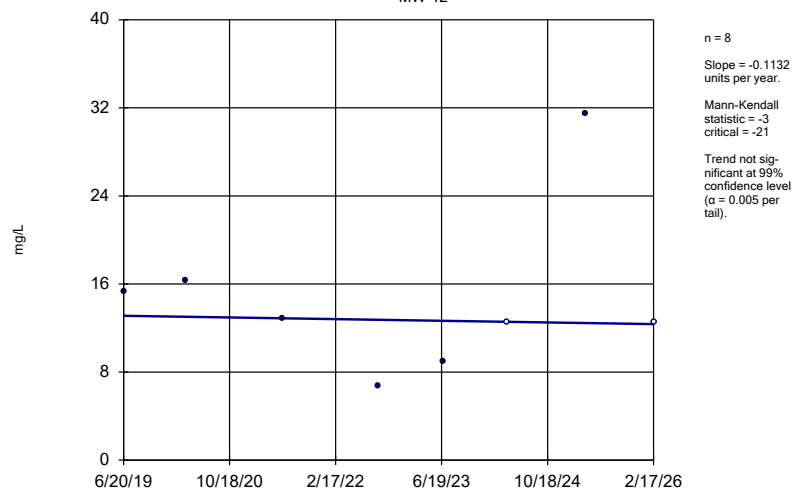


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City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM



Sen's Slope Estimator

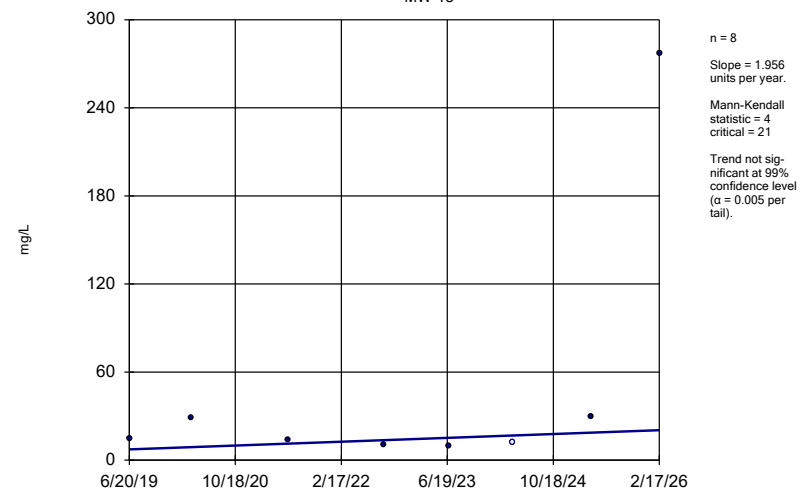
MW-12



Constituent: Chemical Oxygen Demand Analysis Run 5/6/2026 4:17 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Sen's Slope Estimator

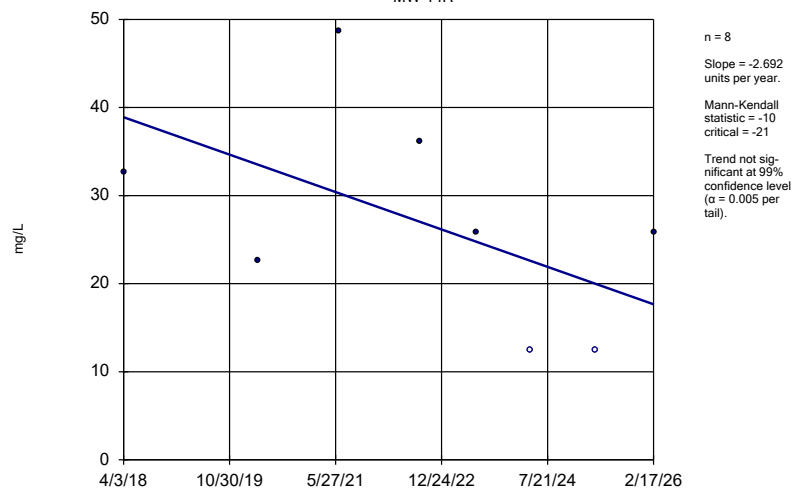
MW-13



Constituent: Chemical Oxygen Demand Analysis Run 5/6/2026 4:17 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Sen's Slope Estimator

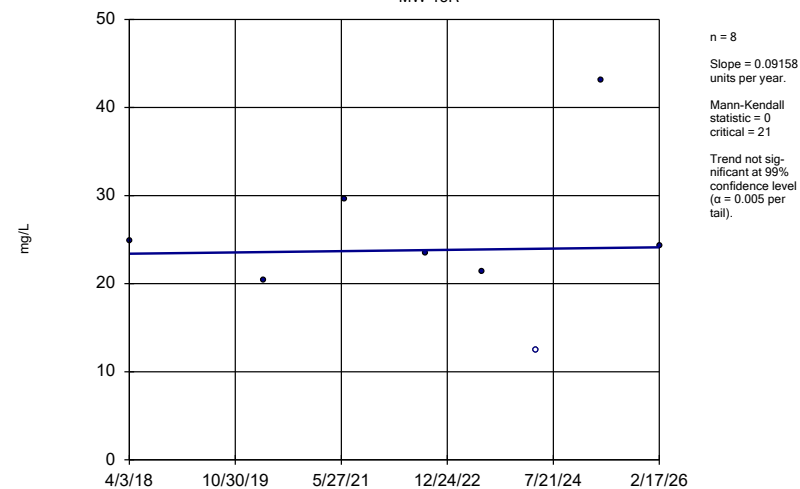
MW-14R



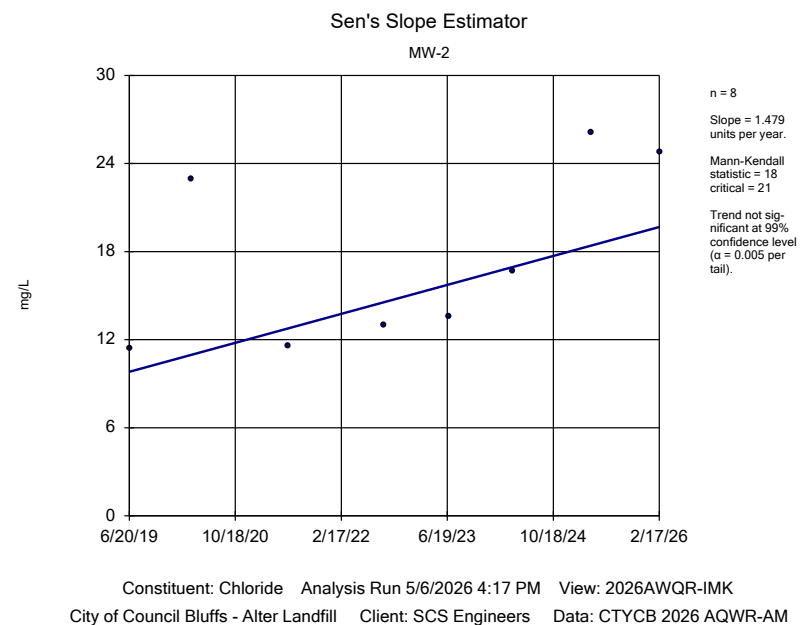
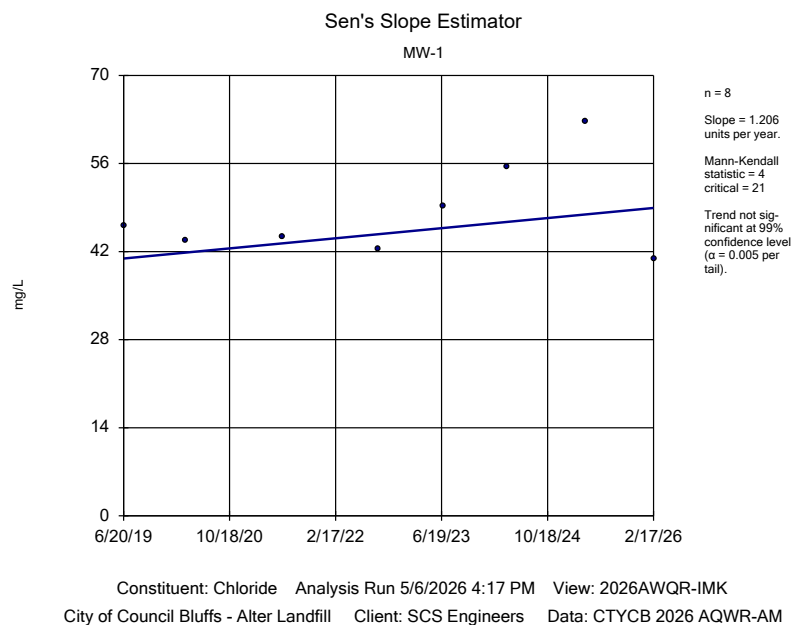
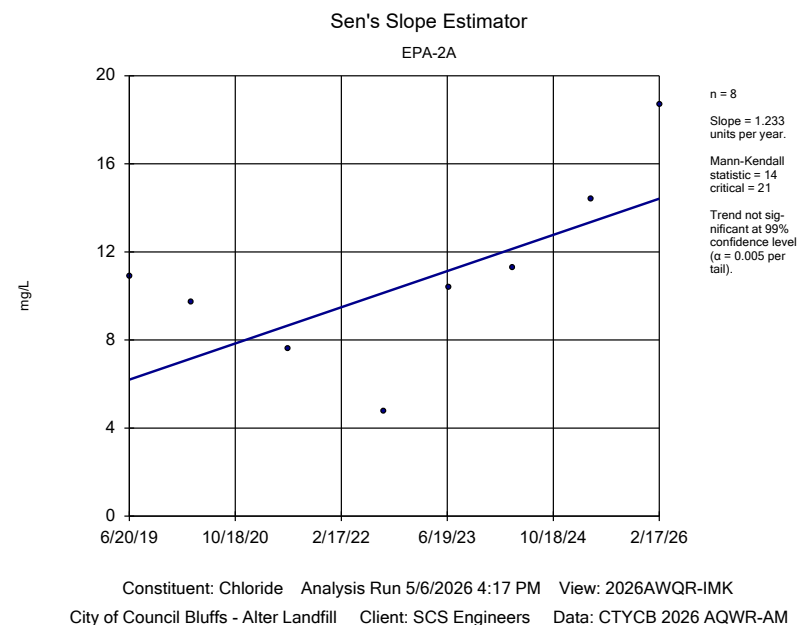
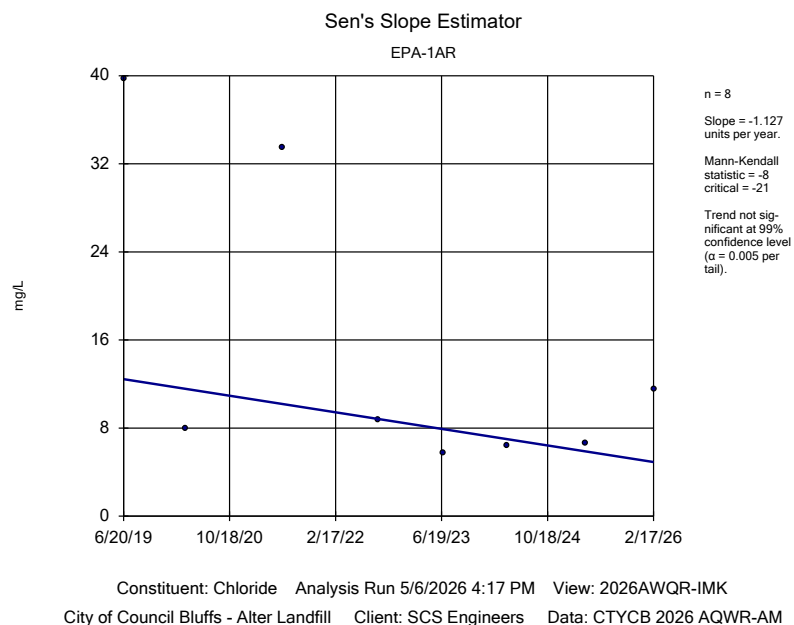
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City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

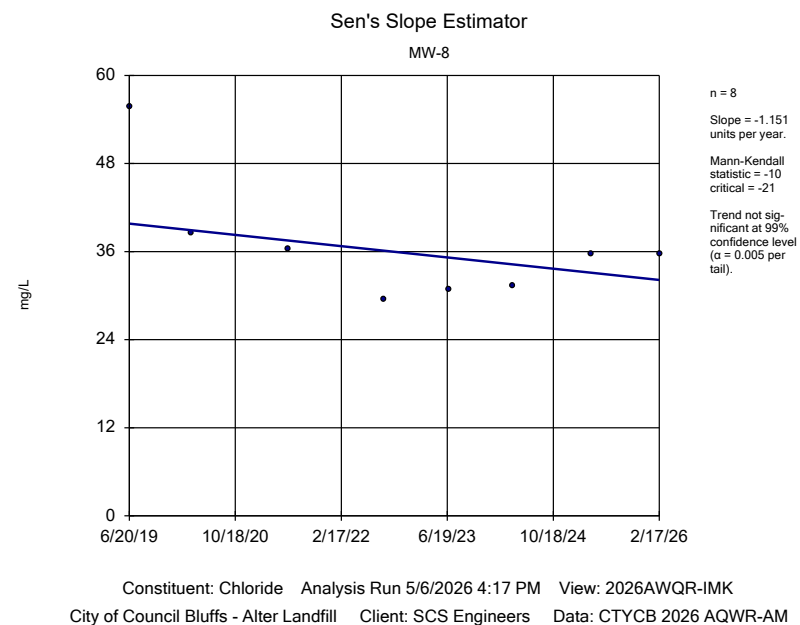
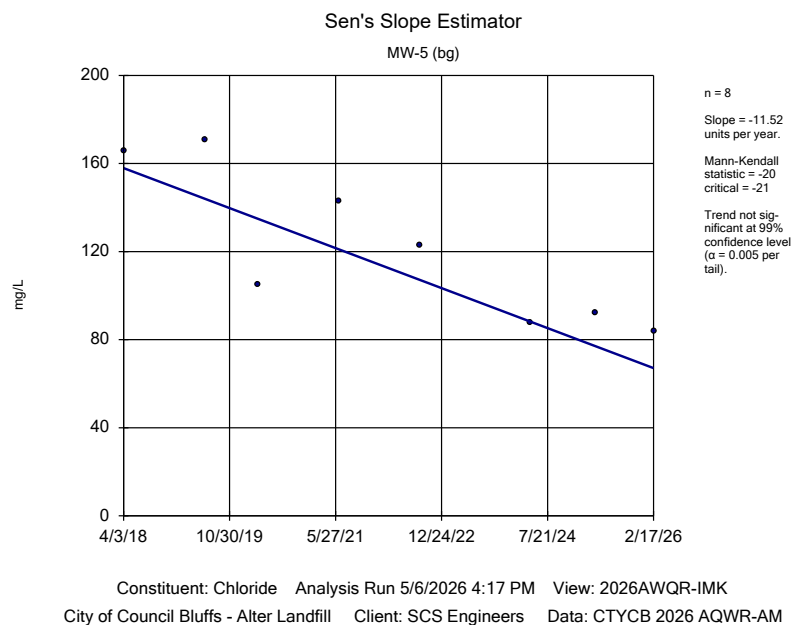
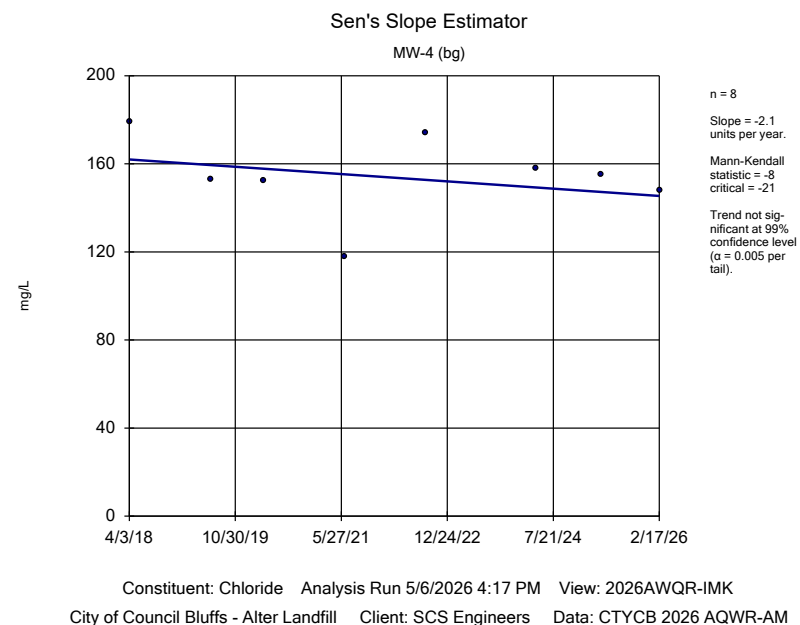
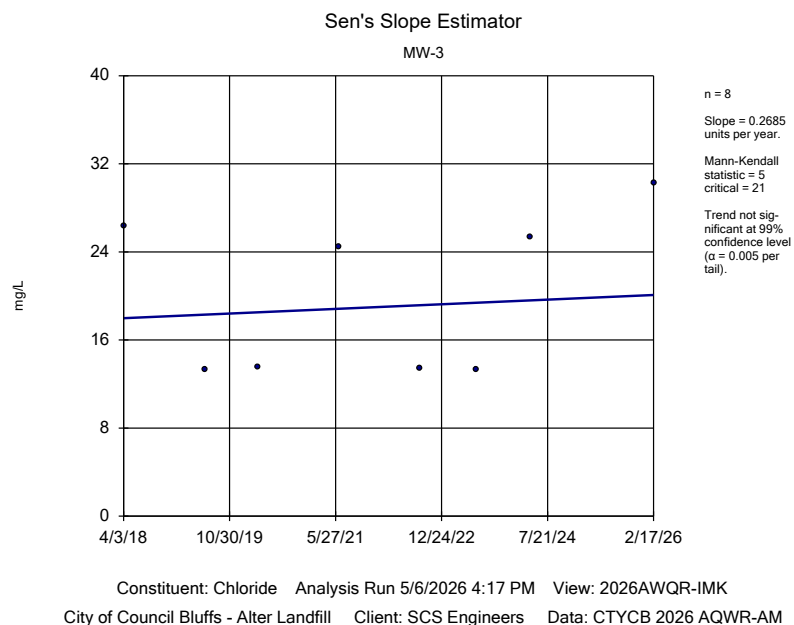
Sen's Slope Estimator

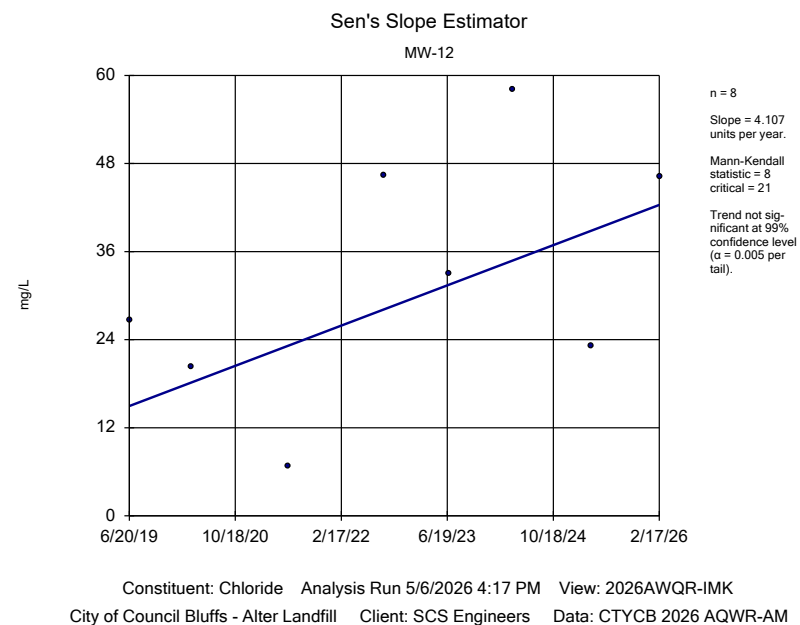
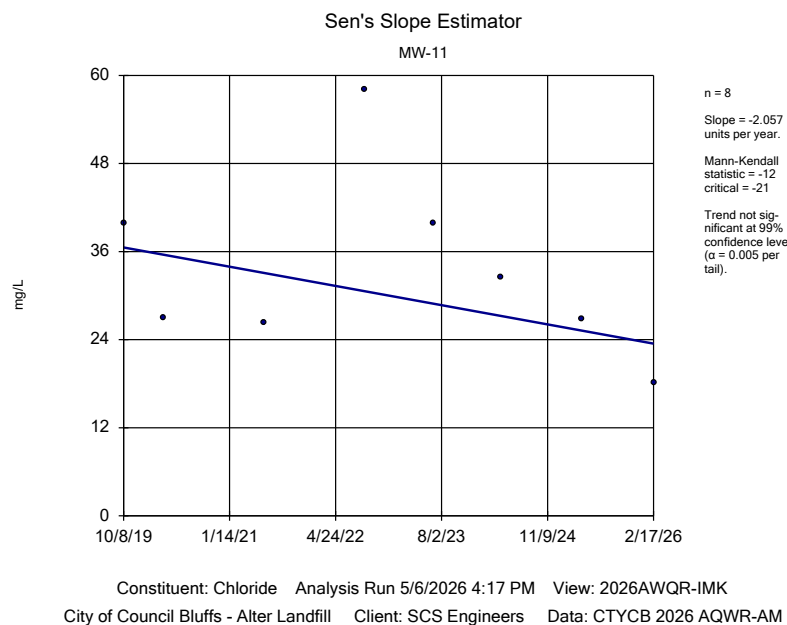
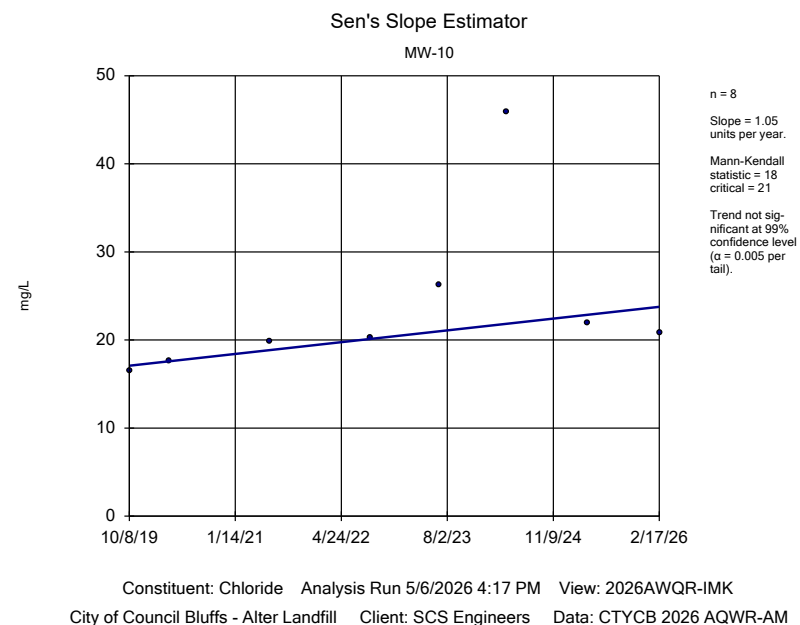
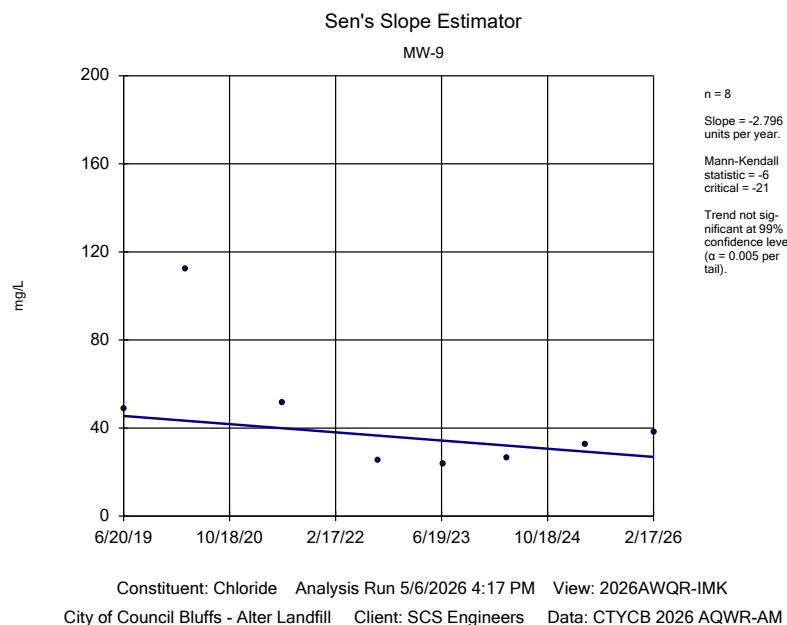
MW-15R

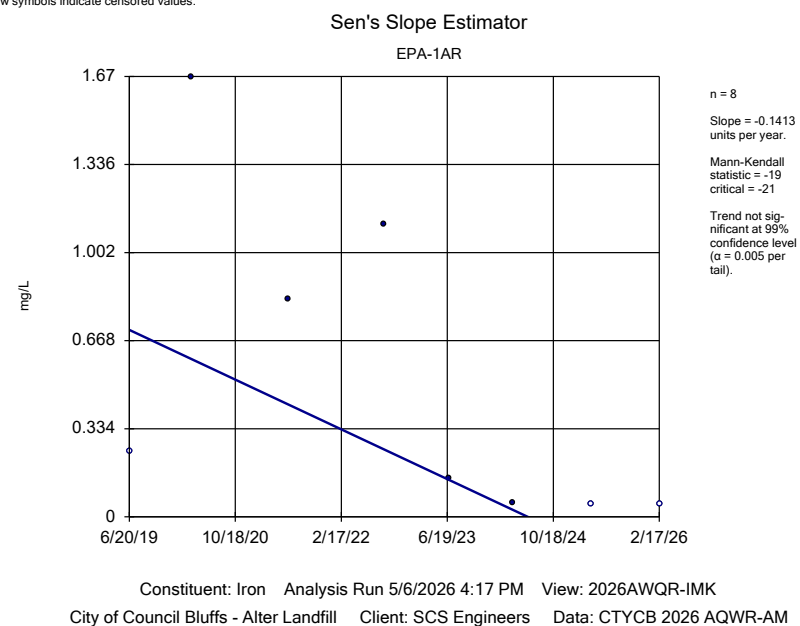
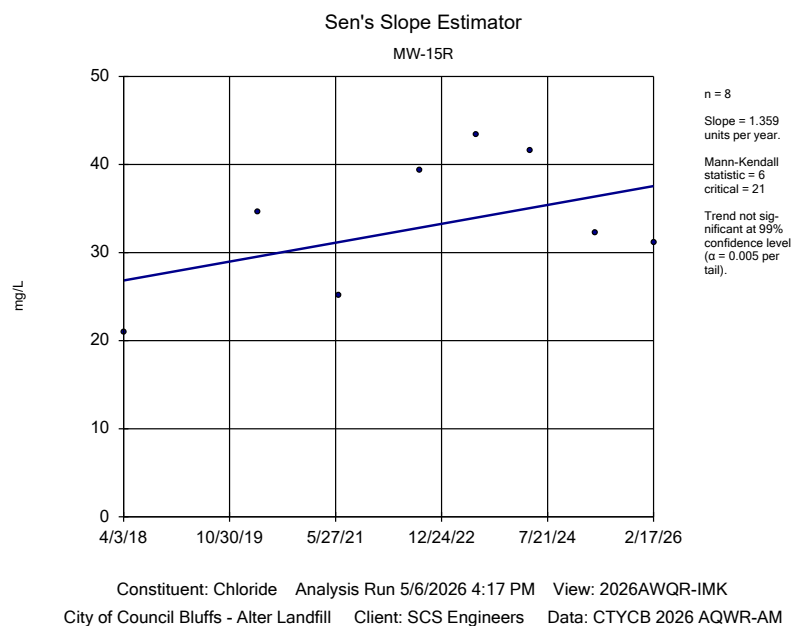
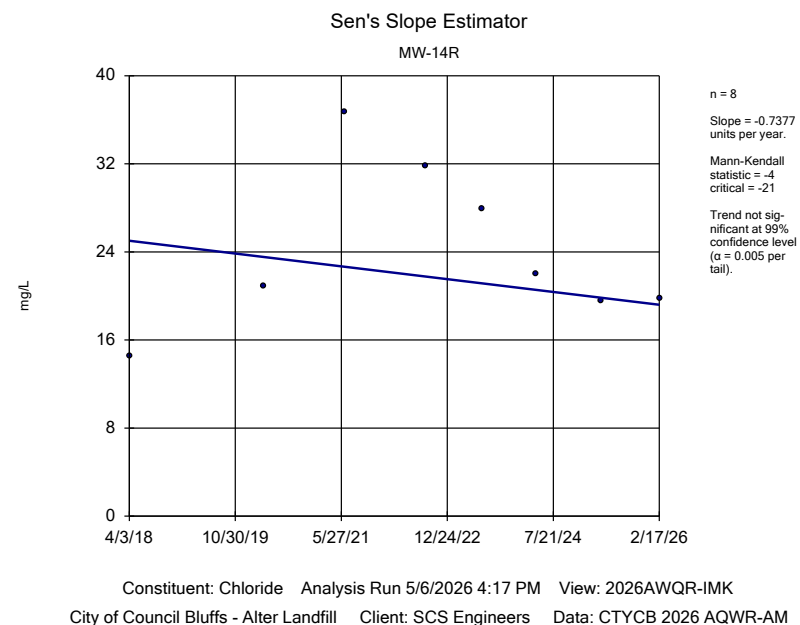
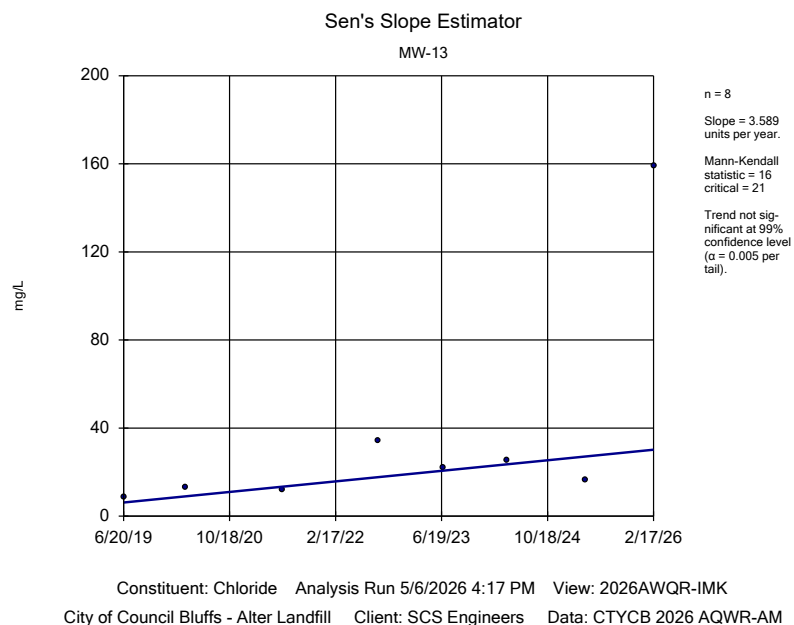


Constituent: Chemical Oxygen Demand Analysis Run 5/6/2026 4:17 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM



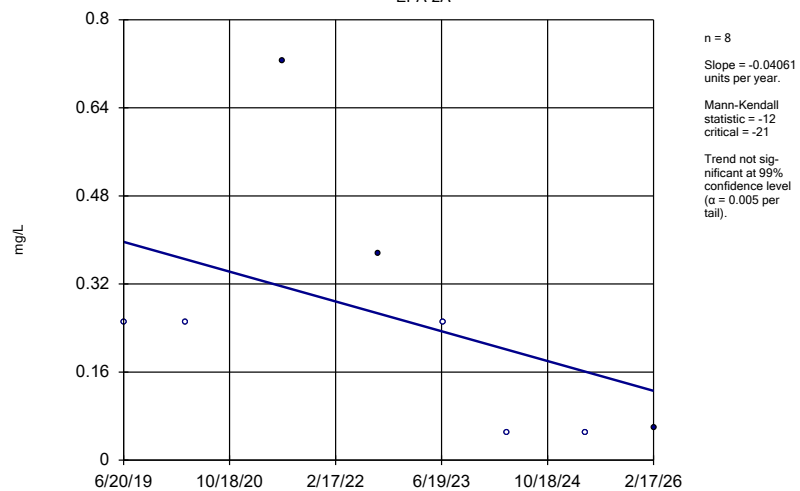






Sen's Slope Estimator

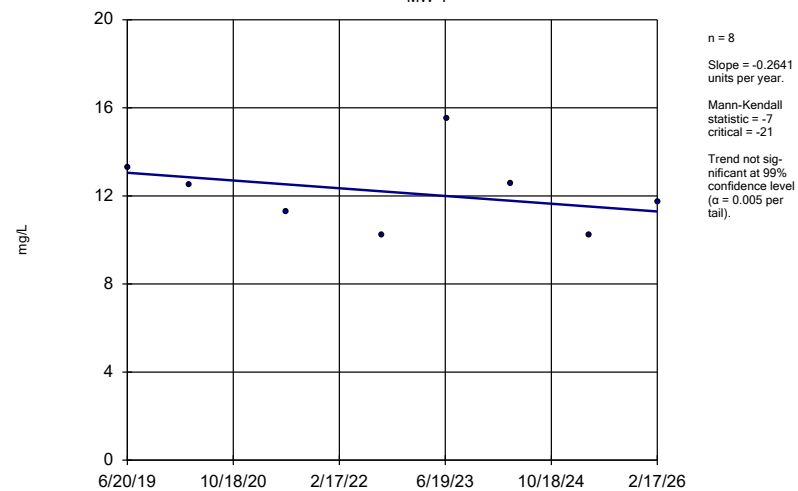
EPA-2A



Constituent: Iron Analysis Run 5/6/2026 4:17 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Sen's Slope Estimator

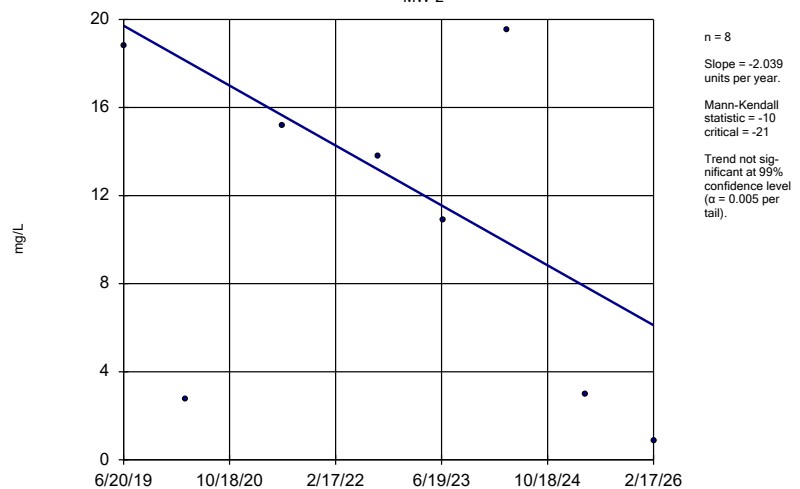
MW-1



Constituent: Iron Analysis Run 5/6/2026 4:17 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Sen's Slope Estimator

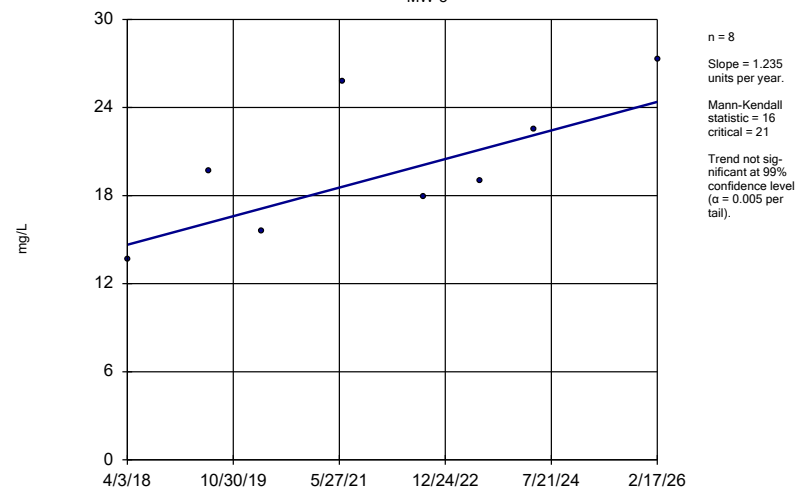
MW-2



Constituent: Iron Analysis Run 5/6/2026 4:17 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Sen's Slope Estimator

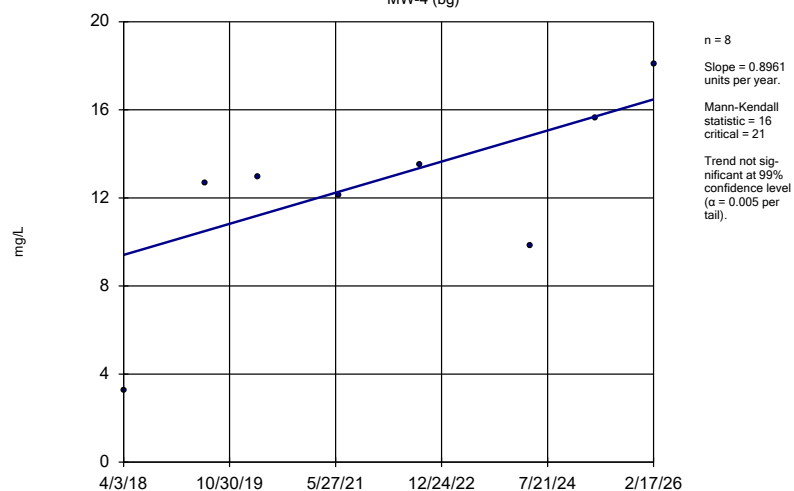
MW-3



Constituent: Iron Analysis Run 5/6/2026 4:17 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Sen's Slope Estimator

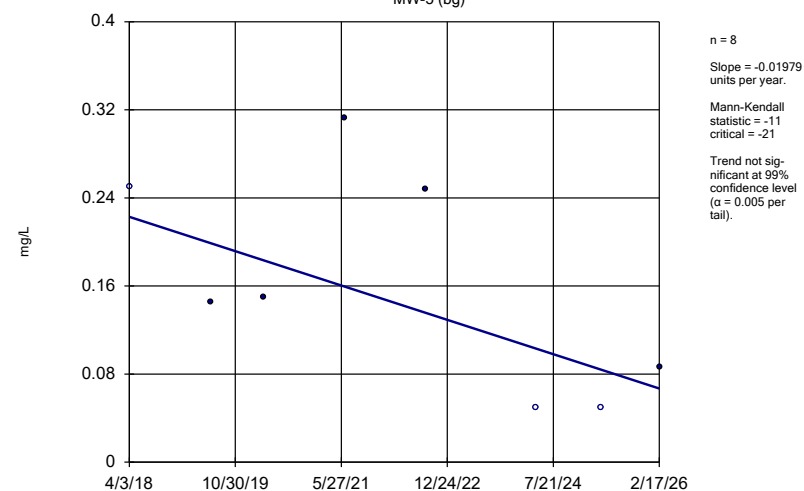
MW-4 (bg)



Constituent: Iron Analysis Run 5/6/2026 4:17 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Sen's Slope Estimator

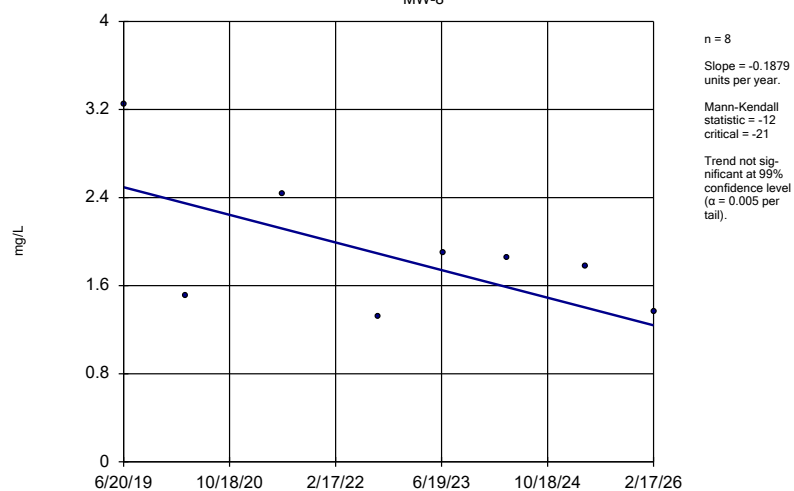
MW-5 (bg)



Constituent: Iron Analysis Run 5/6/2026 4:17 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Sen's Slope Estimator

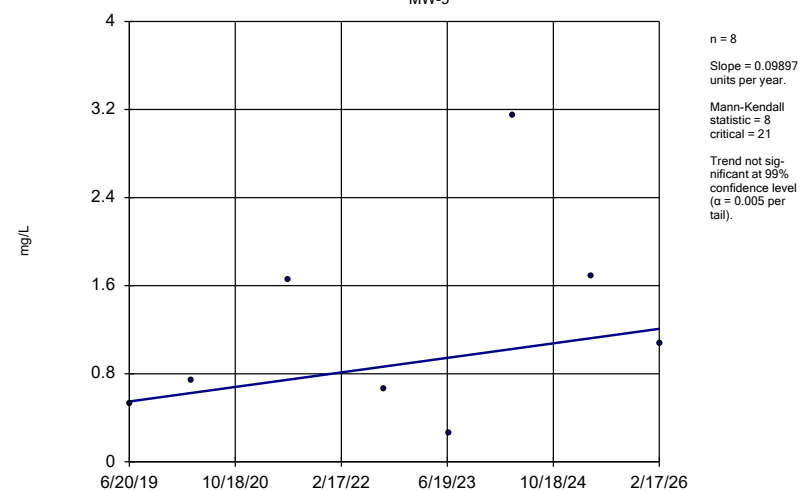
MW-8



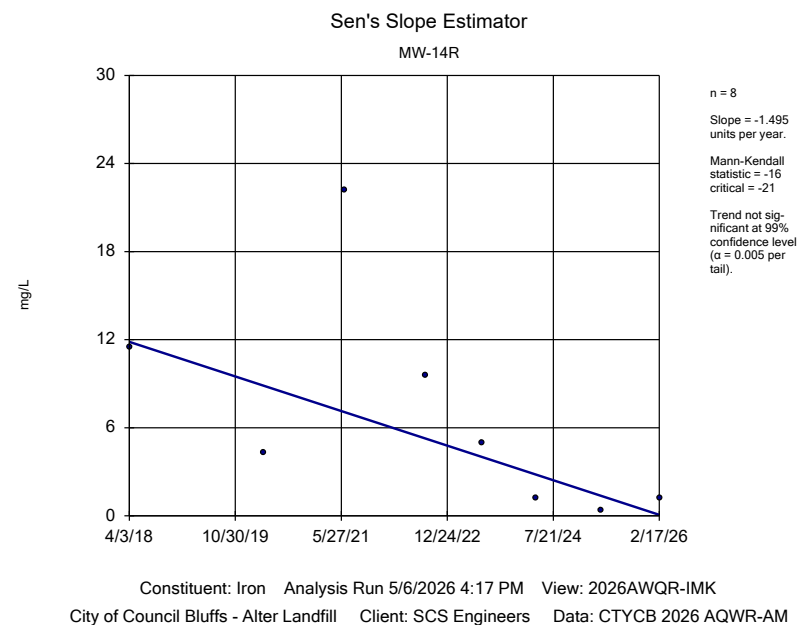
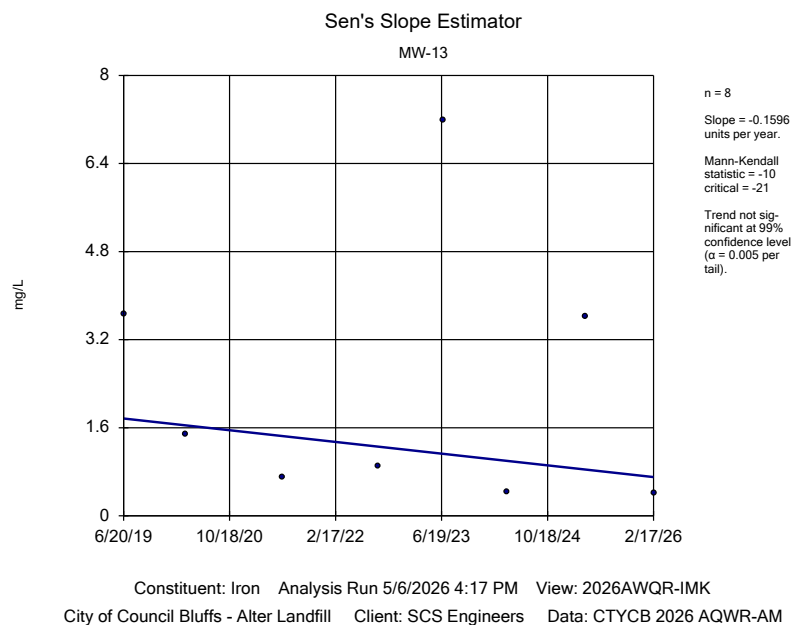
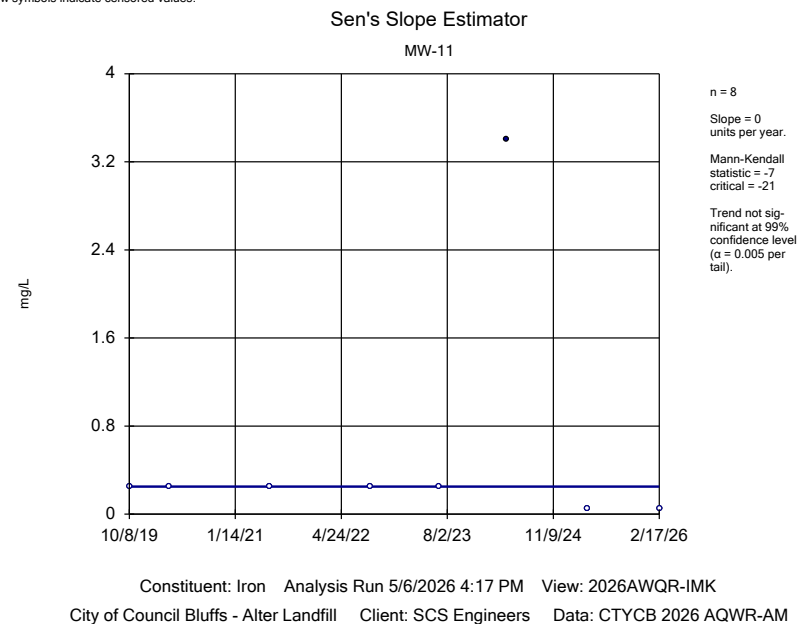
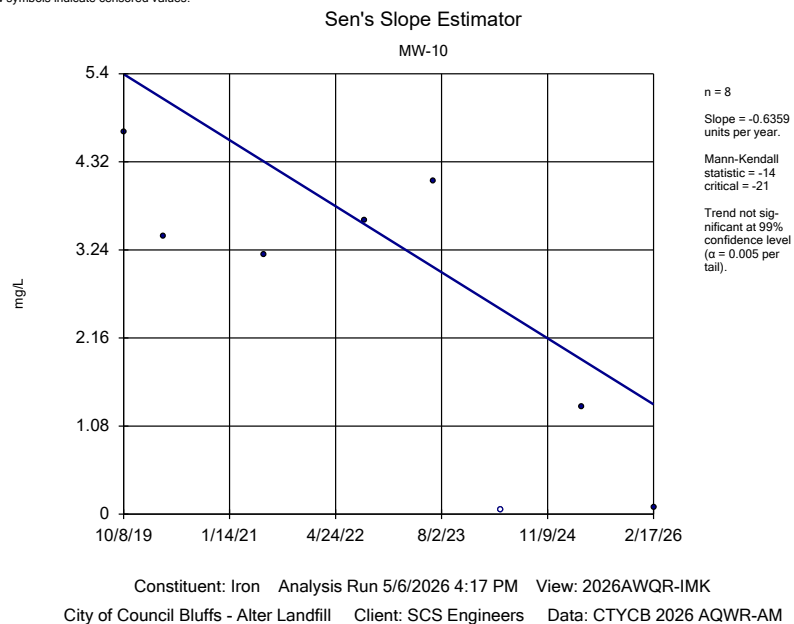
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City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Sen's Slope Estimator

MW-9

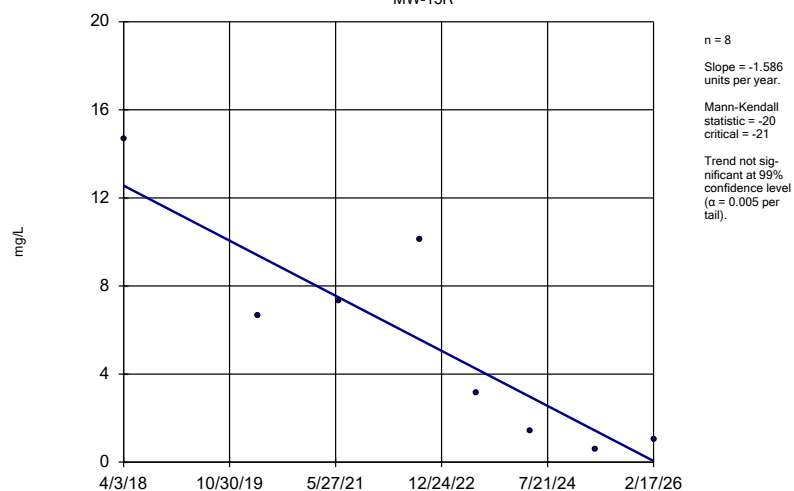


Constituent: Iron Analysis Run 5/6/2026 4:17 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM



Sen's Slope Estimator

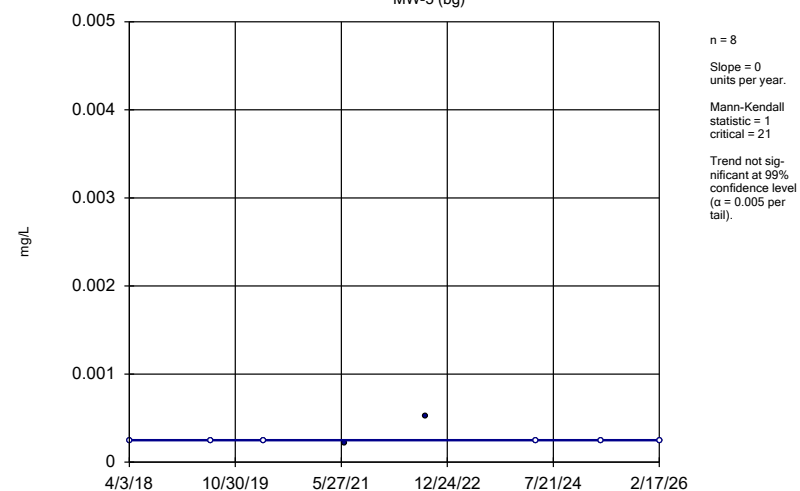
MW-15R



Constituent: Iron Analysis Run 5/6/2026 4:17 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Sen's Slope Estimator

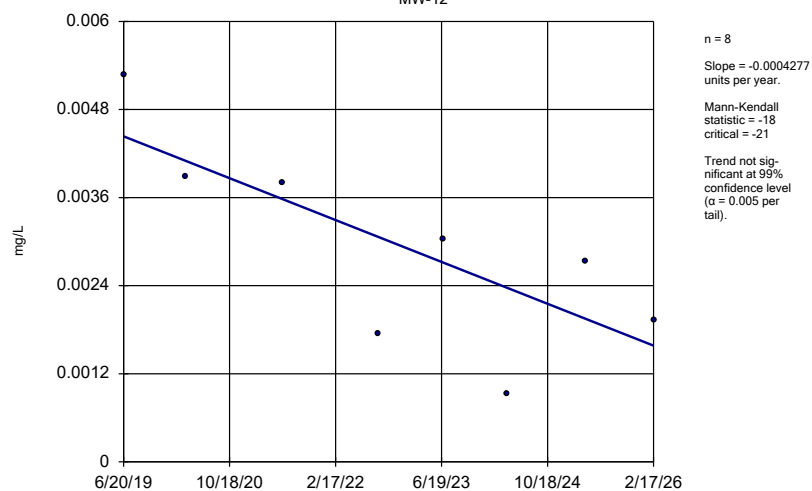
MW-5 (bg)



Constituent: Lead Analysis Run 5/6/2026 4:17 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Sen's Slope Estimator

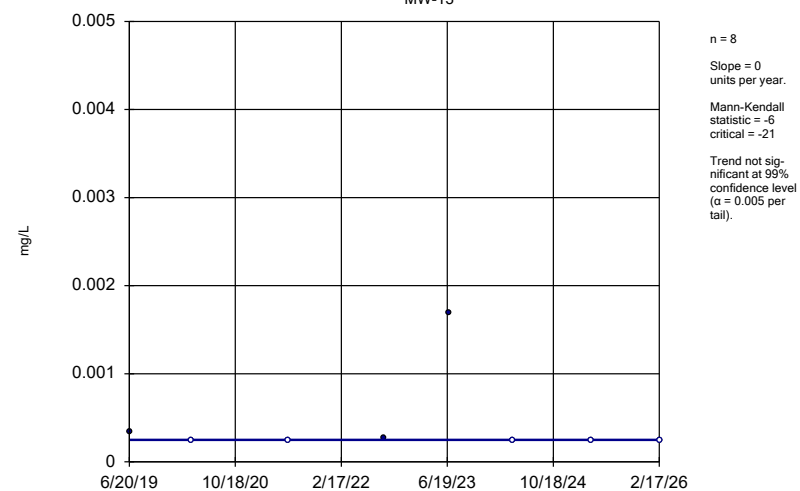
MW-12



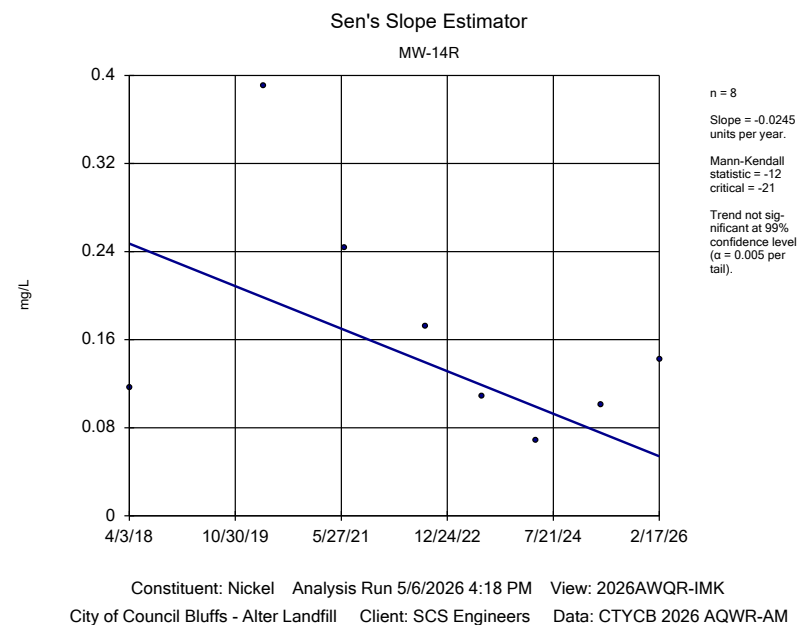
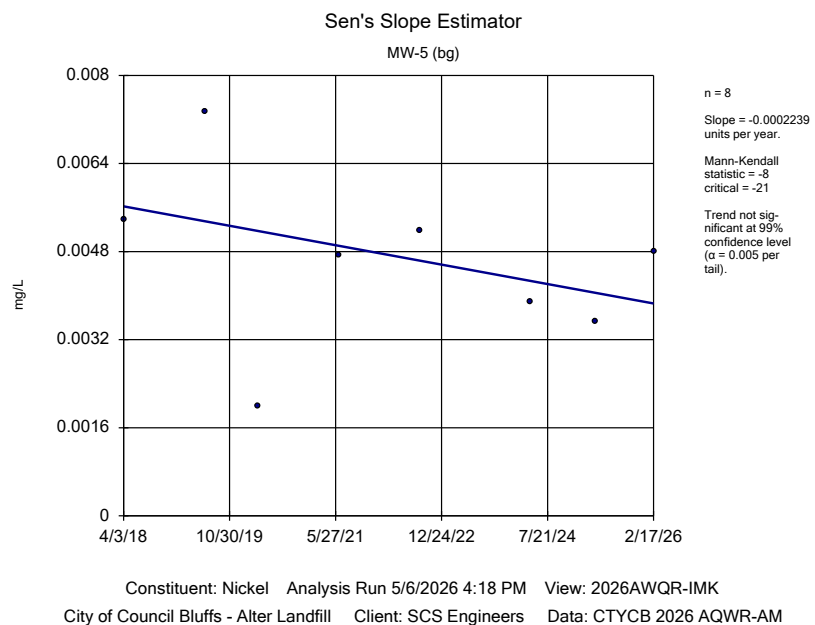
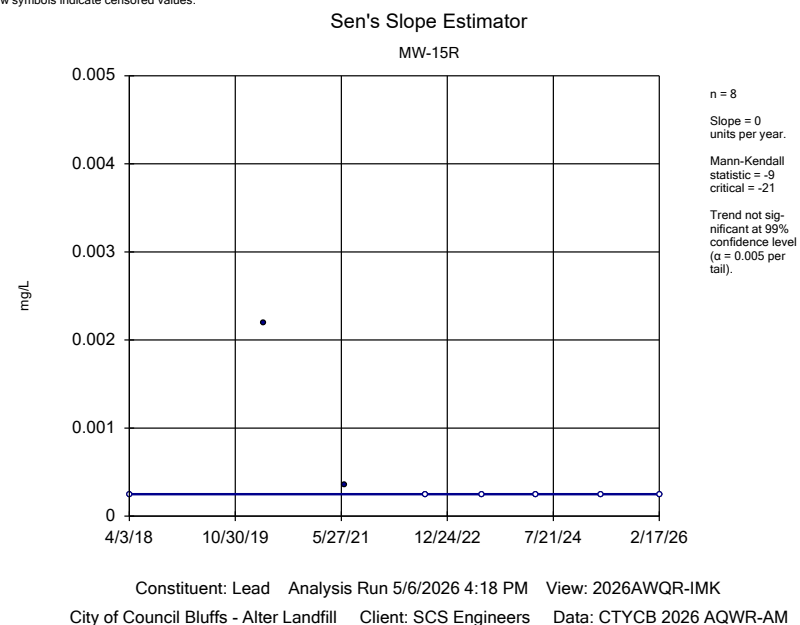
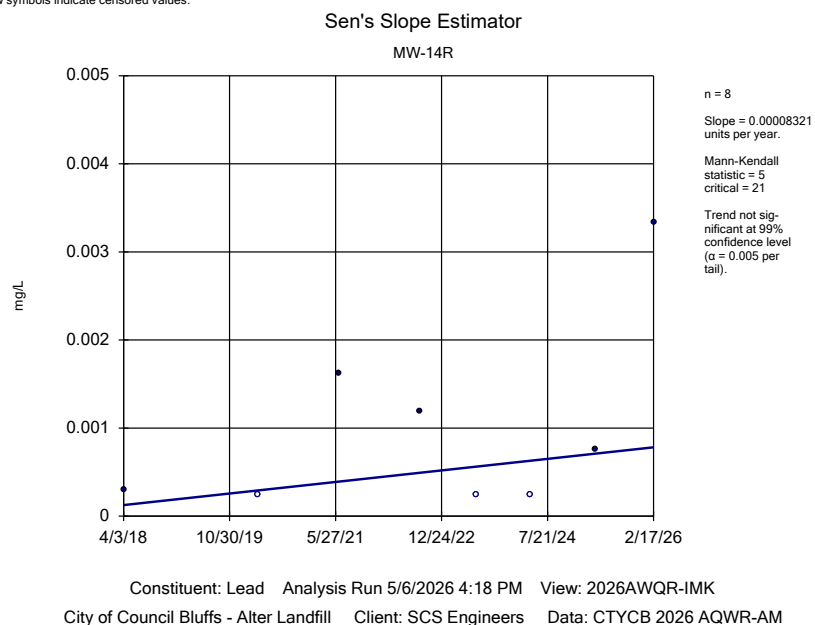
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City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

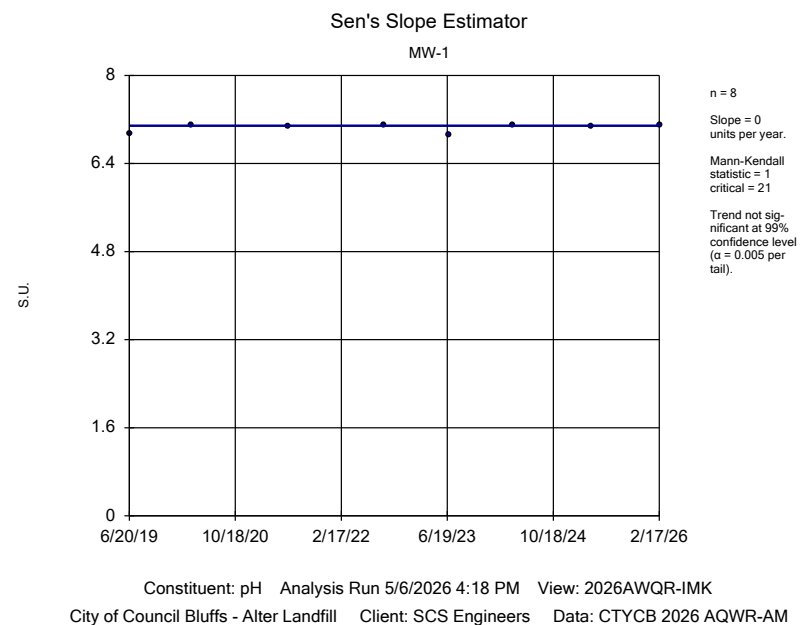
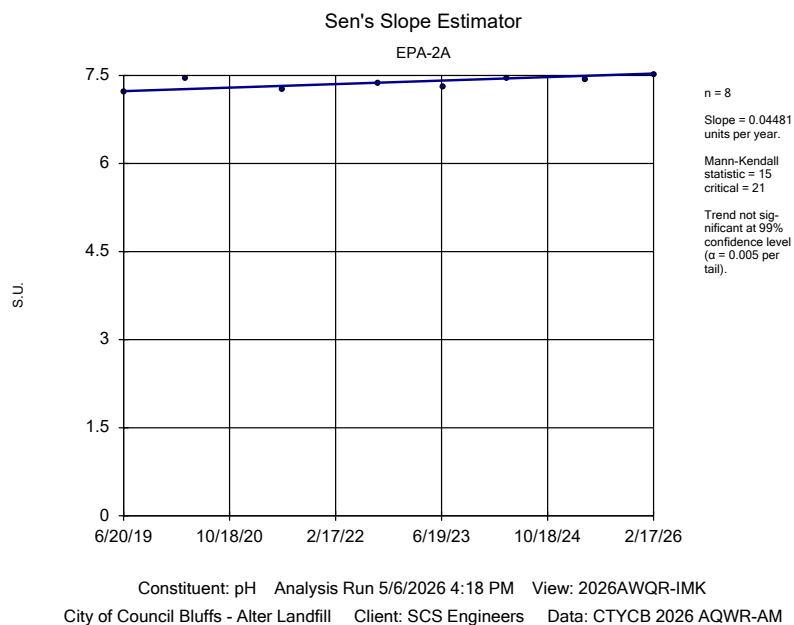
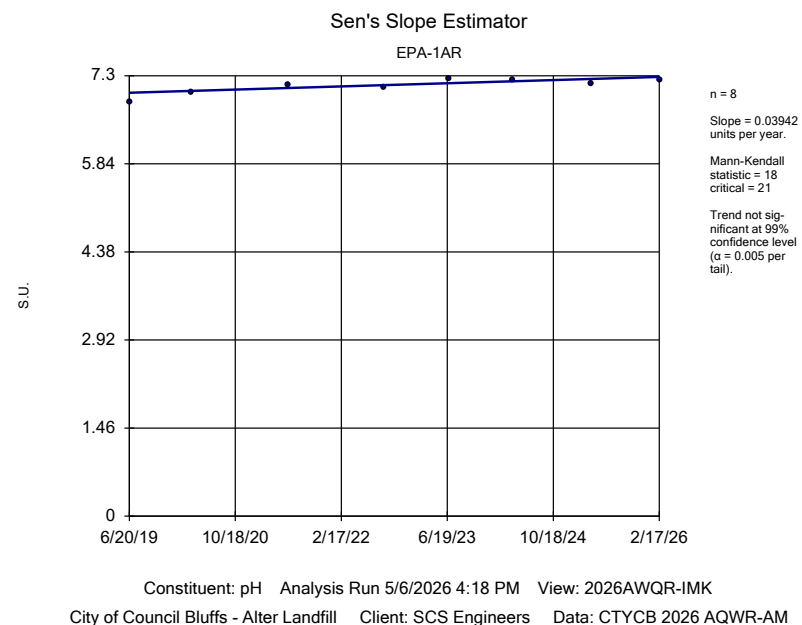
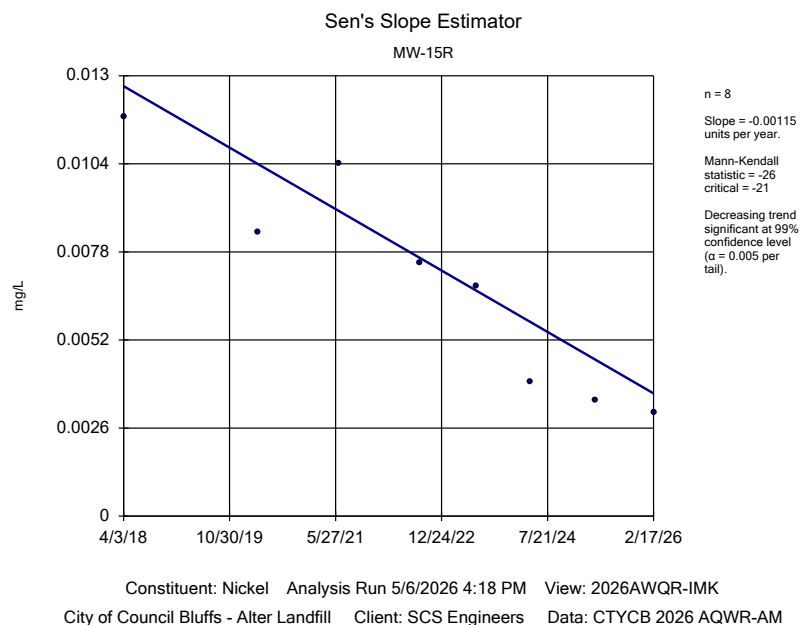
Sen's Slope Estimator

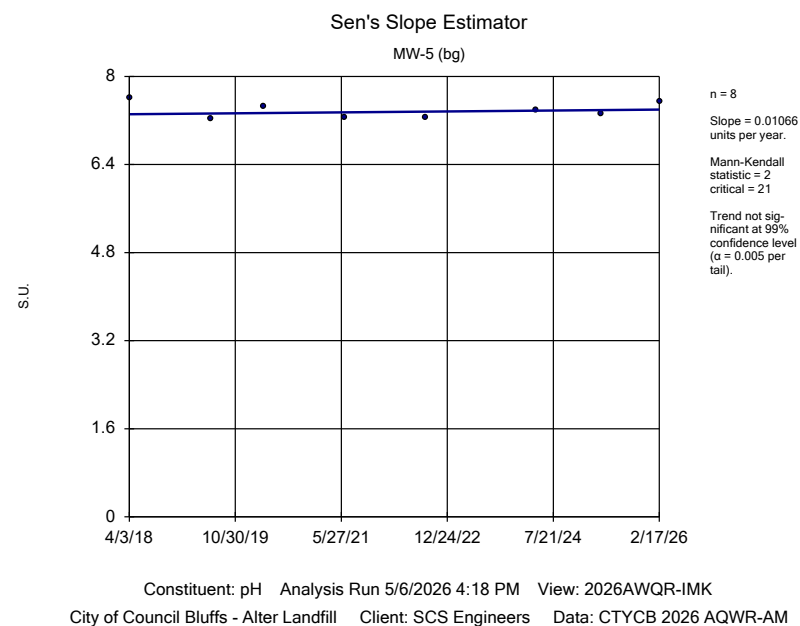
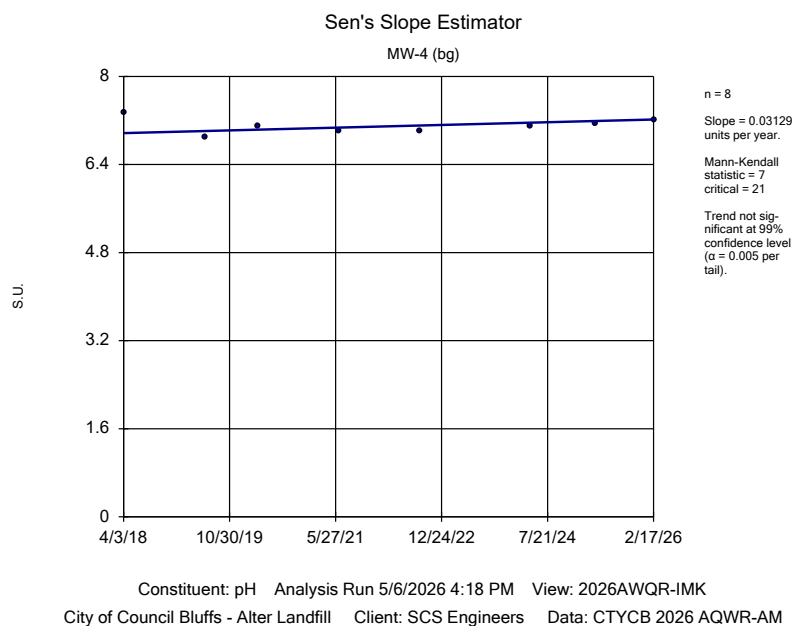
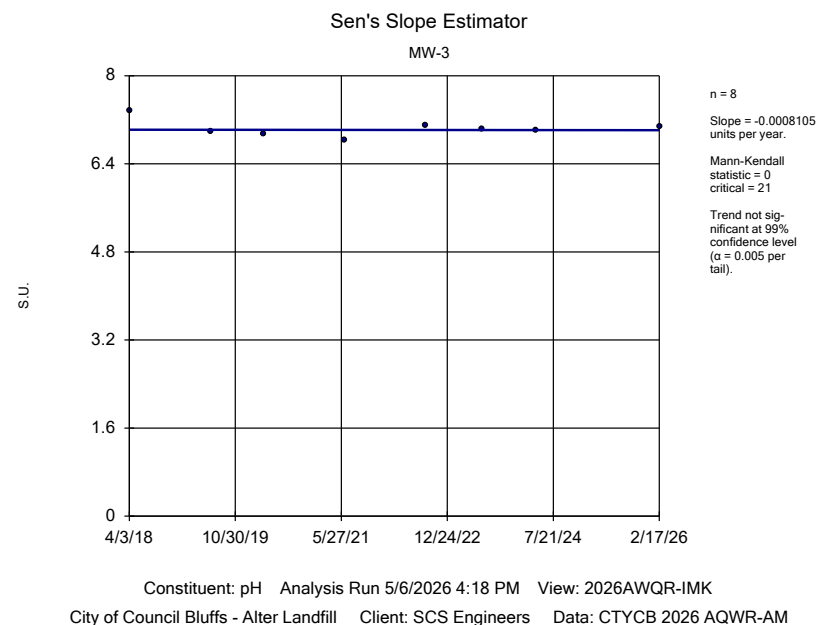
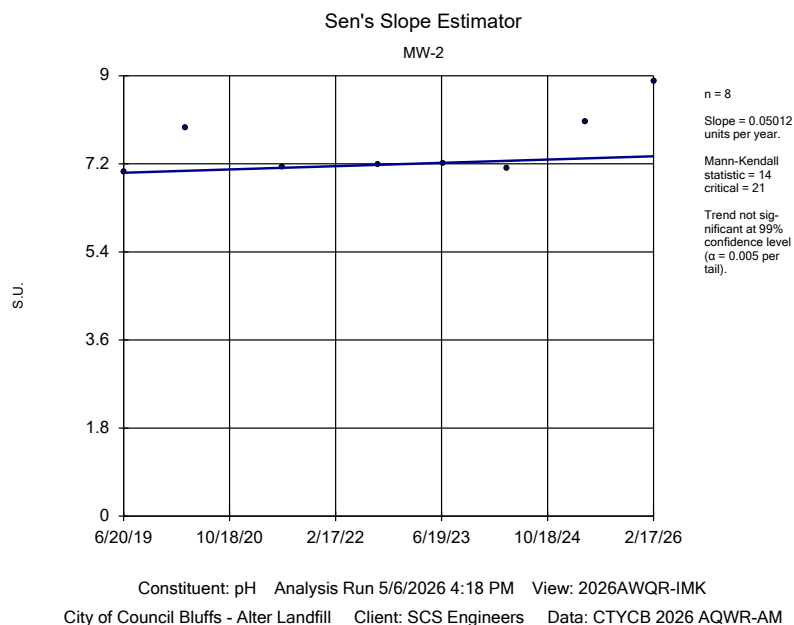
MW-13

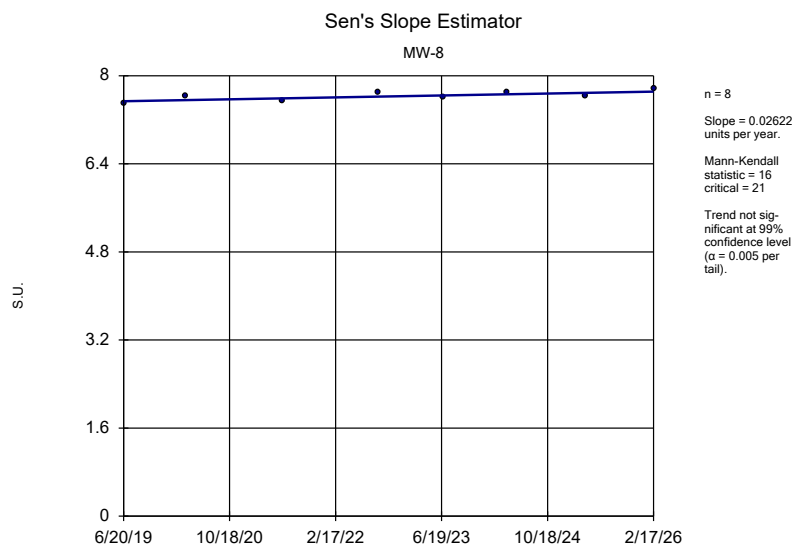


Constituent: Lead Analysis Run 5/6/2026 4:17 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

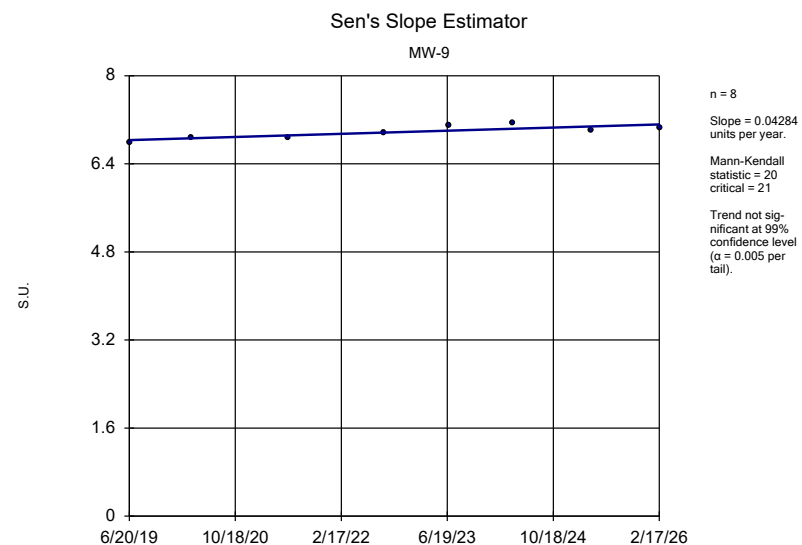




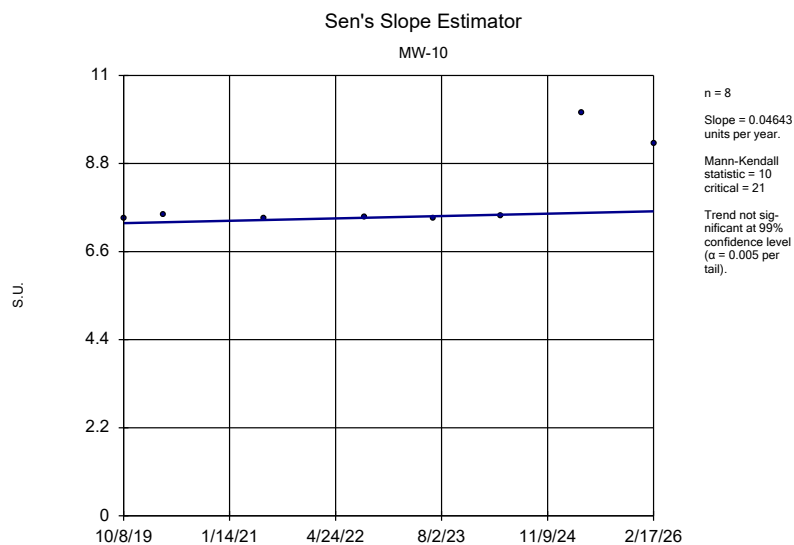




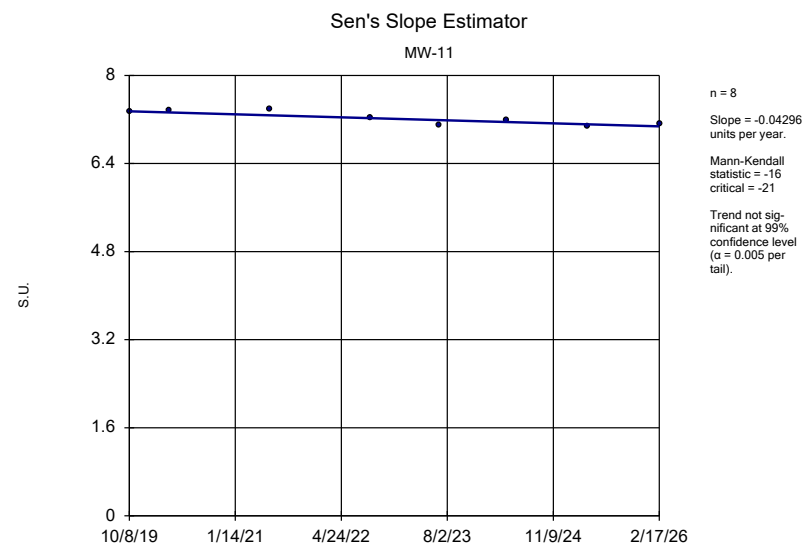
Constituent: pH Analysis Run 5/6/2026 4:18 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM



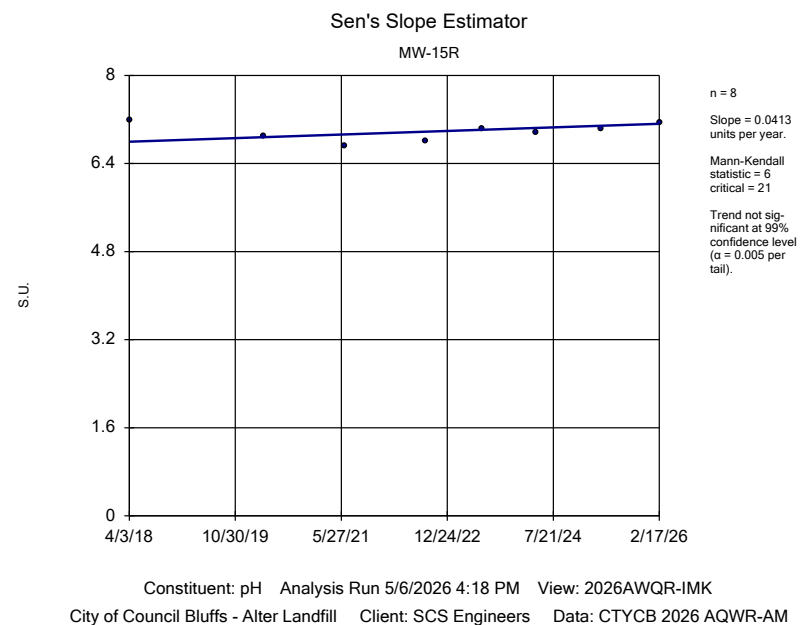
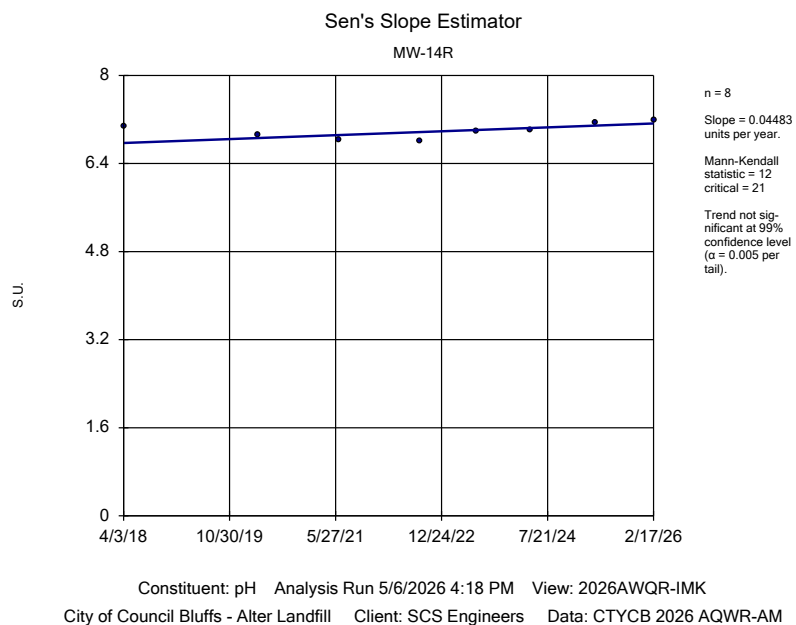
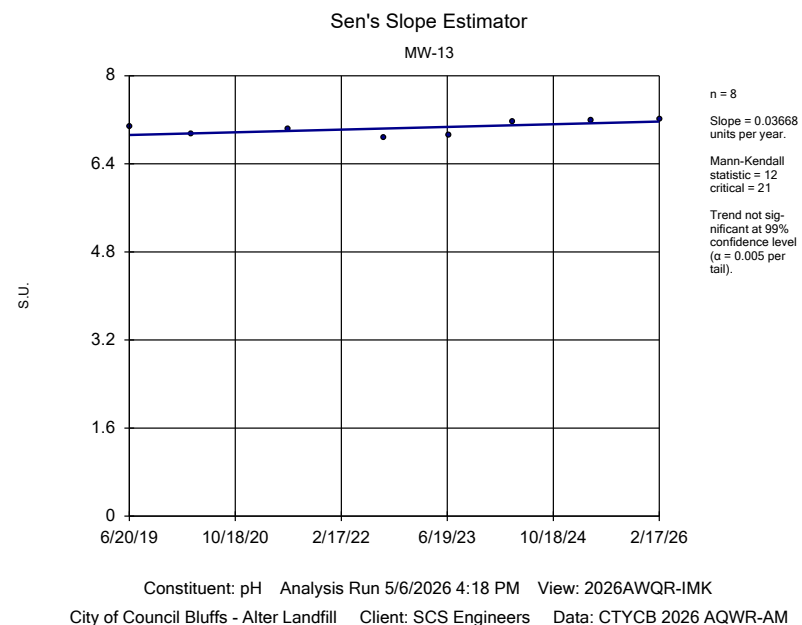
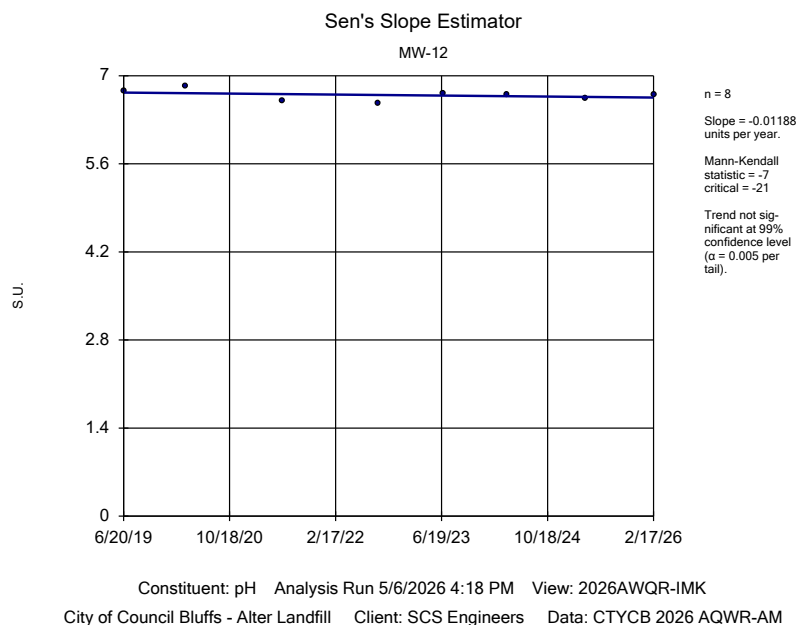
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City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

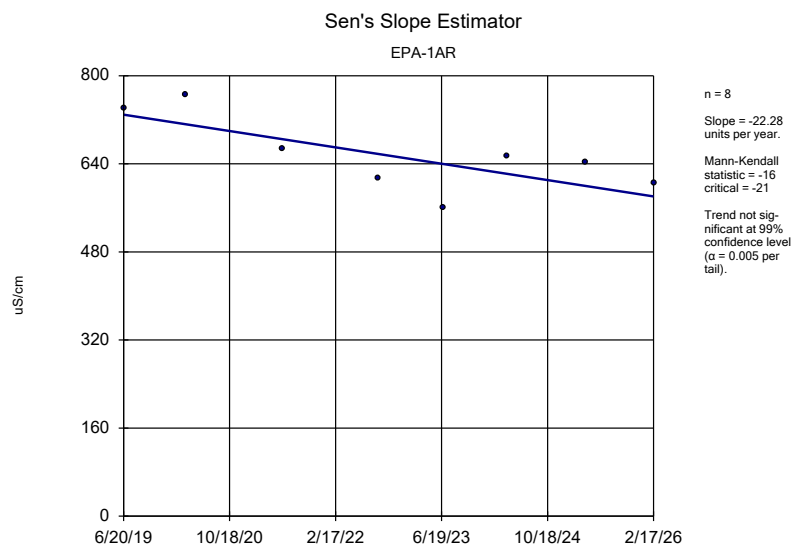


Constituent: pH Analysis Run 5/6/2026 4:18 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

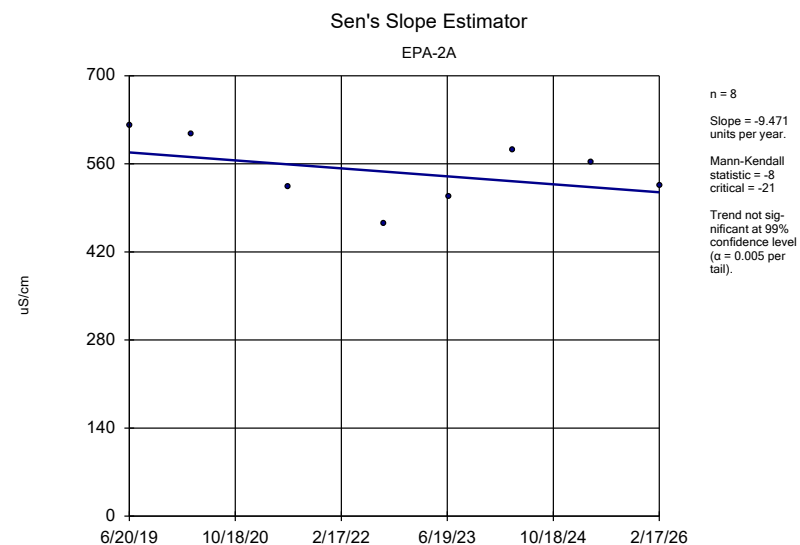


Constituent: pH Analysis Run 5/6/2026 4:18 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

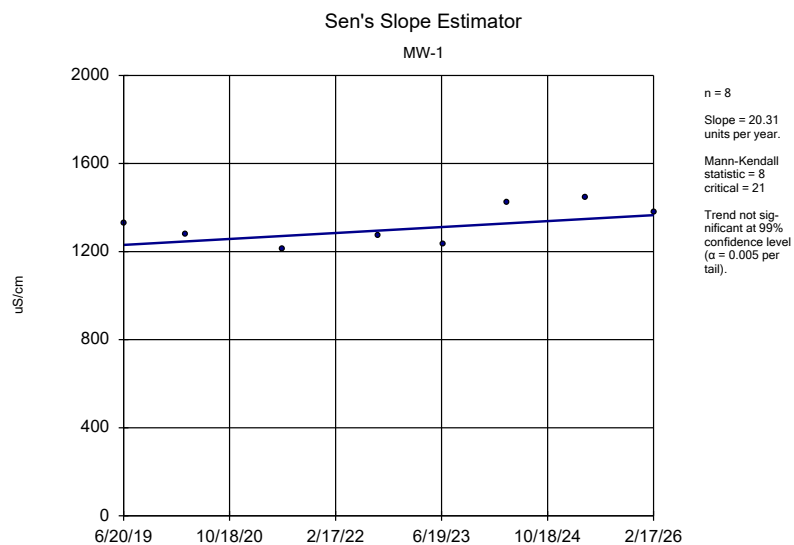




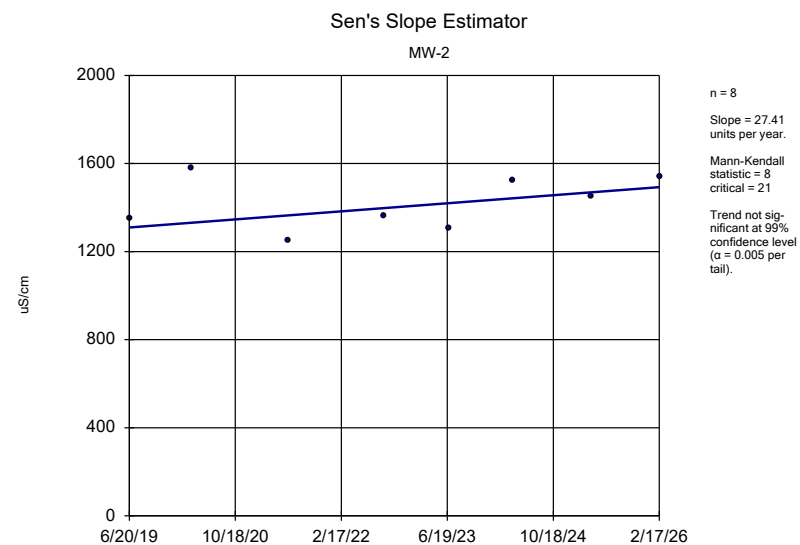
Constituent: Specific Conductance Analysis Run 5/6/2026 4:18 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM



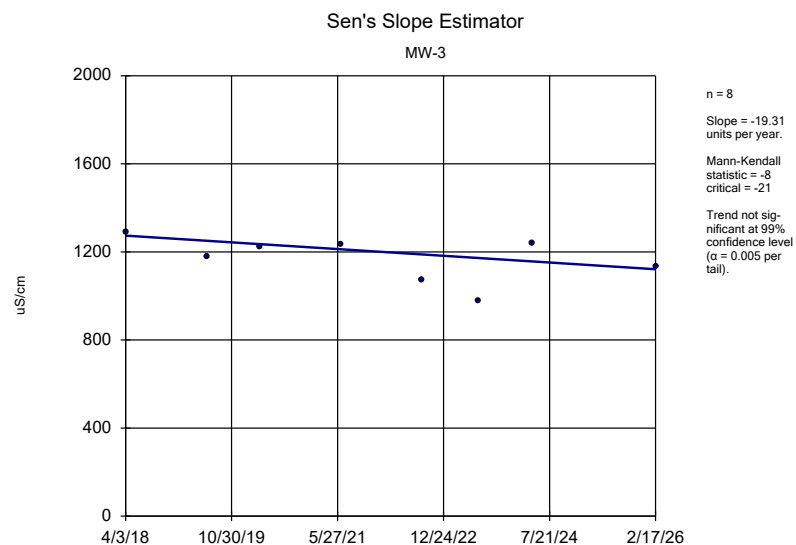
Constituent: Specific Conductance Analysis Run 5/6/2026 4:18 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM



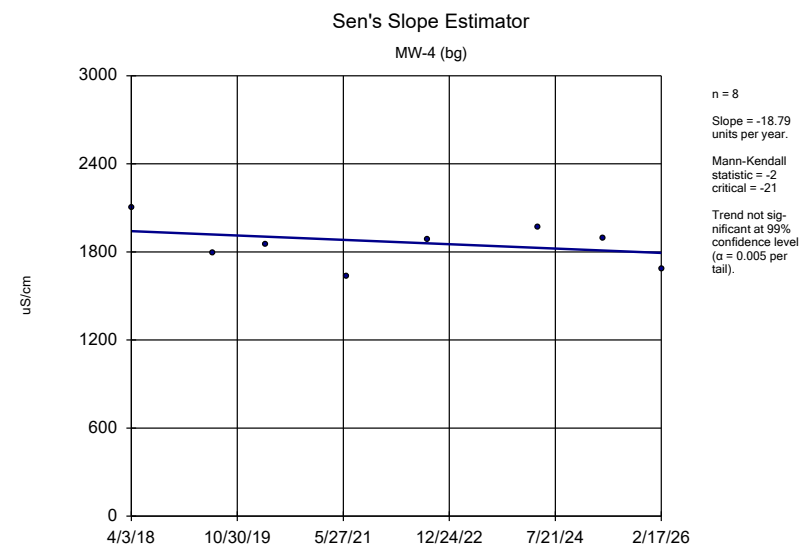
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City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM



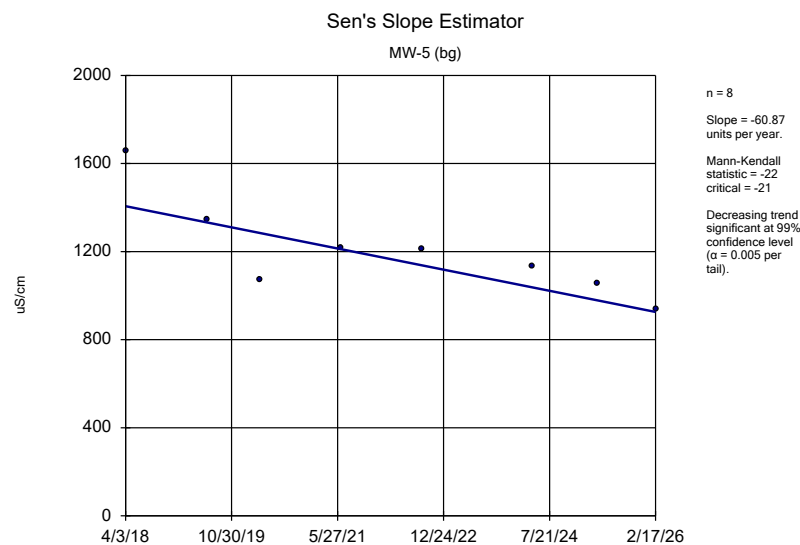
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City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM



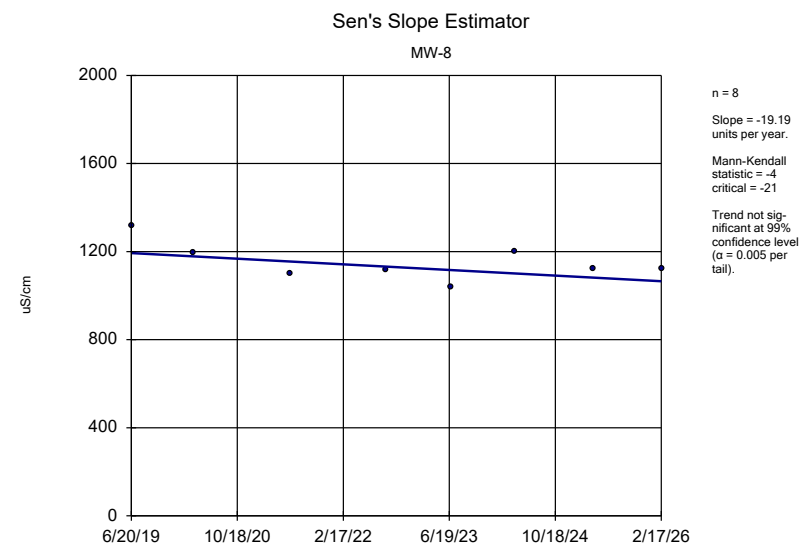
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City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM



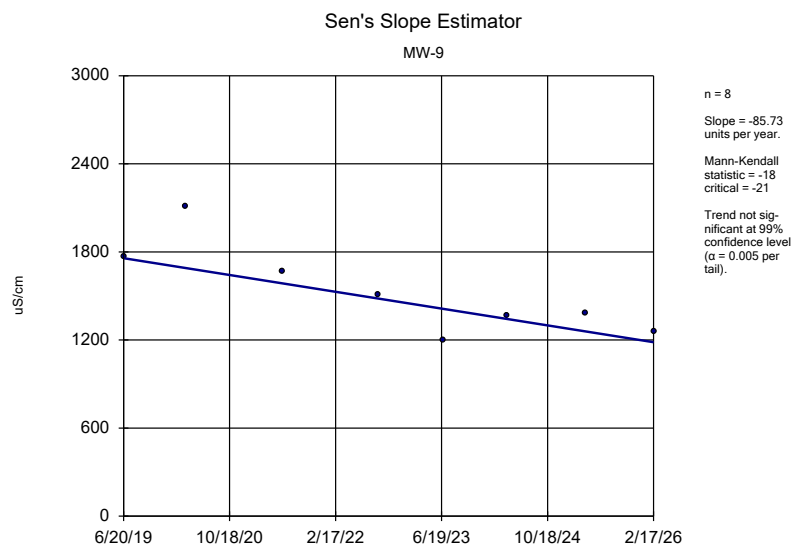
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City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM



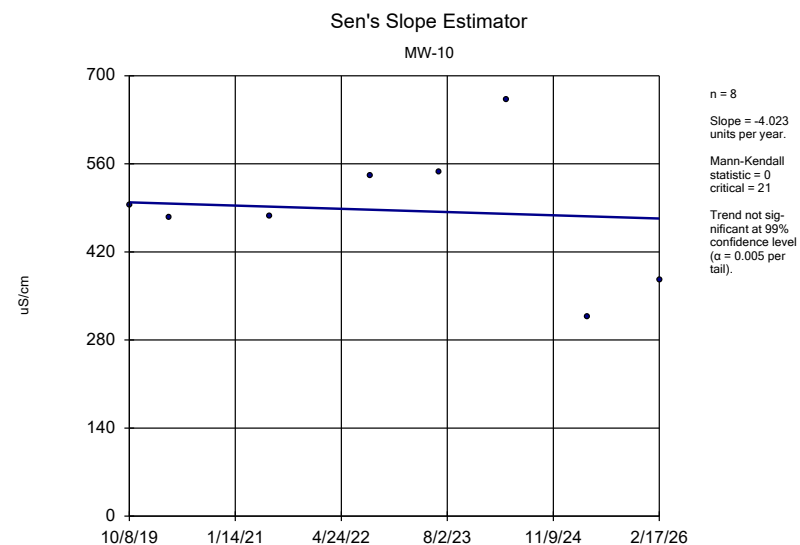
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City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM



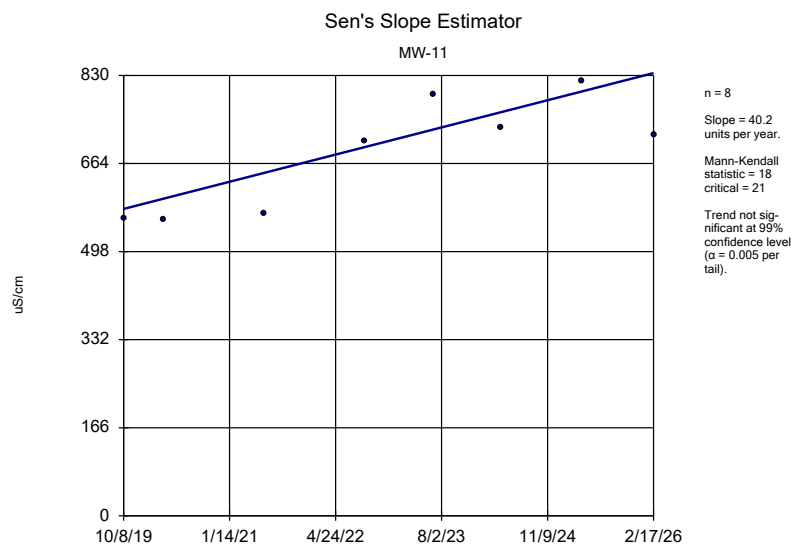
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City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM



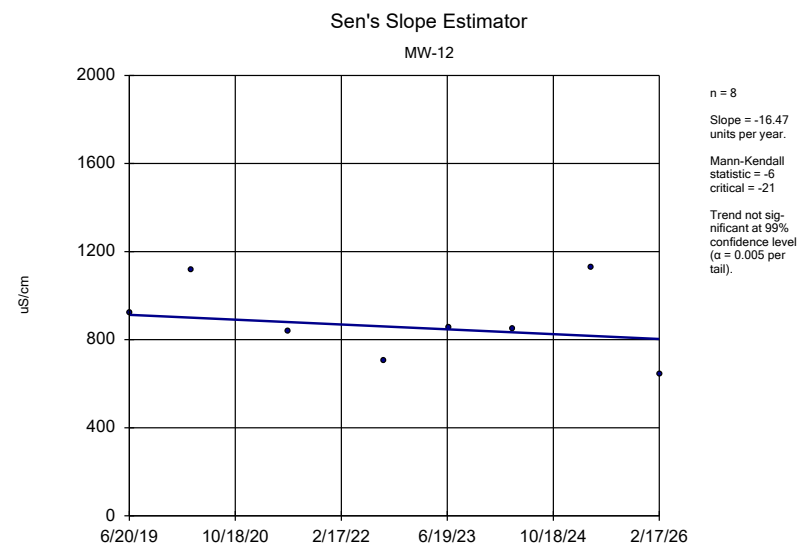
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City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM



Constituent: Specific Conductance Analysis Run 5/6/2026 4:18 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM



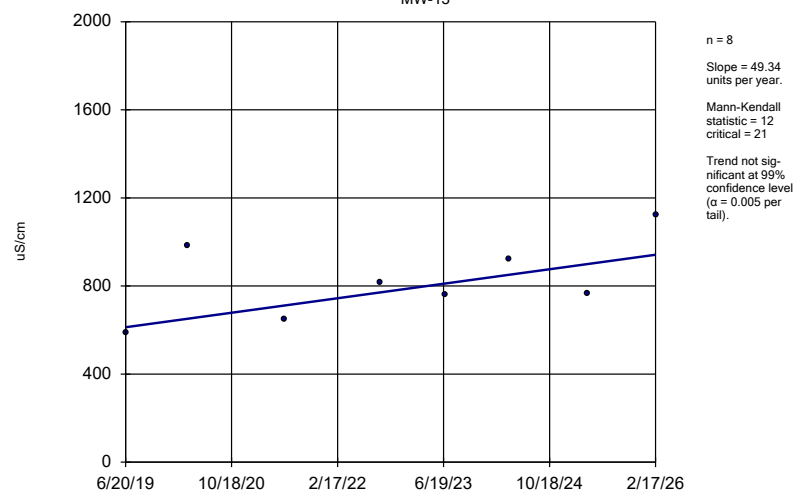
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City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM



Constituent: Specific Conductance Analysis Run 5/6/2026 4:18 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Sen's Slope Estimator

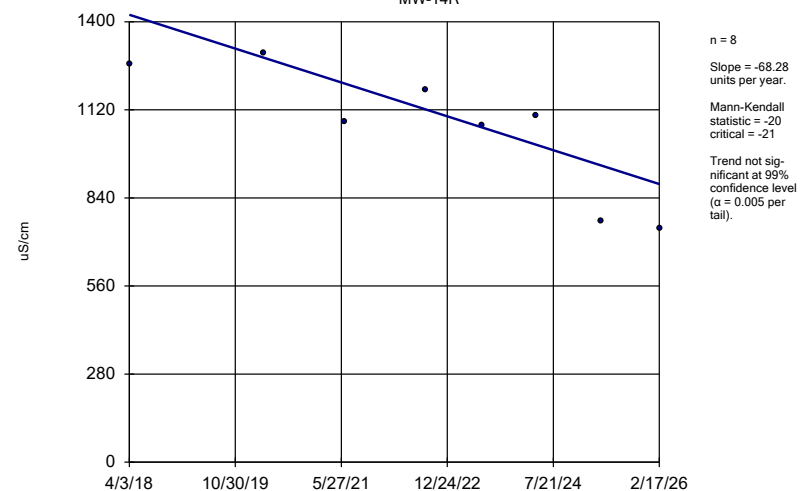
MW-13



Constituent: Specific Conductance Analysis Run 5/6/2026 4:18 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Sen's Slope Estimator

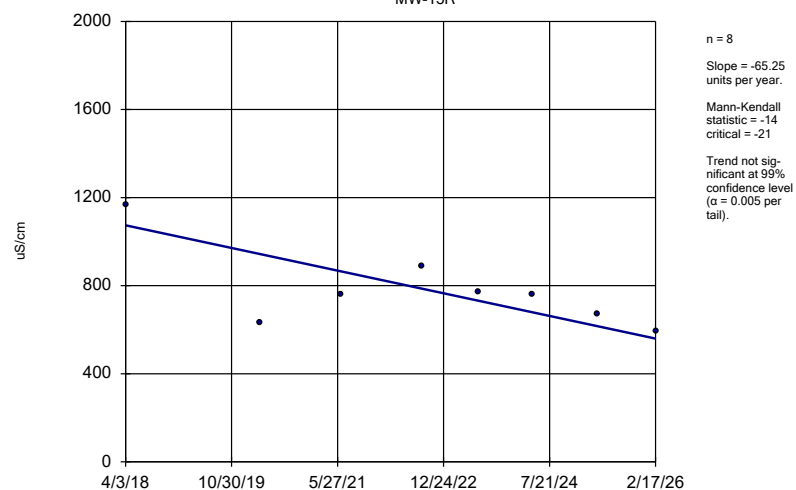
MW-14R



Constituent: Specific Conductance Analysis Run 5/6/2026 4:18 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Sen's Slope Estimator

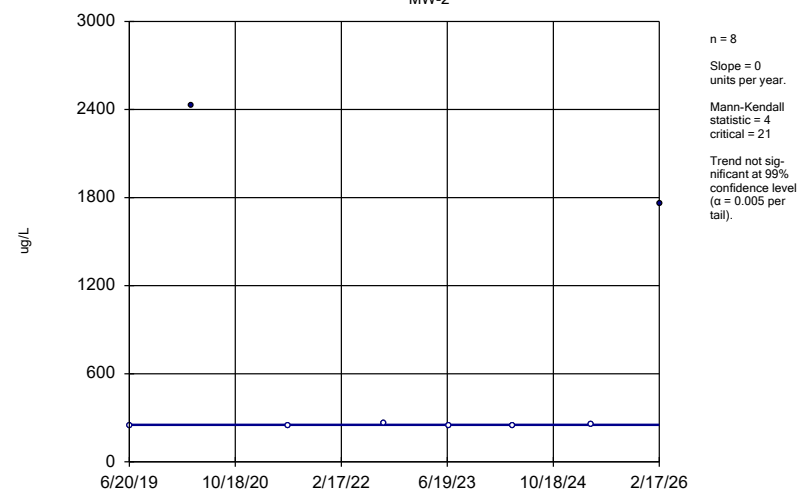
MW-15R



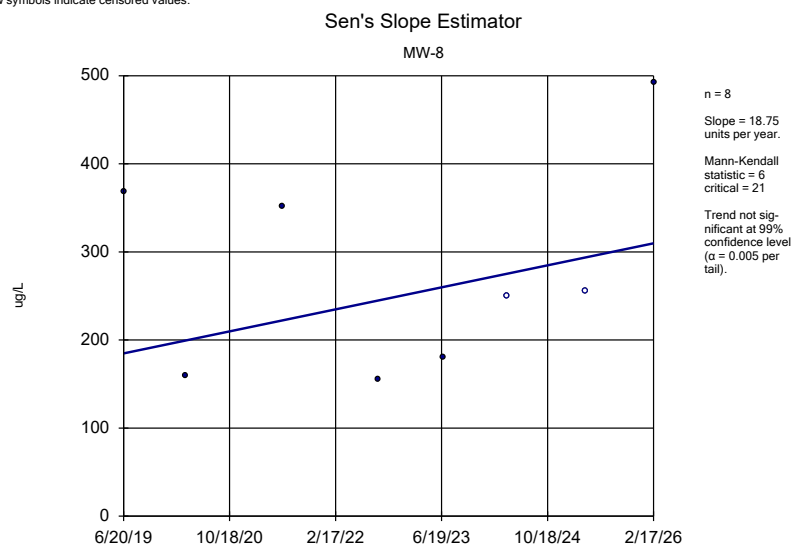
Constituent: Specific Conductance Analysis Run 5/6/2026 4:18 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Sen's Slope Estimator

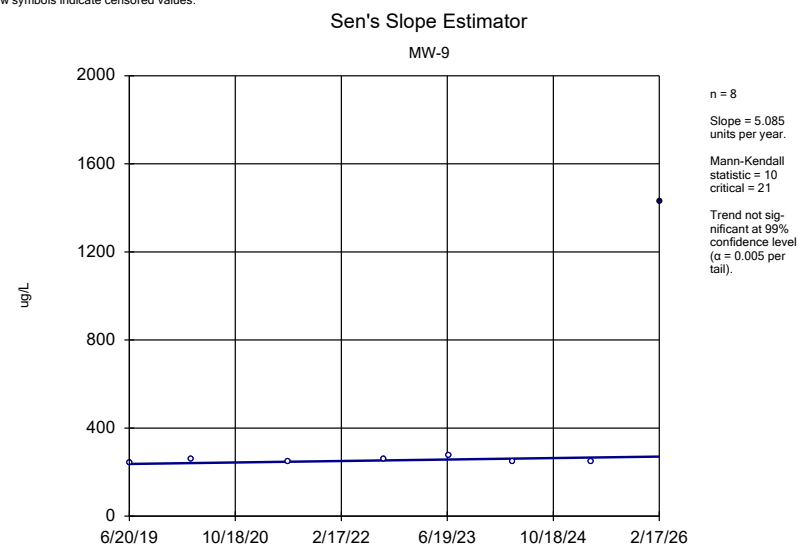
MW-2



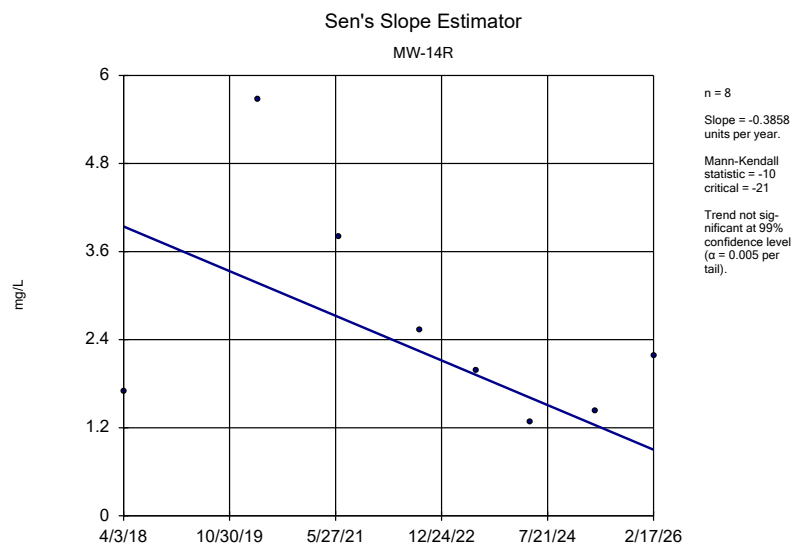
Constituent: Total Extractable Hydrocarbons Analysis Run 5/6/2026 4:18 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM



Constituent: Total Extractable Hydrocarbons Analysis Run 5/6/2026 4:19 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM



Constituent: Total Extractable Hydrocarbons Analysis Run 5/6/2026 4:19 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM



Constituent: Zinc Analysis Run 5/6/2026 4:19 PM View: 2026AWQR-IMK
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB 2026 AQWR-AM

Attachment B

Control Limits

Control Limit

City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master Printed 5/4/2026, 1:24 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs
Ammonia as N (mg/L)	MW-1	1.209	n/a	2/17/2026	1.36	Yes	62	MW-4,MW-5	0.3567	0.4262	50
Ammonia as N (mg/L)	MW-2	1.209	n/a	2/17/2026	33	Yes	62	MW-4,MW-5	0.3567	0.4262	50
Ammonia as N (mg/L)	MW-3	1.209	n/a	2/17/2026	0.986	No	62	MW-4,MW-5	0.3567	0.4262	50
Ammonia as N (mg/L)	MW-8	1.209	n/a	2/17/2026	0.454	No	62	MW-4,MW-5	0.3567	0.4262	50
Arsenic (mg/L)	EPA-2A	0.005042	n/a	2/17/2026	0.00232	No	30	MW-4,MW-5	0.001938	0.001552	6.667
Arsenic (mg/L)	MW-2	0.005042	n/a	2/17/2026	0.159	Yes	30	MW-4,MW-5	0.001938	0.001552	6.667
Arsenic (mg/L)	MW-3	0.005042	n/a	2/17/2026	0.175	Yes	30	MW-4,MW-5	0.001938	0.001552	6.667
Arsenic (mg/L)	MW-10	0.005042	n/a	2/17/2026	0.00975	Yes	30	MW-4,MW-5	0.001938	0.001552	6.667
Arsenic (mg/L)	MW-13	0.005042	n/a	2/17/2026	0.00157J	No	30	MW-4,MW-5	0.001938	0.001552	6.667
Arsenic (mg/L)	MW-14R	0.005042	n/a	2/17/2026	0.00269	No	30	MW-4,MW-5	0.001938	0.001552	6.667
Arsenic (mg/L)	MW-15R	0.005042	n/a	2/17/2026	0.00191J	No	30	MW-4,MW-5	0.001938	0.001552	6.667
Barium (mg/L)	MW-14R	0.4108	n/a	2/17/2026	0.185	No	30	MW-4,MW-5	0.1988	0.106	0
Barium (mg/L)	MW-15R	0.4108	n/a	2/17/2026	0.256	No	30	MW-4,MW-5	0.1988	0.106	0
Chemical Oxygen Demand (mg/L)	MW-2	38.75	n/a	2/17/2026	113	Yes	62	MW-4,MW-5	19.39	9.68	6.452
Chemical Oxygen Demand (mg/L)	MW-3	38.75	n/a	2/17/2026	44.4	Yes	62	MW-4,MW-5	19.39	9.68	6.452
Chemical Oxygen Demand (mg/L)	MW-8	38.75	n/a	2/17/2026	71.2	Yes	62	MW-4,MW-5	19.39	9.68	6.452
Chemical Oxygen Demand (mg/L)	MW-9	38.75	n/a	2/17/2026	60.75	Yes	62	MW-4,MW-5	19.39	9.68	6.452
Chemical Oxygen Demand (mg/L)	MW-13	38.75	n/a	2/17/2026	277	Yes	62	MW-4,MW-5	19.39	9.68	6.452
Chemical Oxygen Demand (mg/L)	MW-14R	38.75	n/a	2/17/2026	25.9	No	62	MW-4,MW-5	19.39	9.68	6.452
Chemical Oxygen Demand (mg/L)	MW-15R	38.75	n/a	2/17/2026	24.3J	No	62	MW-4,MW-5	19.39	9.68	6.452
Chloride (mg/L)	EPA-2A	366.5	n/a	2/17/2026	18.7	No	62	MW-4,MW-5	206.9	79.8	0
Chloride (mg/L)	MW-1	366.5	n/a	2/17/2026	40.9	No	62	MW-4,MW-5	206.9	79.8	0
Chloride (mg/L)	MW-2	366.5	n/a	2/17/2026	24.8	No	62	MW-4,MW-5	206.9	79.8	0
Chloride (mg/L)	MW-3	366.5	n/a	2/17/2026	30.3	No	62	MW-4,MW-5	206.9	79.8	0
Chloride (mg/L)	MW-8	366.5	n/a	2/17/2026	35.6	No	62	MW-4,MW-5	206.9	79.8	0
Chloride (mg/L)	MW-9	366.5	n/a	2/17/2026	38.15	No	62	MW-4,MW-5	206.9	79.8	0
Chloride (mg/L)	EPA-1AR	366.5	n/a	2/17/2026	11.5	No	62	MW-4,MW-5	206.9	79.8	0
Chloride (mg/L)	MW-10	366.5	n/a	2/17/2026	20.8	No	62	MW-4,MW-5	206.9	79.8	0
Chloride (mg/L)	MW-11	366.5	n/a	2/17/2026	18.1	No	62	MW-4,MW-5	206.9	79.8	0
Chloride (mg/L)	MW-12	366.5	n/a	2/17/2026	46.2	No	62	MW-4,MW-5	206.9	79.8	0
Chloride (mg/L)	MW-13	366.5	n/a	2/17/2026	159	No	62	MW-4,MW-5	206.9	79.8	0
Chloride (mg/L)	MW-14R	366.5	n/a	2/17/2026	19.8	No	62	MW-4,MW-5	206.9	79.8	0
Chloride (mg/L)	MW-15R	366.5	n/a	2/17/2026	31.1	No	62	MW-4,MW-5	206.9	79.8	0
Iron (mg/L)	EPA-2A	19.6	n/a	2/17/2026	0.0585J	No	18	MW-4,MW-5	6.171	6.716	16.67
Iron (mg/L)	MW-1	19.6	n/a	2/17/2026	11.7	No	18	MW-4,MW-5	6.171	6.716	16.67
Iron (mg/L)	MW-2	19.6	n/a	2/17/2026	0.844	No	18	MW-4,MW-5	6.171	6.716	16.67
Iron (mg/L)	MW-3	19.6	n/a	2/17/2026	27.3	Yes	18	MW-4,MW-5	6.171	6.716	16.67
Iron (mg/L)	MW-8	19.6	n/a	2/17/2026	1.36	No	18	MW-4,MW-5	6.171	6.716	16.67
Iron (mg/L)	MW-9	19.6	n/a	2/17/2026	1.07	No	18	MW-4,MW-5	6.171	6.716	16.67
Iron (mg/L)	MW-10	19.6	n/a	2/17/2026	0.0855J	No	18	MW-4,MW-5	6.171	6.716	16.67
Iron (mg/L)	MW-13	19.6	n/a	2/17/2026	0.422	No	18	MW-4,MW-5	6.171	6.716	16.67
Iron (mg/L)	MW-14R	19.6	n/a	2/17/2026	1.25	No	18	MW-4,MW-5	6.171	6.716	16.67
Iron (mg/L)	MW-15R	19.6	n/a	2/17/2026	1.02	No	18	MW-4,MW-5	6.171	6.716	16.67
Lead (mg/L)	MW-12	0.007706	n/a	2/17/2026	0.00193	No	30	MW-4,MW-5	0.001902	0.002902	50
Lead (mg/L)	MW-14R	0.007706	n/a	2/17/2026	0.00333	No	30	MW-4,MW-5	0.001902	0.002902	50
Nickel (mg/L)	MW-14R	0.02574	n/a	2/17/2026	0.142	Yes	30	MW-4,MW-5	0.00835	0.008693	13.33
Nickel (mg/L)	MW-15R	0.02574	n/a	2/17/2026	0.00305J	No	30	MW-4,MW-5	0.00835	0.008693	13.33
pH (S.U.)	EPA-2A	8.184	6.543	2/17/2026	7.52	No	58	MW-4,MW-5	7.364	0.4103	0
pH (S.U.)	MW-1	8.184	6.543	2/17/2026	7.09	No	58	MW-4,MW-5	7.364	0.4103	0
pH (S.U.)	MW-2	8.184	6.543	2/17/2026	8.89	Yes	58	MW-4,MW-5	7.364	0.4103	0

Control Limit

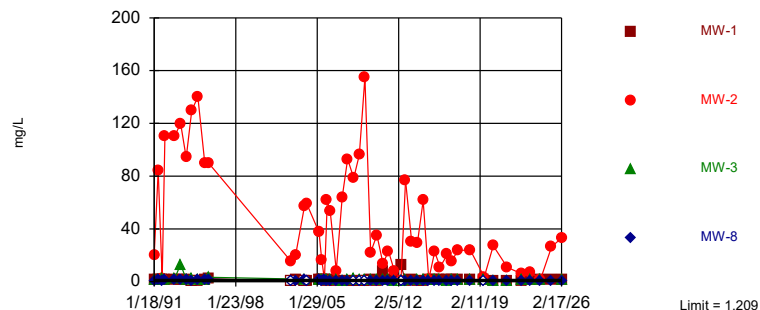
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master Printed 5/4/2026, 1:24 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Wells</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>
pH (S.U.)	MW-3	8.184	6.543	2/17/2026	7.07	No	58	MW-4,MW-5	7.364	0.4103	0
pH (S.U.)	MW-8	8.184	6.543	2/17/2026	7.76	No	58	MW-4,MW-5	7.364	0.4103	0
pH (S.U.)	MW-9	8.184	6.543	2/17/2026	7.06	No	58	MW-4,MW-5	7.364	0.4103	0
pH (S.U.)	EPA-1AR	8.184	6.543	2/17/2026	7.23	No	58	MW-4,MW-5	7.364	0.4103	0
pH (S.U.)	MW-10	8.184	6.543	2/17/2026	9.3	Yes	58	MW-4,MW-5	7.364	0.4103	0
pH (S.U.)	MW-11	8.184	6.543	2/17/2026	7.12	No	58	MW-4,MW-5	7.364	0.4103	0
pH (S.U.)	MW-12	8.184	6.543	2/17/2026	6.69	No	58	MW-4,MW-5	7.364	0.4103	0
pH (S.U.)	MW-13	8.184	6.543	2/17/2026	7.21	No	58	MW-4,MW-5	7.364	0.4103	0
pH (S.U.)	MW-14R	8.184	6.543	2/17/2026	7.19	No	58	MW-4,MW-5	7.364	0.4103	0
pH (S.U.)	MW-15R	8.184	6.543	2/17/2026	7.15	No	58	MW-4,MW-5	7.364	0.4103	0
Specific Conductance (uS/cm)	EPA-2A	2413	n/a	2/17/2026	524.7	No	60	MW-4,MW-5	1633	389.7	0
Specific Conductance (uS/cm)	MW-1	2413	n/a	2/17/2026	1380	No	60	MW-4,MW-5	1633	389.7	0
Specific Conductance (uS/cm)	MW-2	2413	n/a	2/17/2026	1539	No	60	MW-4,MW-5	1633	389.7	0
Specific Conductance (uS/cm)	MW-3	2413	n/a	2/17/2026	1133	No	60	MW-4,MW-5	1633	389.7	0
Specific Conductance (uS/cm)	MW-8	2413	n/a	2/17/2026	1125	No	60	MW-4,MW-5	1633	389.7	0
Specific Conductance (uS/cm)	MW-9	2413	n/a	2/17/2026	1258	No	60	MW-4,MW-5	1633	389.7	0
Specific Conductance (uS/cm)	EPA-1AR	2413	n/a	2/17/2026	605.3	No	60	MW-4,MW-5	1633	389.7	0
Specific Conductance (uS/cm)	MW-10	2413	n/a	2/17/2026	376	No	60	MW-4,MW-5	1633	389.7	0
Specific Conductance (uS/cm)	MW-11	2413	n/a	2/17/2026	716.9	No	60	MW-4,MW-5	1633	389.7	0
Specific Conductance (uS/cm)	MW-12	2413	n/a	2/17/2026	643.1	No	60	MW-4,MW-5	1633	389.7	0
Specific Conductance (uS/cm)	MW-13	2413	n/a	2/17/2026	1120	No	60	MW-4,MW-5	1633	389.7	0
Specific Conductance (uS/cm)	MW-14R	2413	n/a	2/17/2026	744.6	No	60	MW-4,MW-5	1633	389.7	0
Specific Conductance (uS/cm)	MW-15R	2413	n/a	2/17/2026	596	No	60	MW-4,MW-5	1633	389.7	0
Total Extractable Hydrocarbons (ug/L)	MW-2	492.4	n/a	2/17/2026	1760	Yes	36	MW-4,MW-5	235.4	128.5	69.44
Total Extractable Hydrocarbons (ug/L)	MW-3	492.4	n/a	2/17/2026	472J	No	36	MW-4,MW-5	235.4	128.5	69.44
Total Extractable Hydrocarbons (ug/L)	MW-8	492.4	n/a	2/17/2026	493	Yes	36	MW-4,MW-5	235.4	128.5	69.44
Total Extractable Hydrocarbons (ug/L)	MW-9	492.4	n/a	2/17/2026	1430	Yes	36	MW-4,MW-5	235.4	128.5	69.44
Total Extractable Hydrocarbons (ug/L)	MW-10	492.4	n/a	2/17/2026	306J	No	36	MW-4,MW-5	235.4	128.5	69.44
Total Extractable Hydrocarbons (ug/L)	MW-14R	492.4	n/a	2/17/2026	409J	No	36	MW-4,MW-5	235.4	128.5	69.44
Zinc (mg/L)	MW-14R	0.02981	n/a	2/17/2026	2.18	Yes	30	MW-4,MW-5	0.01309	0.008361	73.33

Exceeds Limit: MW-1, MW-2

Prediction Limit

Interwell Parametric



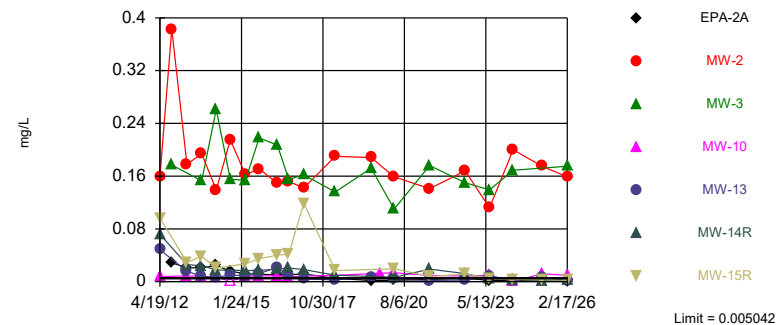
Background Data Summary: Mean=0.3567, Std. Dev.=0.4262, n=62, 50% NDs. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Ammonia as N Analysis Run 5/4/2026 1:12 PM View: 2026AWQR-Control_Limit
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Exceeds Limit: MW-2, MW-3, MW-10

Prediction Limit

Interwell Parametric



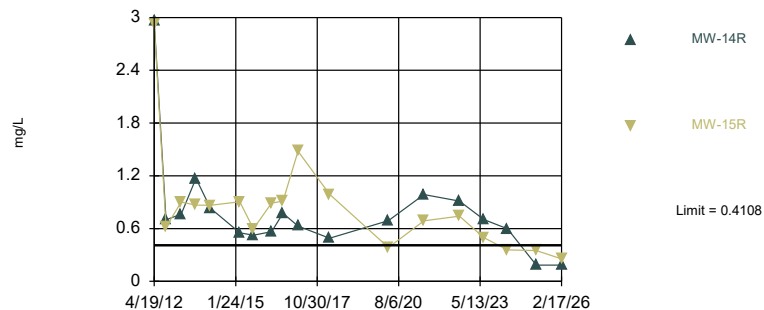
Background Data Summary: Mean=0.001938, Std. Dev.=0.001552, n=30, 6.667% NDs. Normality test was disabled. Comparing 7 points to limit. Assumes 6 future values. Kappa overridden to 2.

Constituent: Arsenic Analysis Run 5/4/2026 1:12 PM View: 2026AWQR-Control_Limit
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Within Limit

Prediction Limit

Interwell Parametric



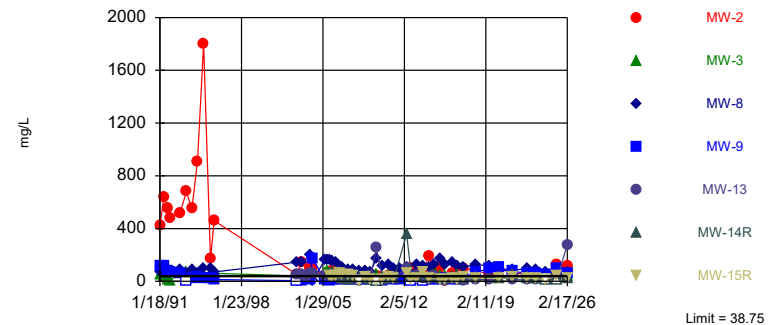
Background Data Summary: Mean=0.1988, Std. Dev.=0.106, n=30. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Barium Analysis Run 5/4/2026 1:12 PM View: 2026AWQR-Control_Limit
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Exceeds Limit: MW-2, MW-3, MW-8, MW-9, MW-13

Prediction Limit

Interwell Parametric



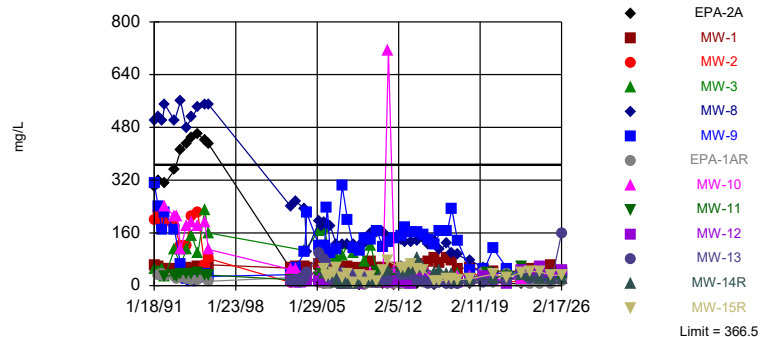
Background Data Summary: Mean=19.39, Std. Dev.=9.68, n=62, 6.452% NDs. Normality test was disabled. Comparing 7 points to limit. Assumes 6 future values. Kappa overridden to 2.

Constituent: Chemical Oxygen Demand Analysis Run 5/4/2026 1:12 PM View: 2026AWQR-Control_Limit
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Within Limit

Prediction Limit

Interwell Parametric



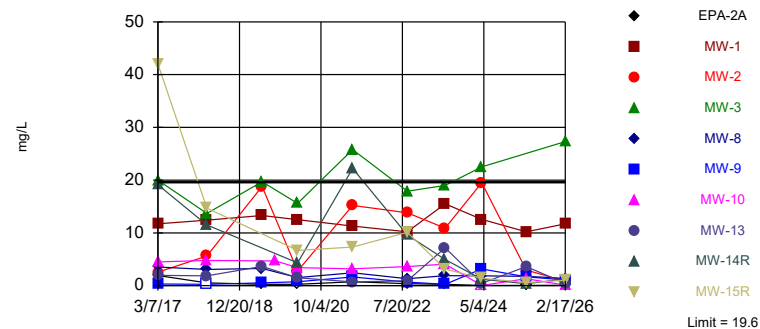
Background Data Summary: Mean=206.9, Std. Dev.=79.8, n=62. Normality test was disabled. Comparing 13 points to limit. Kappa overridden to 2.

Constituent: Chloride Analysis Run 5/4/2026 1:12 PM View: 2026AWQR-Control_Limit
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Exceeds Limit: MW-3

Prediction Limit

Interwell Parametric



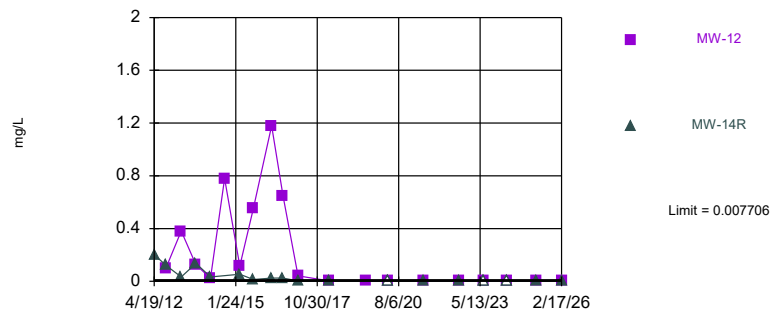
Background Data Summary: Mean=6.171, Std. Dev.=6.716, n=18, 16.67% NDs. Normality test was disabled. Comparing 10 points to limit. Assumes 3 future values. Kappa overridden to 2.

Constituent: Iron Analysis Run 5/4/2026 1:12 PM View: 2026AWQR-Control_Limit
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Within Limit

Prediction Limit

Interwell Parametric



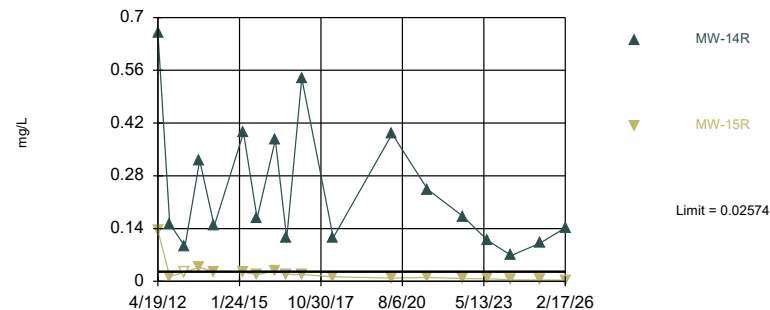
Background Data Summary: Mean=0.001902, Std. Dev.=0.002902, n=30, 50% NDs. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Lead Analysis Run 5/4/2026 1:12 PM View: 2026AWQR-Control_Limit
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Exceeds Limit: MW-14R

Prediction Limit

Interwell Parametric



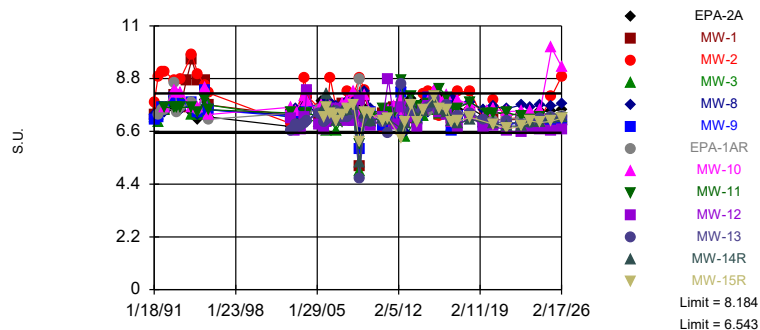
Background Data Summary: Mean=0.00835, Std. Dev.=0.008693, n=30, 13.33% NDs. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Nickel Analysis Run 5/4/2026 1:12 PM View: 2026AWQR-Control_Limit
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Exceeds Limits: MW-2, MW-10

Prediction Limit

Interwell Parametric



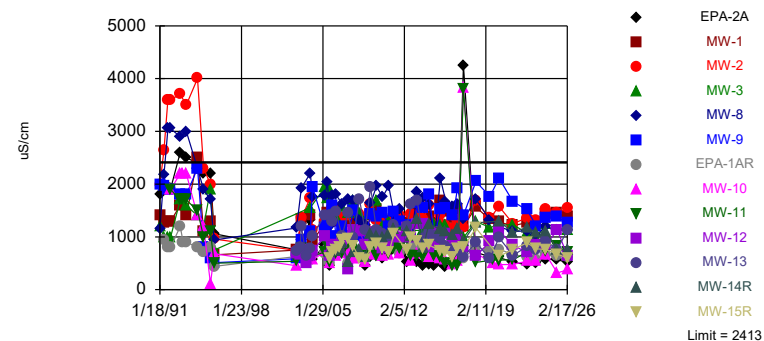
Background Data Summary: Mean=7.364, Std. Dev.=0.4103, n=58. Normality test was disabled. Comparing 13 points to limit. Kappa overridden to 2.

Constituent: pH Analysis Run 5/4/2026 1:12 PM View: 2026AWQR-Control_Limit
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Within Limit

Prediction Limit

Interwell Parametric



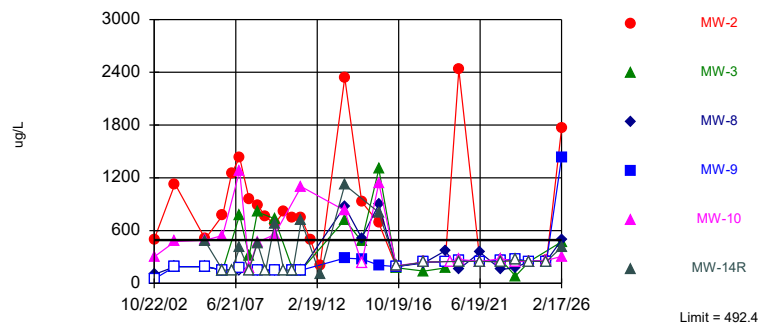
Background Data Summary: Mean=1633, Std. Dev.=389.7, n=60. Normality test was disabled. Comparing 13 points to limit. Kappa overridden to 2.

Constituent: Specific Conductance Analysis Run 5/4/2026 1:12 PM View: 2026AWQR-Control_Limit
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Exceeds Limit: MW-2, MW-8, MW-9

Prediction Limit

Interwell Parametric



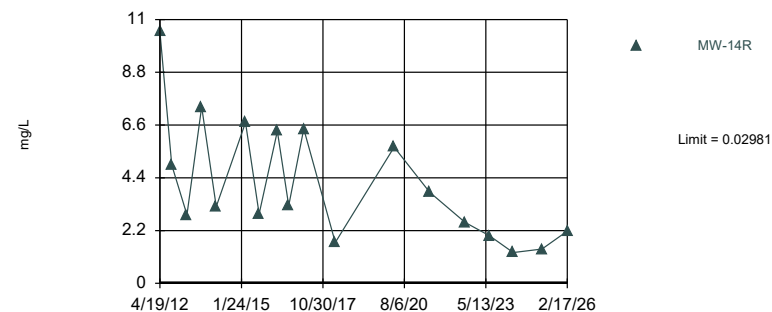
Background Data Summary: Mean=235.4, Std. Dev.=128.5, n=36, 69.44% NDs (user selected parametric test despite non-detects). Normality test was disabled. Comparing 6 points to limit. Assumes 7 future values. Kappa overridden to 2.

Constituent: Total Extractable Hydrocarbons Analysis Run 5/4/2026 1:12 PM View: 2026AWQR-Control_L
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Exceeds Limit: MW-14R

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=0.01309, Std. Dev.=0.008361, n=30, 73.33% NDs (user selected parametric test despite non-detects). Normality test was disabled. Assumes 12 future values. Kappa overridden to 2.

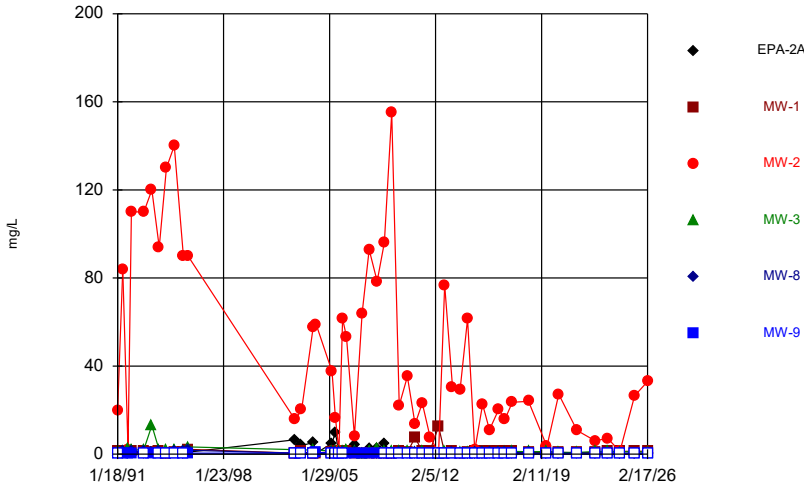
Constituent: Zinc Analysis Run 5/4/2026 1:12 PM View: 2026AWQR-Control_Limit
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master



Attachment C

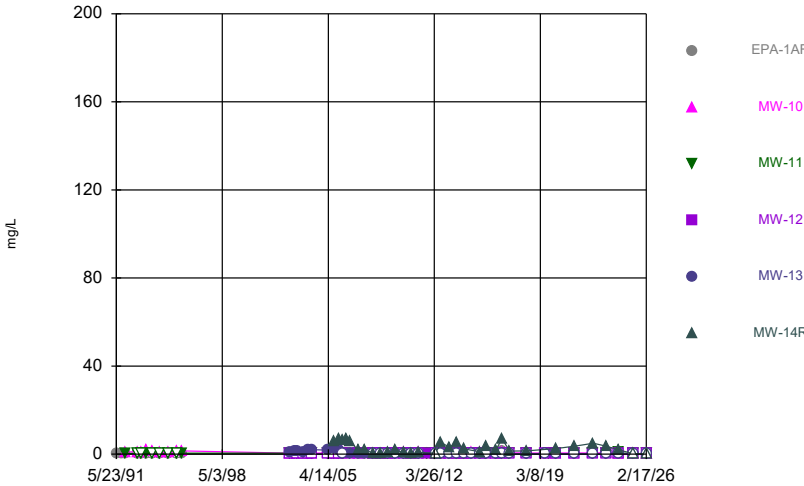
Time Series Graphs

Time Series



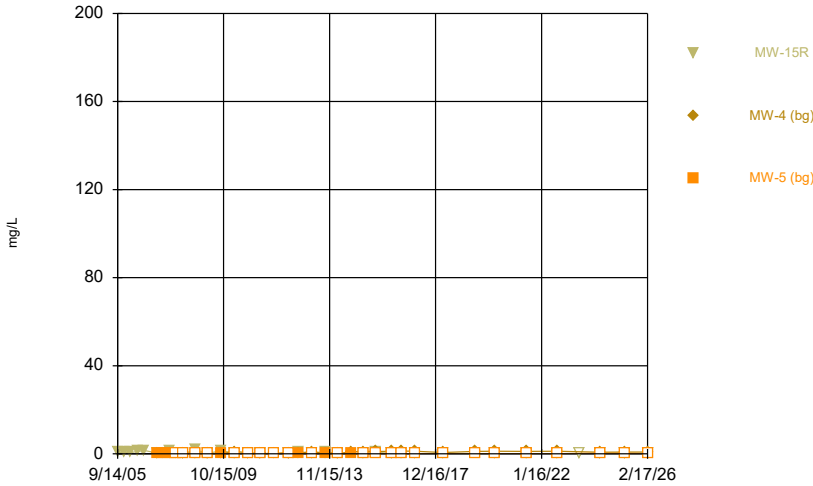
Constituent: Ammonia as N Analysis Run 5/4/2026 12:56 PM View: 2026AWQR-Time_Series
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Time Series



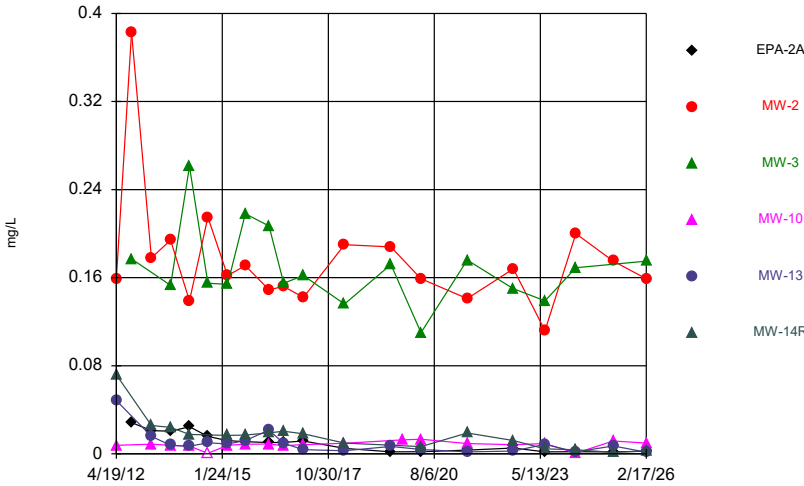
Constituent: Ammonia as N Analysis Run 5/4/2026 12:56 PM View: 2026AWQR-Time_Series
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Time Series



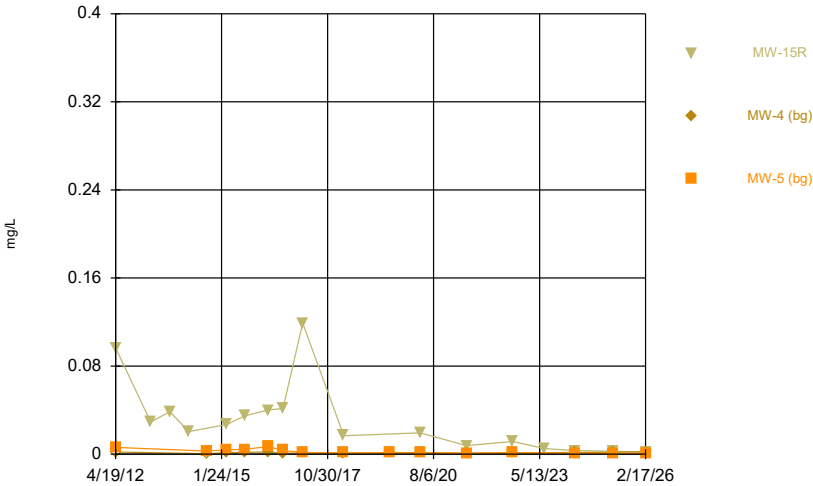
Constituent: Ammonia as N Analysis Run 5/4/2026 12:56 PM View: 2026AWQR-Time_Series
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Time Series

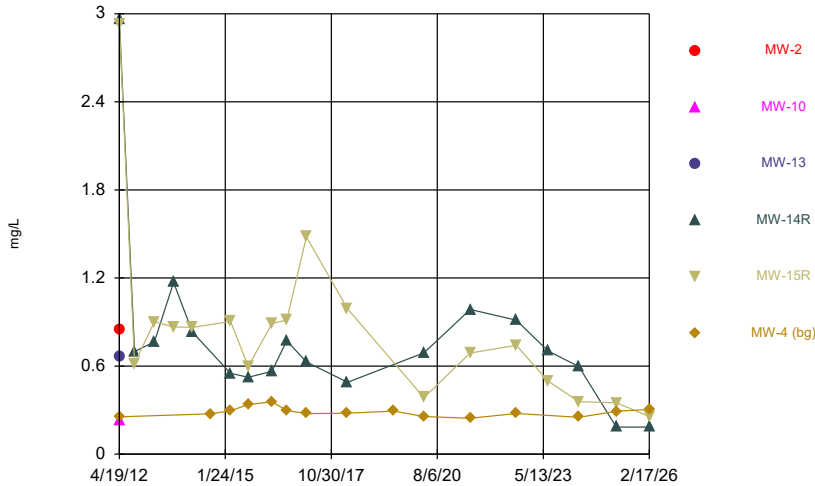


Constituent: Arsenic Analysis Run 5/4/2026 12:56 PM View: 2026AWQR-Time_Series
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

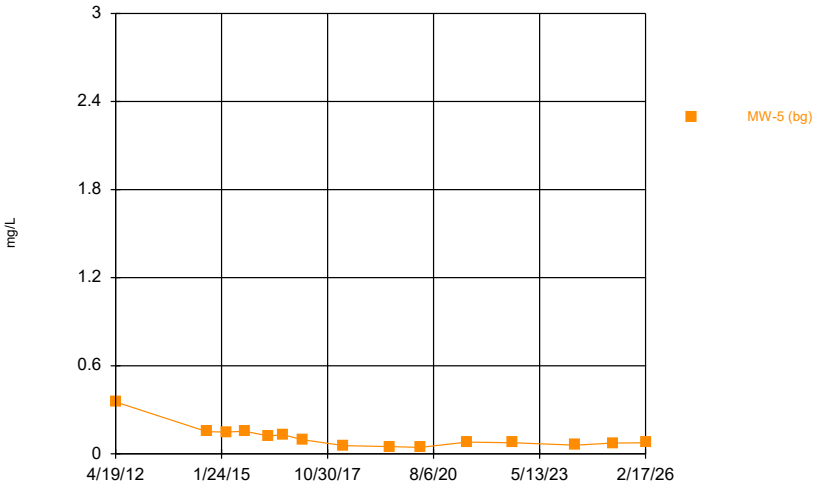
Time Series



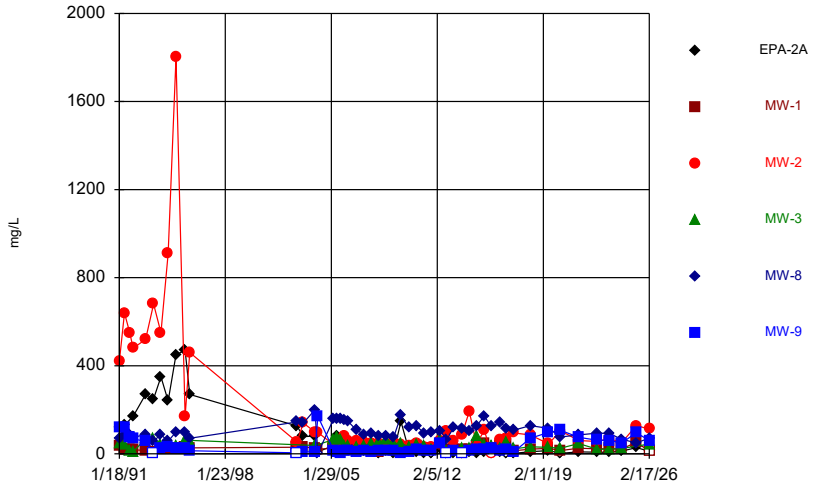
Time Series



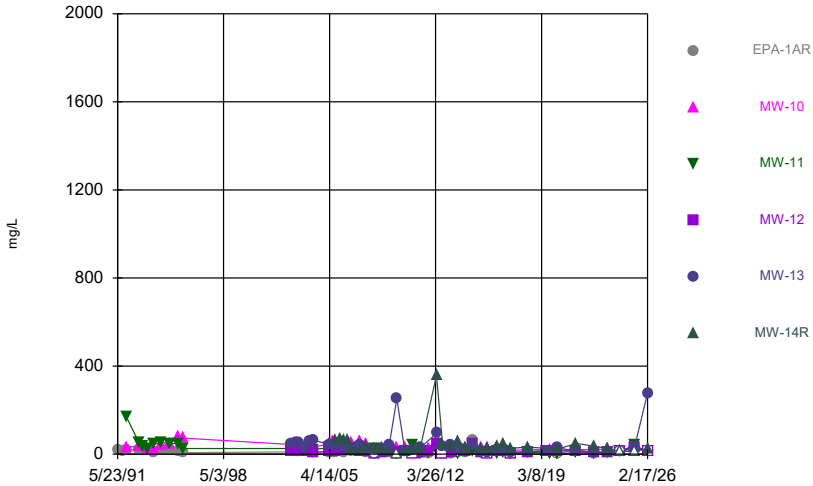
Time Series



Time Series

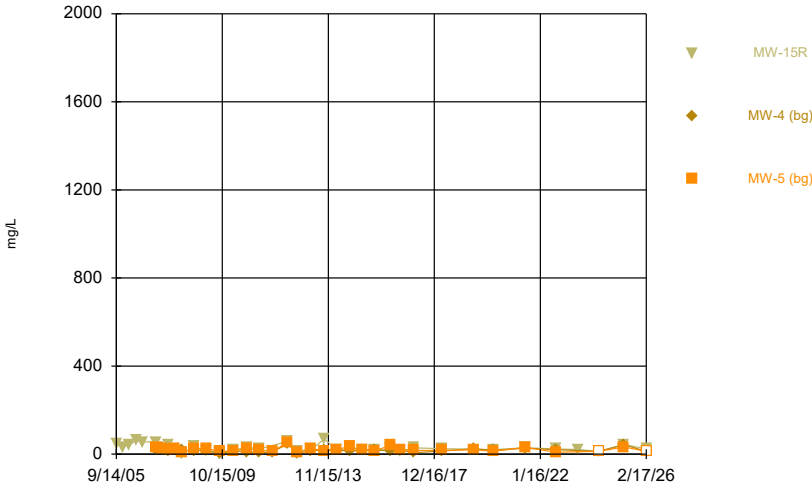


Time Series



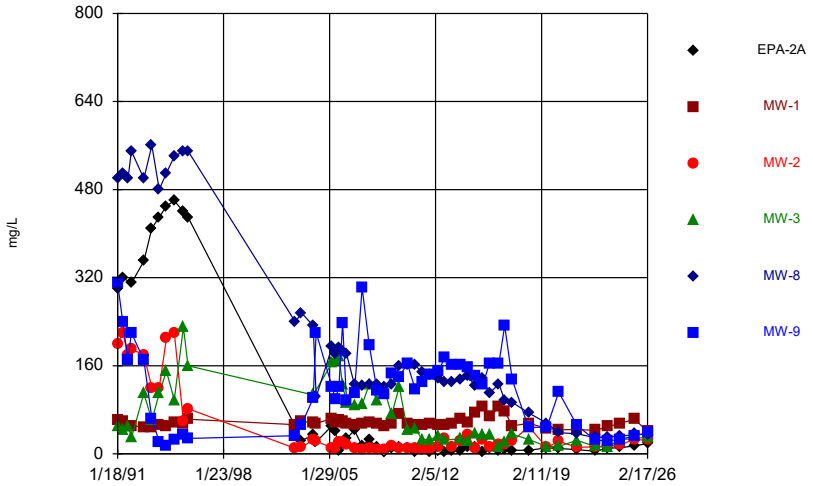
Constituent: Chemical Oxygen Demand Analysis Run 5/4/2026 12:56 PM View: 2026AWQR-Time_Series
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Time Series



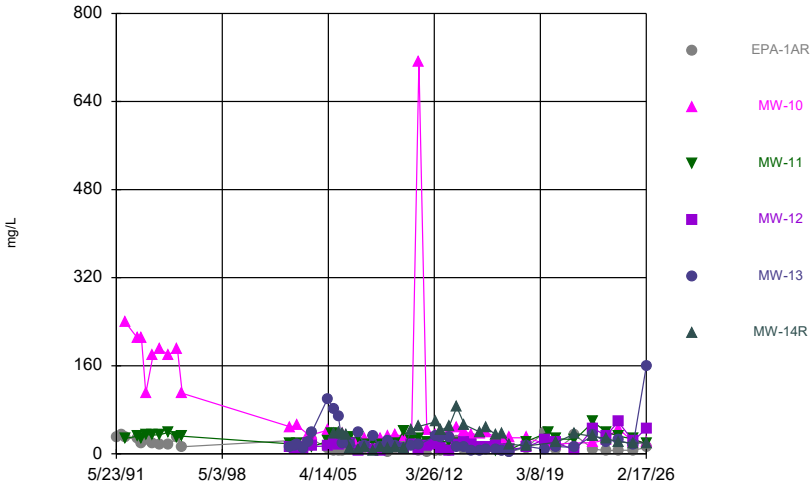
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City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Time Series



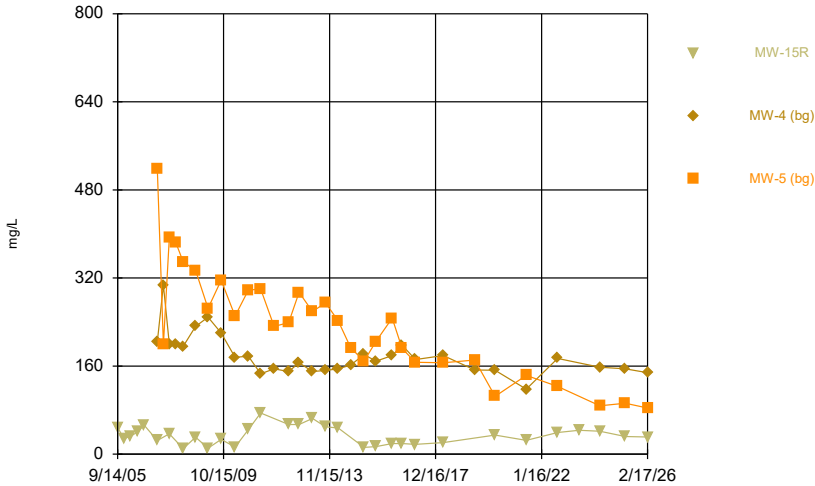
Constituent: Chloride Analysis Run 5/4/2026 12:56 PM View: 2026AWQR-Time_Series
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Time Series



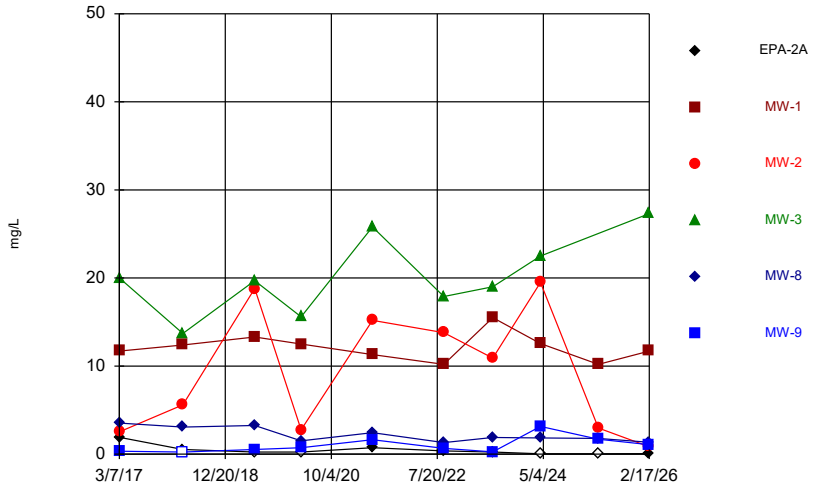
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City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Time Series



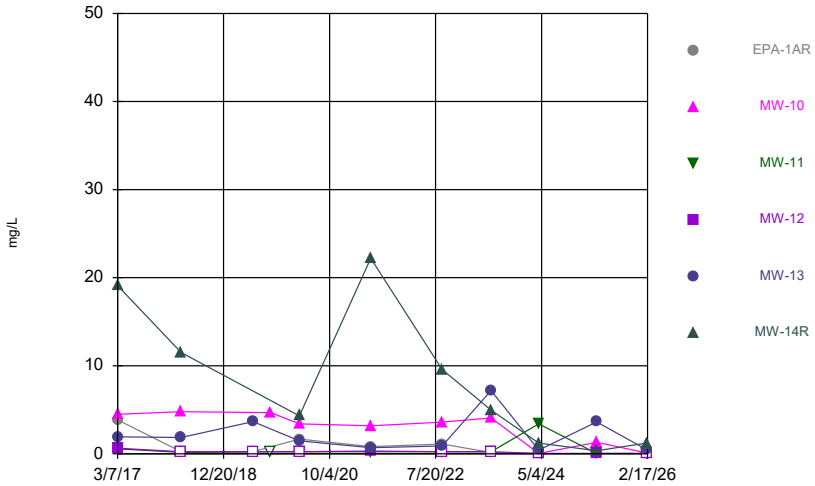
Constituent: Chloride Analysis Run 5/4/2026 12:56 PM View: 2026AWQR-Time_Series
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Time Series



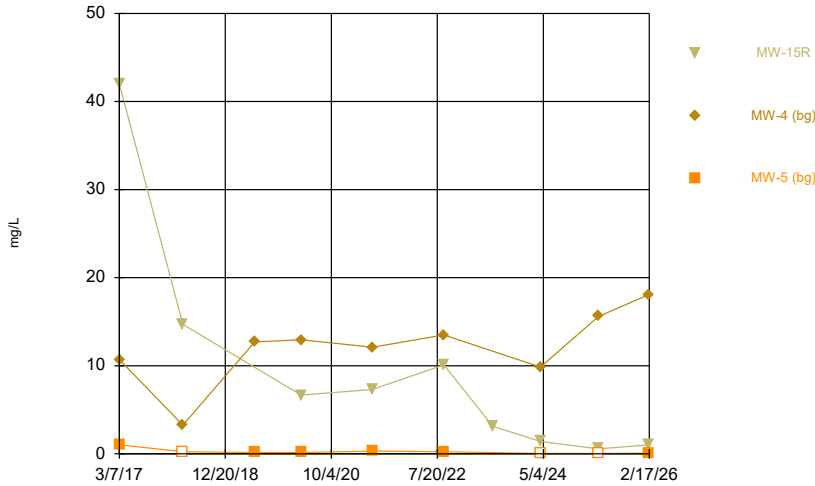
Constituent: Iron Analysis Run 5/4/2026 12:57 PM View: 2026AWQR-Time_Series
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Time Series



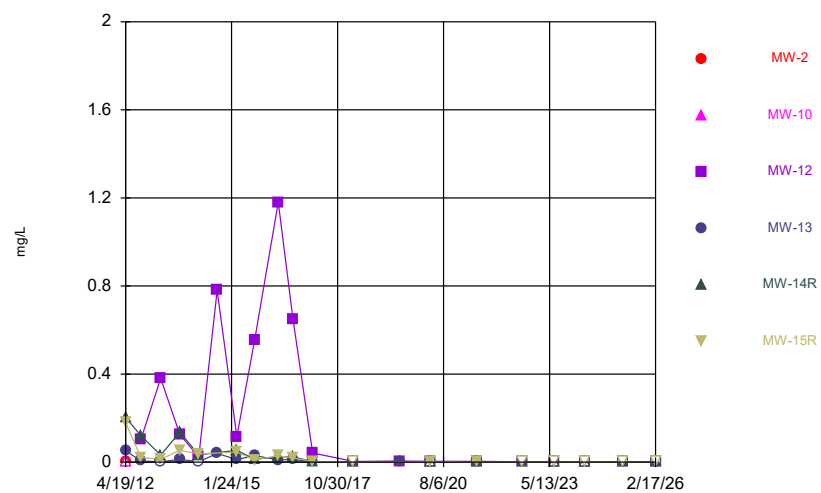
Constituent: Iron Analysis Run 5/4/2026 12:57 PM View: 2026AWQR-Time_Series
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Time Series



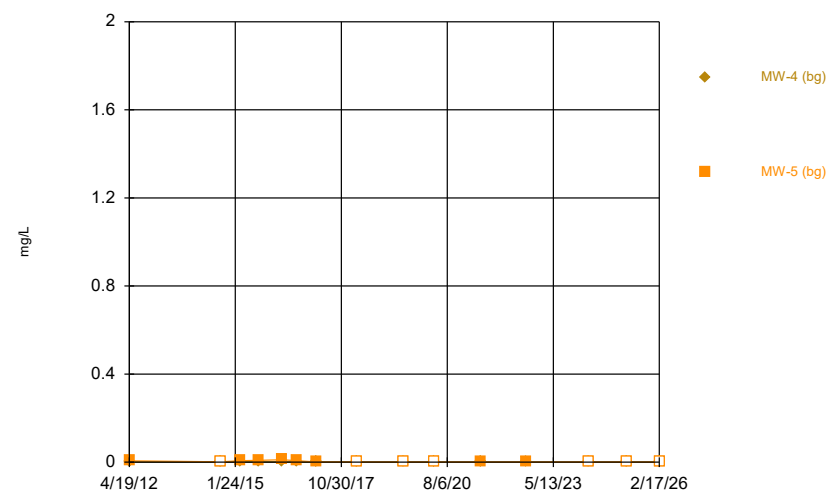
Constituent: Iron Analysis Run 5/4/2026 12:57 PM View: 2026AWQR-Time_Series
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Time Series



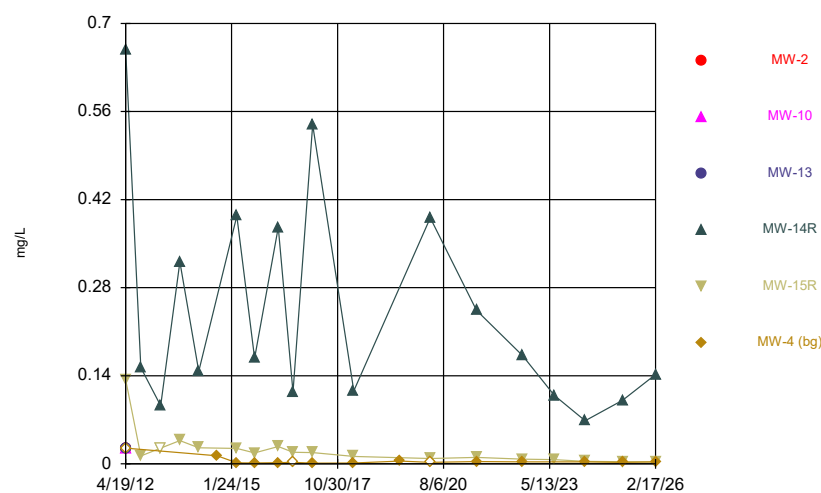
Constituent: Lead Analysis Run 5/4/2026 12:57 PM View: 2026AWQR-Time_Series
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Time Series



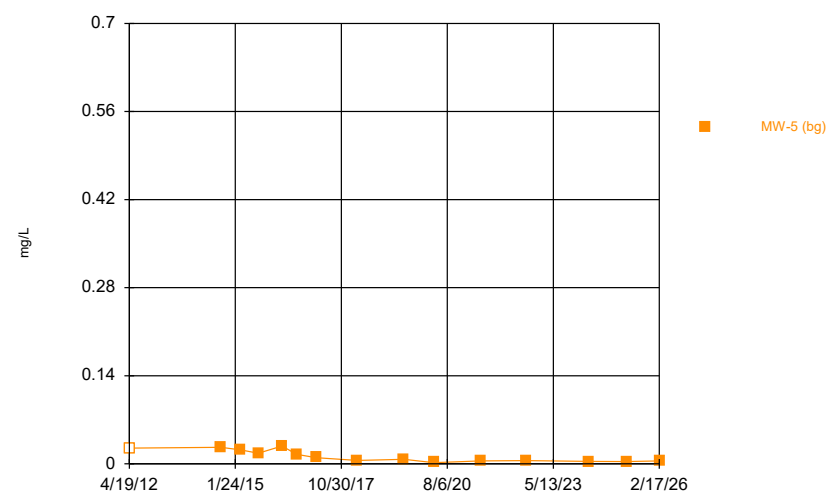
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City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Time Series



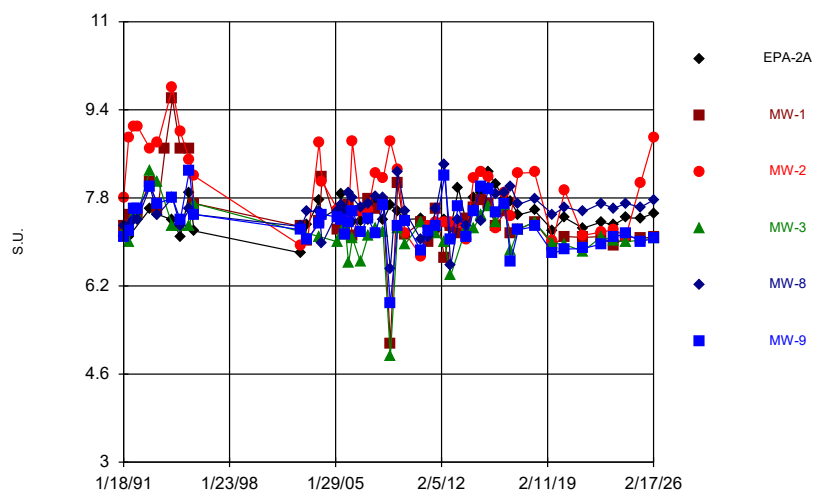
Constituent: Nickel Analysis Run 5/4/2026 12:57 PM View: 2026AWQR-Time_Series
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Time Series



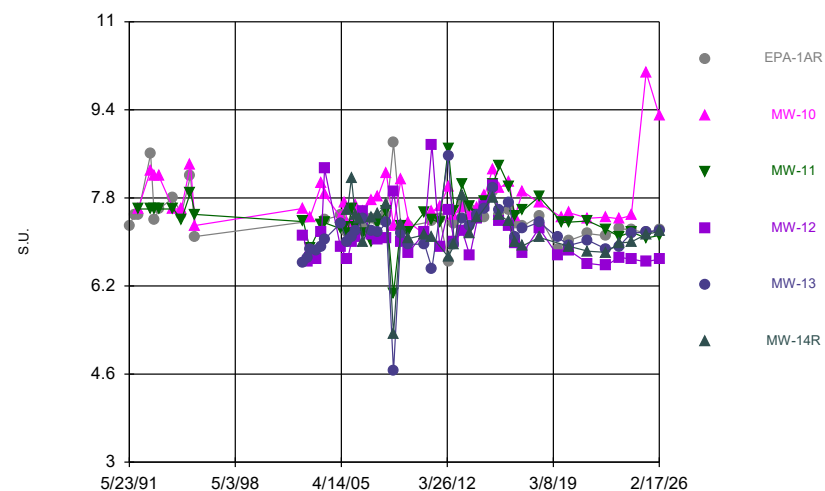
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City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Time Series



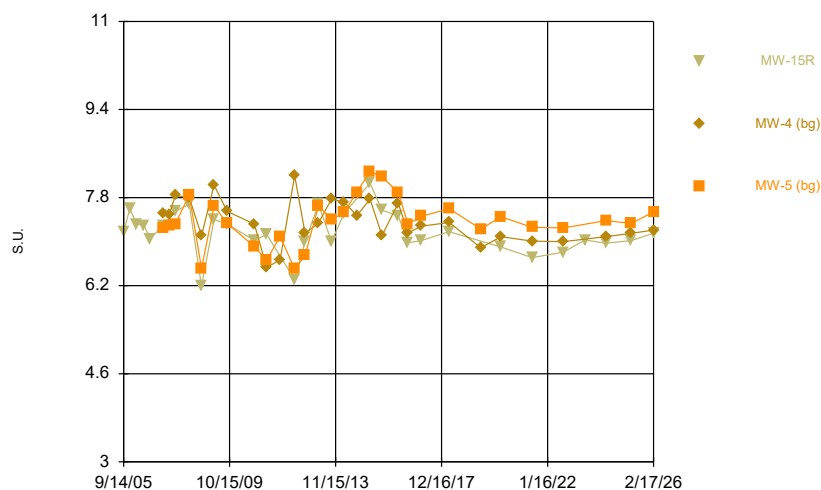
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City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Time Series



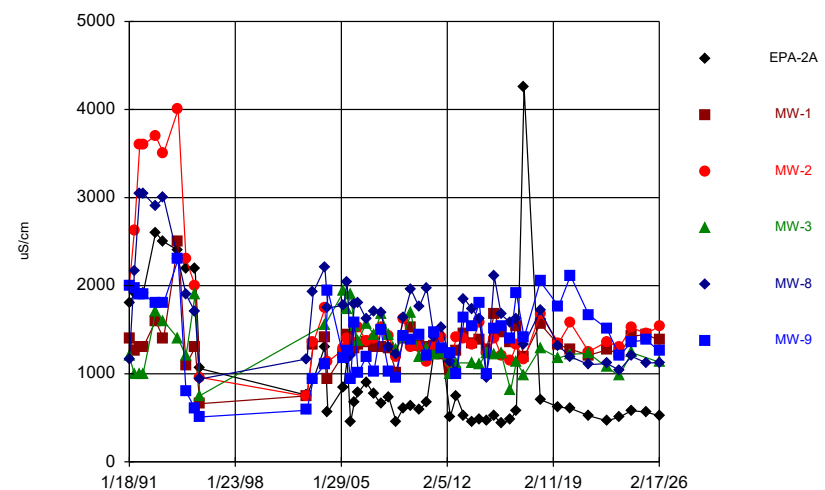
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City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Time Series



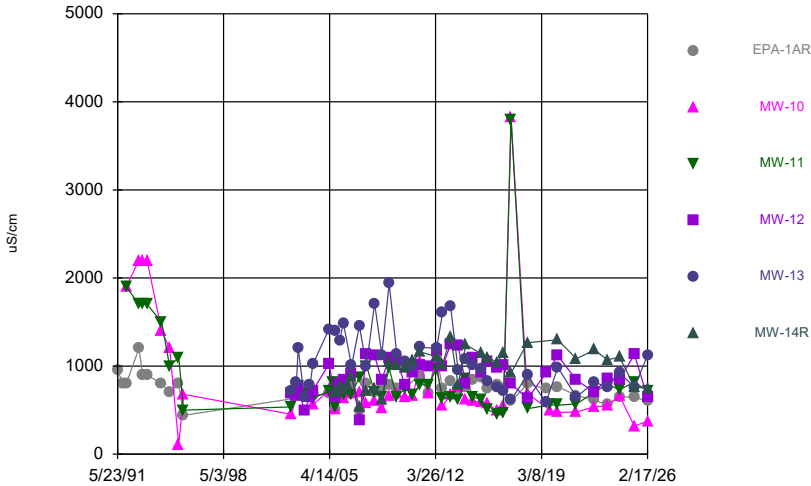
Constituent: pH Analysis Run 5/4/2026 12:57 PM View: 2026AWQR-Time_Series
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Time Series

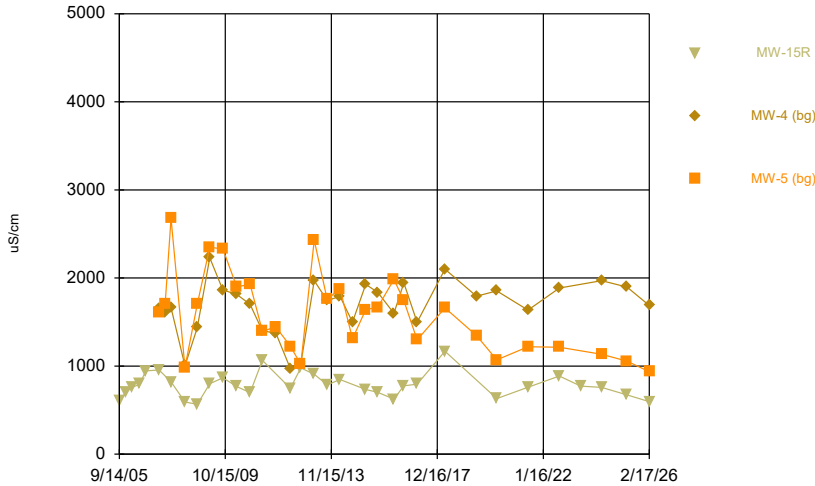


Constituent: Specific Conductance Analysis Run 5/4/2026 12:57 PM View: 2026AWQR-Time_Series
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

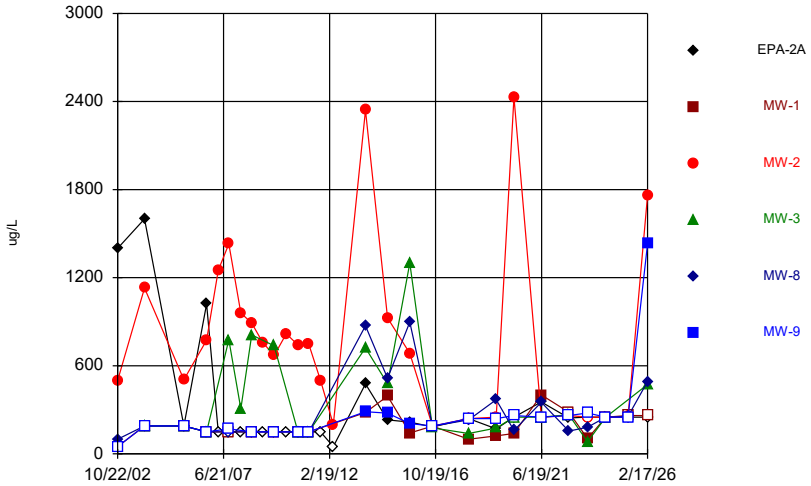
Time Series



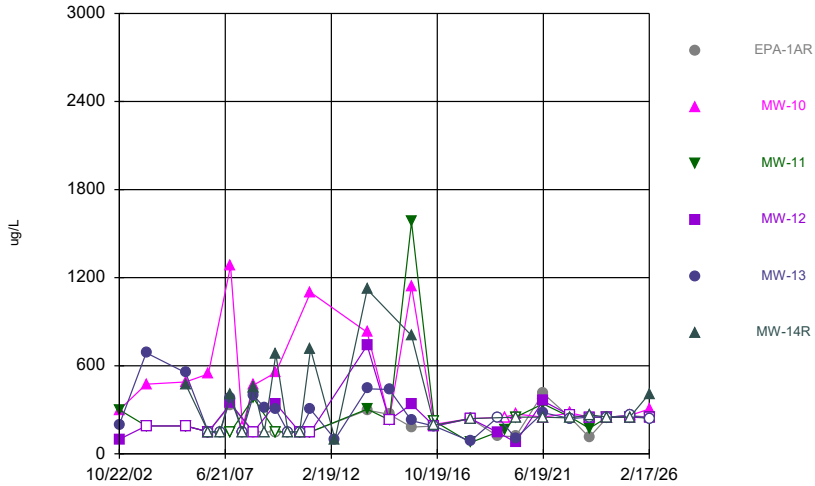
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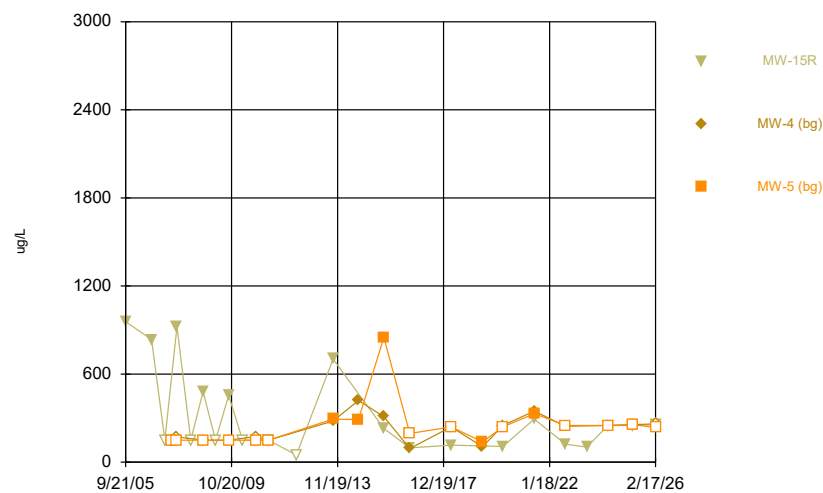
Time Series



Time Series

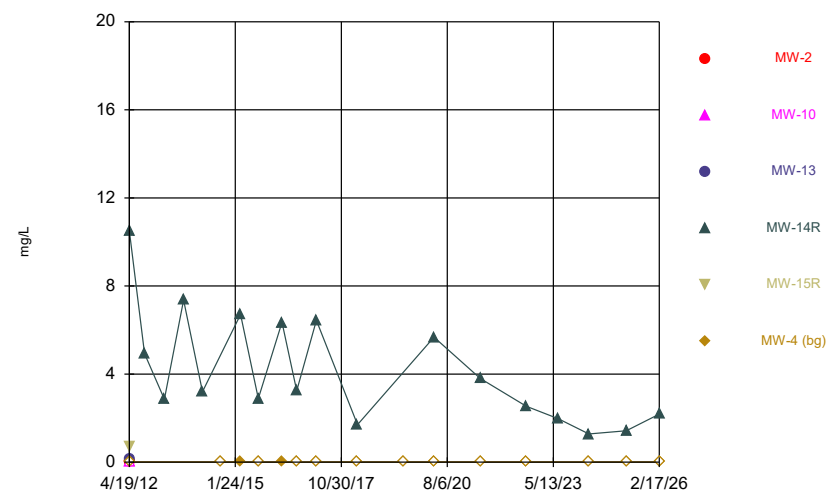


Time Series



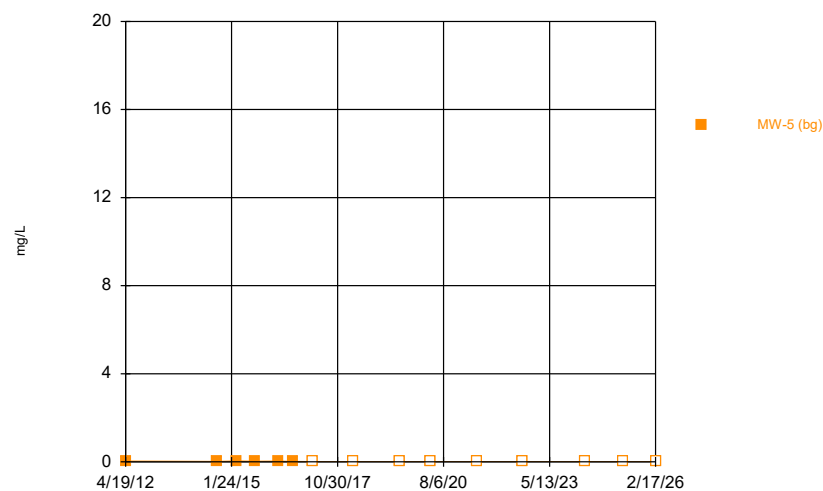
Constituent: Total Extractable Hydrocarbons Analysis Run 5/4/2026 12:57 PM View: 2026AWQR-Time_S
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Time Series



Constituent: Zinc Analysis Run 5/4/2026 12:57 PM View: 2026AWQR-Time_Series
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master

Time Series



Constituent: Zinc Analysis Run 5/4/2026 12:57 PM View: 2026AWQR-Time_Series
City of Council Bluffs - Alter Landfill Client: SCS Engineers Data: CTYCB Sanitas Master



Appendix E

Mann-Kendall Trend Table

Table 10
Groundwater Quality Assessment Plan Trend Analysis
2026 Annual Water Quality Report
Alter Trading Corporation Monofill
Permit No. 78-SDP-19-98C

Monitoring Well	Constituent Name	Calculated Statistic		
		Decreasing Trend	Stable Trend	Increasing Trend
EPA-1AR	Chemical Oxygen Demand		7	
	Chloride		-8	
	Iron	-19		
	pH			18
	Specific Conductance	-16		
EPA-2A	Ammonia as N		-8	
	Arsenic		2	
	Chemical Oxygen Demand		7	
	Chloride			14
	Iron		-12	
	pH			15
	Specific Conductance		-8	
MW-1	Ammonia as N			20
	Chemical Oxygen Demand		-5	
	Chloride		4	
	Iron		-7	
	pH		1	
	Specific Conductance		8	
MW-2	Ammonia as N		6	
	Arsenic		-1	
	Chemical Oxygen Demand		10	
	Chloride			18
	Iron		-10	
	pH			14
	Specific Conductance		8	
	Total Extractable Hydrocarbons		4	
MW-3	Ammonia as N		0	
	Arsenic		8	
	Chemical Oxygen Demand		-4	
	Chloride		5	
	Iron			16
	pH		0	
	Specific Conductance		-8	
MW-8	Ammonia as N		8	
	Chemical Oxygen Demand	-14		
	Chloride		-10	
	Iron		-12	
	pH			16
	Specific Conductance		-4	
	Total Extractable Hydrocarbons		6	
MW-9	Chemical Oxygen Demand	-16		
	Chloride		-6	
	Iron		8	
	pH			20
	Specific Conductance	-18		
	Total Extractable Hydrocarbons		10	

Table 10
Groundwater Quality Assessment Plan Trend Analysis
2026 Annual Water Quality Report
Alter Trading Corporation Monofill
Permit No. 78-SDP-19-98C

Monitoring Well	Constituent Name	Calculated Statistic		
		Decreasing Trend	Stable Trend	Increasing Trend
MW-10	Ammonia as N		-7	
	Arsenic		-8	
	Chemical Oxygen Demand		3	
	Chloride			18
	Iron	-14		
	pH		10	
	Specific Conductance		0	
MW-11	Ammonia as N		7	
	Chemical Oxygen Demand			22
	Chloride		-12	
	Iron		-7	
	pH	-16		
	Specific Conductance			18
MW-12	Chemical Oxygen Demand		-3	
	Chloride		8	
	Lead	-18		
	pH		-7	
	Specific Conductance		-6	
MW-13	Arsenic		-6	
	Chemical Oxygen Demand		4	
	Chloride			16
	Iron		-10	
	Lead		-6	
	pH		12	
	Specific Conductance		12	
MW-14R	Ammonia as N		-10	
	Arsenic	-18		
	Barium		-11	
	Chemical Oxygen Demand		-10	
	Chloride		-4	
	Iron	-16		
	Lead		5	
	Nickel		-12	
	pH		12	
	Specific Conductance	-20		
	Zinc		-10	
MW-15R	Arsenic	-24		
	Barium	-20		
	Chemical Oxygen Demand		0	
	Chloride		6	
	Iron	-20		
	Lead		-9	
	Nickel	-26		
	pH		6	
	Specific Conductance	-14		

Notes:

Trending was evaluated using Mann-Kendall analysis at 80% confidence ($\alpha = 0.2$) for the entire historical dataset.



Appendix F

Landfill Gas Annual Report

Table F1
Landfill Gas Monitoring Summary
2026 Landfill Gas Monitoring Report
Alter Trading Corporation Monofill
Permit No. 78-SDP-19-98C

Monitoring Points				Methane (% LEL)	
Point #	Name	Type	Description	2/18/2026	S (Y/N)
1	NE Corner	Ambient	NE corner of site	0	
2	SE Corner	Ambient	SE corner of site	0	
3	SW Corner	Ambient	SW corner of site	0	
4	NW Corner	Ambient	NW corner of site	0	
5	Central	Ambient	Center of site	0	
6	Long Storage Building	Indoor	Tan Conex Unit east of MW-14R	Removed	
7	SE Garage	Indoor	SE of parking lot	0	
8	SE Ticket Building	Indoor	SE of parking lot	0	

S(Y/N) - Was screen submerged, yes or no.

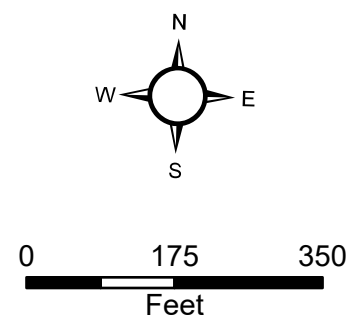
C:\Users\lbradson\OneDrive - SCS Engineers\Desktop\IOWA\Working\CTYCB\2024\AWQR\CTYCB-2024-AWQR.aprx BY:bradson 2/28/25



Point No.	Monitoring Point	Description
#1	NE Corner	Northeast corner of facility property
#2	SE Corner	Southeast corner of facility property
#3	SW Corner	Southwest corner of facility property
#4	NW Corener	Northwest corner of facility property
#5	Central	Approximate center of facility property
#7	Long Storage Building	Tan Conex Unit east of MW-14R
#8	SE Garage	SE of Parking lot
#9	SE Ticket Building	SE of Parking lot

Legend

-  Methane Monitoring Location
-  Delineated Wetland Area
-  Approximate Monitoring Well Location
-  Approximate Property Line



Methane Monitoring Network

FIGURE 1
Alter Trading Corporation Monofil
Council Bluffs, IA

27226309.00

July 2026

SCS ENGINEERS