

February 27, 2025  
File No. 27224645.00

Mr. Chad Stobbe  
Iowa Department of Natural Resources  
Land Quality Bureau  
6200 Park Avenue  
Des Moines, Iowa 50321

Subject: 2025 Annual Water Quality Report  
Faircast, Inc Foundry Sand Disposal Site  
Permit No. 51-SDP-06-19C

Dear Chad:

SCS Engineers has completed the required groundwater monitoring and statistical evaluation at the Faircast, Inc Foundry Sand Disposal Site (Monofill) for the 2025 reporting year. Our services were performed in general accordance with the closure permit requirements for implementation of the Hydrologic Monitoring System Plan (HMSP), and subsequent permit amendments. Please find enclosed a copy of the 2025 Annual Water Quality Report for the Monofill.

If you have any questions about these reports, please contact us as noted below.

Sincerely,



Semir Omerovic  
Technical Associate  
SCS Engineers  
[somerovic@scsengineers.com](mailto:somerovic@scsengineers.com)  
(515) 988-3237



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

SO/KAJ/TCB

Copies: Tim Neumann – Faircast, Inc.  
Larry Bentler – Faircast, Inc.  
Vanessa Willman – Foss, Kuiken, Cochran, Helling & Willman, P.C.



# 2025 Annual Water Quality Report

Faircast, Inc Foundry Sand Disposal Site  
Solid Waste Permit No. 51-SDP-06-19C

Prepared for:

Faircast, Inc

**SCS ENGINEERS**

27224645.00 | February 2026

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

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# CERTIFICATION

Prepared by: 

Date: 2/27/2026

Typed: Semir Omerovic

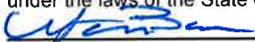
Reviewed by: 

Date: 2/27/2026

Typed: Timothy C. Buelow, P.E.

Certification page (115.26(8)"d")

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

	<p>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.</p>
	<p><u></u> Date: <u>2/27/2026</u></p>
	<p>Timothy C. Buelow, P.E.</p>
	<p>License No. 14445</p>
	<p>My license renewal date is December 31, 2027.</p>
	<p>Pages or sheets covered by this seal:</p>
	<p>All except Appendix B-1.</p>
	<p>_____</p>
	<p>_____</p>

## EXECUTIVE SUMMARY

### ES.1 PERIOD OF REPORT COVERAGE

SCS Engineers (SCS), on behalf of Faircast, Inc, has completed required groundwater sampling for the Faircast, Inc. Foundry Sand Disposal Site (Monofill). The purpose of this Annual Water Quality Report (AWQR) is to document and statistically evaluate the 2025 groundwater sampling results. This AWQR was prepared in accordance with the requirements of 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: It is requested to move antimony, beryllium, and mercury to the five-year sampling frequency parameter list specified in IX. Special Condition 6.a. of Permit No. 51-SDP-06-19C as they have not been detected in any of the monitoring well samples to date.

### ES.3 SITE STATUS AND APPLICABLE RULES

- Monofill Status: Closed, Closure Permit.
- Types of waste accepted: Foundry Sand.
- Applicable IAC rules: Not Applicable – requirements specified in Permit No. 56-SDP-06-19C.

### ES.4 COMMENTS

The following summarizes points of special emphasis:

1. There were 18 prediction limit or double quantification rule indicated exceedances during this reporting period. Evaluation for verification will occur following the statistical evaluation of the spring 2025 sample analytical data – see Note 2 at the bottom of Table 1.
2. In accordance with the revised permit (Doc #103126), a number of sampling parameters were consistently measured as non-detect concentrations in the monitoring wells; therefore the parameters were discontinued from semi-annual sampling and will instead be sampled once every five years. These parameters include:
  - Organic constituents (Analytical Method 8260) – benzene, 2-butanone (MEK), chlorobenzene, chloroform, 1,2-dichloroethane, tetrachloroethene, vinyl chloride.
  - Indicator parameters – phenols (Analytical Method 420.4) and formaldehyde (Analytical Method 8315A).

These parameters were last sampled in 2021 and are planned to be sampled again in 2026. If any of the parameters listed are detected, all parameters from that Analytical Method will be returned to the routine monitoring program.

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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  
VOC = Volatile Organic Compound

## 2.0 SITE BACKGROUND

### 2.1 SITE LOCATION

The Faircast, Inc. Foundry Sand Disposal Monofill (Monofill) is depicted in **Figure 1**, Approved Monitoring Network. The Monofill property is located northwest of the intersection of North 23<sup>rd</sup> Street and West Grimes Avenue and is located in the NW  $\frac{1}{4}$  of Section 27, Township 72 North, Range 10 West in Jefferson County, Iowa.

### 2.2 FACILITY

Background information regarding the Monofill was contained in the Hydrologic Monitoring System Plan (HMSP) dated April 3, 2020, (Doc # 97733) prepared by Terracon Consultants, Inc. According to the HSMP, the facility covers approximately 27.5 acres and had historically deposited approximately 302,000 cubic yards of spent foundry sand at the facility. The Monofill has been under a closure permit since June 30, 2020.

### 2.3 HYDROGEOLOGY OF THE SITE

Below is an excerpt of a description of the hydrogeology from the 2020 Annual Summary Assessment, Faircast Castings Monofill dated June 7, 2021, prepared by Terracon Consultants, Inc.

*The hydrogeology at the monofill site was evaluated as part of the IDNR approved Monofill Characterization Report – Revised, dated August 10, 2018 (Monofill Characterization Report). The Monofill Characterization Report included data collected from four monitoring wells formerly located around the monofill prior to regrading and eight piezometers formerly located to the south and west of the area. This investigation indicated groundwater flow is generally from the southeast to the northwest across the eastern portion of the site and from south to north across the western portion of the site. The hydraulic gradient ranged from approximately 0.03 to 0.04 (ft/ft). Groundwater elevations across the eastern portions of the site ranged from about 755 feet in the southern portions of the site to about 725 feet in the northern portions of the site.*

*The drilling and sampling performed by Terracon have been used to evaluate site stratigraphy. Typically, soils at the site consist of topsoil followed by lean clays, sandy fat clays and sandy lean clays.*

*According to the Iowa Geologic and Water Survey Bedrock Map of Iowa dated March 2010, the site is underlain by the Lower Cherokee Group. The primary lithologies associated with formations making up this group include shale/mudstone, sandstone, and siltstone. Secondary lithologies include mudstones, shales, limestones and coal.*

## **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) monitoring well network are depicted in **Figure 1**. **Figure 1** indicates the locations of each monitoring well.

### **3.2 FIGURE 2 – GROUNDWATER CONTOURS**

A groundwater contour map based on water levels measured in the water table aquifer during the September 2025 groundwater sampling event is included as **Figure 2**. **Figure 2** indicates a generally northwesterly groundwater flow direction.

## **4.0 QA/QC SUMMARY**

Date indicates the date(s) of sampling.

### **4.1 MARCH 18, 2025 (2025 SPRING 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**.

### **4.2 SEPTEMBER 10, 2025 (2025 FALL 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

Statistical evaluation in accordance with the Hydrologic Monitoring System Plan (HMSP) approved by DNR on May 13, 2020 (Doc #97733) and amended on October 25, 2021 (Doc #101504), was conducted for the groundwater analytical data collected during the 2025 sampling event. The statistical evaluation for samples collected during the 2025 sampling event is located in **Appendix D** of this report.

### 5.1 DATA EVALUATION

Groundwater monitoring for the Monofill consists of samples from one monitoring well along the south side (MW-6), one monitoring well along the southwest side (MW-7), one monitoring well along the northwest side (MW-8), one monitoring well along the north side (MW-9), and one monitoring well along the northeast side monitoring well (MW-10). The upgradient monitoring point MW-5 is located along the southeast side of the Monofill.

Exceedances of manganese action levels were measured in downgradient monitoring well MW-8 in the 2025 sample analytical results. The manganese concentration in monitoring well MW-8 was measured at 0.75 mg/L in the 2025 sample analytical results, which exceeded the action level of 0.3 mg/L; however, the concentration was lower than the level detected during the 2024 sample.

Total metals were inadvertently omitted during the November 2025 sampling event due to an internal error; however, total metals analysis will resume in 2026 AWQR.

A total of 18 prediction limit or double quantification rule exceedances were indicated based on 2025 sample results as listed in **Table 1** compared to 25 prediction limit exceedances detected based on 2024 sample results reported in the 2024 AWQR. The decrease in exceedances may be at least partly attributable to the total metals omission in the fall 2025 sampling event. Nine of the exceedances measured in the 2025 sample results were attributed to monitoring well MW-8.

### 5.2 TRENDING IN MONITORING WELLS

Statistically significant decreasing trends at a 99% confidence level ( $\alpha=0.01$ ) were identified in two 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 E of **Appendix D** of this report. The statistically significant trends were as follows:

Monitoring Point	Constituent	Trend
MW-7	Fluoride	Decreasing
MW-8	Boron	Increasing
MW-10	Sulfate	Decreasing

Although not necessarily statistically significant, the Mann-Kendall statistics can provide an indication of general trending in the data. Trend indications for wells in the monitoring program are shown in the table below. The statistics used to develop the general trending differ from the Mann-Kendall statistics used in the diagnostics section of the statistical evaluation in that a much lower trend threshold is applied for the general trending information ( $\alpha=0.20$  versus  $\alpha=0.01$ ). Trends classified as decreasing or increasing exhibited a statistically significant trend with 80% confidence using the most recent eight data points. Trends classified as stable did not exhibit a statistically

significant trend with 80% confidence using the eight most recent data points. A summary of Mann-Kendall statistics by constituent in each monitoring point is included in **Table 10** of this report.

Trending in Monitoring Wells				
Monitoring Well	Decreasing Trends	Stable Trends	Increasing Trends	Number of Constituents Analyzed
MW-5	6.67%	86.67%	6.67%	15
MW-6	11.11%	66.67%	22.22%	18
MW-7	12.50%	87.50%	0.00%	16
MW-8	12.50%	31.25%	56.25%	16
MW-9	12.50%	81.25%	6.25%	16
MW-10	28.57%	64.29%	7.14%	14
<b>Site Wide</b>	<b>13.68%</b>	<b>69.47%</b>	<b>16.84%</b>	<b>95</b>

(u) indicates an upgradient monitoring point.

Review of the Mann-Kendall statistics indicated that approximately 83% of the Mann-Kendall statistics were considered stable or decreasing following the 2025 annual statistical evaluation with four of the decreasing trends being pH. There were sixteen monitoring well/constituent pairs with generally increasing trends. The monitoring well/constituent pairs with increasing trends and decreasing pH trends are discussed in the following table.

Monitoring Well	Constituent Name	Comments
MW-5	Total Organic Halogens	Based on one actual detection and seven non-detects. Highest concentration of 0.0706 mg/L measured in 2023.
MW-6	Aluminum	Based on two actual detections and six non-detects. Highest concentration of 2.57 mg/L measured in spring 2025.
MW-6	Iron	Based on three actual detections and five non-detects. Highest concentration of 1.48 mg/L measured in 2024.
MW-6	Molybdenum	Based on seven actual detections and one non-detect. Highest concentration of 0.00696 mg/L measured in spring 2025.
MW-6	pH (decreasing)	Based on eight measurements. Range of pH measurements between 6.67 and 8.01 S.U. Highest measurement of 8.01 S.U. measured in 2021.
MW-6	Sulfate	Based on eight actual detections. Highest concentration of 83.6 mg/L measured in fall 2025.
MW-8	Arsenic	Based on five actual detections and three non-detects. Highest concentration of 0.00391 mg/L measured in 2024.
MW-8	Boron	Based on eight actual detections. Highest concentration of 0.602 mg/L measured in 2023.

Monitoring Well	Constituent Name	Comments
MW-8	Cadmium	Based on one detection and seven non-detects. Highest concentration of 0.000241 mg/L measured in 2024.
MW-8	Chloride	Based on eight actual detections. Highest concentration of 252 mg/L measured in spring 2025.
MW-8	Cobalt	Based on six actual detections and two non-detects. Highest concentration of 0.00429 mg/L measured in 2023.
MW-8	Iron	Based on five actual detections and three non-detects. Highest concentration of 1.26 mg/L measured in 2024.
MW-8	Magnesium	Based on eight actual detections. Highest concentration of 124 mg/L measured in 2024.
MW-8	Nickel	Based on seven actual detections and one non-detect. Highest measurement of 0.0089 mg/L measured in spring 2025.
MW-8	pH (decreasing)	Based on eight measurements. Range of pH measurements between 6.55 and 7.34 S.U. Highest measurement of 7.34 S.U. measured in 2021.
MW-8	Sulfate	Based on eight actual detections. Highest concentration of 1,510 mg/L measured in fall 2025.
MW-9	Manganese	Based on six actual detections and one non-detect. Highest concentration of 0.266 measured in 2023.
MW-9	pH (decreasing)	Based on eight measurements. Range of pH measurements between 6.68 and 7.60 S.U. Highest measurement of 7.60 S.U. measured in 2021.
MW-10	Boron	Based on five actual detections and three non-detects. Highest concentration of 0.303 mg/L measured in 2023.
MW-10	pH (decreasing)	Based on eight measurements. Range of pH measurements between 6.29 and 8.6 S.U. Highest measurement of 8.6 S.U. measured in 2021.

None of the monitoring well/constituent pairs found to be increasing at an 80% confidence level exceeded regulatory action levels for the respective constituent concentrations during the 2025 reporting period. The pH values of the four monitoring well/constituent pairs found to be decreasing at an 80% confidence level were all neutral to circumneutral.

## **6.0 RECOMMENDATIONS**

### **6.1 SITE IMPACT ON GROUNDWATER**

Concentrations of the majority of analyzed parameters in groundwater at the Monofill were stable to decreasing. With the exception of monitoring well MW-8, a general stability of groundwater quality at the site was noted.

### **6.2 PROPOSED MONITORING**

Anticipated groundwater sampling for the 2026 reporting period is shown in **Table 2**. It is requested to move antimony, beryllium, and mercury to the five-year sampling frequency parameter list specified in IX. Special Condition 6.a. of Permit No. 51-SDP-06-19C as they have not been detected in any of the monitoring well samples to date. No other changes to the 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.

## Tables

- 1 Monitoring Program Summary
- 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
- 9 Historical Control and Action Level Exceedances
- 10 Groundwater Quality Assessment Plan Trend Analysis

**Table 1**  
**Monitoring Program Summary**  
**2025 Annual Water Quality Report**  
**Faircast, Inc.**  
**Permit No. 51-SDP-06-19C**

Monitoring Well	Formation <sup>(1)</sup>	Current Monitoring Program	Change for Next Sampling Event	Prediction Limit/DQR Exceedances <sup>(2)</sup>	Total Number of Samples in Each Monitoring Program Since June 22, 2021		
					Routine	Supplemental	Remedial Action
MW-5	Clay/Sandy Clay	Background	None	N/A	9	-	-
MW-6	Sandy Clay	Detection	None	Aluminum, Iron, Lead, Manganese	9	-	-
MW-7	Sandy Clay	Detection	None	Nitrogen, Ammonia	9	-	-
MW-8	Sandy Clay	Detection	None	Arsenic, Boron, Chloride, Cobalt, Iron, Magnesium, Manganese, Nickel, Sulfate	9	-	-
MW-9	Sandy Clay	Detection	None	Magnesium, Manganese, Sulfate	9	-	-
MW-10	Sandy Clay	Detection	None	Boron	9	-	-

Notes:

<sup>(1)</sup> Obtained from screened interval on boring logs.

<sup>(2)</sup> Detection monitoring statistical evaluation use prediction limits with a 1 of 2 retesting scheme and the Double Quantification Rule. The retesting event is the subsequent semi-annual compliance event. As this is the first statistical evaluation using these methods, the exceedances are only indicated at this time and not verified.

DQR: Double Quantification Rule.

**Table 2**  
**Monitoring Program Implementation Schedule**  
**2025 Annual Water Quality Report**  
 Faircast, Inc.  
 Permit No. 51-SDP-06-19C

Monitoring Well	Recent Sampling Dates and Constituents		Upcoming Sampling Dates and Constituents	
	March 2025 Sampling Event	September 2025 Sampling Event	1 <sup>st</sup> 2026 Semi-Annual Sampling Event	2 <sup>nd</sup> 2026 Semi-Annual Sampling Event
MW-5	Aluminum, Ammonia-Nitrogen, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chloride, Chromium, Cobalt, COD, Copper, Fluoride, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, pH, Selenium, Silver, Sulfate, Thallium, Vanadium, Zinc, Total Organic Halogens, Total Suspended Solids	Ammonia-Nitrogen, Chemical Oxygen Demand, Chloride, Fluoride, pH, Sulfate, Total Organic Halogens, Total Suspended Solids	Aluminum, Ammonia-Nitrogen, Antimony*, Arsenic, Barium, Beryllium*, Boron, Cadmium, Chloride, Chromium, Cobalt, COD, Copper, Fluoride, Iron, Lead, Magnesium, Manganese, Mercury*, Molybdenum, Nickel, pH, Selenium, Silver, Sulfate, Thallium, Vanadium, Zinc, Total Organic Halogens, Total Suspended Solids	Aluminum, Ammonia-Nitrogen, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chloride, Chromium, Cobalt, COD, Copper, Fluoride, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, pH, Selenium, Silver, Sulfate, Thallium, Vanadium, Zinc, Total Organic Halogens, Total Suspended Solids, Benzene, 2-Butanone, Chlorobenzene, Chlorofoam, 1,2-Dichloroethane, Tetrachloroethene, Vinyl Chloride, Formaldehyde, Total Phenols
MW-6	Aluminum, Ammonia-Nitrogen, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chloride, Chromium, Cobalt, COD, Copper, Fluoride, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, pH, Selenium, Silver, Sulfate, Thallium, Vanadium, Zinc, Total Organic Halogens, Total Suspended Solids	Ammonia-Nitrogen, Chemical Oxygen Demand, Chloride, Fluoride, pH, Sulfate, Total Organic Halogens, Total Suspended Solids	Aluminum, Ammonia-Nitrogen, Antimony*, Arsenic, Barium, Beryllium*, Boron, Cadmium, Chloride, Chromium, Cobalt, COD, Copper, Fluoride, Iron, Lead, Magnesium, Manganese, Mercury*, Molybdenum, Nickel, pH, Selenium, Silver, Sulfate, Thallium, Vanadium, Zinc, Total Organic Halogens, Total Suspended Solids	Aluminum, Ammonia-Nitrogen, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chloride, Chromium, Cobalt, COD, Copper, Fluoride, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, pH, Selenium, Silver, Sulfate, Thallium, Vanadium, Zinc, Total Organic Halogens, Total Suspended Solids, Benzene, 2-Butanone, Chlorobenzene, Chlorofoam, 1,2-Dichloroethane, Tetrachloroethene, Vinyl Chloride, Formaldehyde, Total Phenols
MW-7	Aluminum, Ammonia-Nitrogen, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chloride, Chromium, Cobalt, COD, Copper, Fluoride, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, pH, Selenium, Silver, Sulfate, Thallium, Vanadium, Zinc, Total Organic Halogens, Total Suspended Solids	Ammonia-Nitrogen, Chemical Oxygen Demand, Chloride, Fluoride, pH, Sulfate, Total Organic Halogens, Total Suspended Solids	Aluminum, Ammonia-Nitrogen, Antimony*, Arsenic, Barium, Beryllium*, Boron, Cadmium, Chloride, Chromium, Cobalt, COD, Copper, Fluoride, Iron, Lead, Magnesium, Manganese, Mercury*, Molybdenum, Nickel, pH, Selenium, Silver, Sulfate, Thallium, Vanadium, Zinc, Total Organic Halogens, Total Suspended Solids	Aluminum, Ammonia-Nitrogen, Antimony*, Arsenic, Barium, Beryllium*, Boron, Cadmium, Chloride, Chromium, Cobalt, COD, Copper, Fluoride, Iron, Lead, Magnesium, Manganese, Mercury*, Molybdenum, Nickel, pH, Selenium, Silver, Sulfate, Thallium, Vanadium, Zinc, Total Organic Halogens, Total Suspended Solids, Benzene, 2-Butanone, Chlorobenzene, Chlorofoam, 1,2-Dichloroethane, Tetrachloroethene, Vinyl Chloride, Formaldehyde, Total Phenols
MW-8	Aluminum, Ammonia-Nitrogen, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chloride, Chromium, Cobalt, COD, Copper, Fluoride, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, pH, Selenium, Silver, Sulfate, Thallium, Vanadium, Zinc, Total Organic Halogens, Total Suspended Solids	Ammonia-Nitrogen, Chemical Oxygen Demand, Chloride, Fluoride, pH, Sulfate, Total Organic Halogens, Total Suspended Solids	Aluminum, Ammonia-Nitrogen, Antimony*, Arsenic, Barium, Beryllium*, Boron, Cadmium, Chloride, Chromium, Cobalt, COD, Copper, Fluoride, Iron, Lead, Magnesium, Manganese, Mercury*, Molybdenum, Nickel, pH, Selenium, Silver, Sulfate, Thallium, Vanadium, Zinc, Total Organic Halogens, Total Suspended Solids	Aluminum, Ammonia-Nitrogen, Antimony*, Arsenic, Barium, Beryllium*, Boron, Cadmium, Chloride, Chromium, Cobalt, COD, Copper, Fluoride, Iron, Lead, Magnesium, Manganese, Mercury*, Molybdenum, Nickel, pH, Selenium, Silver, Sulfate, Thallium, Vanadium, Zinc, Total Organic Halogens, Total Suspended Solids, Benzene, 2-Butanone, Chlorobenzene, Chlorofoam, 1,2-Dichloroethane, Tetrachloroethene, Vinyl Chloride, Formaldehyde, Total Phenols
MW-9	Aluminum, Ammonia-Nitrogen, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chloride, Chromium, Cobalt, COD, Copper, Fluoride, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, pH, Selenium, Silver, Sulfate, Thallium, Vanadium, Zinc, Total Organic Halogens, Total Suspended Solids	Ammonia-Nitrogen, Chemical Oxygen Demand, Chloride, Fluoride, pH, Sulfate, Total Organic Halogens, Total Suspended Solids	Aluminum, Ammonia-Nitrogen, Antimony*, Arsenic, Barium, Beryllium*, Boron, Cadmium, Chloride, Chromium, Cobalt, COD, Copper, Fluoride, Iron, Lead, Magnesium, Manganese, Mercury*, Molybdenum, Nickel, pH, Selenium, Silver, Sulfate, Thallium, Vanadium, Zinc, Total Organic Halogens, Total Suspended Solids	Aluminum, Ammonia-Nitrogen, Antimony*, Arsenic, Barium, Beryllium*, Boron, Cadmium, Chloride, Chromium, Cobalt, COD, Copper, Fluoride, Iron, Lead, Magnesium, Manganese, Mercury*, Molybdenum, Nickel, pH, Selenium, Silver, Sulfate, Thallium, Vanadium, Zinc, Total Organic Halogens, Total Suspended Solids, Benzene, 2-Butanone, Chlorobenzene, Chlorofoam, 1,2-Dichloroethane, Tetrachloroethene, Vinyl Chloride, Formaldehyde, Total Phenols
MW-10	Aluminum, Ammonia-Nitrogen, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chloride, Chromium, Cobalt, COD, Copper, Fluoride, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, pH, Selenium, Silver, Sulfate, Thallium, Vanadium, Zinc, Total Organic Halogens, Total Suspended Solids	Ammonia-Nitrogen, Chemical Oxygen Demand, Chloride, Fluoride, pH, Sulfate, Total Organic Halogens, Total Suspended Solids	Aluminum, Ammonia-Nitrogen, Antimony*, Arsenic, Barium, Beryllium*, Boron, Cadmium, Chloride, Chromium, Cobalt, COD, Copper, Fluoride, Iron, Lead, Magnesium, Manganese, Mercury*, Molybdenum, Nickel, pH, Selenium, Silver, Sulfate, Thallium, Vanadium, Zinc, Total Organic Halogens, Total Suspended Solids	Aluminum, Ammonia-Nitrogen, Antimony*, Arsenic, Barium, Beryllium*, Boron, Cadmium, Chloride, Chromium, Cobalt, COD, Copper, Fluoride, Iron, Lead, Magnesium, Manganese, Mercury*, Molybdenum, Nickel, pH, Selenium, Silver, Sulfate, Thallium, Vanadium, Zinc, Total Organic Halogens, Total Suspended Solids, Benzene, 2-Butanone, Chlorobenzene, Chlorofoam, 1,2-Dichloroethane, Tetrachloroethene, Vinyl Chloride, Formaldehyde, Total Phenols

Notes:

Total metals were inadvertently omitted during the November 2025 sampling event due to an internal error; however, total metals analysis will resume in the 2026 AWQR.  
 COD - Chemical Oxygen Demand.

\* - May be removed, pending DNR review of recommendation.

**Table 3**  
**Monitoring Well Maintenance and Performance Re-Evaluation Schedule**  
**2025 Annual Water Quality Report**  
**Faircast, Inc.**  
**Permit No. 51-SDP-06-19C**

<b>Compliance with:</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>
HMSP Section 4.0 high and low water levels	-	-	Included	Scheduled
HMSP Section 4.0 changes in the hydrologic setting and flow paths <sup>(1)</sup>	-	-	-	Scheduled
HMSP Section 4.0 well depths	NR	Completed	Included	Scheduled
HMSP Section 4.0 well recharge rates <sup>(1)</sup>	-	-	-	Scheduled

Notes:

NR: Not reported.

<sup>(1)</sup> Sampling required once every five years, subject to the conditions in IX. Special Condition 6.a. of the site closure permit.

**Table 4**  
**Monitoring Well Performance and Maintenance Summary**  
**2025 Annual Water Quality Report**  
**Faircast, Inc.**  
**Permit No. 51-SDP-06-19C**

Well	Top of Casing	Top of Screen	Total Depth		Date of Measurement	Maximum Depth Discrepancy (ft)
					9/10/2025	
MW-5	773.50	756.50	27.0	Groundwater Level (ft)	14.13	-0.3
				Groundwater Elevation (Ft MSL)	759.37	
				Measured Well Depth (ft)	27.3	
				Submerged screen	Y	
MW-6	766.20	753.00	22.8	Groundwater Level (ft)	14.45	0.5
				Groundwater Elevation (Ft MSL)	751.75	
				Measured Well Depth (ft)	22.3	
				Submerged screen	N	
MW-7	765.10	748.20	26.9	Groundwater Level (ft)	18.86	6.4
				Groundwater Elevation (Ft MSL)	746.24	
				Measured Well Depth (ft)	20.5	
				Submerged screen	N	
MW-8	737.50	723.50	22.0	Groundwater Level (ft)	8.70	-0.3
				Groundwater Elevation (Ft MSL)	728.80	
				Measured Well Depth (ft)	22.3	
				Submerged screen	Y	
MW-9	757.80	741.20	26.6	Groundwater Level (ft)	18.31	-0.6
				Groundwater Elevation (Ft MSL)	739.49	
				Measured Well Depth (ft)	27.3	
				Submerged screen	N	
MW-10	756.30	746.60	19.7	Groundwater Level (ft)	8.21	-0.5
				Groundwater Elevation (Ft MSL)	748.09	
				Measured Well Depth (ft)	20.2	
				Submerged screen	Y	

Comments:

1) Measured well depths were within 1.0 foot of the installed depth with the following exception:

**MW-7:** This monitoring well measured 6.4 ft shallower than the originally installed depth during the September 10, 2025 sampling event; however, during the 2025 spring sampling event the monitoring well depth was measured at 27.2 ft. Therefore, it appears the September 10, 2025 measurement is anomalous.

Table 5  
Background and GWPS Summary  
2025 Annual Water Quality Report  
Faircast, Inc.  
Permit No. 51-SDP-06-19C

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	Action Level	Source
<b>Inorganics</b>										
Aluminum	mg/L	8	1	0.025 (1/2 RL)	0.11	0.03563	0.11	PL (NP)	-	-
Antimony	mg/L	8	0	0.001 (1/2 RL)	0.001 (1/2 RL)	0.001	< 0.002	DQR	0.006	MCL
Arsenic	mg/L	8	0	0.001 (1/2 RL)	0.001 (1/2 RL)	0.001	< 0.002	DQR	0.01	MCL
Barium	mg/L	8	8	0.411	0.549	0.4966	0.641	PL (P)	2.0	MCL
Beryllium	mg/L	8	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.0005	< 0.001	DQR	0.004	MCL
Boron	mg/L	8	1	0.05 (1/2 RL)	0.144	0.06175	0.144	PL (NP)	6.0	SWS
Cadmium	mg/L	8	0	0.00005 (1/2 RL)	0.0001 (1/2 RL)	7.5000E-05	< 0.0002	DQR	0.005	MCL
Chemical Oxygen Demand	mg/L	9	2	12.5 (1/2 RL)	64.5	19.94	64.5	PL (NP)	-	-
Chloride	mg/L	9	9	27.6	63.2	42.88	77.01	PL (P)	-	-
Chromium	mg/L	8	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.0025	< 0.005	DQR	0.1	MCL
Cobalt	mg/L	8	0	0.00025 (1/2 RL)	0.00025 (1/2 RL)	0.00025	< 0.0005	DQR	0.0021	SWS
Copper	mg/L	8	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.0025	< 0.005	DQR	1.3	MCL
Fluoride	mg/L	9	3	0.25 (1/2 RL)	0.7	0.5012	0.668	PL (NP)	-	-
Iron	mg/L	8	1	0.05 (1/2 RL)	0.101	0.05638	0.101	PL (NP)	-	-
Lead	mg/L	8	0	0.00025 (1/2 RL)	0.00025 (1/2 RL)	0.00025	< 0.0005	DQR	0.015	MCL
Magnesium	mg/L	8	8	19	40	22.61	40	PL (NP)	-	-
Manganese	mg/L	8	1	0.005 (1/2 RL)	0.0155	0.01	0.0155	PL (NP)	0.3	SWS
Mercury	mg/L	8	0	0.0001 (1/2 RL)	0.0001 (1/2 RL)	0.0001	< 0.0002	DQR	0.002	SWS
Molybdenum	mg/L	8	3	0.001 (1/2 RL)	0.0307	0.005351	0.0307	PL (NP)	0.04	SWS
Nickel	mg/L	8	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.0025	< 0.005	DQR	0.1	SWS
Nitrogen, Ammonia	mg/L	9	0	0.1 (1/2 RL)	0.25 (1/2 RL)	0.2167	< 0.5	DQR	30.0	HAL
pH	S.U.	13	13	6.67	7.87	7.213	6.305-8.121	PL (P)	-	-
Selenium	mg/L	8	1	0.0025 (1/2 RL)	0.0052	0.002838	0.0052	PL (NP)	0.05	MCL
Silver	mg/L	8	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.0005	< 0.001	DQR	0.1	SWS
Sulfate	mg/L	9	9	17.6	79.8	31.63	102	PL (P)	-	-
Thallium	mg/L	8	2	0.0005 (1/2 RL)	0.00317	0.000978	0.0032	PL (NP)	0.002	MCL
Total Organic Halogens	mg/L	9	1	0.02 (1/2 RL)	0.0706	0.02896	0.0706	PL (NP)	-	-
Vanadium	mg/L	8	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.0025	< 0.005	DQR	0.035	SWS
Zinc	mg/L	8	0	0.01 (1/2 RL)	0.01 (1/2 RL)	0.010	< 0.02	DQR	2.0	SWS

Notes:

- 1) Background levels based on calculated prediction limits or reporting limit, as applicable.

Acronyms/Abbreviations:

RL = Reporting Limit	MCL = EPA Maximum Contaminant Level
GWPS = Groundwater Protection Standard	PL = Prediction Limits
SSS = Site-Specific GWPS	HAL = Health Advisory Level
SWS = Statewide Standard	DWA = Drinking Water Advisory
SD = Standard Deviation	

Comments:

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

**Table 6**  
**Summary of Well/Detected Constituent Pairs With No Immediately Preceding Statistically Significant Increase Above Background**  
**2025 Annual Water Quality Report**  
**Faircast, Inc.**  
**Permit No. 51-SDP-06-19C**

**2025 Spring Sampling Event**

Well	Constituent	Units	Most Recent Result	Background Standard
MW-9	Magnesium	mg/L	40.2	40
	Manganese	mg/L	0.0245	0.0155
	Sulfate	mg/L	303	102

**2025 Fall Sampling Event**

Well	Constituent	Units	Most Recent Result	Background Standard
MW-7	Nitrogen, Ammonia	mg/L	3.07	< 0.5

Note: Table includes indicated prediction limit/DQR exceedances identified during the 2025 reporting period that were not identified as prediction limit exceedances in the previous year.

Comments:

- 1) **Problems with the current HMSP network:** None.
- 2) **Schedule to implement remedies:** Not applicable.
- 3) **Alternative constituent or sample frequency changes:** None.
- 4) **Significant changes to prediction limits:** None.

**Table 7**  
**Summary Table of Ongoing and Newly Identified Statistically Significant Increases Above Background**  
**2025 Annual Water Quality Report**  
**Faircast, Inc.**  
**Permit No. 51-SDP-06-19C**

Key

	Denotes ongoing prediction limit exceedances (as applicable) that were identified as such during this reporting period and the previous reporting period.
	Denotes newly identified prediction limit exceedances or double quantifications (as applicable) in the 2025 reporting period. Newly identified is defined as occurring at least once in the current reporting period but not in the immediately preceding reporting period.

Well	Constituent	Units	Most Recent Result	Background Standard	Action Level/ Statewide Standard
MW-6	Aluminum	mg/L	0.168	0.11	-
	Iron	mg/L	0.135	0.101	-
	Lead	mg/L	0.000695	< 0.0005*	0.015
	Manganese	mg/L	0.01685	0.0155	0.3
MW-7	Nitrogen, Ammonia	mg/L	3.07	< 0.5*	30
MW-8	Arsenic	mg/L	0.00205	< 0.002*	0.01
	Boron	mg/L	0.489	0.144	-
	Chloride	mg/L	246	77.01	-
	Cobalt	mg/L	0.00178	< 0.0005*	0.0021
	Iron	mg/L	0.703	0.101	-
	Magnesium	mg/L	119	40	-
	Manganese	mg/L	0.75	0.0155	0.3
	Nickel	mg/L	0.0089	< 0.005*	0.1
MW-9	Sulfate	mg/L	1510	102	-
	Magnesium	mg/L	40.2	40	-
	Manganese	mg/L	0.0245	0.0155	0.3
MW-9	Sulfate	mg/L	201	102.3	-
	Boron	mg/L	0.155	0.144	6.0

Notes: \* - No prediction limit was calculated due to no detections in background monitoring well MW-5; therefore, the reporting limit was used as the background standard.

Comments:

- 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**  
**2025 Annual Water Quality Report**  
**Faircast, Inc.**  
**Permit No. 51-SDP-06-19C**

The Summary of Groundwater Chemistry is located in Appendix C.

**Table 9**  
**Historical Control Limit and Action Level Exceedances**  
**2025 Annual Water Quality Report**  
**Faircast, Inc.**  
**Permit No. 51-SDP-06-19C**

Key

	Statistically Significant Increase (SSI) Above Background
<b>X</b>	Action Level Exceedance

Well	Constituent	2024	2025
MW-6	Aluminum		
	Iron		
	Lead		
	Manganese		
MW-7	Aluminum		
	Arsenic		
	Iron		
	Lead		
	Nitrogen, Ammonia		
MW-8	Arsenic		
	Boron		
	Cadmium		
	Chloride		
	Cobalt	<b>X</b>	
	Iron		
	Magnesium		
	Manganese	<b>X</b>	<b>X</b>
	Nickel		
Sulfate			
MW-9	Magnesium		
	Manganese		
	Sulfate		
MW-10	Boron		
	Iron		
	Manganese		

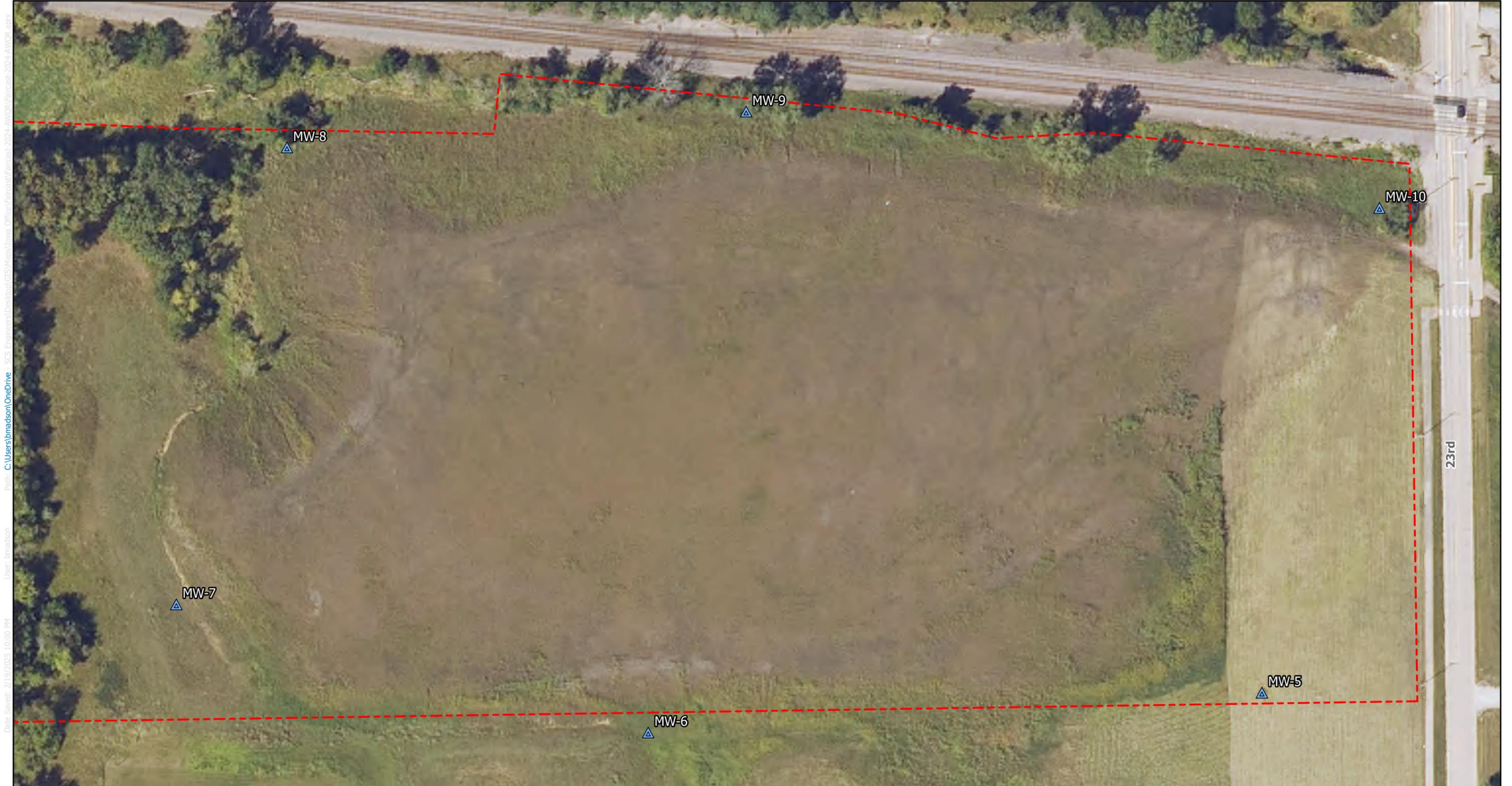
Notes: SSIs and exceedances for background monitoring wells not included.

**Table 10**  
**Groundwater Quality Assessment Plan Trend Analysis**  
**2025 Annual Water Quality Report**  
**Faircast, Inc.**  
**Permit No. 51-SDP-06-19C**

See Appendix E for Mann Kendall Trend Analysis.

## Figures

- 1 Approved Monitoring Network
- 2 Groundwater Contours



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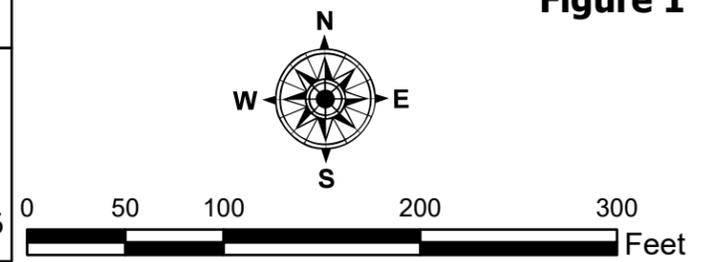
## Approved Monitoring Network



### Legend

- ▲ Approximate Location of Monitoring Well
- - - Property Boundary

Faircast Foundry Sand Services  
 Fairfield, IA  
 Project No: 27224645.00  
 Drawing Date: February 2026



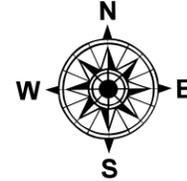
**Figure 1**

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



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Groundwater Contours		
<b>Legend</b> — Approximate Groundwater Contours Based on Field Measurements Taken September 10, 2025 ▲ Approximate Location of Monitoring Well - - - Property Boundary	Faircast Foundry Sand Services Fairfield, IA Project No: 27224645.00 Drawing Date: February 2026	<div style="text-align: center;">  </div> <div style="text-align: center;">  </div>

**Figure 2**

Sources: Esri, TomTom, Garmin, FMC, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri, CGIAK, USGS, USDA NRI, Iowa State University GIS Facility



Appendix A  
Field Sampling Forms



























Appendix B-1  
Laboratory Analytical Data Sheets

# ANALYTICAL REPORT

## PREPARED FOR

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

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## JOB DESCRIPTION

Faircast FS Groundwater Sampling Spring 2025  
Faircast Foundry Sand Fill Area

## JOB NUMBER

310-302365-1

# 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](mailto:Samuel.Miller@et.eurofinsus.com)  
(319)277-2401



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# Case Narrative

Client: SCS Engineers  
Project: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1

**Job ID: 310-302365-1**

**Eurofins Cedar Falls**

## Job Narrative 310-302365-1

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

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

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

### Receipt

The samples were received on 3/19/2025 3:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.4°C and 0.8°C.

### HPLC/IC

Method 9056A\_ORGFM\_28D: The following samples were diluted due to the nature of the sample matrix: MW-5 (310-302365-1), MW-6 (310-302365-2), MW-7 (310-302365-3), MW-8 (310-302365-4), MW-9 (310-302365-5), MW-10 (310-302365-6) and MW-D (310-302365-7). Elevated reporting limits (RLs) are provided.

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

### Metals

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

### General Chemistry

Method 9020B\_Calc: The following samples for batch 280-689744 (Total Organic Halides) were diluted to 2x due to the nature of the sample matrix based on CI pre-screen test: MW-5 (310-302365-1), MW-6 (310-302365-2), MW-7 (310-302365-3), MW-9 (310-302365-5), MW-10 (310-302365-6) and MW-D (310-302365-7). Elevated reporting limits (RLs) are provided.

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

Eurofins Cedar Falls

# Sample Summary

Client: SCS Engineers  
Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
SDG: Faircast Foundry Sand Fill Area

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-302365-1	MW-5	Water	03/18/25 16:22	03/19/25 15:10
310-302365-2	MW-6	Water	03/18/25 15:27	03/19/25 15:10
310-302365-3	MW-7	Water	03/18/25 14:34	03/19/25 15:10
310-302365-4	MW-8	Water	03/18/25 13:40	03/19/25 15:10
310-302365-5	MW-9	Water	03/18/25 12:32	03/19/25 15:10
310-302365-6	MW-10	Water	03/18/25 11:23	03/19/25 15:10
310-302365-7	MW-D	Water	03/18/25 15:27	03/19/25 15:10

- 1
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- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Detection Summary

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
 SDG: Faircast Foundry Sand Fill Area

## Client Sample ID: MW-5

## Lab Sample ID: 310-302365-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	35.5		5.00		mg/L	5		9056A	Total/NA
Sulfate	20.7		5.00		mg/L	5		9056A	Total/NA
Barium	0.504		0.00200		mg/L	1		6020B	Total/NA
Magnesium	20.2		0.500		mg/L	1		6020B	Total/NA

## Client Sample ID: MW-6

## Lab Sample ID: 310-302365-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	17.1		5.00		mg/L	5		9056A	Total/NA
Sulfate	58.2		5.00		mg/L	5		9056A	Total/NA
Aluminum	0.168		0.0500		mg/L	1		6020B	Total/NA
Barium	0.116		0.00200		mg/L	1		6020B	Total/NA
Iron	0.135		0.100		mg/L	1		6020B	Total/NA
Magnesium	12.8		0.500		mg/L	1		6020B	Total/NA
Manganese	0.0145		0.0100		mg/L	1		6020B	Total/NA
Molybdenum	0.00582		0.00200		mg/L	1		6020B	Total/NA
Total Suspended Solids	33.0		3.00		mg/L	1		I-3765-85	Total/NA

## Client Sample ID: MW-7

## Lab Sample ID: 310-302365-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.98		5.00		mg/L	5		9056A	Total/NA
Sulfate	55.3		5.00		mg/L	5		9056A	Total/NA
Aluminum	0.0582		0.0500		mg/L	1		6020B	Total/NA
Barium	0.102		0.00200		mg/L	1		6020B	Total/NA
Magnesium	11.6		0.500		mg/L	1		6020B	Total/NA
Molybdenum	0.0136		0.00200		mg/L	1		6020B	Total/NA
Total Suspended Solids	4.00		1.88		mg/L	1		I-3765-85	Total/NA

## Client Sample ID: MW-8

## Lab Sample ID: 310-302365-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	252		5.00		mg/L	5		9056A	Total/NA
Sulfate	1410		20.0		mg/L	20		9056A	Total/NA
Arsenic	0.00205		0.00200		mg/L	1		6020B	Total/NA
Barium	0.0174		0.00200		mg/L	1		6020B	Total/NA
Boron	0.489		0.400		mg/L	4		6020B	Total/NA
Cobalt	0.00178		0.000500		mg/L	1		6020B	Total/NA
Iron	0.703		0.100		mg/L	1		6020B	Total/NA
Magnesium	119		2.00		mg/L	4		6020B	Total/NA
Manganese	0.750		0.0100		mg/L	1		6020B	Total/NA
Nickel	0.00890		0.00500		mg/L	1		6020B	Total/NA
Total Organic Halogens	0.0658		0.0600		mg/L	1		9020B	Total/NA
Total Suspended Solids	5.63		1.88		mg/L	1		I-3765-85	Total/NA

## Client Sample ID: MW-9

## Lab Sample ID: 310-302365-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	22.6		5.00		mg/L	5		9056A	Total/NA
Sulfate	303		5.00		mg/L	5		9056A	Total/NA
Barium	0.0919		0.00200		mg/L	1		6020B	Total/NA
Boron	0.125		0.100		mg/L	1		6020B	Total/NA
Magnesium	40.2		0.500		mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

## Detection Summary

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
 SDG: Faircast Foundry Sand Fill Area

### Client Sample ID: MW-9 (Continued)

Lab Sample ID: 310-302365-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.0245		0.0100		mg/L	1		6020B	Total/NA
Molybdenum	0.00278		0.00200		mg/L	1		6020B	Total/NA
Total Suspended Solids	2.13		1.88		mg/L	1		I-3765-85	Total/NA

### Client Sample ID: MW-10

Lab Sample ID: 310-302365-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10.2		5.00		mg/L	5		9056A	Total/NA
Sulfate	44.2		5.00		mg/L	5		9056A	Total/NA
Barium	0.0556		0.00200		mg/L	1		6020B	Total/NA
Boron	0.155		0.100		mg/L	1		6020B	Total/NA
Magnesium	26.4		0.500		mg/L	1		6020B	Total/NA
Molybdenum	0.00429		0.00200		mg/L	1		6020B	Total/NA

### Client Sample ID: MW-D

Lab Sample ID: 310-302365-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	16.9		5.00		mg/L	5		9056A	Total/NA
Sulfate	58.0		5.00		mg/L	5		9056A	Total/NA
Aluminum	2.57		0.0500		mg/L	1		6020B	Total/NA
Barium	0.114		0.00200		mg/L	1		6020B	Total/NA
Boron	0.100		0.100		mg/L	1		6020B	Total/NA
Iron	1.48		0.100		mg/L	1		6020B	Total/NA
Lead	0.000695		0.000500		mg/L	1		6020B	Total/NA
Magnesium	13.0		0.500		mg/L	1		6020B	Total/NA
Manganese	0.0192		0.0100		mg/L	1		6020B	Total/NA
Molybdenum	0.00696		0.00200		mg/L	1		6020B	Total/NA
Total Suspended Solids	20.3		5.00		mg/L	1		I-3765-85	Total/NA
Chemical Oxygen Demand	31.0		25.0		mg/L	5		SM 5220D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

# Client Sample Results

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
 SDG: Faircast Foundry Sand Fill Area

**Client Sample ID: MW-5**

**Lab Sample ID: 310-302365-1**

Date Collected: 03/18/25 16:22

Matrix: Water

Date Received: 03/19/25 15:10

**Method: SW846 9056A - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.5		5.00		mg/L			03/25/25 12:38	5
Fluoride	<1.00		1.00		mg/L			03/25/25 12:38	5
Sulfate	20.7		5.00		mg/L			03/25/25 12:38	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500		mg/L		03/21/25 08:30	03/26/25 17:38	1
Antimony	<0.00200		0.00200		mg/L		03/21/25 08:30	03/26/25 17:38	1
Arsenic	<0.00200		0.00200		mg/L		03/21/25 08:30	03/26/25 17:38	1
Barium	0.504		0.00200		mg/L		03/21/25 08:30	03/26/25 17:38	1
Beryllium	<0.00100		0.00100		mg/L		03/21/25 08:30	03/26/25 17:38	1
Boron	<0.100		0.100		mg/L		03/21/25 08:30	03/27/25 13:53	1
Cadmium	<0.000200		0.000200		mg/L		03/21/25 08:30	03/26/25 17:38	1
Chromium	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:38	1
Cobalt	<0.000500		0.000500		mg/L		03/21/25 08:30	03/26/25 17:38	1
Copper	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:38	1
Iron	<0.100		0.100		mg/L		03/21/25 08:30	03/26/25 17:38	1
Lead	<0.000500		0.000500		mg/L		03/21/25 08:30	03/26/25 17:38	1
Magnesium	20.2		0.500		mg/L		03/21/25 08:30	03/26/25 17:38	1
Manganese	<0.0100		0.0100		mg/L		03/21/25 08:30	03/26/25 17:38	1
Molybdenum	<0.00200		0.00200		mg/L		03/21/25 08:30	03/26/25 17:38	1
Nickel	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:38	1
Selenium	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:38	1
Silver	<0.00100		0.00100		mg/L		03/21/25 08:30	03/26/25 17:38	1
Thallium	<0.00100		0.00100		mg/L		03/21/25 08:30	03/26/25 17:38	1
Vanadium	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:38	1
Zinc	<0.0200		0.0200		mg/L		03/21/25 08:30	03/26/25 17:38	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		03/28/25 11:50	03/29/25 09:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Nitrogen (EPA 350.1)	<0.500		0.500		mg/L		03/21/25 08:29	03/21/25 17:06	1
Total Organic Halogens (SW846 9020B)	<0.0600		0.0600		mg/L			03/31/25 14:07	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88		mg/L			03/20/25 17:05	1
Chemical Oxygen Demand (SM 5220D)	<25.0		25.0		mg/L			03/28/25 11:05	5

# Client Sample Results

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
 SDG: Faircast Foundry Sand Fill Area

**Client Sample ID: MW-6**

**Lab Sample ID: 310-302365-2**

Date Collected: 03/18/25 15:27

Matrix: Water

Date Received: 03/19/25 15:10

**Method: SW846 9056A - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>17.1</b>		5.00		mg/L			03/25/25 12:53	5
Fluoride	<1.00		1.00		mg/L			03/25/25 12:53	5
<b>Sulfate</b>	<b>58.2</b>		5.00		mg/L			03/25/25 12:53	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>0.168</b>		0.0500		mg/L		03/21/25 08:30	03/26/25 17:41	1
Antimony	<0.00200		0.00200		mg/L		03/21/25 08:30	03/26/25 17:41	1
Arsenic	<0.00200		0.00200		mg/L		03/21/25 08:30	03/26/25 17:41	1
<b>Barium</b>	<b>0.116</b>		0.00200		mg/L		03/21/25 08:30	03/26/25 17:41	1
Beryllium	<0.00100		0.00100		mg/L		03/21/25 08:30	03/26/25 17:41	1
Boron	<0.100		0.100		mg/L		03/21/25 08:30	03/27/25 13:56	1
Cadmium	<0.000200		0.000200		mg/L		03/21/25 08:30	03/26/25 17:41	1
Chromium	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:41	1
Cobalt	<0.000500		0.000500		mg/L		03/21/25 08:30	03/26/25 17:41	1
Copper	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:41	1
<b>Iron</b>	<b>0.135</b>		0.100		mg/L		03/21/25 08:30	03/26/25 17:41	1
Lead	<0.000500		0.000500		mg/L		03/21/25 08:30	03/26/25 17:41	1
<b>Magnesium</b>	<b>12.8</b>		0.500		mg/L		03/21/25 08:30	03/26/25 17:41	1
<b>Manganese</b>	<b>0.0145</b>		0.0100		mg/L		03/21/25 08:30	03/26/25 17:41	1
<b>Molybdenum</b>	<b>0.00582</b>		0.00200		mg/L		03/21/25 08:30	03/26/25 17:41	1
Nickel	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:41	1
Selenium	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:41	1
Silver	<0.00100		0.00100		mg/L		03/21/25 08:30	03/26/25 17:41	1
Thallium	<0.00100		0.00100		mg/L		03/21/25 08:30	03/26/25 17:41	1
Vanadium	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:41	1
Zinc	<0.0200		0.0200		mg/L		03/21/25 08:30	03/26/25 17:41	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		03/28/25 11:50	03/29/25 09:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Nitrogen (EPA 350.1)	<0.500		0.500		mg/L		03/21/25 08:29	03/21/25 17:06	1
Total Organic Halogens (SW846 9020B)	<0.0600		0.0600		mg/L			03/31/25 14:07	1
<b>Total Suspended Solids (USGS I-3765-85)</b>	<b>33.0</b>		3.00		mg/L			03/20/25 17:05	1
Chemical Oxygen Demand (SM 5220D)	<25.0		25.0		mg/L			03/28/25 11:05	5

# Client Sample Results

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
 SDG: Faircast Foundry Sand Fill Area

**Client Sample ID: MW-7**

**Lab Sample ID: 310-302365-3**

Date Collected: 03/18/25 14:34

Matrix: Water

Date Received: 03/19/25 15:10

**Method: SW846 9056A - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>8.98</b>		5.00		mg/L			03/25/25 13:08	5
Fluoride	<1.00		1.00		mg/L			03/25/25 13:08	5
<b>Sulfate</b>	<b>55.3</b>		5.00		mg/L			03/25/25 13:08	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Aluminum</b>	<b>0.0582</b>		0.0500		mg/L		03/21/25 08:30	03/26/25 17:43	1
Antimony	<0.00200		0.00200		mg/L		03/21/25 08:30	03/26/25 17:43	1
Arsenic	<0.00200		0.00200		mg/L		03/21/25 08:30	03/26/25 17:43	1
<b>Barium</b>	<b>0.102</b>		0.00200		mg/L		03/21/25 08:30	03/26/25 17:43	1
Beryllium	<0.00100		0.00100		mg/L		03/21/25 08:30	03/26/25 17:43	1
Boron	<0.100		0.100		mg/L		03/21/25 08:30	03/27/25 13:59	1
Cadmium	<0.000200		0.000200		mg/L		03/21/25 08:30	03/26/25 17:43	1
Chromium	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:43	1
Cobalt	<0.000500		0.000500		mg/L		03/21/25 08:30	03/26/25 17:43	1
Copper	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:43	1
Iron	<0.100		0.100		mg/L		03/21/25 08:30	03/26/25 17:43	1
Lead	<0.000500		0.000500		mg/L		03/21/25 08:30	03/26/25 17:43	1
<b>Magnesium</b>	<b>11.6</b>		0.500		mg/L		03/21/25 08:30	03/26/25 17:43	1
Manganese	<0.0100		0.0100		mg/L		03/21/25 08:30	03/26/25 17:43	1
<b>Molybdenum</b>	<b>0.0136</b>		0.00200		mg/L		03/21/25 08:30	03/26/25 17:43	1
Nickel	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:43	1
Selenium	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:43	1
Silver	<0.00100		0.00100		mg/L		03/21/25 08:30	03/26/25 17:43	1
Thallium	<0.00100		0.00100		mg/L		03/21/25 08:30	03/26/25 17:43	1
Vanadium	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:43	1
Zinc	<0.0200		0.0200		mg/L		03/21/25 08:30	03/26/25 17:43	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		03/28/25 11:50	03/29/25 09:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Nitrogen (EPA 350.1)	<0.500		0.500		mg/L		03/21/25 08:29	03/21/25 17:07	1
Total Organic Halogens (SW846 9020B)	<0.0600		0.0600		mg/L			03/31/25 14:07	1
<b>Total Suspended Solids (USGS I-3765-85)</b>	<b>4.00</b>		1.88		mg/L			03/20/25 17:05	1
Chemical Oxygen Demand (SM 5220D)	<25.0		25.0		mg/L			03/28/25 11:05	5

# Client Sample Results

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
 SDG: Faircast Foundry Sand Fill Area

**Client Sample ID: MW-8**

**Lab Sample ID: 310-302365-4**

Date Collected: 03/18/25 13:40

Matrix: Water

Date Received: 03/19/25 15:10

**Method: SW846 9056A - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>252</b>		5.00		mg/L			03/25/25 13:24	5
Fluoride	<1.00		1.00		mg/L			03/25/25 13:24	5
<b>Sulfate</b>	<b>1410</b>		20.0		mg/L			03/25/25 18:05	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500		mg/L		03/21/25 08:30	03/26/25 17:45	1
Antimony	<0.00200		0.00200		mg/L		03/21/25 08:30	03/26/25 17:45	1
<b>Arsenic</b>	<b>0.00205</b>		0.00200		mg/L		03/21/25 08:30	03/26/25 17:45	1
<b>Barium</b>	<b>0.0174</b>		0.00200		mg/L		03/21/25 08:30	03/26/25 17:45	1
Beryllium	<0.00100		0.00100		mg/L		03/21/25 08:30	03/26/25 17:45	1
<b>Boron</b>	<b>0.489</b>		0.400		mg/L		03/21/25 08:30	03/27/25 14:02	4
Cadmium	<0.000200		0.000200		mg/L		03/21/25 08:30	03/26/25 17:45	1
Chromium	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:45	1
<b>Cobalt</b>	<b>0.00178</b>		0.000500		mg/L		03/21/25 08:30	03/26/25 17:45	1
Copper	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:45	1
<b>Iron</b>	<b>0.703</b>		0.100		mg/L		03/21/25 08:30	03/26/25 17:45	1
Lead	<0.000500		0.000500		mg/L		03/21/25 08:30	03/26/25 17:45	1
<b>Magnesium</b>	<b>119</b>		2.00		mg/L		03/21/25 08:30	03/27/25 14:02	4
<b>Manganese</b>	<b>0.750</b>		0.0100		mg/L		03/21/25 08:30	03/26/25 17:45	1
Molybdenum	<0.00200		0.00200		mg/L		03/21/25 08:30	03/26/25 17:45	1
<b>Nickel</b>	<b>0.00890</b>		0.00500		mg/L		03/21/25 08:30	03/26/25 17:45	1
Selenium	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:45	1
Silver	<0.00100		0.00100		mg/L		03/21/25 08:30	03/26/25 17:45	1
Thallium	<0.00100		0.00100		mg/L		03/21/25 08:30	03/26/25 17:45	1
Vanadium	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:45	1
Zinc	<0.0200		0.0200		mg/L		03/21/25 08:30	03/26/25 17:45	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		03/28/25 11:50	03/29/25 09:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Nitrogen (EPA 350.1)	<0.500		0.500		mg/L		03/21/25 08:29	03/21/25 17:00	1
<b>Total Organic Halogens (SW846 9020B)</b>	<b>0.0658</b>		0.0600		mg/L			03/31/25 14:07	1
<b>Total Suspended Solids (USGS I-3765-85)</b>	<b>5.63</b>		1.88		mg/L			03/20/25 17:05	1
Chemical Oxygen Demand (SM 5220D)	<25.0		25.0		mg/L			03/28/25 11:05	5

# Client Sample Results

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
 SDG: Faircast Foundry Sand Fill Area

**Client Sample ID: MW-9**

**Lab Sample ID: 310-302365-5**

Date Collected: 03/18/25 12:32

Matrix: Water

Date Received: 03/19/25 15:10

**Method: SW846 9056A - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>22.6</b>		5.00		mg/L			03/25/25 13:40	5
Fluoride	<1.00		1.00		mg/L			03/25/25 13:40	5
<b>Sulfate</b>	<b>303</b>		5.00		mg/L			03/25/25 13:40	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500		mg/L		03/21/25 08:30	03/26/25 17:48	1
Antimony	<0.00200		0.00200		mg/L		03/21/25 08:30	03/26/25 17:48	1
Arsenic	<0.00200		0.00200		mg/L		03/21/25 08:30	03/26/25 17:48	1
<b>Barium</b>	<b>0.0919</b>		0.00200		mg/L		03/21/25 08:30	03/26/25 17:48	1
Beryllium	<0.00100		0.00100		mg/L		03/21/25 08:30	03/26/25 17:48	1
<b>Boron</b>	<b>0.125</b>		0.100		mg/L		03/21/25 08:30	03/27/25 14:13	1
Cadmium	<0.000200		0.000200		mg/L		03/21/25 08:30	03/26/25 17:48	1
Chromium	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:48	1
Cobalt	<0.000500		0.000500		mg/L		03/21/25 08:30	03/26/25 17:48	1
Copper	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:48	1
Iron	<0.100		0.100		mg/L		03/21/25 08:30	03/26/25 17:48	1
Lead	<0.000500		0.000500		mg/L		03/21/25 08:30	03/26/25 17:48	1
<b>Magnesium</b>	<b>40.2</b>		0.500		mg/L		03/21/25 08:30	03/26/25 17:48	1
<b>Manganese</b>	<b>0.0245</b>		0.0100		mg/L		03/21/25 08:30	03/26/25 17:48	1
<b>Molybdenum</b>	<b>0.00278</b>		0.00200		mg/L		03/21/25 08:30	03/26/25 17:48	1
Nickel	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:48	1
Selenium	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:48	1
Silver	<0.00100		0.00100		mg/L		03/21/25 08:30	03/26/25 17:48	1
Thallium	<0.00100		0.00100		mg/L		03/21/25 08:30	03/26/25 17:48	1
Vanadium	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:48	1
Zinc	<0.0200		0.0200		mg/L		03/21/25 08:30	03/26/25 17:48	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		03/28/25 11:50	03/29/25 09:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Nitrogen (EPA 350.1)	<0.500		0.500		mg/L		03/21/25 08:29	03/21/25 17:04	1
Total Organic Halogens (SW846 9020B)	<0.0600		0.0600		mg/L			03/31/25 14:07	1
<b>Total Suspended Solids (USGS I-3765-85)</b>	<b>2.13</b>		1.88		mg/L			03/20/25 17:05	1
Chemical Oxygen Demand (SM 5220D)	<25.0		25.0		mg/L			03/28/25 11:05	5

# Client Sample Results

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
 SDG: Faircast Foundry Sand Fill Area

**Client Sample ID: MW-10**  
 Date Collected: 03/18/25 11:23  
 Date Received: 03/19/25 15:10

**Lab Sample ID: 310-302365-6**  
 Matrix: Water

**Method: SW846 9056A - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.2		5.00		mg/L			03/25/25 13:55	5
Fluoride	<1.00		1.00		mg/L			03/25/25 13:55	5
Sulfate	44.2		5.00		mg/L			03/25/25 13:55	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500		mg/L		03/21/25 08:30	03/26/25 17:50	1
Antimony	<0.00200		0.00200		mg/L		03/21/25 08:30	03/26/25 17:50	1
Arsenic	<0.00200		0.00200		mg/L		03/21/25 08:30	03/26/25 17:50	1
Barium	0.0556		0.00200		mg/L		03/21/25 08:30	03/26/25 17:50	1
Beryllium	<0.00100		0.00100		mg/L		03/21/25 08:30	03/26/25 17:50	1
Boron	0.155		0.100		mg/L		03/21/25 08:30	03/27/25 14:16	1
Cadmium	<0.000200		0.000200		mg/L		03/21/25 08:30	03/26/25 17:50	1
Chromium	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:50	1
Cobalt	<0.000500		0.000500		mg/L		03/21/25 08:30	03/26/25 17:50	1
Copper	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:50	1
Iron	<0.100		0.100		mg/L		03/21/25 08:30	03/26/25 17:50	1
Lead	<0.000500		0.000500		mg/L		03/21/25 08:30	03/26/25 17:50	1
Magnesium	26.4		0.500		mg/L		03/21/25 08:30	03/26/25 17:50	1
Manganese	<0.0100		0.0100		mg/L		03/21/25 08:30	03/26/25 17:50	1
Molybdenum	0.00429		0.00200		mg/L		03/21/25 08:30	03/26/25 17:50	1
Nickel	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:50	1
Selenium	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:50	1
Silver	<0.00100		0.00100		mg/L		03/21/25 08:30	03/26/25 17:50	1
Thallium	<0.00100		0.00100		mg/L		03/21/25 08:30	03/26/25 17:50	1
Vanadium	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 17:50	1
Zinc	<0.0200		0.0200		mg/L		03/21/25 08:30	03/26/25 17:50	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		03/28/25 11:50	03/29/25 09:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Nitrogen (EPA 350.1)	<0.500		0.500		mg/L		03/21/25 08:29	03/21/25 16:59	1
Total Organic Halogens (SW846 9020B)	<0.0600		0.0600		mg/L			03/31/25 14:07	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88		mg/L			03/20/25 18:20	1
Chemical Oxygen Demand (SM 5220D)	<25.0		25.0		mg/L			03/28/25 11:05	5

# Client Sample Results

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
 SDG: Faircast Foundry Sand Fill Area

**Client Sample ID: MW-D**

**Lab Sample ID: 310-302365-7**

Date Collected: 03/18/25 15:27

Matrix: Water

Date Received: 03/19/25 15:10

**Method: SW846 9056A - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.9		5.00		mg/L			03/25/25 14:11	5
Fluoride	<1.00		1.00		mg/L			03/25/25 14:11	5
Sulfate	58.0		5.00		mg/L			03/25/25 14:11	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2.57		0.0500		mg/L		03/25/25 09:00	03/26/25 18:45	1
Antimony	<0.00200		0.00200		mg/L		03/25/25 09:00	03/26/25 18:45	1
Arsenic	<0.00200		0.00200		mg/L		03/25/25 09:00	03/26/25 18:45	1
Barium	0.114		0.00200		mg/L		03/25/25 09:00	03/26/25 18:45	1
Beryllium	<0.00100		0.00100		mg/L		03/25/25 09:00	03/26/25 18:45	1
Boron	0.100		0.100		mg/L		03/25/25 09:00	03/27/25 12:37	1
Cadmium	<0.000200		0.000200		mg/L		03/25/25 09:00	03/26/25 18:45	1
Chromium	<0.00500		0.00500		mg/L		03/25/25 09:00	03/26/25 18:45	1
Cobalt	<0.000500		0.000500		mg/L		03/25/25 09:00	03/26/25 18:45	1
Copper	<0.00500		0.00500		mg/L		03/25/25 09:00	03/26/25 18:45	1
Iron	1.48		0.100		mg/L		03/25/25 09:00	03/26/25 18:45	1
Lead	0.000695		0.000500		mg/L		03/25/25 09:00	03/26/25 18:45	1
Magnesium	13.0		0.500		mg/L		03/25/25 09:00	03/26/25 18:45	1
Manganese	0.0192		0.0100		mg/L		03/25/25 09:00	03/26/25 18:45	1
Molybdenum	0.00696		0.00200		mg/L		03/25/25 09:00	03/26/25 18:45	1
Nickel	<0.00500		0.00500		mg/L		03/25/25 09:00	03/26/25 18:45	1
Selenium	<0.00500		0.00500		mg/L		03/25/25 09:00	03/26/25 18:45	1
Silver	<0.00100		0.00100		mg/L		03/25/25 09:00	03/26/25 18:45	1
Thallium	<0.00100		0.00100		mg/L		03/25/25 09:00	03/26/25 18:45	1
Vanadium	<0.00500		0.00500		mg/L		03/25/25 09:00	03/26/25 18:45	1
Zinc	<0.0200		0.0200		mg/L		03/25/25 09:00	03/26/25 18:45	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		03/28/25 11:50	03/29/25 09:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Nitrogen (EPA 350.1)	<0.500		0.500		mg/L		03/21/25 08:29	03/21/25 16:57	1
Total Organic Halogens (SW846 9020B)	<0.0600		0.0600		mg/L			03/31/25 14:07	1
Total Suspended Solids (USGS I-3765-85)	20.3		5.00		mg/L			03/20/25 17:05	1
Chemical Oxygen Demand (SM 5220D)	31.0		25.0		mg/L			03/28/25 11:05	5

# Definitions/Glossary

Client: SCS Engineers  
Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
SDG: Faircast Foundry Sand Fill Area

## 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

# QC Sample Results

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
 SDG: Faircast Foundry Sand Fill Area

## Method: 9056A - Anions, Ion Chromatography

**Lab Sample ID: MB 310-449797/3**  
**Matrix: Water**  
**Analysis Batch: 449797**

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<1.00		1.00		mg/L			03/25/25 09:31	1
Fluoride	<0.200		0.200		mg/L			03/25/25 09:31	1
Sulfate	<1.00		1.00		mg/L			03/25/25 09:31	1

**Lab Sample ID: LCS 310-449797/4**  
**Matrix: Water**  
**Analysis Batch: 449797**

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Chloride	10.0	9.622		mg/L		96	90 - 110	
Fluoride	2.00	1.945		mg/L		97	90 - 110	
Sulfate	10.0	9.669		mg/L		97	90 - 110	

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

**Lab Sample ID: MB 310-449393/1-A**  
**Matrix: Water**  
**Analysis Batch: 449894**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 449393**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	<0.0500		0.0500		mg/L		03/21/25 08:30	03/26/25 16:38	1
Antimony	<0.00200		0.00200		mg/L		03/21/25 08:30	03/26/25 16:38	1
Arsenic	<0.00200		0.00200		mg/L		03/21/25 08:30	03/26/25 16:38	1
Barium	<0.00200		0.00200		mg/L		03/21/25 08:30	03/26/25 16:38	1
Beryllium	<0.00100		0.00100		mg/L		03/21/25 08:30	03/26/25 16:38	1
Cadmium	<0.000200		0.000200		mg/L		03/21/25 08:30	03/26/25 16:38	1
Chromium	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 16:38	1
Cobalt	<0.000500		0.000500		mg/L		03/21/25 08:30	03/26/25 16:38	1
Copper	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 16:38	1
Iron	<0.100		0.100		mg/L		03/21/25 08:30	03/26/25 16:38	1
Lead	<0.000500		0.000500		mg/L		03/21/25 08:30	03/26/25 16:38	1
Magnesium	<0.500		0.500		mg/L		03/21/25 08:30	03/26/25 16:38	1
Manganese	<0.0100		0.0100		mg/L		03/21/25 08:30	03/26/25 16:38	1
Molybdenum	<0.00200		0.00200		mg/L		03/21/25 08:30	03/26/25 16:38	1
Nickel	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 16:38	1
Selenium	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 16:38	1
Silver	<0.00100		0.00100		mg/L		03/21/25 08:30	03/26/25 16:38	1
Thallium	<0.00100		0.00100		mg/L		03/21/25 08:30	03/26/25 16:38	1
Vanadium	<0.00500		0.00500		mg/L		03/21/25 08:30	03/26/25 16:38	1
Zinc	<0.0200		0.0200		mg/L		03/21/25 08:30	03/26/25 16:38	1

**Lab Sample ID: MB 310-449393/1-A**  
**Matrix: Water**  
**Analysis Batch: 449895**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 449393**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.100		0.100		mg/L		03/21/25 08:30	03/27/25 12:45	1

# QC Sample Results

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
 SDG: Faircast Foundry Sand Fill Area

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

**Lab Sample ID: LCS 310-449393/2-A**  
**Matrix: Water**  
**Analysis Batch: 449894**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 449393**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Aluminum	0.200	0.2086		mg/L		104	80 - 120	
Antimony	0.200	0.2225		mg/L		111	80 - 120	
Arsenic	0.200	0.2028		mg/L		101	80 - 120	
Barium	0.100	0.1026		mg/L		103	80 - 120	
Beryllium	0.100	0.09524		mg/L		95	80 - 120	
Cadmium	0.100	0.09893		mg/L		99	80 - 120	
Chromium	0.100	0.1007		mg/L		101	80 - 120	
Cobalt	0.100	0.1065		mg/L		107	80 - 120	
Copper	0.200	0.2038		mg/L		102	80 - 120	
Iron	0.200	0.2101		mg/L		105	80 - 120	
Lead	0.200	0.2093		mg/L		105	80 - 120	
Magnesium	2.00	2.016		mg/L		101	80 - 120	
Manganese	0.100	0.09713		mg/L		97	80 - 120	
Molybdenum	0.200	0.2036		mg/L		102	80 - 120	
Nickel	0.200	0.1985		mg/L		99	80 - 120	
Selenium	0.400	0.3826		mg/L		96	80 - 120	
Silver	0.100	0.1054		mg/L		105	80 - 120	
Thallium	0.100	0.08800		mg/L		88	80 - 120	
Vanadium	0.100	0.09649		mg/L		96	80 - 120	
Zinc	0.200	0.1898		mg/L		95	80 - 120	

**Lab Sample ID: LCS 310-449393/2-A**  
**Matrix: Water**  
**Analysis Batch: 449895**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 449393**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Boron	0.200	0.2301		mg/L		115	80 - 120	

**Lab Sample ID: MB 310-449655/1-A**  
**Matrix: Water**  
**Analysis Batch: 449894**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 449655**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	<0.0500		0.0500		mg/L		03/25/25 09:00	03/26/25 17:55	1
Antimony	<0.00200		0.00200		mg/L		03/25/25 09:00	03/26/25 17:55	1
Arsenic	<0.00200		0.00200		mg/L		03/25/25 09:00	03/26/25 17:55	1
Barium	<0.00200		0.00200		mg/L		03/25/25 09:00	03/26/25 17:55	1
Beryllium	<0.00100		0.00100		mg/L		03/25/25 09:00	03/26/25 17:55	1
Cadmium	<0.000200		0.000200		mg/L		03/25/25 09:00	03/26/25 17:55	1
Chromium	<0.00500		0.00500		mg/L		03/25/25 09:00	03/26/25 17:55	1
Cobalt	<0.000500		0.000500		mg/L		03/25/25 09:00	03/26/25 17:55	1
Copper	<0.00500		0.00500		mg/L		03/25/25 09:00	03/26/25 17:55	1
Iron	<0.100		0.100		mg/L		03/25/25 09:00	03/26/25 17:55	1
Lead	<0.000500		0.000500		mg/L		03/25/25 09:00	03/26/25 17:55	1
Magnesium	<0.500		0.500		mg/L		03/25/25 09:00	03/26/25 17:55	1
Manganese	<0.0100		0.0100		mg/L		03/25/25 09:00	03/26/25 17:55	1
Molybdenum	<0.00200		0.00200		mg/L		03/25/25 09:00	03/26/25 17:55	1
Nickel	<0.00500		0.00500		mg/L		03/25/25 09:00	03/26/25 17:55	1
Selenium	<0.00500		0.00500		mg/L		03/25/25 09:00	03/26/25 17:55	1

Eurofins Cedar Falls

# QC Sample Results

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
 SDG: Faircast Foundry Sand Fill Area

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

**Lab Sample ID: MB 310-449655/1-A**  
**Matrix: Water**  
**Analysis Batch: 449894**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 449655**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Silver	<0.00100		0.00100		mg/L		03/25/25 09:00	03/26/25 17:55	1
Thallium	<0.00100		0.00100		mg/L		03/25/25 09:00	03/26/25 17:55	1
Vanadium	<0.00500		0.00500		mg/L		03/25/25 09:00	03/26/25 17:55	1
Zinc	<0.0200		0.0200		mg/L		03/25/25 09:00	03/26/25 17:55	1

**Lab Sample ID: MB 310-449655/1-A**  
**Matrix: Water**  
**Analysis Batch: 449895**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 449655**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.100		0.100		mg/L		03/25/25 09:00	03/27/25 14:22	1

**Lab Sample ID: LCS 310-449655/2-A**  
**Matrix: Water**  
**Analysis Batch: 449894**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 449655**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Aluminum	0.200	0.2165		mg/L		108	80 - 120
Antimony	0.200	0.2278		mg/L		114	80 - 120
Arsenic	0.200	0.2090		mg/L		105	80 - 120
Barium	0.100	0.1055		mg/L		106	80 - 120
Beryllium	0.100	0.09534		mg/L		95	80 - 120
Cadmium	0.100	0.09955		mg/L		100	80 - 120
Chromium	0.100	0.1040		mg/L		104	80 - 120
Cobalt	0.100	0.1099		mg/L		110	80 - 120
Copper	0.200	0.2122		mg/L		106	80 - 120
Iron	0.200	0.2102		mg/L		105	80 - 120
Lead	0.200	0.2186		mg/L		109	80 - 120
Magnesium	2.00	2.023		mg/L		101	80 - 120
Manganese	0.100	0.09766		mg/L		98	80 - 120
Molybdenum	0.200	0.2117		mg/L		106	80 - 120
Nickel	0.200	0.2051		mg/L		103	80 - 120
Selenium	0.400	0.3929		mg/L		98	80 - 120
Silver	0.100	0.1059		mg/L		106	80 - 120
Thallium	0.100	0.08842		mg/L		88	80 - 120
Vanadium	0.100	0.1020		mg/L		102	80 - 120
Zinc	0.200	0.1923		mg/L		96	80 - 120

**Lab Sample ID: LCS 310-449655/2-A**  
**Matrix: Water**  
**Analysis Batch: 449895**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 449655**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Boron	0.200	0.2114		mg/L		106	80 - 120

# QC Sample Results

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
 SDG: Faircast Foundry Sand Fill Area

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

**Lab Sample ID: 310-302365-7 DU**  
**Matrix: Water**  
**Analysis Batch: 449894**

**Client Sample ID: MW-D**  
**Prep Type: Total/NA**  
**Prep Batch: 449655**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Aluminum	2.57		2.415		mg/L		6	20
Antimony	<0.00200		<0.00200		mg/L		NC	20
Arsenic	<0.00200		<0.00200		mg/L		NC	20
Barium	0.114		0.1149		mg/L		0.7	20
Beryllium	<0.00100		<0.00100		mg/L		NC	20
Cadmium	<0.000200		<0.000200		mg/L		NC	20
Chromium	<0.00500		<0.00500		mg/L		NC	20
Cobalt	<0.000500		<0.000500		mg/L		NC	20
Copper	<0.00500		<0.00500		mg/L		NC	20
Iron	1.48		1.433		mg/L		3	20
Lead	0.000695		0.0006610		mg/L		5	20
Magnesium	13.0		12.91		mg/L		0.5	20
Manganese	0.0192		0.01874		mg/L		2	20
Molybdenum	0.00696		0.006897		mg/L		1	20
Nickel	<0.00500		<0.00500		mg/L		NC	20
Selenium	<0.00500		<0.00500		mg/L		NC	20
Silver	<0.00100		<0.00100		mg/L		NC	20
Thallium	<0.00100		<0.00100		mg/L		NC	20
Vanadium	<0.00500		<0.00500		mg/L		NC	20
Zinc	<0.0200		<0.0200		mg/L		NC	20

**Lab Sample ID: 310-302365-7 DU**  
**Matrix: Water**  
**Analysis Batch: 449985**

**Client Sample ID: MW-D**  
**Prep Type: Total/NA**  
**Prep Batch: 449655**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Boron	0.100		<0.100		mg/L		NC	20

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 310-450061/1-A**  
**Matrix: Water**  
**Analysis Batch: 450149**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 450061**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.000200		0.000200		mg/L		03/28/25 11:50	03/29/25 08:51	1

**Lab Sample ID: LCS 310-450061/2-A**  
**Matrix: Water**  
**Analysis Batch: 450149**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 450061**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Mercury	0.00167	0.001674		mg/L		100	80 - 120

# QC Sample Results

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
 SDG: Faircast Foundry Sand Fill Area

## Method: 350.1 - Nitrogen, Ammonia

**Lab Sample ID: MB 310-449462/1-A**  
**Matrix: Water**  
**Analysis Batch: 449529**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 449462**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Nitrogen	<0.500		0.500		mg/L		03/21/25 08:29	03/21/25 16:55	1

**Lab Sample ID: LCS 310-449462/2-A**  
**Matrix: Water**  
**Analysis Batch: 449529**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 449462**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia, Nitrogen	4.00	3.918		mg/L		98	90 - 110

**Lab Sample ID: 310-302365-7 MS**  
**Matrix: Water**  
**Analysis Batch: 449529**

**Client Sample ID: MW-D**  
**Prep Type: Total/NA**  
**Prep Batch: 449462**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia, Nitrogen	<0.500		4.00	3.932		mg/L		98	90 - 110

**Lab Sample ID: 310-302365-7 MSD**  
**Matrix: Water**  
**Analysis Batch: 449529**

**Client Sample ID: MW-D**  
**Prep Type: Total/NA**  
**Prep Batch: 449462**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia, Nitrogen	<0.500		4.00	3.775		mg/L		94	90 - 110	4	14

## Method: 9020B - Organic Halides, Total (TOX)

**Lab Sample ID: MB 280-689744/2**  
**Matrix: Water**  
**Analysis Batch: 689744**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halogens	<0.0300		0.0300		mg/L			03/31/25 14:07	1

**Lab Sample ID: LCS 280-689744/4**  
**Matrix: Water**  
**Analysis Batch: 689744**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Halogens	0.100	0.1052		mg/L		105	78 - 114

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

**Lab Sample ID: MB 310-449425/1**  
**Matrix: Water**  
**Analysis Batch: 449425**

**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		mg/L			03/20/25 17:05	1

# QC Sample Results

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
 SDG: Faircast Foundry Sand Fill Area

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

**Lab Sample ID: LCS 310-449425/2**  
**Matrix: Water**  
**Analysis Batch: 449425**

**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	88.00		mg/L		88	81 - 116

**Lab Sample ID: MB 310-449438/1**  
**Matrix: Water**  
**Analysis Batch: 449438**

**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		mg/L			03/20/25 18:20	1

**Lab Sample ID: LCS 310-449438/2**  
**Matrix: Water**  
**Analysis Batch: 449438**

**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	93.00		mg/L		93	81 - 116

## Method: SM 5220D - COD

**Lab Sample ID: MB 310-450066/32**  
**Matrix: Water**  
**Analysis Batch: 450066**

**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		mg/L			03/28/25 11:05	1

**Lab Sample ID: MB 310-450066/60**  
**Matrix: Water**  
**Analysis Batch: 450066**

**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		mg/L			03/28/25 11:05	1

**Lab Sample ID: LCS 310-450066/33**  
**Matrix: Water**  
**Analysis Batch: 450066**

**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	125	126.9		mg/L		101	85 - 110

**Lab Sample ID: LCS 310-450066/63**  
**Matrix: Water**  
**Analysis Batch: 450066**

**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	125	127.9		mg/L		102	85 - 110

# QC Association Summary

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
 SDG: Faircast Foundry Sand Fill Area

## HPLC/IC

### Analysis Batch: 449797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302365-1	MW-5	Total/NA	Water	9056A	
310-302365-2	MW-6	Total/NA	Water	9056A	
310-302365-3	MW-7	Total/NA	Water	9056A	
310-302365-4	MW-8	Total/NA	Water	9056A	
310-302365-4	MW-8	Total/NA	Water	9056A	
310-302365-5	MW-9	Total/NA	Water	9056A	
310-302365-6	MW-10	Total/NA	Water	9056A	
310-302365-7	MW-D	Total/NA	Water	9056A	
MB 310-449797/3	Method Blank	Total/NA	Water	9056A	
LCS 310-449797/4	Lab Control Sample	Total/NA	Water	9056A	

## Metals

### Prep Batch: 449393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302365-1	MW-5	Total/NA	Water	3005A	
310-302365-2	MW-6	Total/NA	Water	3005A	
310-302365-3	MW-7	Total/NA	Water	3005A	
310-302365-4	MW-8	Total/NA	Water	3005A	
310-302365-5	MW-9	Total/NA	Water	3005A	
310-302365-6	MW-10	Total/NA	Water	3005A	
MB 310-449393/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-449393/2-A	Lab Control Sample	Total/NA	Water	3005A	

### Prep Batch: 449655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302365-7	MW-D	Total/NA	Water	3005A	
MB 310-449655/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-449655/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-302365-7 DU	MW-D	Total/NA	Water	3005A	

### Analysis Batch: 449894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302365-1	MW-5	Total/NA	Water	6020B	449393
310-302365-2	MW-6	Total/NA	Water	6020B	449393
310-302365-3	MW-7	Total/NA	Water	6020B	449393
310-302365-4	MW-8	Total/NA	Water	6020B	449393
310-302365-5	MW-9	Total/NA	Water	6020B	449393
310-302365-6	MW-10	Total/NA	Water	6020B	449393
310-302365-7	MW-D	Total/NA	Water	6020B	449655
MB 310-449393/1-A	Method Blank	Total/NA	Water	6020B	449393
MB 310-449655/1-A	Method Blank	Total/NA	Water	6020B	449655
LCS 310-449393/2-A	Lab Control Sample	Total/NA	Water	6020B	449393
LCS 310-449655/2-A	Lab Control Sample	Total/NA	Water	6020B	449655
310-302365-7 DU	MW-D	Total/NA	Water	6020B	449655

### Analysis Batch: 449985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302365-1	MW-5	Total/NA	Water	6020B	449393
310-302365-2	MW-6	Total/NA	Water	6020B	449393
310-302365-3	MW-7	Total/NA	Water	6020B	449393

# QC Association Summary

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
 SDG: Faircast Foundry Sand Fill Area

## Metals (Continued)

### Analysis Batch: 449985 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302365-4	MW-8	Total/NA	Water	6020B	449393
310-302365-5	MW-9	Total/NA	Water	6020B	449393
310-302365-6	MW-10	Total/NA	Water	6020B	449393
310-302365-7	MW-D	Total/NA	Water	6020B	449655
MB 310-449393/1-A	Method Blank	Total/NA	Water	6020B	449393
MB 310-449655/1-A	Method Blank	Total/NA	Water	6020B	449655
LCS 310-449393/2-A	Lab Control Sample	Total/NA	Water	6020B	449393
LCS 310-449655/2-A	Lab Control Sample	Total/NA	Water	6020B	449655
310-302365-7 DU	MW-D	Total/NA	Water	6020B	449655

### Prep Batch: 450061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302365-1	MW-5	Total/NA	Water	7470A	
310-302365-2	MW-6	Total/NA	Water	7470A	
310-302365-3	MW-7	Total/NA	Water	7470A	
310-302365-4	MW-8	Total/NA	Water	7470A	
310-302365-5	MW-9	Total/NA	Water	7470A	
310-302365-6	MW-10	Total/NA	Water	7470A	
310-302365-7	MW-D	Total/NA	Water	7470A	
MB 310-450061/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-450061/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 450149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302365-1	MW-5	Total/NA	Water	7470A	450061
310-302365-2	MW-6	Total/NA	Water	7470A	450061
310-302365-3	MW-7	Total/NA	Water	7470A	450061
310-302365-4	MW-8	Total/NA	Water	7470A	450061
310-302365-5	MW-9	Total/NA	Water	7470A	450061
310-302365-6	MW-10	Total/NA	Water	7470A	450061
310-302365-7	MW-D	Total/NA	Water	7470A	450061
MB 310-450061/1-A	Method Blank	Total/NA	Water	7470A	450061
LCS 310-450061/2-A	Lab Control Sample	Total/NA	Water	7470A	450061

## General Chemistry

### Analysis Batch: 449425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302365-1	MW-5	Total/NA	Water	I-3765-85	
310-302365-2	MW-6	Total/NA	Water	I-3765-85	
310-302365-3	MW-7	Total/NA	Water	I-3765-85	
310-302365-4	MW-8	Total/NA	Water	I-3765-85	
310-302365-5	MW-9	Total/NA	Water	I-3765-85	
310-302365-7	MW-D	Total/NA	Water	I-3765-85	
MB 310-449425/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-449425/2	Lab Control Sample	Total/NA	Water	I-3765-85	

### Analysis Batch: 449438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302365-6	MW-10	Total/NA	Water	I-3765-85	
MB 310-449438/1	Method Blank	Total/NA	Water	I-3765-85	

# QC Association Summary

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
 SDG: Faircast Foundry Sand Fill Area

## General Chemistry (Continued)

### Analysis Batch: 449438 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-449438/2	Lab Control Sample	Total/NA	Water	I-3765-85	

### Prep Batch: 449462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302365-1	MW-5	Total/NA	Water	Distill/Ammonia	
310-302365-2	MW-6	Total/NA	Water	Distill/Ammonia	
310-302365-3	MW-7	Total/NA	Water	Distill/Ammonia	
310-302365-4	MW-8	Total/NA	Water	Distill/Ammonia	
310-302365-5	MW-9	Total/NA	Water	Distill/Ammonia	
310-302365-6	MW-10	Total/NA	Water	Distill/Ammonia	
310-302365-7	MW-D	Total/NA	Water	Distill/Ammonia	
MB 310-449462/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 310-449462/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
310-302365-7 MS	MW-D	Total/NA	Water	Distill/Ammonia	
310-302365-7 MSD	MW-D	Total/NA	Water	Distill/Ammonia	

### Analysis Batch: 449529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302365-1	MW-5	Total/NA	Water	350.1	449462
310-302365-2	MW-6	Total/NA	Water	350.1	449462
310-302365-3	MW-7	Total/NA	Water	350.1	449462
310-302365-4	MW-8	Total/NA	Water	350.1	449462
310-302365-5	MW-9	Total/NA	Water	350.1	449462
310-302365-6	MW-10	Total/NA	Water	350.1	449462
310-302365-7	MW-D	Total/NA	Water	350.1	449462
MB 310-449462/1-A	Method Blank	Total/NA	Water	350.1	449462
LCS 310-449462/2-A	Lab Control Sample	Total/NA	Water	350.1	449462
310-302365-7 MS	MW-D	Total/NA	Water	350.1	449462
310-302365-7 MSD	MW-D	Total/NA	Water	350.1	449462

### Analysis Batch: 450066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302365-1	MW-5	Total/NA	Water	SM 5220D	
310-302365-2	MW-6	Total/NA	Water	SM 5220D	
310-302365-3	MW-7	Total/NA	Water	SM 5220D	
310-302365-4	MW-8	Total/NA	Water	SM 5220D	
310-302365-5	MW-9	Total/NA	Water	SM 5220D	
310-302365-6	MW-10	Total/NA	Water	SM 5220D	
310-302365-7	MW-D	Total/NA	Water	SM 5220D	
MB 310-450066/32	Method Blank	Total/NA	Water	SM 5220D	
MB 310-450066/60	Method Blank	Total/NA	Water	SM 5220D	
LCS 310-450066/33	Lab Control Sample	Total/NA	Water	SM 5220D	
LCS 310-450066/63	Lab Control Sample	Total/NA	Water	SM 5220D	

### Analysis Batch: 689744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302365-1	MW-5	Total/NA	Water	9020B	
310-302365-2	MW-6	Total/NA	Water	9020B	
310-302365-3	MW-7	Total/NA	Water	9020B	
310-302365-4	MW-8	Total/NA	Water	9020B	
310-302365-5	MW-9	Total/NA	Water	9020B	

Eurofins Cedar Falls

# QC Association Summary

Client: SCS Engineers  
Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
SDG: Faircast Foundry Sand Fill Area

## General Chemistry (Continued)

### Analysis Batch: 689744 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-302365-6	MW-10	Total/NA	Water	9020B	
310-302365-7	MW-D	Total/NA	Water	9020B	
MB 280-689744/2	Method Blank	Total/NA	Water	9020B	
LCS 280-689744/4	Lab Control Sample	Total/NA	Water	9020B	

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

# Lab Chronicle

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
 SDG: Faircast Foundry Sand Fill Area

**Client Sample ID: MW-5**  
**Date Collected: 03/18/25 16:22**  
**Date Received: 03/19/25 15:10**

**Lab Sample ID: 310-302365-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	449797	QTZ5	EET CF	03/25/25 12:38
Total/NA	Prep	3005A			449393	F5MW	EET CF	03/21/25 08:30
Total/NA	Analysis	6020B		1	449894	NFT2	EET CF	03/26/25 17:38
Total/NA	Prep	3005A			449393	F5MW	EET CF	03/21/25 08:30
Total/NA	Analysis	6020B		1	449985	NFT2	EET CF	03/27/25 13:53
Total/NA	Prep	7470A			450061	QTZ5	EET CF	03/28/25 11:50
Total/NA	Analysis	7470A		1	450149	QTZ5	EET CF	03/29/25 09:29
Total/NA	Prep	Distill/Ammonia			449462	RLT9	EET CF	03/21/25 08:29
Total/NA	Analysis	350.1		1	449529	ZJX4	EET CF	03/21/25 17:06
Total/NA	Analysis	9020B		1	689744	CAI	EET DEN	03/31/25 14:07
Total/NA	Analysis	I-3765-85		1	449425	XJ7V	EET CF	03/20/25 17:05
Total/NA	Analysis	SM 5220D		5	450066	HE7K	EET CF	03/28/25 11:05

**Client Sample ID: MW-6**  
**Date Collected: 03/18/25 15:27**  
**Date Received: 03/19/25 15:10**

**Lab Sample ID: 310-302365-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	449797	QTZ5	EET CF	03/25/25 12:53
Total/NA	Prep	3005A			449393	F5MW	EET CF	03/21/25 08:30
Total/NA	Analysis	6020B		1	449894	NFT2	EET CF	03/26/25 17:41
Total/NA	Prep	3005A			449393	F5MW	EET CF	03/21/25 08:30
Total/NA	Analysis	6020B		1	449985	NFT2	EET CF	03/27/25 13:56
Total/NA	Prep	7470A			450061	QTZ5	EET CF	03/28/25 11:50
Total/NA	Analysis	7470A		1	450149	QTZ5	EET CF	03/29/25 09:32
Total/NA	Prep	Distill/Ammonia			449462	RLT9	EET CF	03/21/25 08:29
Total/NA	Analysis	350.1		1	449529	ZJX4	EET CF	03/21/25 17:06
Total/NA	Analysis	9020B		1	689744	CAI	EET DEN	03/31/25 14:07
Total/NA	Analysis	I-3765-85		1	449425	XJ7V	EET CF	03/20/25 17:05
Total/NA	Analysis	SM 5220D		5	450066	HE7K	EET CF	03/28/25 11:05

**Client Sample ID: MW-7**  
**Date Collected: 03/18/25 14:34**  
**Date Received: 03/19/25 15:10**

**Lab Sample ID: 310-302365-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	449797	QTZ5	EET CF	03/25/25 13:08
Total/NA	Prep	3005A			449393	F5MW	EET CF	03/21/25 08:30
Total/NA	Analysis	6020B		1	449894	NFT2	EET CF	03/26/25 17:43
Total/NA	Prep	3005A			449393	F5MW	EET CF	03/21/25 08:30
Total/NA	Analysis	6020B		1	449985	NFT2	EET CF	03/27/25 13:59
Total/NA	Prep	7470A			450061	QTZ5	EET CF	03/28/25 11:50
Total/NA	Analysis	7470A		1	450149	QTZ5	EET CF	03/29/25 09:34

# Lab Chronicle

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
 SDG: Faircast Foundry Sand Fill Area

**Client Sample ID: MW-7**  
 Date Collected: 03/18/25 14:34  
 Date Received: 03/19/25 15:10

**Lab Sample ID: 310-302365-3**  
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	Distill/Ammonia			449462	RLT9	EET CF	03/21/25 08:29
Total/NA	Analysis	350.1		1	449529	ZJX4	EET CF	03/21/25 17:07
Total/NA	Analysis	9020B		1	689744	CAI	EET DEN	03/31/25 14:07
Total/NA	Analysis	I-3765-85		1	449425	XJ7V	EET CF	03/20/25 17:05
Total/NA	Analysis	SM 5220D		5	450066	HE7K	EET CF	03/28/25 11:05

**Client Sample ID: MW-8**  
 Date Collected: 03/18/25 13:40  
 Date Received: 03/19/25 15:10

**Lab Sample ID: 310-302365-4**  
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	449797	QTZ5	EET CF	03/25/25 13:24
Total/NA	Analysis	9056A		20	449797	QTZ5	EET CF	03/25/25 18:05
Total/NA	Prep	3005A			449393	F5MW	EET CF	03/21/25 08:30
Total/NA	Analysis	6020B		1	449894	NFT2	EET CF	03/26/25 17:45
Total/NA	Prep	3005A			449393	F5MW	EET CF	03/21/25 08:30
Total/NA	Analysis	6020B		4	449985	NFT2	EET CF	03/27/25 14:02
Total/NA	Prep	7470A			450061	QTZ5	EET CF	03/28/25 11:50
Total/NA	Analysis	7470A		1	450149	QTZ5	EET CF	03/29/25 09:36
Total/NA	Prep	Distill/Ammonia			449462	RLT9	EET CF	03/21/25 08:29
Total/NA	Analysis	350.1		1	449529	ZJX4	EET CF	03/21/25 17:00
Total/NA	Analysis	9020B		1	689744	CAI	EET DEN	03/31/25 14:07
Total/NA	Analysis	I-3765-85		1	449425	XJ7V	EET CF	03/20/25 17:05
Total/NA	Analysis	SM 5220D		5	450066	HE7K	EET CF	03/28/25 11:05

**Client Sample ID: MW-9**  
 Date Collected: 03/18/25 12:32  
 Date Received: 03/19/25 15:10

**Lab Sample ID: 310-302365-5**  
 Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	449797	QTZ5	EET CF	03/25/25 13:40
Total/NA	Prep	3005A			449393	F5MW	EET CF	03/21/25 08:30
Total/NA	Analysis	6020B		1	449894	NFT2	EET CF	03/26/25 17:48
Total/NA	Prep	3005A			449393	F5MW	EET CF	03/21/25 08:30
Total/NA	Analysis	6020B		1	449985	NFT2	EET CF	03/27/25 14:13
Total/NA	Prep	7470A			450061	QTZ5	EET CF	03/28/25 11:50
Total/NA	Analysis	7470A		1	450149	QTZ5	EET CF	03/29/25 09:38
Total/NA	Prep	Distill/Ammonia			449462	RLT9	EET CF	03/21/25 08:29
Total/NA	Analysis	350.1		1	449529	ZJX4	EET CF	03/21/25 17:04
Total/NA	Analysis	9020B		1	689744	CAI	EET DEN	03/31/25 14:07
Total/NA	Analysis	I-3765-85		1	449425	XJ7V	EET CF	03/20/25 17:05
Total/NA	Analysis	SM 5220D		5	450066	HE7K	EET CF	03/28/25 11:05

# Lab Chronicle

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
 SDG: Faircast Foundry Sand Fill Area

**Client Sample ID: MW-10**

**Lab Sample ID: 310-302365-6**

Date Collected: 03/18/25 11:23

Matrix: Water

Date Received: 03/19/25 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	449797	QTZ5	EET CF	03/25/25 13:55
Total/NA	Prep	3005A			449393	F5MW	EET CF	03/21/25 08:30
Total/NA	Analysis	6020B		1	449894	NFT2	EET CF	03/26/25 17:50
Total/NA	Prep	3005A			449393	F5MW	EET CF	03/21/25 08:30
Total/NA	Analysis	6020B		1	449985	NFT2	EET CF	03/27/25 14:16
Total/NA	Prep	7470A			450061	QTZ5	EET CF	03/28/25 11:50
Total/NA	Analysis	7470A		1	450149	QTZ5	EET CF	03/29/25 09:40
Total/NA	Prep	Distill/Ammonia			449462	RLT9	EET CF	03/21/25 08:29
Total/NA	Analysis	350.1		1	449529	ZJX4	EET CF	03/21/25 16:59
Total/NA	Analysis	9020B		1	689744	CAI	EET DEN	03/31/25 14:07
Total/NA	Analysis	I-3765-85		1	449438	XJ7V	EET CF	03/20/25 18:20
Total/NA	Analysis	SM 5220D		5	450066	HE7K	EET CF	03/28/25 11:05

**Client Sample ID: MW-D**

**Lab Sample ID: 310-302365-7**

Date Collected: 03/18/25 15:27

Matrix: Water

Date Received: 03/19/25 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	449797	QTZ5	EET CF	03/25/25 14:11
Total/NA	Prep	3005A			449655	Y3EC	EET CF	03/25/25 09:00
Total/NA	Analysis	6020B		1	449894	NFT2	EET CF	03/26/25 18:45
Total/NA	Prep	3005A			449655	Y3EC	EET CF	03/25/25 09:00
Total/NA	Analysis	6020B		1	449985	NFT2	EET CF	03/27/25 12:37
Total/NA	Prep	7470A			450061	QTZ5	EET CF	03/28/25 11:50
Total/NA	Analysis	7470A		1	450149	QTZ5	EET CF	03/29/25 09:42
Total/NA	Prep	Distill/Ammonia			449462	RLT9	EET CF	03/21/25 08:29
Total/NA	Analysis	350.1		1	449529	ZJX4	EET CF	03/21/25 16:57
Total/NA	Analysis	9020B		1	689744	CAI	EET DEN	03/31/25 14:07
Total/NA	Analysis	I-3765-85		1	449425	XJ7V	EET CF	03/20/25 17:05
Total/NA	Analysis	SM 5220D		5	450066	HE7K	EET CF	03/28/25 11:05

**Laboratory References:**

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

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

# Accreditation/Certification Summary

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
 SDG: Faircast Foundry Sand Fill Area

## Laboratory: Eurofins Cedar Falls

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

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

## Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-26
A2LA	ISO/IEC 17025	2907.01	10-31-26
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-25
Arkansas DEQ	State	19-047-0	04-21-25
California	State	2513	01-08-26
Colorado	Petroleum Storage Tank Program	2907.01 (A2LA)	10-31-26
Colorado	State	CO00026	06-30-25
Connecticut	State	PH-0686	09-30-26
Florida	NELAP	E87667	06-30-25
Georgia	State	4025	01-08-26
Illinois	NELAP	200017	05-31-25
Iowa	State	370	12-01-26
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-25
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-25
Minnesota	NELAP	1788752	12-31-25
Nevada	State	CO00026	07-31-25
New Hampshire	NELAP	2053	04-28-25
New Jersey	NELAP	230001	06-30-25
New York	NELAP	11964	03-31-25
North Dakota	State	R-034	01-08-25 *
Oklahoma	NELAP	8614	08-31-25
Oregon	NELAP	4025	01-08-26
Pennsylvania	NELAP	013	07-31-25
South Carolina	State	72002001	01-18-25 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183	09-30-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO00026	07-31-25
Virginia	NELAP	460232	06-14-25
Washington	State	C583	08-03-25
West Virginia DEP	State	354	11-30-25
Wisconsin	State	999615430	08-31-25
Wyoming (UST)	A2LA	2907.01	10-31-26

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Spring 2025

Job ID: 310-302365-1  
 SDG: Faircast Foundry Sand Fill Area

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
350.1	Nitrogen, Ammonia	EPA	EET CF
9020B	Organic Halides, Total (TOX)	SW846	EET DEN
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
SM 5220D	COD	SM	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF
Distill/Ammonia	Distillation, Ammonia	None	EET CF

**Protocol References:**

- EPA = US Environmental Protection Agency
- None = None
- SM = "Standard Methods For The Examination Of Water And Wastewater"
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

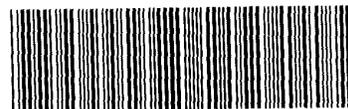
**Laboratory References:**

- EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401
- EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100





Environment Testing  
America



310-302365 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

<b>Client Information</b>		
Client: <u>SCS</u>		
City/State: <u>W. Des Moines</u> <small>CITY</small> <u>IA</u> <small>STATE</small>	Project:	
<b>Receipt Information</b>		
Date/Time Received: <u>9/19/25</u> <small>DATE</small> <u>1:10</u> <small>TIME</small>	Received By: <u>AB</u>	
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____		
<b>Condition of Cooler/Containers</b>		
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID.
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler # <u>-1</u> of <u>2</u>
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓
<b>Temperature Record</b>		
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE		
Thermometer ID: <u>2</u>	Correction Factor (°C): <u>0</u>	
• <b>Temp Blank Temperature</b> – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature		
Uncorrected Temp (°C): <u>0.8</u>	Corrected Temp (°C): <u>0.8</u>	
• <b>Sample Container Temperature</b>		
Container(s) used:	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>
Uncorrected Temp (°C):		
Corrected Temp (°C):		
<b>Exceptions Noted</b>		
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> 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?) <input type="checkbox"/> Yes <input type="checkbox"/> No		
NOTE: If yes, contact PM before proceeding. If no, proceed with login		
<b>Additional Comments</b>		

Document CED-P-SAM-FRM45521  
Revision: 26  
Date 27 Jan 2022

Eurofins Cedar Falls

General temperature criteria is 0 to 6°C  
Bacteria temperature criteria is 0 to 10°C



Environment Testing  
America

Place COC scanning label  
here

Cooler/Sample Receipt and Temperature Log Form

<b>Client Information</b>		
Client: <u>SCS</u>		
City/State: <u>W. Des Moines IA</u>	Project:	
<b>Receipt Information</b>		
Date/Time Received: <u>3/19/25</u> <u>1510</u>	Received By: <u>[Signature]</u>	
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____		
<b>Condition of Cooler/Containers</b>		
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID:
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>2</u> of <u>2</u>
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓
<b>Temperature Record</b>		
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE		
Thermometer ID: <u>Z</u>	Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature		
Uncorrected Temp (°C): <u>0.4</u>	Corrected Temp (°C): <u>0.4</u>	
<b>• Sample Container Temperature</b>		
Container(s) used.	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>
Uncorrected Temp (°C):		
Corrected Temp (°C):		
<b>Exceptions Noted</b>		
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> 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?) <input type="checkbox"/> Yes <input type="checkbox"/> No		
NOTE: If yes, contact PM before proceeding. If no, proceed with login		
<b>Additional Comments</b>		

Document CED-P-SAM-FRM45521  
Revision: 26  
Date 27 Jan 2022

Eurofins Cedar Falls

General temperature criteria is 0 to 6°C  
Bacteria temperature criteria is 0 to 10°C

**Eurofins Cedar Falls**  
 3019 Venture Way  
 Cedar Falls, IA 50613  
 Phone (319) 277-2401 Phone (319) 277-2425

estAmerica Des Moines SC  
 2 eurofins

**Chain of Custody Record**

<b>Client Information</b>		Lab PM Miller, Samuel	Carrier Tracking No(s)	COC No: 310-104687-27361 1
Sean Marczewski		E-Mail: Samuel.Miller@eurofins.com	State of Origin:	Page: Page 1 of 1
SCS Engineers		PWSID:	Job #:	
Address: 1690 All State Court, Suite 100		Due Date Requested:	Preservation Codes: S - H2SO4 N - None D - HNO3	
City: West Des Moines		TAT Requested (days):	Other:	
State, Zip: IA, 50265		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No	Total Number of Containers:	
Phone: 515-368-3155(Tel)		PO #: 27221307 00	Analysis Requested	
Email: SMarczewski@scsengineers.com		WO #:	<input type="checkbox"/> 9020B - TOX - Total Organic Halogens <input type="checkbox"/> 1,3765 - 86 - TSS <input type="checkbox"/> Metals - 6020B, 7470A <input type="checkbox"/> 9058A, ORGM, 28D - (MOD) Chloride, Fluoride and Sulfate <input type="checkbox"/> Ammonia - 3501, COD - 6220D	
Project Name: Faircast FS Groundwater Sampling Spring 2025		Project #: 31014120	Special Instructions/Note:	
Site: Faircast Foundry Sand Fill Area		SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, B=soil, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MS (Yes or No)	S	N	D	I	S	Special Instructions/Note:
MW-5	3/8/25	16 22	G	Water	X	X	X	X	X	X	X	
MW-6	3/8/25	15 27	G	Water	X	X	X	X	X	X	X	
MW-7	3/8/25	14 34	G	Water	X	X	X	X	X	X	X	
MW-8	3/8/25	13 40	G	Water	X	X	X	X	X	X	X	
MW-9	3/8/25	12 32	G	Water	X	X	X	X	X	X	X	
MW-10	3/8/25	11 23	G	Water	X	X	X	X	X	X	X	
MW-D	3/10/25	15 27	G	Water	X	X	X	X	X	X	X	

Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological

Deliverable Requested I, II, III, IV, Other (specify)

Empty Kit Relinquished by \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_  
 Relinquished by *Michael Morgan* Date *3/9/25* Time *0900* Company *SCS Engineers*  
 Relinquished by \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_ Company \_\_\_\_\_  
 Relinquished by \_\_\_\_\_ Date *3/9/25* Time *1510* Company *SCS*

Custody Seals Intact:  Custody Seal No

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Special Instructions/QC Requirements:

Method of Shipment: \_\_\_\_\_ Date/Time \_\_\_\_\_ Company \_\_\_\_\_  
 Date/Time: \_\_\_\_\_ Company \_\_\_\_\_  
 Date/Time: \_\_\_\_\_ Company \_\_\_\_\_  
 Date/Time: \_\_\_\_\_ Company \_\_\_\_\_

Cooler Temperature(s) °C and Other Remarks:





## Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-302365-1  
SDG Number: Faircast Foundry Sand Fill Area

**Login Number: 302365**

**List Number: 1**

**Creator: Homolar, Dana J**

**List Source: Eurofins Cedar Falls**

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



## Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-302365-1  
SDG Number: Faircast Foundry Sand Fill Area

**Login Number: 302365**

**List Number: 2**

**Creator: Little, Matthew L**

**List Source: Eurofins Denver**

**List Creation: 03/21/25 04:46 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
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	



# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 9/26/2025 1:28:05 PM

## JOB DESCRIPTION

Faircast FS Groundwater Sampling Fall 2025  
Faircast Foundry Sand Fill Area

## JOB NUMBER

310-315676-1

# 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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9/26/2025 1:28:05 PM

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



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# Case Narrative

Client: SCS Engineers  
Project: Faircast FS Groundwater Sampling Fall 2025

Job ID: 310-315676-1

**Job ID: 310-315676-1**

**Eurofins Cedar Falls**

## Job Narrative 310-315676-1

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 9/12/2025 4:25 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were -1.7°C and -1.2°C.

### HPLC/IC

Method 9056A\_ORGFM\_28D: The following samples were diluted due to the nature of the sample matrix: MW-5 (310-315676-1), MW-6 (310-315676-2) and MW-7 (310-315676-3). Elevated reporting limits (RLs) are provided.

Method 9056A\_ORGFM\_28D: The following samples were diluted due to the nature of the sample matrix: MW-8 (310-315676-4), MW-9 (310-315676-5), MW-10 (310-315676-6) and MW-D (310-315676-7). Elevated reporting limits (RLs) are provided.

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

### General Chemistry

Method 9020B\_Calc: The matrix spike (MS) recovery for analytical batch 280-714834 was outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 9020B\_Calc: Breakthrough exceeded 10% for the following samples: MW-8 (310-315676-4).

Method 9020B\_Calc: The following samples for batch 280-714834 (Total Organic Halides) were diluted to 2x due to the nature of the sample matrix based on CI pre-screen test: MW-5 (310-315676-1), MW-6 (310-315676-2), MW-7 (310-315676-3), MW-9 (310-315676-5), MW-10 (310-315676-6) and MW-D (310-315676-7). Elevated reporting limits (RLs) are provided.

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

Eurofins Cedar Falls

# Sample Summary

Client: SCS Engineers  
Project/Site: Faircast FS Groundwater Sampling Fall 2025

Job ID: 310-315676-1  
SDG: Faircast Foundry Sand Fill Area

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
310-315676-1	MW-5	Water	09/10/25 19:19	09/12/25 16:25	Iowa
310-315676-2	MW-6	Water	09/10/25 18:30	09/12/25 16:25	Iowa
310-315676-3	MW-7	Water	09/10/25 17:17	09/12/25 16:25	Iowa
310-315676-4	MW-8	Water	09/10/25 15:12	09/12/25 16:25	Iowa
310-315676-5	MW-9	Water	09/10/25 16:24	09/12/25 16:25	Iowa
310-315676-6	MW-10	Water	09/10/25 14:21	09/12/25 16:25	Iowa
310-315676-7	MW-D	Water	09/10/25 18:45	09/12/25 16:25	Iowa

- 1
- 2
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- 10
- 11
- 12
- 13
- 14

# Detection Summary

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Fall 2025

Job ID: 310-315676-1  
 SDG: Faircast Foundry Sand Fill Area

## Client Sample ID: MW-5

## Lab Sample ID: 310-315676-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	27.6		5.00		mg/L	5		9056A	Total/NA
Sulfate	43.7		5.00		mg/L	5		9056A	Total/NA

## Client Sample ID: MW-6

## Lab Sample ID: 310-315676-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	18.5		5.00		mg/L	5		9056A	Total/NA
Sulfate	46.4		5.00		mg/L	5		9056A	Total/NA
Total Suspended Solids	24.1		1.88		mg/L	1		I-3765-85	Total/NA

## Client Sample ID: MW-7

## Lab Sample ID: 310-315676-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	13.3		5.00		mg/L	5		9056A	Total/NA
Sulfate	29.9		5.00		mg/L	5		9056A	Total/NA
Ammonia as N	3.07		0.500		mg/L	1		350.1	Total/NA
Total Suspended Solids	12.8		1.88		mg/L	1		I-3765-85	Total/NA
Chemical Oxygen Demand	41.7		25.0		mg/L	5		SM 5220D	Total/NA

## Client Sample ID: MW-8

## Lab Sample ID: 310-315676-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	246		5.00		mg/L	5		9056A	Total/NA
Sulfate	1510		20.0		mg/L	20		9056A	Total/NA
Total Organic Halogens	0.0705		0.0600		mg/L	1		9020B	Total/NA
Total Suspended Solids	3.25		1.88		mg/L	1		I-3765-85	Total/NA
Chemical Oxygen Demand	28.5		25.0		mg/L	5		SM 5220D	Total/NA

## Client Sample ID: MW-9

## Lab Sample ID: 310-315676-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	32.4		5.00		mg/L	5		9056A	Total/NA
Sulfate	201		5.00		mg/L	5		9056A	Total/NA
Total Suspended Solids	2.25		1.88		mg/L	1		I-3765-85	Total/NA
Chemical Oxygen Demand	25.2		25.0		mg/L	5		SM 5220D	Total/NA

## Client Sample ID: MW-10

## Lab Sample ID: 310-315676-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20.2		5.00		mg/L	5		9056A	Total/NA
Sulfate	41.4		5.00		mg/L	5		9056A	Total/NA
Total Suspended Solids	9.00		1.88		mg/L	1		I-3765-85	Total/NA
Chemical Oxygen Demand	28.5		25.0		mg/L	5		SM 5220D	Total/NA

## Client Sample ID: MW-D

## Lab Sample ID: 310-315676-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	58.6		5.00		mg/L	5		9056A	Total/NA
Sulfate	83.6		5.00		mg/L	5		9056A	Total/NA
Total Suspended Solids	1.88		1.88		mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

# Client Sample Results

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Fall 2025

Job ID: 310-315676-1  
 SDG: Faircast Foundry Sand Fill Area

**Client Sample ID: MW-5**  
 Date Collected: 09/10/25 19:19  
 Date Received: 09/12/25 16:25

**Lab Sample ID: 310-315676-1**  
 Matrix: Water

**Method: SW846 9056A - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.6		5.00		mg/L			09/22/25 17:06	5
Fluoride	<1.00		1.00		mg/L			09/22/25 17:06	5
Sulfate	43.7		5.00		mg/L			09/22/25 17:06	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	<0.500		0.500		mg/L			09/18/25 14:57	1
Total Organic Halogens (SW846 9020B)	<0.0600	F1	0.0600		mg/L			09/24/25 23:15	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88		mg/L			09/16/25 06:17	1
Chemical Oxygen Demand (SM 5220D)	<25.0		25.0		mg/L			09/16/25 15:32	5

# Client Sample Results

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Fall 2025

Job ID: 310-315676-1  
 SDG: Faircast Foundry Sand Fill Area

**Client Sample ID: MW-6**

**Lab Sample ID: 310-315676-2**

Date Collected: 09/10/25 18:30

Matrix: Water

Date Received: 09/12/25 16:25

**Method: SW846 9056A - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>18.5</b>		5.00		mg/L			09/22/25 17:17	5
Fluoride	<1.00		1.00		mg/L			09/22/25 17:17	5
<b>Sulfate</b>	<b>46.4</b>		5.00		mg/L			09/22/25 17:17	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	<0.500		0.500		mg/L			09/18/25 15:00	1
Total Organic Halogens (SW846 9020B)	<0.0600		0.0600		mg/L			09/24/25 23:15	1
<b>Total Suspended Solids (USGS I-3765-85)</b>	<b>24.1</b>		1.88		mg/L			09/16/25 06:17	1
Chemical Oxygen Demand (SM 5220D)	<25.0		25.0		mg/L			09/16/25 15:32	5

# Client Sample Results

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Fall 2025

Job ID: 310-315676-1  
 SDG: Faircast Foundry Sand Fill Area

**Client Sample ID: MW-7**

**Lab Sample ID: 310-315676-3**

Date Collected: 09/10/25 17:17

Matrix: Water

Date Received: 09/12/25 16:25

**Method: SW846 9056A - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.3		5.00		mg/L			09/22/25 17:29	5
Fluoride	<1.00		1.00		mg/L			09/22/25 17:29	5
Sulfate	29.9		5.00		mg/L			09/22/25 17:29	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	3.07		0.500		mg/L			09/18/25 16:47	1
Total Organic Halogens (SW846 9020B)	<0.0600		0.0600		mg/L			09/24/25 23:15	1
Total Suspended Solids (USGS I-3765-85)	12.8		1.88		mg/L			09/16/25 06:17	1
Chemical Oxygen Demand (SM 5220D)	41.7		25.0		mg/L			09/18/25 11:36	5

# Client Sample Results

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Fall 2025

Job ID: 310-315676-1  
 SDG: Faircast Foundry Sand Fill Area

**Client Sample ID: MW-8**

**Lab Sample ID: 310-315676-4**

Date Collected: 09/10/25 15:12

Matrix: Water

Date Received: 09/12/25 16:25

**Method: SW846 9056A - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	246		5.00		mg/L			09/24/25 14:39	5
Fluoride	<1.00		1.00		mg/L			09/24/25 14:39	5
Sulfate	1510		20.0		mg/L			09/24/25 14:50	20

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	<0.500		0.500		mg/L			09/18/25 17:05	1
Total Organic Halogens (SW846 9020B)	0.0705		0.0600		mg/L			09/24/25 23:15	1
Total Suspended Solids (USGS I-3765-85)	3.25		1.88		mg/L			09/16/25 06:17	1
Chemical Oxygen Demand (SM 5220D)	28.5		25.0		mg/L			09/18/25 11:36	5

# Client Sample Results

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Fall 2025

Job ID: 310-315676-1  
 SDG: Faircast Foundry Sand Fill Area

**Client Sample ID: MW-9**

**Lab Sample ID: 310-315676-5**

Date Collected: 09/10/25 16:24

Matrix: Water

Date Received: 09/12/25 16:25

**Method: SW846 9056A - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.4		5.00		mg/L			09/24/25 15:01	5
Fluoride	<1.00		1.00		mg/L			09/24/25 15:01	5
Sulfate	201		5.00		mg/L			09/24/25 15:01	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	<0.500		0.500		mg/L			09/18/25 17:08	1
Total Organic Halogens (SW846 9020B)	<0.0600		0.0600		mg/L			09/24/25 23:15	1
<b>Total Suspended Solids (USGS I-3765-85)</b>	<b>2.25</b>		1.88		mg/L			09/16/25 06:17	1
<b>Chemical Oxygen Demand (SM 5220D)</b>	<b>25.2</b>		25.0		mg/L			09/18/25 11:36	5

# Client Sample Results

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Fall 2025

Job ID: 310-315676-1  
 SDG: Faircast Foundry Sand Fill Area

**Client Sample ID: MW-10**  
 Date Collected: 09/10/25 14:21  
 Date Received: 09/12/25 16:25

**Lab Sample ID: 310-315676-6**  
 Matrix: Water

**Method: SW846 9056A - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.2		5.00		mg/L			09/24/25 15:12	5
Fluoride	<1.00		1.00		mg/L			09/24/25 15:12	5
Sulfate	41.4		5.00		mg/L			09/24/25 15:12	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	<0.500		0.500		mg/L			09/18/25 17:12	1
Total Organic Halogens (SW846 9020B)	<0.0600		0.0600		mg/L			09/24/25 23:15	1
<b>Total Suspended Solids (USGS I-3765-85)</b>	<b>9.00</b>		1.88		mg/L			09/16/25 06:17	1
<b>Chemical Oxygen Demand (SM 5220D)</b>	<b>28.5</b>		25.0		mg/L			09/18/25 11:36	5

# Client Sample Results

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Fall 2025

Job ID: 310-315676-1  
 SDG: Faircast Foundry Sand Fill Area

**Client Sample ID: MW-D**

**Lab Sample ID: 310-315676-7**

Date Collected: 09/10/25 18:45

Matrix: Water

Date Received: 09/12/25 16:25

**Method: SW846 9056A - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.6		5.00		mg/L			09/24/25 15:23	5
Fluoride	<1.00		1.00		mg/L			09/24/25 15:23	5
Sulfate	83.6		5.00		mg/L			09/24/25 15:23	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	<0.500		0.500		mg/L			09/18/25 17:16	1
Total Organic Halogens (SW846 9020B)	<0.0600		0.0600		mg/L			09/24/25 23:15	1
<b>Total Suspended Solids (USGS I-3765-85)</b>	<b>1.88</b>		1.88		mg/L			09/16/25 06:17	1
Chemical Oxygen Demand (SM 5220D)	<25.0		25.0		mg/L			09/18/25 11:36	5

# Definitions/Glossary

Client: SCS Engineers  
Project/Site: Faircast FS Groundwater Sampling Fall 2025

Job ID: 310-315676-1  
SDG: Faircast Foundry Sand Fill Area

## Qualifiers

### General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

## 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

# QC Sample Results

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Fall 2025

Job ID: 310-315676-1  
 SDG: Faircast Foundry Sand Fill Area

## Method: 9056A - Anions, Ion Chromatography

**Lab Sample ID: MB 310-467758/3**  
**Matrix: Water**  
**Analysis Batch: 467758**

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<1.00		1.00		mg/L			09/22/25 12:29	1
Fluoride	<0.200		0.200		mg/L			09/22/25 12:29	1
Sulfate	<1.00		1.00		mg/L			09/22/25 12:29	1

**Lab Sample ID: LCS 310-467758/4**  
**Matrix: Water**  
**Analysis Batch: 467758**

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Chloride	10.0	9.381		mg/L		94	90 - 110	
Fluoride	2.00	1.898		mg/L		95	90 - 110	
Sulfate	10.0	10.05		mg/L		101	90 - 110	

**Lab Sample ID: MB 310-467960/3**  
**Matrix: Water**  
**Analysis Batch: 467960**

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<1.00		1.00		mg/L			09/24/25 14:06	1
Fluoride	<0.200		0.200		mg/L			09/24/25 14:06	1
Sulfate	<1.00		1.00		mg/L			09/24/25 14:06	1

**Lab Sample ID: LCS 310-467960/4**  
**Matrix: Water**  
**Analysis Batch: 467960**

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Chloride	10.0	9.309		mg/L		93	90 - 110	
Fluoride	2.00	2.029		mg/L		101	90 - 110	
Sulfate	10.0	10.05		mg/L		101	90 - 110	

## Method: 350.1 - Nitrogen, Ammonia

**Lab Sample ID: MB 310-467230/48**  
**Matrix: Water**  
**Analysis Batch: 467230**

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ammonia as N	<0.500		0.500		mg/L			09/18/25 13:10	1

**Lab Sample ID: MB 310-467230/84**  
**Matrix: Water**  
**Analysis Batch: 467230**

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ammonia as N	<0.500		0.500		mg/L			09/18/25 15:23	1

# QC Sample Results

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Fall 2025

Job ID: 310-315676-1  
 SDG: Faircast Foundry Sand Fill Area

## Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 310-467230/49  
 Matrix: Water  
 Analysis Batch: 467230

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	2.26	2.228		mg/L		99	90 - 110

Lab Sample ID: LCS 310-467230/85  
 Matrix: Water  
 Analysis Batch: 467230

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	2.26	2.257		mg/L		100	90 - 110

## Method: 9020B - Organic Halides, Total (TOX)

Lab Sample ID: MB 280-714834/2  
 Matrix: Water  
 Analysis Batch: 714834

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Halogens	<0.0300		0.0300		mg/L			09/24/25 23:15	1

Lab Sample ID: LCS 280-714834/4  
 Matrix: Water  
 Analysis Batch: 714834

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Halogens	0.100	0.1079		mg/L		108	78 - 114

Lab Sample ID: 310-315676-1 MS  
 Matrix: Water  
 Analysis Batch: 714834

Client Sample ID: MW-5  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Halogens	<0.0600	F1	0.100	0.1159	F1	mg/L		116	78 - 114

Lab Sample ID: 310-315676-1 MSD  
 Matrix: Water  
 Analysis Batch: 714834

Client Sample ID: MW-5  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Total Organic Halogens	<0.0600	F1	0.100	0.1070		mg/L		107	78 - 114	8	23

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

Lab Sample ID: MB 310-466777/1  
 Matrix: Water  
 Analysis Batch: 466777

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		mg/L			09/16/25 06:17	1

# QC Sample Results

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Fall 2025

Job ID: 310-315676-1  
 SDG: Faircast Foundry Sand Fill Area

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

Lab Sample ID: LCS 310-466777/2  
 Matrix: Water  
 Analysis Batch: 466777

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	103.0		mg/L		103	82 - 117

## Method: SM 5220D - COD

Lab Sample ID: MB 310-466876/5  
 Matrix: Water  
 Analysis Batch: 466876

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		mg/L			09/16/25 15:32	1

Lab Sample ID: MB 310-466876/60  
 Matrix: Water  
 Analysis Batch: 466876

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		mg/L			09/16/25 15:32	1

Lab Sample ID: LCS 310-466876/3  
 Matrix: Water  
 Analysis Batch: 466876

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	125	124.5		mg/L		99	85 - 115

Lab Sample ID: LCS 310-466876/63  
 Matrix: Water  
 Analysis Batch: 466876

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	125	126.2		mg/L		101	85 - 115

Lab Sample ID: MB 310-467140/34  
 Matrix: Water  
 Analysis Batch: 467140

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		mg/L			09/18/25 11:36	1

Lab Sample ID: LCS 310-467140/35  
 Matrix: Water  
 Analysis Batch: 467140

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	125	123.1		mg/L		98	85 - 115

# QC Association Summary

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Fall 2025

Job ID: 310-315676-1  
 SDG: Faircast Foundry Sand Fill Area

## HPLC/IC

### Analysis Batch: 467758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315676-1	MW-5	Total/NA	Water	9056A	
310-315676-2	MW-6	Total/NA	Water	9056A	
310-315676-3	MW-7	Total/NA	Water	9056A	
MB 310-467758/3	Method Blank	Total/NA	Water	9056A	
LCS 310-467758/4	Lab Control Sample	Total/NA	Water	9056A	

### Analysis Batch: 467960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315676-4	MW-8	Total/NA	Water	9056A	
310-315676-4	MW-8	Total/NA	Water	9056A	
310-315676-5	MW-9	Total/NA	Water	9056A	
310-315676-6	MW-10	Total/NA	Water	9056A	
310-315676-7	MW-D	Total/NA	Water	9056A	
MB 310-467960/3	Method Blank	Total/NA	Water	9056A	
LCS 310-467960/4	Lab Control Sample	Total/NA	Water	9056A	

## General Chemistry

### Analysis Batch: 466777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315676-1	MW-5	Total/NA	Water	I-3765-85	
310-315676-2	MW-6	Total/NA	Water	I-3765-85	
310-315676-3	MW-7	Total/NA	Water	I-3765-85	
310-315676-4	MW-8	Total/NA	Water	I-3765-85	
310-315676-5	MW-9	Total/NA	Water	I-3765-85	
310-315676-6	MW-10	Total/NA	Water	I-3765-85	
310-315676-7	MW-D	Total/NA	Water	I-3765-85	
MB 310-466777/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-466777/2	Lab Control Sample	Total/NA	Water	I-3765-85	

### Analysis Batch: 466876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315676-1	MW-5	Total/NA	Water	SM 5220D	
310-315676-2	MW-6	Total/NA	Water	SM 5220D	
MB 310-466876/5	Method Blank	Total/NA	Water	SM 5220D	
MB 310-466876/60	Method Blank	Total/NA	Water	SM 5220D	
LCS 310-466876/3	Lab Control Sample	Total/NA	Water	SM 5220D	
LCS 310-466876/63	Lab Control Sample	Total/NA	Water	SM 5220D	

### Analysis Batch: 467140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315676-3	MW-7	Total/NA	Water	SM 5220D	
310-315676-4	MW-8	Total/NA	Water	SM 5220D	
310-315676-5	MW-9	Total/NA	Water	SM 5220D	
310-315676-6	MW-10	Total/NA	Water	SM 5220D	
310-315676-7	MW-D	Total/NA	Water	SM 5220D	
MB 310-467140/34	Method Blank	Total/NA	Water	SM 5220D	
LCS 310-467140/35	Lab Control Sample	Total/NA	Water	SM 5220D	

# QC Association Summary

Client: SCS Engineers  
Project/Site: Faircast FS Groundwater Sampling Fall 2025

Job ID: 310-315676-1  
SDG: Faircast Foundry Sand Fill Area

## General Chemistry

### Analysis Batch: 467230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315676-1	MW-5	Total/NA	Water	350.1	
310-315676-2	MW-6	Total/NA	Water	350.1	
310-315676-3	MW-7	Total/NA	Water	350.1	
310-315676-4	MW-8	Total/NA	Water	350.1	
310-315676-5	MW-9	Total/NA	Water	350.1	
310-315676-6	MW-10	Total/NA	Water	350.1	
310-315676-7	MW-D	Total/NA	Water	350.1	
MB 310-467230/48	Method Blank	Total/NA	Water	350.1	
MB 310-467230/84	Method Blank	Total/NA	Water	350.1	
LCS 310-467230/49	Lab Control Sample	Total/NA	Water	350.1	
LCS 310-467230/85	Lab Control Sample	Total/NA	Water	350.1	

### Analysis Batch: 714834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-315676-1	MW-5	Total/NA	Water	9020B	
310-315676-2	MW-6	Total/NA	Water	9020B	
310-315676-3	MW-7	Total/NA	Water	9020B	
310-315676-4	MW-8	Total/NA	Water	9020B	
310-315676-5	MW-9	Total/NA	Water	9020B	
310-315676-6	MW-10	Total/NA	Water	9020B	
310-315676-7	MW-D	Total/NA	Water	9020B	
MB 280-714834/2	Method Blank	Total/NA	Water	9020B	
LCS 280-714834/4	Lab Control Sample	Total/NA	Water	9020B	
310-315676-1 MS	MW-5	Total/NA	Water	9020B	
310-315676-1 MSD	MW-5	Total/NA	Water	9020B	

# Lab Chronicle

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Fall 2025

Job ID: 310-315676-1  
 SDG: Faircast Foundry Sand Fill Area

**Client Sample ID: MW-5**  
**Date Collected: 09/10/25 19:19**  
**Date Received: 09/12/25 16:25**

**Lab Sample ID: 310-315676-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467758	QTZ5	EET CF	09/22/25 17:06
Total/NA	Analysis	350.1		1	467230	WZC8	EET CF	09/18/25 14:57
Total/NA	Analysis	9020B		1	714834	CAI	EET DEN	09/24/25 23:15
Total/NA	Analysis	I-3765-85		1	466777	DGU1	EET CF	09/16/25 06:17
Total/NA	Analysis	SM 5220D		5	466876	ENB7	EET CF	09/16/25 15:32

**Client Sample ID: MW-6**  
**Date Collected: 09/10/25 18:30**  
**Date Received: 09/12/25 16:25**

**Lab Sample ID: 310-315676-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467758	QTZ5	EET CF	09/22/25 17:17
Total/NA	Analysis	350.1		1	467230	WZC8	EET CF	09/18/25 15:00
Total/NA	Analysis	9020B		1	714834	CAI	EET DEN	09/24/25 23:15
Total/NA	Analysis	I-3765-85		1	466777	DGU1	EET CF	09/16/25 06:17
Total/NA	Analysis	SM 5220D		5	466876	ENB7	EET CF	09/16/25 15:32

**Client Sample ID: MW-7**  
**Date Collected: 09/10/25 17:17**  
**Date Received: 09/12/25 16:25**

**Lab Sample ID: 310-315676-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467758	QTZ5	EET CF	09/22/25 17:29
Total/NA	Analysis	350.1		1	467230	WZC8	EET CF	09/18/25 16:47
Total/NA	Analysis	9020B		1	714834	CAI	EET DEN	09/24/25 23:15
Total/NA	Analysis	I-3765-85		1	466777	DGU1	EET CF	09/16/25 06:17
Total/NA	Analysis	SM 5220D		5	467140	ENB7	EET CF	09/18/25 11:36

**Client Sample ID: MW-8**  
**Date Collected: 09/10/25 15:12**  
**Date Received: 09/12/25 16:25**

**Lab Sample ID: 310-315676-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467960	QTZ5	EET CF	09/24/25 14:39
Total/NA	Analysis	9056A		20	467960	QTZ5	EET CF	09/24/25 14:50
Total/NA	Analysis	350.1		1	467230	WZC8	EET CF	09/18/25 17:05
Total/NA	Analysis	9020B		1	714834	CAI	EET DEN	09/24/25 23:15
Total/NA	Analysis	I-3765-85		1	466777	DGU1	EET CF	09/16/25 06:17
Total/NA	Analysis	SM 5220D		5	467140	ENB7	EET CF	09/18/25 11:36

# Lab Chronicle

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Fall 2025

Job ID: 310-315676-1  
 SDG: Faircast Foundry Sand Fill Area

**Client Sample ID: MW-9**

**Lab Sample ID: 310-315676-5**

Date Collected: 09/10/25 16:24

Matrix: Water

Date Received: 09/12/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467960	QTZ5	EET CF	09/24/25 15:01
Total/NA	Analysis	350.1		1	467230	WZC8	EET CF	09/18/25 17:08
Total/NA	Analysis	9020B		1	714834	CAI	EET DEN	09/24/25 23:15
Total/NA	Analysis	I-3765-85		1	466777	DGU1	EET CF	09/16/25 06:17
Total/NA	Analysis	SM 5220D		5	467140	ENB7	EET CF	09/18/25 11:36

**Client Sample ID: MW-10**

**Lab Sample ID: 310-315676-6**

Date Collected: 09/10/25 14:21

Matrix: Water

Date Received: 09/12/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467960	QTZ5	EET CF	09/24/25 15:12
Total/NA	Analysis	350.1		1	467230	WZC8	EET CF	09/18/25 17:12
Total/NA	Analysis	9020B		1	714834	CAI	EET DEN	09/24/25 23:15
Total/NA	Analysis	I-3765-85		1	466777	DGU1	EET CF	09/16/25 06:17
Total/NA	Analysis	SM 5220D		5	467140	ENB7	EET CF	09/18/25 11:36

**Client Sample ID: MW-D**

**Lab Sample ID: 310-315676-7**

Date Collected: 09/10/25 18:45

Matrix: Water

Date Received: 09/12/25 16:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	467960	QTZ5	EET CF	09/24/25 15:23
Total/NA	Analysis	350.1		1	467230	WZC8	EET CF	09/18/25 17:16
Total/NA	Analysis	9020B		1	714834	CAI	EET DEN	09/24/25 23:15
Total/NA	Analysis	I-3765-85		1	466777	DGU1	EET CF	09/16/25 06:17
Total/NA	Analysis	SM 5220D		5	467140	ENB7	EET CF	09/18/25 11:36

**Laboratory References:**

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

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

# Accreditation/Certification Summary

Client: SCS Engineers  
 Project/Site: Faircast FS Groundwater Sampling Fall 2025

Job ID: 310-315676-1  
 SDG: Faircast Foundry Sand Fill Area

## Laboratory: Eurofins Cedar Falls

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

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

## Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-26
A2LA	ISO/IEC 17025	2907.01	10-31-26
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-25
Arkansas DEQ	State	88-00687	04-02-26
California	State	2513	01-08-26
Colorado	Petroleum Storage Tank Program	2907.01 (A2LA)	10-31-26
Colorado	State	CO00026	06-30-26
Connecticut	State	PH-0686	09-30-26
Florida	NELAP	E87667	06-30-26
Georgia	State	4025	01-08-26
Illinois	NELAP	200017	05-31-26
Iowa	State	370	09-25-25
Kansas	NELAP	E-10166	04-30-26
Kentucky (WW)	State	KY98047	12-31-25
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-26
Minnesota	NELAP	1788752	12-31-25
Montana (DW)	State	CERT0117	01-01-26
Nevada	State	CO00026	07-31-26
New Hampshire	NELAP	2053	04-28-26
New Jersey	NELAP	CO004	09-25-25
New York	NELAP	11964	04-01-26
North Dakota	State	R-034	07-25-25 *
Oklahoma	NELAP	8614	12-31-25
Oregon	NELAP	4025	01-08-26
Pennsylvania	NELAP	68-00664	07-31-26
South Carolina	State	72002001	01-18-26
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183	09-30-25
US Fish & Wildlife	US Federal Programs	058448	07-31-26
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO00026	07-31-25 *
Virginia	NELAP	460232	06-14-26
Washington	State	C583	08-03-26
West Virginia DEP	State	354	11-30-25
Wisconsin	State	999615430	08-31-26
Wyoming (UST)	A2LA	2907.01	10-31-26

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: SCS Engineers  
Project/Site: Faircast FS Groundwater Sampling Fall 2025

Job ID: 310-315676-1  
SDG: Faircast Foundry Sand Fill Area

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	EET CF
350.1	Nitrogen, Ammonia	EPA	EET CF
9020B	Organic Halides, Total (TOX)	SW846	EET DEN
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
SM 5220D	COD	SM	EET CF

#### Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

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

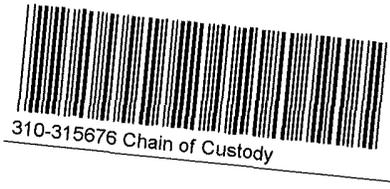
#### Laboratory References:

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

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

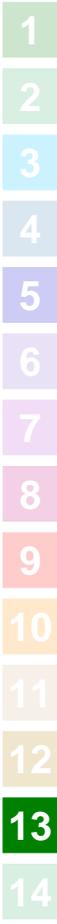


Environment Testing  
America



### Cooler/Sample Receipt and Temperature Log Form

<b>Client Information</b>			
Client <u>CS</u>			
City/State.	CITY <u>Des Moines</u>	STATE <u>IA</u>	Project:
<b>Receipt Information</b>			
Date/Time Received	DATE <u>9/10/25</u>	TIME <u>1625</u>	Received By <u>JR</u>
Delivery Type <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other _____			
<b>Condition of Cooler/Containers</b>			
Sample(s) received in Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes</i> Cooler ID _____			
Multiple Coolers? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes:</i> Cooler # <u>1</u> of <u>2</u>			
Cooler Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes.</i> Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Sample Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes</i> Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Trip Blank Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes:</i> Which VOA samples are in cooler? ↓			
<b>Temperature Record</b>			
Coolant <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>AA</u>		Correction Factor (°C) <u>0</u>	
• <b>Temp Blank Temperature</b> – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C) <u>-1.7</u>		Corrected Temp (°C). <u>-1.7</u>	
• <b>Sample Container Temperature</b>			
Container(s) used	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C).			
<b>Exceptions Noted</b>			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) <i>If yes:</i> Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> 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?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE If yes, contact PM before proceeding. If no, proceed with login			
<b>Additional Comments</b>			





Cooler/Sample Receipt and Temperature Log Form

<b>Client Information</b>			
Client. <u>SCS</u>			
City/State:	CITY <u>Des Moines</u>	STATE <u>IA</u>	Project:
<b>Receipt Information</b>			
Date/Time Received	DATE <u>9/10/25</u>	TIME <u>1605</u>	Received By <u>JR</u>
Delivery Type <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other _____			
<b>Condition of Cooler/Containers</b>			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID:	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>2</u> of <u>2</u>	
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes. Which VOA samples are in cooler? ↓	
<b>Temperature Record</b>			
Coolant. <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other _____ <input type="checkbox"/> NONE			
Thermometer ID	<u>AK</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>-1.2</u>	Corrected Temp (°C)	<u>-1.2</u>
• Sample Container Temperature			
Container(s) used	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>	
Uncorrected Temp (°C).			
Corrected Temp (°C)			
<b>Exceptions Noted</b>			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> 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?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE. If yes, contact PM before proceeding. If no, proceed with login			
<b>Additional Comments</b>			





# Chain of Custody Record

**Eurofins TestAmerica, Cedar Falls**  
3019 Venture Way

Cedar Falls IA 50613-6907  
phone 319 277.2401 fax 319.277.2425

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

Regulatory Program:  DW  NPDES  RCRA  Other:  Groundwater

<b>Project Manager:</b>		<b>Site Contact:</b>		<b>Date:</b>		<b>COC No:</b>	
Email: _____		Lab Contact: _____		Carrier: _____		1 _____ of 2 _____ COCs	
Cell: _____		Analysis Turnaround Time		Sampler: _____		For Lab Use Only	
<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		Other: _____		Walk-in Client: _____		Lab Sampling	
<input type="checkbox"/> 2 weeks		Sample Date		Job / SDG No			
<input type="checkbox"/> 1 week		Sample Time					
<input type="checkbox"/> 2 days		Sample Type					
<input type="checkbox"/> 1 day		Sample Matrix					
		Sample Cont.					
		Sample Type (C=Comp, G=Grab)					
		Sample Matrix					
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		Sample Cont.					

**Eurofins Cedar Falls**

3019 Venture Way  
Cedar Falls, IA 50613  
Phone: 319-277-2401 Fax: 319-277-2425



**Chain of Custody Record**

<b>Client Information (Sub Contract Lab)</b>		Sampler: N/A	Lab PM: Miller, Samuel	Carrier Tracking No(s): N/A	IOC No: 310-86855-1				
Client Contact: Shipping/Receiving		Phone: N/A	E-Mail: Samuel.Miller@et.eurofinsus.com	State of Origin: Iowa	Page: Page 1 of 1				
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - Iowa		Job #: 310-315676-1					
Address: 4955 Yarrow Street, Anvada, CO, 80002		Due Date Requested: 9/25/2025		Preservation Codes:					
Phone: 303-736-0100(Tel) 303-431-7171(Fax)		TAT Requested (days): N/A		Analysis Requested:					
Email: N/A		PO #: N/A		Perform MS/MSD (Yes or No):					
Project Name: Faircast FS Groundwater Sampling Fall 2025		WC #: N/A		9020B_CalcToX					
Site: N/A		Project #: 31014120		Field Filtered Sample (Yes or No):					
		SSOW#: N/A		Preservation Code:					
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, B=Tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9020B_CalcToX	Total Number of Containers	Special Instructions/Note:
MW-5 (310-315676-1)	9/10/25	19:19 Central	G	Water	X	X		1	
MW-6 (310-315676-2)	9/10/25	18:30 Central	G	Water	X	X		1	
MW-7 (310-315676-3)	9/10/25	17:17 Central	G	Water	X	X		1	
MW-8 (310-315676-4)	9/10/25	15:12 Central	G	Water	X	X		1	
MW-9 (310-315676-5)	9/10/25	16:24 Central	G	Water	X	X		1	
MW-10 (310-315676-6)	9/10/25	14:21 Central	G	Water	X	X		1	
MW-D (310-315676-7)	9/10/25	18:45 Central	G	Water	X	X		1	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte &amp; accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/ests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC</p>									
<p><b>Possible Hazard Identification</b></p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p><b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b></p>									
<p>Special Instructions/QC Requirements:</p>									
<p>Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2</p>									
<p>Empty Kit Relinquished by: _____ Date: _____</p>									
<p>Relinquished by: _____ Date/Time: 9/15/25 11:25 Company: _____</p>									
<p>Relinquished by: _____ Date/Time: _____ Company: _____</p>									
<p>Relinquished by: _____ Date/Time: _____ Company: _____</p>									
<p>Custody Seals Intact: _____ Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks:</p>									



## Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-315676-1  
SDG Number: Faircast Foundry Sand Fill Area

**Login Number: 315676**

**List Number: 1**

**Creator: Hirsch, Preston**

**List Source: Eurofins Cedar Falls**

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



## Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-315676-1  
SDG Number: Faircast Foundry Sand Fill Area

**Login Number: 315676**

**List Number: 2**

**Creator: Padgett, Dylan T**

**List Source: Eurofins Denver**

**List Creation: 09/16/25 04:05 PM**

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





Appendix B-2  
Data Validation

Completed by: Semir Omerovic  
 Lab Report Date: 4/1/2025  
 Site Name: Faircast Foundry Sand Site-Fall  
 Lab Report Number: 310-302365-1

**OK NO N/A NOTES**

**Sample Collection and Sample Handling**

Chain of Custody	X		
Temperature	X		
Preservation		X	Method 9056A_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: MW-5, MW-6, MW-7, MW-8, MW-9, MW-10 and MW-D. Elevated reporting limits (RLs) are provided.
Condition	X		
Reporting Limits		X	Method 9020B_Calc: The following samples for batch 280-689744 (Total Organic Halides) were diluted to 2x due to the nature of the sample matrix based on CI pre-screen test: MW-5, MW-6, MW-7, MW-9, MW-10 and MW-D. Elevated reporting limits (RLs) are provided.
Case Narrative	X		
Holding Times	X		

**Analytical Sensitivity and Blanks**

Method Blank Detections	X		
Trip Blank Detections			X

**Accuracy**

ICV/CCV	X		
LCS/LCSD	X		
MS/MSD	X		
Surrogates (organics only)	X		

**Precision**

QA/QC Sample RPDs	X		
Field Duplicates		X	The duplicate was collected from MW-6. All parameters had < 50% relative difference, with the exception of aluminum and iron.

Completed by: Semir Omerovic  
 Lab Report Date: 9/26/2025  
 Site Name: Faircast Foundry Sand Site-Fall  
 Lab Report Number: 310-315676-1

**OK NO N/A NOTES**

**Sample Collection and Sample Handling**

Chain of Custody	X		
Temperature	X		
Preservation		X	Method 9056A_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: MW-5, MW-6, MW-7, MW-8, MW-9, MW-10 and MW-D. Elevated reporting limits (RLs) are provided.
Condition	X		
Reporting Limits		X	Method 9020B_Calc: The following samples for batch 280-689744 (Total Organic Halides) were diluted to 2x due to the nature of the sample matrix based on CI pre-screen test: MW-5, MW-6, MW-7, MW-9, MW-10 and MW-D. Elevated reporting limits (RLs) are provided.
Case Narrative		X	Method 9020B_Calc: Breakthrough exceeded 10% for the following samples: MW-8.
Holding Times	X		

**Analytical Sensitivity and Blanks**

Method Blank Detections	X		
Trip Blank Detections			X

**Accuracy**

ICV/CCV	X		
LCS/LCSD	X		
MS/MSD		X	Method 9020B_Calc: The matrix spike (MS) recovery for analytical batch 280-714834 was outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.
Surrogates (organics only)	X		

**Precision**

QA/QC Sample RPDs	X		
Field Duplicates		X	The duplicate was collected from MW-6. All parameters had < 50% relative difference, with the exception of chloride, sulfate, and TSS.



Appendix C  
Summary of Groundwater Chemistry

# SCS ENGINEERS

## Summary of Groundwater Chemistry

Faircast, Inc. 51-SDP-06-19C

Total Metals Constituents	Sample Date	MW-5 UPG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG
Aluminum, mg/L (CAS NO - 7429-90-5)	6/22/2021	< 0.05	< 0.05	< 0.05	< 0.05	0.0538	< 0.05
	10/6/2021	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	5/20/2022	< 0.05	< 0.05	< 0.05	< 0.05	0.0758	< 0.05
	10/27/2022	< 0.05	< 0.05	< 0.05	< 0.05	0.0699	< 0.05
	10/27/2022	N/A	< 0.05	N/A	N/A	N/A	N/A
	5/9/2023	0.11	< 0.05	0.334	< 0.05	0.17	< 0.05
	5/9/2023	N/A	N/A	0.0608	N/A	N/A	N/A
	11/10/2023	< 0.05	< 0.05	< 0.05	< 0.05	0.108	< 0.05
	11/10/2023	N/A	N/A	N/A	< 0.05	N/A	N/A
	12/18/2024	< 0.05	0.382	0.293	< 0.05	0.998	0.0703
	12/18/2024	N/A	0.135	N/A	N/A	N/A	N/A
	3/18/2025	< 0.05	2.57	0.0582	< 0.05	< 0.05	< 0.05
	3/18/2025	N/A	0.168	N/A	N/A	N/A	N/A
Antimony, mg/L (CAS NO - 7440-36-0)	6/22/2021	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	10/6/2021	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	5/20/2022	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	10/27/2022	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	10/27/2022	N/A	< 0.002	N/A	N/A	N/A	N/A
	5/9/2023	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	5/9/2023	N/A	N/A	< 0.002	N/A	N/A	N/A
	11/10/2023	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	11/10/2023	N/A	N/A	N/A	< 0.002	N/A	N/A
	12/18/2024	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	12/18/2024	N/A	< 0.002	N/A	N/A	N/A	N/A
	3/18/2025	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	3/18/2025	N/A	< 0.002	N/A	N/A	N/A	N/A
Arsenic, mg/L (CAS NO - 7440-38-2)	6/22/2021	< 0.002	< 0.002	0.00245	< 0.002	< 0.002	< 0.002
	10/6/2021	< 0.002	< 0.002	0.00303	< 0.002	< 0.002	< 0.002
	5/20/2022	< 0.002	< 0.002	0.00232	< 0.002	< 0.002	< 0.002
	10/27/2022	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	10/27/2022	N/A	< 0.002	N/A	N/A	N/A	N/A
	5/9/2023	< 0.002	< 0.002	< 0.002	0.00363	< 0.002	< 0.002
	5/9/2023	N/A	N/A	< 0.002	N/A	N/A	N/A
	11/10/2023	< 0.002	< 0.002	< 0.002	0.00268	< 0.002	< 0.002
	11/10/2023	N/A	N/A	N/A	0.00221	N/A	N/A
	12/18/2024	< 0.002	< 0.002	0.00207	0.00391	0.00273	< 0.002
	12/18/2024	N/A	< 0.002	N/A	N/A	N/A	N/A
	3/18/2025	< 0.002	< 0.002	< 0.002	0.00205	< 0.002	< 0.002
	3/18/2025	N/A	< 0.002	N/A	N/A	N/A	N/A
Barium, mg/L (CAS NO - 7440-39-3)	6/22/2021	0.533	0.588	0.2	0.0259	0.0568	0.0779
	10/6/2021	0.45	0.477	0.188	0.0253	0.0448	0.07
	5/20/2022	0.549	0.612	0.359	0.0241	0.0566	0.0538
	10/27/2022	0.493	0.636	0.396	0.0305	0.0462	0.0624
	10/27/2022	N/A	0.572	N/A	N/A	N/A	N/A
	5/9/2023	0.411	0.488	0.094	0.0238	0.146	0.0847
	5/9/2023	N/A	N/A	0.102	N/A	N/A	N/A
	11/10/2023	0.526	0.483	0.328	0.0298	0.0629	0.0914
	11/10/2023	N/A	N/A	N/A	0.0323	N/A	N/A
	12/18/2024	0.507	0.203	0.275	0.0192	0.121	0.0548
	12/18/2024	N/A	0.19	N/A	N/A	N/A	N/A
	3/18/2025	0.504	0.114	0.102	0.0174	0.0919	0.0556
	3/18/2025	N/A	0.116	N/A	N/A	N/A	N/A

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Total Metals Constituents	Sample Date	MW-5 UPG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG
Beryllium, mg/L (CAS NO - 7440-41-7)	6/22/2021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	10/6/2021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	5/20/2022	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	10/27/2022	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	10/27/2022	N/A	< 0.001	N/A	N/A	N/A	N/A
	5/9/2023	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	5/9/2023	N/A	N/A	< 0.001	N/A	N/A	N/A
	11/10/2023	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	11/10/2023	N/A	N/A	N/A	< 0.001	N/A	N/A
	12/18/2024	< 0.001	< 0.001	< 0.001	< 0.004	< 0.001	< 0.001
	12/18/2024	N/A	< 0.001	N/A	N/A	N/A	N/A
	3/18/2025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	3/18/2025	N/A	< 0.001	N/A	N/A	N/A	N/A
Boron, mg/L (CAS NO - 7440-42-8)	6/22/2021	< 0.1	< 0.1	< 0.1	0.335	0.148	< 0.1
	10/6/2021	< 0.1	< 0.1	< 0.1	0.356	0.101	< 0.1
	5/20/2022	< 0.1	< 0.1	< 0.1	0.366	0.14	< 0.1
	10/27/2022	< 0.1	< 0.1	< 0.1	0.392	< 0.1	0.127
	10/27/2022	N/A	< 0.1	N/A	N/A	N/A	N/A
	5/9/2023	< 0.1	< 0.1	< 0.1	0.416	0.382	0.23
	5/9/2023	N/A	N/A	< 0.1	N/A	N/A	N/A
	11/10/2023	0.144	0.126	0.12	0.559	0.226	0.303
	11/10/2023	N/A	N/A	N/A	0.602	N/A	N/A
	12/18/2024	< 0.1	< 0.1	< 0.1	0.476	0.17	0.168
	12/18/2024	N/A	< 0.1	N/A	N/A	N/A	N/A
	3/18/2025	< 0.1	0.1	< 0.1	0.489	0.125	0.155
	3/18/2025	N/A	< 0.1	N/A	N/A	N/A	N/A
Cadmium, mg/L (CAS NO - 7440-43-9)	6/22/2021	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
	10/6/2021	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
	5/20/2022	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
	10/27/2022	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
	10/27/2022	N/A	< 0.0001	N/A	N/A	N/A	N/A
	5/9/2023	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	5/9/2023	N/A	N/A	< 0.0002	N/A	N/A	N/A
	11/10/2023	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	11/10/2023	N/A	N/A	N/A	< 0.0002	N/A	N/A
	12/18/2024	< 0.0002	< 0.0002	< 0.0002	0.000241	0.00045	< 0.0002
	12/18/2024	N/A	< 0.0002	N/A	N/A	N/A	N/A
	3/18/2025	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	3/18/2025	N/A	< 0.0002	N/A	N/A	N/A	N/A
Chromium, mg/L (CAS NO - 7440-47-3)	6/22/2021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	10/6/2021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	5/20/2022	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	10/27/2022	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	10/27/2022	N/A	< 0.005	N/A	N/A	N/A	N/A
	5/9/2023	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	5/9/2023	N/A	N/A	< 0.005	N/A	N/A	N/A
	11/10/2023	< 0.005	0.00778	< 0.005	< 0.005	< 0.005	< 0.005
	11/10/2023	N/A	N/A	N/A	< 0.005	N/A	N/A
	12/18/2024	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	12/18/2024	N/A	< 0.005	N/A	N/A	N/A	N/A
	3/18/2025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	3/18/2025	N/A	< 0.005	N/A	N/A	N/A	N/A

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Total Metals Constituents	Sample Date	MW-5 UPG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG
Cobalt, mg/L (CAS NO - 7440-48-4)	6/22/2021	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	10/6/2021	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	5/20/2022	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	10/27/2022	< 0.0005	< 0.0005	< 0.0005	0.00152	< 0.0005	0.000619
	10/27/2022	N/A	< 0.0005	N/A	N/A	N/A	N/A
	5/9/2023	< 0.0005	< 0.0005	< 0.0005	0.00399	0.00152	< 0.0005
	5/9/2023	N/A	N/A	< 0.0005	N/A	N/A	N/A
	11/10/2023	< 0.0005	0.000934	< 0.0005	0.00429	0.00113	0.000866
	11/10/2023	N/A	N/A	N/A	0.00353	N/A	N/A
	12/18/2024	< 0.0005	< 0.0005	< 0.0005	0.0028	0.0079	< 0.0005
	12/18/2024	N/A	< 0.0005	N/A	N/A	N/A	N/A
	3/18/2025	< 0.0005	< 0.0005	< 0.0005	0.00178	< 0.0005	< 0.0005
	3/18/2025	N/A	< 0.0005	N/A	N/A	N/A	N/A
Copper, mg/L (CAS NO - 7440-50-8)	6/22/2021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	10/6/2021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	5/20/2022	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	10/27/2022	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	10/27/2022	N/A	< 0.005	N/A	N/A	N/A	N/A
	5/9/2023	< 0.005	< 0.005	< 0.005	< 0.005	0.00603	< 0.005
	5/9/2023	N/A	N/A	< 0.005	N/A	N/A	N/A
	11/10/2023	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	11/10/2023	N/A	N/A	N/A	< 0.005	N/A	N/A
	12/18/2024	< 0.005	< 0.005	< 0.005	< 0.005	0.02	< 0.005
	12/18/2024	N/A	< 0.005	N/A	N/A	N/A	N/A
	3/18/2025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	3/18/2025	N/A	< 0.005	N/A	N/A	N/A	N/A
Iron, mg/L (CAS NO - 7439-89-6)	6/22/2021	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	10/6/2021	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	5/20/2022	< 0.1	< 0.1	< 0.1	< 0.1	0.11	< 0.1
	10/27/2022	< 0.1	< 0.1	< 0.1	< 0.1	0.132	< 0.1
	10/27/2022	N/A	< 0.1	N/A	N/A	N/A	N/A
	5/9/2023	0.101	< 0.1	0.208	0.579	0.553	< 0.1
	5/9/2023	N/A	N/A	< 0.1	N/A	N/A	N/A
	11/10/2023	< 0.1	0.147	< 0.1	0.59	0.365	< 0.1
	11/10/2023	N/A	N/A	N/A	0.771	N/A	N/A
	12/18/2024	< 0.1	0.107	0.193	1.26	3.22	0.419
	12/18/2024	N/A	0.299	N/A	N/A	N/A	N/A
	3/18/2025	< 0.1	1.48	< 0.1	0.703	< 0.1	< 0.1
	3/18/2025	N/A	0.135	N/A	N/A	N/A	N/A
Lead, mg/L (CAS NO - 7439-92-1)	6/22/2021	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	10/6/2021	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	5/20/2022	< 0.0005	< 0.0005	< 0.0005	0.00073	< 0.0005	< 0.0005
	10/27/2022	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000534	< 0.0005
	10/27/2022	N/A	< 0.0005	N/A	N/A	N/A	N/A
	5/9/2023	< 0.0005	0.000691	0.00122	0.00429	0.0092	0.000708
	5/9/2023	N/A	N/A	< 0.0005	N/A	N/A	N/A
	11/10/2023	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000875	< 0.0005
	11/10/2023	N/A	N/A	N/A	< 0.0005	N/A	N/A
	12/18/2024	< 0.0005	0.00137	0.000937	< 0.0005	0.0102	< 0.0005
	12/18/2024	N/A	< 0.0005	N/A	N/A	N/A	N/A
	3/18/2025	< 0.0005	0.000695	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	3/18/2025	N/A	< 0.0005	N/A	N/A	N/A	N/A

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Total Metals Constituents	Sample Date	MW-5 UPG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG
Magnesium, mg/L (CAS NO - 7439-95-4)	6/22/2021	19.9	27.4	16.3	74.2	42.1	35.9
	10/6/2021	19	29	15.3	68.5	39	36.1
	5/20/2022	21.5	29.5	19.9	75.5	47.9	35.1
	10/27/2022	19.2	25.5	18.1	60.9	38.6	25.9
	10/27/2022	N/A	28.3	N/A	N/A	N/A	N/A
	5/9/2023	40	28.3	12	94.9	49.6	31.8
	5/9/2023	N/A	N/A	11.5	N/A	N/A	N/A
	11/10/2023	22	31.6	19.5	81.1	47.4	33.9
	11/10/2023	N/A	N/A	N/A	83.8	N/A	N/A
	12/18/2024	19.1	15.4	19.6	124	19.8	21.6
	12/18/2024	N/A	15.5	N/A	N/A	N/A	N/A
	3/18/2025	20.2	13	11.6	119	40.2	26.4
	3/18/2025	N/A	12.8	N/A	N/A	N/A	N/A
	Manganese, mg/L (CAS NO - 7439-96-5)	6/22/2021	< 0.01	0.0103	< 0.01	0.402	0.0108
10/6/2021		< 0.01	< 0.01	< 0.01	0.629	< 0.01	0.08
5/20/2022		< 0.01	< 0.01	< 0.01	0.0621	0.0188	< 0.01
10/27/2022		< 0.01	< 0.01	< 0.01	0.965	0.0205	0.0635
10/27/2022		N/A	< 0.01	N/A	N/A	N/A	N/A
5/9/2023		0.0155	< 0.01	0.0113	1.08	0.266	0.0959
5/9/2023		N/A	N/A	< 0.01	N/A	N/A	N/A
11/10/2023		< 0.01	< 0.01	< 0.01	1.72	0.209	0.0828
11/10/2023		N/A	N/A	N/A	1.98	N/A	N/A
12/18/2024		< 0.01	0.0582	0.0122	0.838	1.24	0.018
12/18/2024		N/A	0.0149	N/A	N/A	N/A	N/A
3/18/2025		< 0.01	0.0192	< 0.01	0.75	0.0245	< 0.01
3/18/2025		N/A	0.0145	N/A	N/A	N/A	N/A
Mercury, mg/L (CAS NO - 7439-97-6)		6/22/2021	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	10/6/2021	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	5/20/2022	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	10/27/2022	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	10/27/2022	N/A	< 0.0002	N/A	N/A	N/A	N/A
	5/9/2023	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	5/9/2023	N/A	N/A	< 0.0002	N/A	N/A	N/A
	11/10/2023	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	11/10/2023	N/A	N/A	N/A	< 0.0002	N/A	N/A
	12/18/2024	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	12/18/2024	N/A	< 0.0002	N/A	N/A	N/A	N/A
	3/18/2025	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	3/18/2025	N/A	< 0.0002	N/A	N/A	N/A	N/A
	Molybdenum, mg/L (CAS NO - 7439-98-7)	6/22/2021	< 0.002	0.00233	0.00475	0.00513	0.00456
10/6/2021		< 0.002	0.00256	0.00398	0.00551	0.00277	0.00428
5/20/2022		0.0032	0.00224	0.00321	0.00305	0.00527	0.00447
10/27/2022		0.0307	< 0.002	0.00598	0.00575	0.00283	0.00577
10/27/2022		N/A	0.00608	N/A	N/A	N/A	N/A
5/9/2023		0.00391	0.00275	0.0104	0.00267	0.00378	0.00511
5/9/2023		N/A	N/A	0.0138	N/A	N/A	N/A
11/10/2023		< 0.002	0.00423	0.00504	0.00441	0.00314	0.00531
11/10/2023		N/A	N/A	N/A	0.00422	N/A	N/A
12/18/2024		< 0.002	0.00296	0.00372	< 0.002	< 0.002	0.00504
12/18/2024		N/A	0.00342	N/A	N/A	N/A	N/A
3/18/2025		< 0.002	0.00696	0.0136	< 0.002	0.00278	0.00429
3/18/2025		N/A	0.00582	N/A	N/A	N/A	N/A

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Total Metals Constituents	Sample Date	MW-5 UPG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG
Nickel, mg/L (CAS NO - 7440-02-0)	6/22/2021	< 0.005	< 0.005	< 0.005	0.00677	< 0.005	< 0.005
	10/6/2021	< 0.005	< 0.005	< 0.005	0.00597	< 0.005	< 0.005
	5/20/2022	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	10/27/2022	< 0.005	< 0.005	< 0.005	0.00683	< 0.005	< 0.005
	10/27/2022	N/A	< 0.005	N/A	N/A	N/A	N/A
	5/9/2023	< 0.005	< 0.005	< 0.005	0.00594	< 0.005	< 0.005
	5/9/2023	N/A	N/A	< 0.005	N/A	N/A	N/A
	11/10/2023	< 0.005	< 0.005	< 0.005	0.0081	< 0.005	< 0.005
	11/10/2023	N/A	N/A	N/A	0.00847	N/A	N/A
	12/18/2024	< 0.005	< 0.005	< 0.005	0.00885	0.0168	< 0.005
	12/18/2024	N/A	< 0.005	N/A	N/A	N/A	N/A
	3/18/2025	< 0.005	< 0.005	< 0.005	0.0089	< 0.005	< 0.005
	3/18/2025	N/A	< 0.005	N/A	N/A	N/A	N/A
Selenium, mg/L (CAS NO - 7782-49-2)	6/22/2021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	10/6/2021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	5/20/2022	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	10/27/2022	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	10/27/2022	N/A	< 0.005	N/A	N/A	N/A	N/A
	5/9/2023	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	5/9/2023	N/A	N/A	< 0.005	N/A	N/A	N/A
	11/10/2023	0.0052	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	11/10/2023	N/A	N/A	N/A	< 0.005	N/A	N/A
	12/18/2024	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	12/18/2024	N/A	< 0.005	N/A	N/A	N/A	N/A
	3/18/2025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	3/18/2025	N/A	< 0.005	N/A	N/A	N/A	N/A
Silver, mg/L (CAS NO - 7440-22-4)	6/22/2021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	10/6/2021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	5/20/2022	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	10/27/2022	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	10/27/2022	N/A	< 0.001	N/A	N/A	N/A	N/A
	5/9/2023	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	5/9/2023	N/A	N/A	< 0.001	N/A	N/A	N/A
	11/10/2023	< 0.001	0.00116	< 0.001	< 0.001	< 0.001	< 0.001
	11/10/2023	N/A	N/A	N/A	< 0.001	N/A	N/A
	12/18/2024	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	12/18/2024	N/A	< 0.001	N/A	N/A	N/A	N/A
	3/18/2025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	3/18/2025	N/A	< 0.001	N/A	N/A	N/A	N/A
Thallium, mg/L (CAS NO - 7440-28-0)	6/22/2021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	10/6/2021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	5/20/2022	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	10/27/2022	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	10/27/2022	N/A	< 0.001	N/A	N/A	N/A	N/A
	5/9/2023	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	5/9/2023	N/A	N/A	< 0.001	N/A	N/A	N/A
	11/10/2023	0.00317	0.00483	< 0.001	< 0.001	< 0.001	< 0.001
	11/10/2023	N/A	N/A	N/A	< 0.001	N/A	N/A
	12/18/2024	0.00165	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	12/18/2024	N/A	< 0.001	N/A	N/A	N/A	N/A
	3/18/2025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	3/18/2025	N/A	< 0.001	N/A	N/A	N/A	N/A

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## Summary of Groundwater Chemistry

Faircast, Inc. 51-SDP-06-19C

Total Metals Constituents	Sample Date	MW-5 UPG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG
Vanadium, mg/L (CAS NO - 7440-62-2)	6/22/2021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	10/6/2021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	5/20/2022	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	10/27/2022	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	10/27/2022	N/A	< 0.005	N/A	N/A	N/A	N/A
	5/9/2023	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	5/9/2023	N/A	N/A	< 0.005	N/A	N/A	N/A
	11/10/2023	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	11/10/2023	N/A	N/A	N/A	< 0.005	N/A	N/A
	12/18/2024	< 0.005	< 0.005	< 0.005	< 0.005	0.00604	< 0.005
	12/18/2024	N/A	< 0.005	N/A	N/A	N/A	N/A
	3/18/2025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	3/18/2025	N/A	< 0.005	N/A	N/A	N/A	N/A
	Zinc, mg/L (CAS NO - 7440-66-6)	6/22/2021	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
10/6/2021		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
5/20/2022		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
10/27/2022		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
10/27/2022		N/A	< 0.02	N/A	N/A	N/A	N/A
5/9/2023		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
5/9/2023		N/A	N/A	< 0.02	N/A	N/A	N/A
11/10/2023		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
11/10/2023		N/A	N/A	N/A	< 0.02	N/A	N/A
12/18/2024		< 0.02	< 0.02	< 0.02	< 0.02	0.0275	< 0.02
12/18/2024		N/A	< 0.02	N/A	N/A	N/A	N/A
3/18/2025		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
3/18/2025		N/A	< 0.02	N/A	N/A	N/A	N/A
Total Suspended Solids, mg/L (CAS NO - TSS)		6/22/2021	2.5	< 1.88	< 1.88	7.5	6.25
	10/6/2021	2	< 1.88	< 1.88	1.88	4.25	< 1.88
	5/20/2022	2.63	6.5	5.13	8	45.6	3.87
	10/27/2022	< 1.88	< 1.88	12.5	9.87	518	3.13
	10/27/2022	N/A	2.5	N/A	N/A	N/A	N/A
	5/9/2023	20.3	< 1.88	7.62	5.37	16.9	2.38
	5/9/2023	N/A	N/A	6.12	N/A	N/A	N/A
	11/10/2023	3.75	< 1.88	3.38	20.6	65.9	5.13
	11/10/2023	N/A	N/A	N/A	21.4	N/A	N/A
	12/18/2024	3.13	52.4	84	9	335	5.88
	12/18/2024	N/A	19.8	N/A	N/A	N/A	N/A
	3/18/2025	< 1.88	20.3	4	5.63	2.13	< 1.88
	3/18/2025	N/A	33	N/A	N/A	N/A	N/A
	9/10/2025	< 1.88	1.88	12.8	3.25	2.25	9
9/10/2025	N/A	24.1	N/A	N/A	N/A	N/A	

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

Denotes Detection.

Denotes Confirmed Outlier. Statistically Excluded.

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

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## Summary of Groundwater Chemistry

Faircast, Inc. 51-SDP-06-19C

Appendix I VOC Constituents	Sample Date	MW-5 UPG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG
1,2-Dichloroethane, ug/L (CAS NO - 107-06-2)	6/22/2021	< 1	< 1	< 1	< 1	< 1	< 1
	10/6/2021	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone, ug/L (CAS NO - 78-93-3)	6/22/2021	< 10	< 10	< 10	< 10	< 10	< 10
	10/6/2021	< 10	< 10	< 10	< 10	< 10	< 10
Benzene, ug/L (CAS NO - 71-43-2)	6/22/2021	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	10/6/2021	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene, ug/L (CAS NO - 108-90-7)	6/22/2021	< 1	< 1	< 1	< 1	< 1	< 1
	10/6/2021	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform, ug/L (CAS NO - 67-66-3)	6/22/2021	< 3	< 3	< 3	< 3	< 3	< 3
	10/6/2021	< 3	< 3	< 3	< 3	< 3	< 3
Tetrachloroethene, ug/L (CAS NO - 127-18-4)	6/22/2021	< 1	< 1	< 1	< 1	< 1	< 1
	10/6/2021	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	6/22/2021	< 1	< 1	< 1	< 1	< 1	< 1
	10/6/2021	< 1	< 1	< 1	< 1	< 1	< 1

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

Faircast, Inc. 51-SDP-06-19C

Other Constituents	Sample Date	MW-5 UPG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG
Chemical Oxygen Demand, mg/L (CAS NO - COD)	6/22/2021	64.5	62.9	67.9	39.5	54.5	79.5
	10/6/2021	< 25	38.1	32.8	< 25	38.1	34.6
	5/20/2022	< 25	< 25	< 25	< 25	< 25	< 25
	10/27/2022	< 25	51.6	< 25	< 25	< 25	< 25
	10/27/2022	N/A	< 25	N/A	N/A	N/A	N/A
	5/9/2023	27.5	< 25	29.2	30.9	37.7	32.7
	5/9/2023	N/A	N/A	< 25	N/A	N/A	N/A
	11/10/2023	< 25	< 25	25	< 25	31.9	31.9
	11/10/2023	N/A	N/A	N/A	< 25	N/A	N/A
	12/18/2024	< 25	< 25	41.5	< 25	27.8	< 25
	12/18/2024	N/A	< 25	N/A	N/A	N/A	N/A
	3/18/2025	< 25	31	< 25	< 25	< 25	< 25
	3/18/2025	N/A	< 25	N/A	N/A	N/A	N/A
	9/10/2025	< 25	< 25	41.7	28.5	25.2	28.5
	9/10/2025	N/A	< 25	N/A	N/A	N/A	N/A
Chloride, mg/L (CAS NO - 16887-00-6)	6/22/2021	46.8	36.9	22.3	193	73.4	41.6
	10/6/2021	42.2	51.6	15.2	175	78.5	36.1
	5/20/2022	57.7	37.6	20.7	161	82.3	34.4
	10/27/2022	40.4	26.9	18.8	115	67.5	28.5
	10/27/2022	N/A	24.2	N/A	N/A	N/A	N/A
	5/9/2023	63.2	49.4	24.8	237	34	13.9
	5/9/2023	N/A	N/A	24.6	N/A	N/A	N/A
	11/10/2023	38.7	30.6	25.9	138	63.4	25.2
	11/10/2023	N/A	N/A	N/A	136	N/A	N/A
	12/18/2024	33.8	26.5	20.9	243	9.61	9.19
	12/18/2024	N/A	27.1	N/A	N/A	N/A	N/A
	3/18/2025	35.5	16.9	8.98	252	22.6	10.2
	3/18/2025	N/A	17.1	N/A	N/A	N/A	N/A
	9/10/2025	27.6	58.6	13.3	246	32.4	20.2
	9/10/2025	N/A	18.5	N/A	N/A	N/A	N/A
Fluoride, mg/L (CAS NO - 16984-48-8)	6/22/2021	0.581	0.765	1.15	< 0.5	0.644	0.706
	10/6/2021	0.668	0.963	1.37	< 0.5	< 0.5	< 0.5
	5/20/2022	0.512	0.747	1.08	< 0.5	0.623	0.542
	10/27/2022	< 0.5	< 0.5	0.986	< 0.5	< 0.5	1.01
	10/27/2022	N/A	0.653	N/A	N/A	N/A	N/A
	5/9/2023	< 1	< 1	< 1	< 1	< 1	< 1
	5/9/2023	N/A	N/A	1	N/A	N/A	N/A
	11/10/2023	< 1	< 1	< 1	< 1	< 1	< 1
	11/10/2023	N/A	N/A	N/A	< 1	N/A	N/A
	12/18/2024	< 1	< 1	< 1	< 1	< 1	< 1
	12/18/2024	N/A	< 1	N/A	N/A	N/A	N/A
	3/18/2025	< 1	< 1	< 1	< 1	< 1	< 1
	3/18/2025	N/A	< 1	N/A	N/A	N/A	N/A
	9/10/2025	< 1	< 1	< 1	< 1	< 1	< 1
	9/10/2025	N/A	< 1	N/A	N/A	N/A	N/A
Formaldehyde, ug/L (CAS NO - 50-00-0)	8/26/2020	N/A	N/A	N/A	N/A	< 50	< 50
	12/1/2020	< 50	< 50	< 50	< 50	< 50	< 50
	3/3/2021	< 50	< 50	< 50	< 50	< 50	< 50
	6/22/2021	< 50	< 50	< 50	< 50	< 50	< 50
	10/6/2021	< 50	< 50	< 50	< 50	< 50	< 50

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## Summary of Groundwater Chemistry

Faircast, Inc. 51-SDP-06-19C

Other Constituents	Sample Date	MW-5 UPG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG	
Nitrogen, Ammonia, mg/L (CAS NO - 7664-41-7)	6/22/2021	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	
	10/6/2021	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	
	5/20/2022	< 0.5	< 0.5	0.532	< 0.5	< 0.5	< 0.5	
	10/27/2022	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
	10/27/2022	N/A	< 0.5	N/A	N/A	N/A	N/A	
	5/9/2023	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
	5/9/2023	N/A	N/A	< 0.5	N/A	N/A	N/A	
	11/10/2023	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
	11/10/2023	N/A	N/A	N/A	< 0.5	N/A	N/A	
	12/18/2024	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
	12/18/2024	N/A	< 0.5	N/A	N/A	N/A	N/A	
	3/18/2025	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
	3/18/2025	N/A	< 0.5	N/A	N/A	N/A	N/A	
	9/10/2025	< 0.5	< 0.5	3.07	< 0.5	< 0.5	< 0.5	
	9/10/2025	N/A	< 0.5	N/A	N/A	N/A	N/A	
pH, S.U. (CAS NO - PH)	8/26/2020	7.09	7.22	7.63	6.96	7.28	7.21	
	9/2/2020	7.24	7.26	7.74	7	N/A	N/A	
	12/1/2020	7.24	7.32	7.83	7.06	7.32	7.22	
	12/2/2020	7.3	7.35	7.84	7.04	N/A	N/A	
	3/3/2021	7.4	7.6	8.28	7.36	7.81	7.59	
	6/22/2021	7.87	8.01	8.39	7.34	7.6	8.6	
	10/6/2021	7.5	7.62	8.1	7.02	7.57	7.3	
	5/20/2022	7.05	7.25	8.62	7.07	7.06	6.88	
	10/27/2022	6.67	7.03	7.53	6.68	6.68	6.72	
	5/9/2023	7.72	7.39	6.72	6.72	7.22	6.89	
	12/18/2024	6.79	6.87	7.13	6.55	6.93	6.29	
	3/18/2025	6.88	7.34	7.43	6.64	6.81	7	
	9/10/2025	7.02	7.16	7.57	6.57	6.83	6.71	
	Specific Conductance, uS/cm (CAS NO - SC)	8/26/2020	690	662	493	2802	1159	808
		9/2/2020	599	660	472	2668	N/A	N/A
12/1/2020		-6100	-13800	-40600	1400	-13400	-14200	
12/2/2020		-13600	-13000	-38500	1600	N/A	N/A	
3/3/2021		596.7	664.9	474.9	2786	1317	1218	
6/22/2021		584.3	689	527.7	2180	1386	1027	
10/6/2021		547.1	815	477	2489	1103	992	
5/20/2022		602	701	542	27	1430	929	
10/27/2022		427	520	392	1763	847	526	
5/9/2023		24	24	224	1774	1631	745	
12/18/2024		653	743	863	4579	903	835	
3/18/2025		554.9	527.5	700.3	3714.7	1365.5	756.4	
9/10/2025		632.1	670.4	800.8	3818.6	1274.6	1111.7	
Sulfate, mg/L (CAS NO - 14808-79-8)		6/22/2021	24.5	22.9	29.7	897	187	94.1
		10/6/2021	20.9	35.4	26.2	899	142	90.8
	5/20/2022	38.6	24.6	24.3	964	206	77.1	
	10/27/2022	20.2	16.1	20.4	737	226	68.5	
	10/27/2022	N/A	15	N/A	N/A	N/A	N/A	
	5/9/2023	79.8	43.7	41.3	1280	419	57	
	5/9/2023	N/A	N/A	45.9	N/A	N/A	N/A	
	11/10/2023	18.7	24.4	27	905	190	71.4	
	11/10/2023	N/A	N/A	N/A	896	N/A	N/A	
	12/18/2024	17.6	63.1	33.3	1440	73.3	56.7	
	12/18/2024	N/A	65.3	N/A	N/A	N/A	N/A	
	3/18/2025	20.7	58	55.3	1410	303	44.2	
	3/18/2025	N/A	58.2	N/A	N/A	N/A	N/A	
	9/10/2025	43.7	83.6	29.9	1510	201	41.4	
	9/10/2025	N/A	46.4	N/A	N/A	N/A	N/A	

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## Summary of Groundwater Chemistry

Faircast, Inc. 51-SDP-06-19C

Other Constituents	Sample Date	MW-5 UPG	MW-6 DNG	MW-7 DNG	MW-8 DNG	MW-9 DNG	MW-10 DNG
Total Organic Halogens, mg/L (CAS NO - TOX)	8/26/2020	N/A	N/A	N/A	N/A	0.0651	0.0649
	12/1/2020	< 0.04	< 0.04	< 0.04	0.255	0.124	0.0969
	6/22/2021	< 0.04	< 0.04	< 0.04	0.0933	0.133	< 0.04
	10/6/2021	< 0.04	0.0482	0.0773	0.168	0.149	< 0.04
	10/27/2022	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
	10/27/2022	N/A	< 0.04	N/A	N/A	N/A	N/A
	5/9/2023	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
	5/9/2023	N/A	N/A	< 0.04	N/A	N/A	N/A
	11/10/2023	0.0706	0.103	0.151	0.0494	0.0704	< 0.04
	11/10/2023	N/A	N/A	N/A	0.0746	N/A	N/A
	12/18/2024	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
	12/18/2024	N/A	< 0.06	N/A	N/A	N/A	N/A
	3/18/2025	< 0.06	< 0.06	< 0.06	0.0658	< 0.06	< 0.06
	3/18/2025	N/A	< 0.06	N/A	N/A	N/A	N/A
	9/10/2025	< 0.06	< 0.06	< 0.06	0.0705	< 0.06	< 0.06
9/10/2025	N/A	< 0.06	N/A	N/A	N/A	N/A	
Total Phenols, mg/L (CAS NO - 64743-03-9)	6/22/2021	< 0.0184	< 0.018	< 0.0184	< 0.018	< 0.0184	< 0.0196
	10/6/2021	< 0.0212	< 0.02	< 0.02	< 0.0184	< 0.0188	< 0.0188

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

**Denotes Detection.**

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

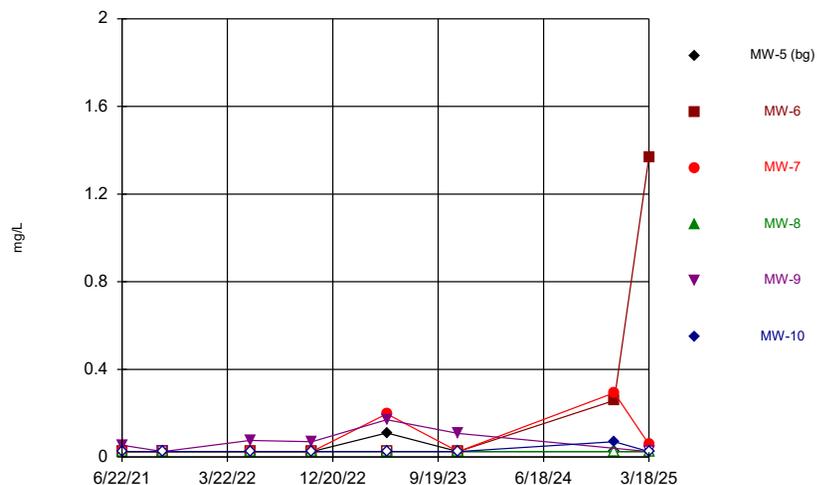


Appendix D  
Statistical Report



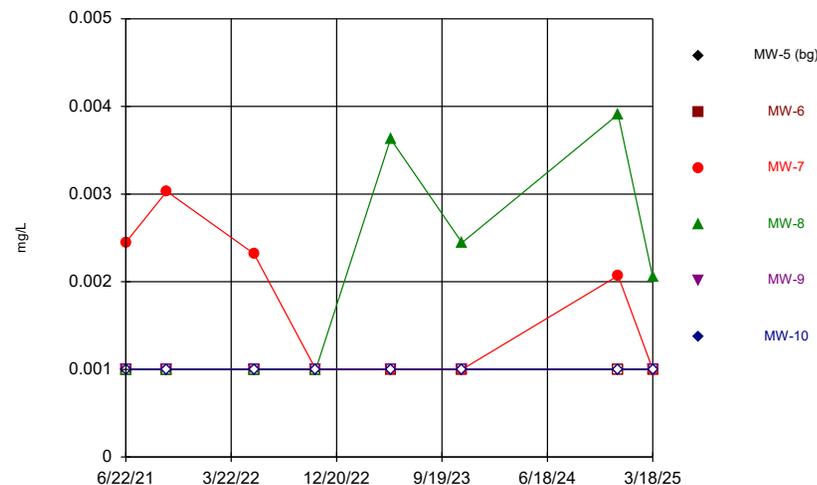
Attachment A  
Time Series Graphs

### Time Series



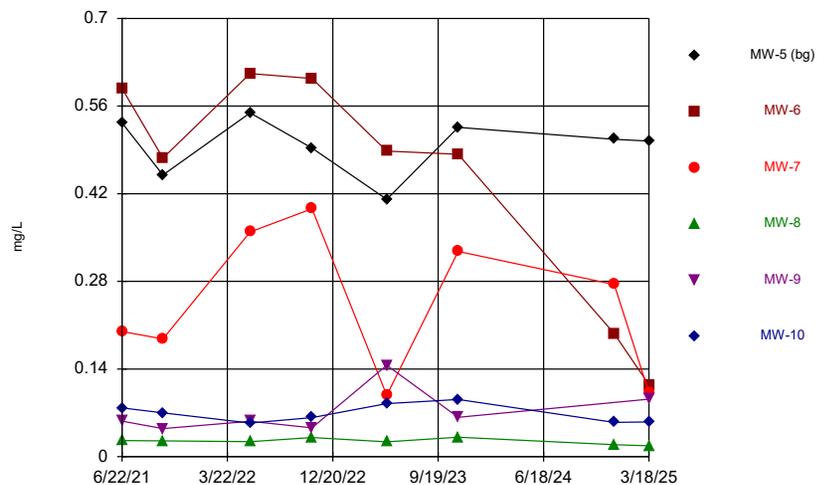
Constituent: Aluminum Analysis Run 2/6/2026 8:57 AM View: 2025AWQR-Time\_Series  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

### Time Series



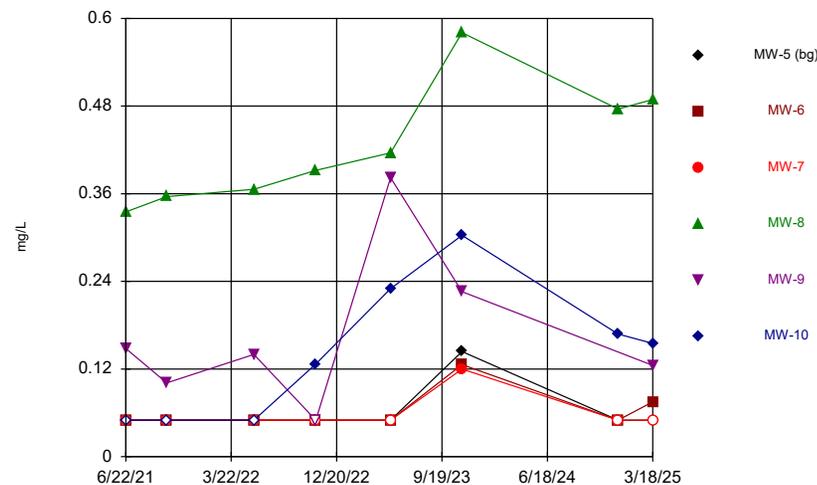
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Faircast Inc. Client: SCS Engineers Data: Faircast Inc

### Time Series



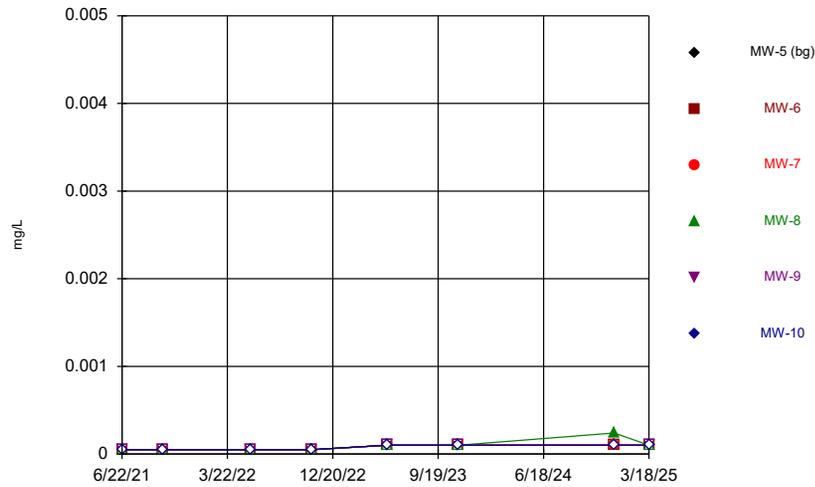
Constituent: Barium Analysis Run 2/6/2026 8:57 AM View: 2025AWQR-Time\_Series  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

### Time Series



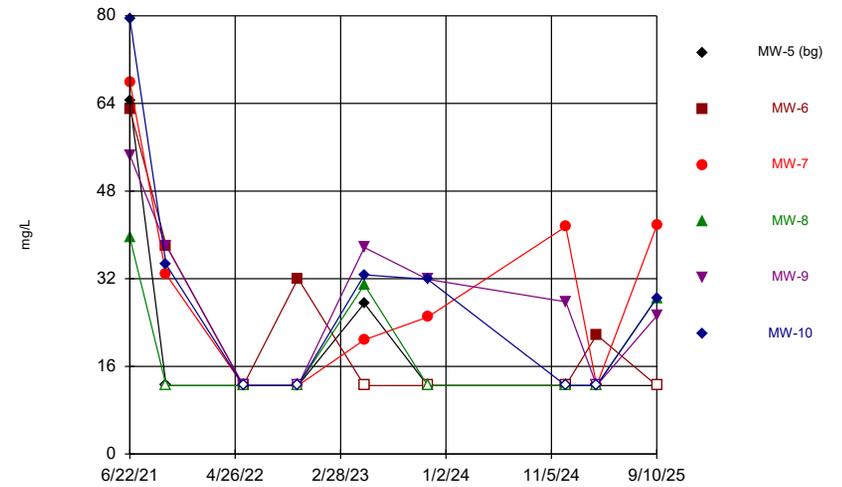
Constituent: Boron Analysis Run 2/6/2026 8:57 AM View: 2025AWQR-Time\_Series  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

Time Series



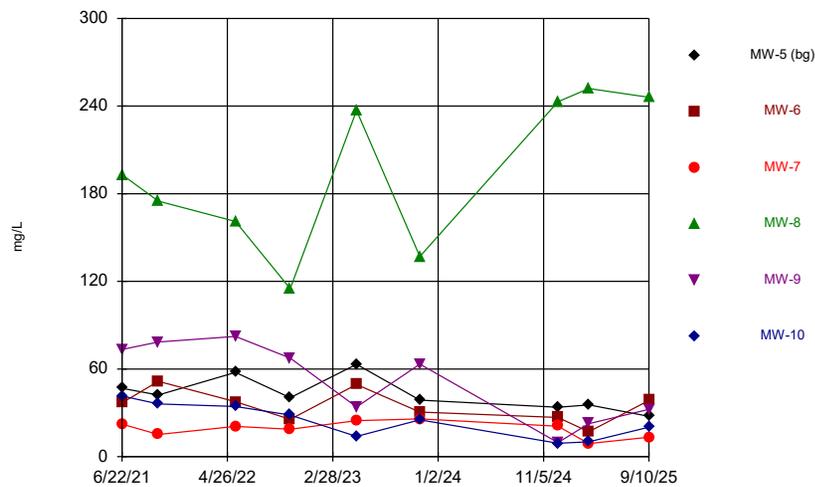
Constituent: Cadmium Analysis Run 2/6/2026 8:57 AM View: 2025AWQR-Time\_Series  
 Faircast Inc. Client: SCS Engineers Data: Faircast Inc

Time Series



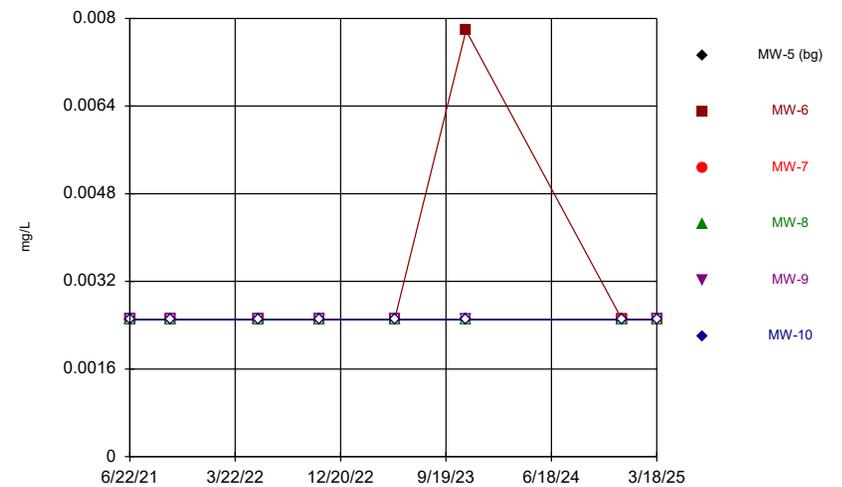
Constituent: Chemical Oxygen Demand Analysis Run 2/6/2026 8:57 AM View: 2025AWQR-Time\_Series  
 Faircast Inc. Client: SCS Engineers Data: Faircast Inc

Time Series



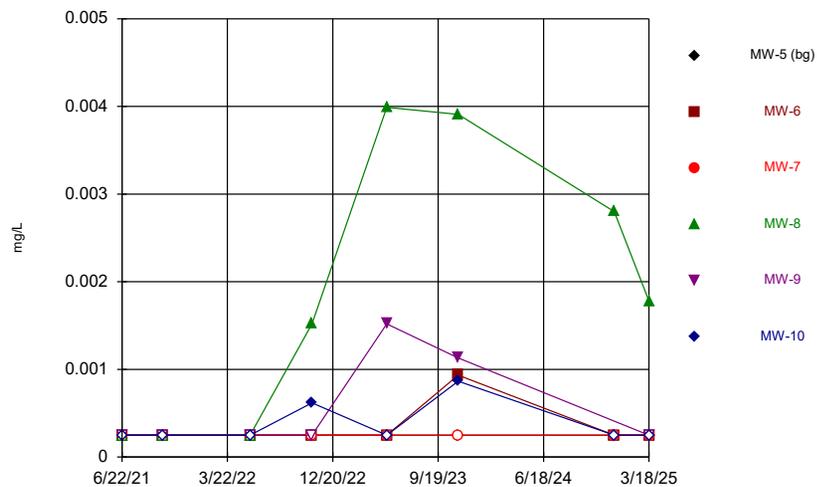
Constituent: Chloride Analysis Run 2/6/2026 8:57 AM View: 2025AWQR-Time\_Series  
 Faircast Inc. Client: SCS Engineers Data: Faircast Inc

Time Series



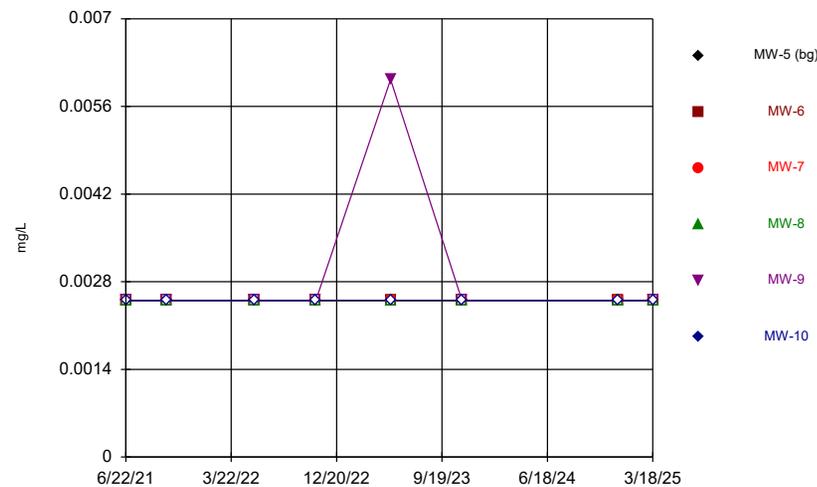
Constituent: Chromium Analysis Run 2/6/2026 8:57 AM View: 2025AWQR-Time\_Series  
 Faircast Inc. Client: SCS Engineers Data: Faircast Inc

### Time Series



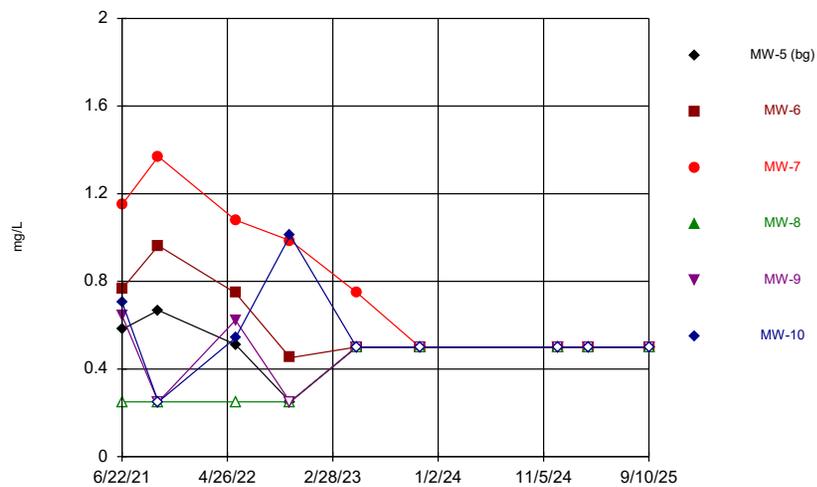
Constituent: Cobalt Analysis Run 2/6/2026 8:57 AM View: 2025AWQR-Time\_Series  
 Faircast Inc. Client: SCS Engineers Data: Faircast Inc

### Time Series



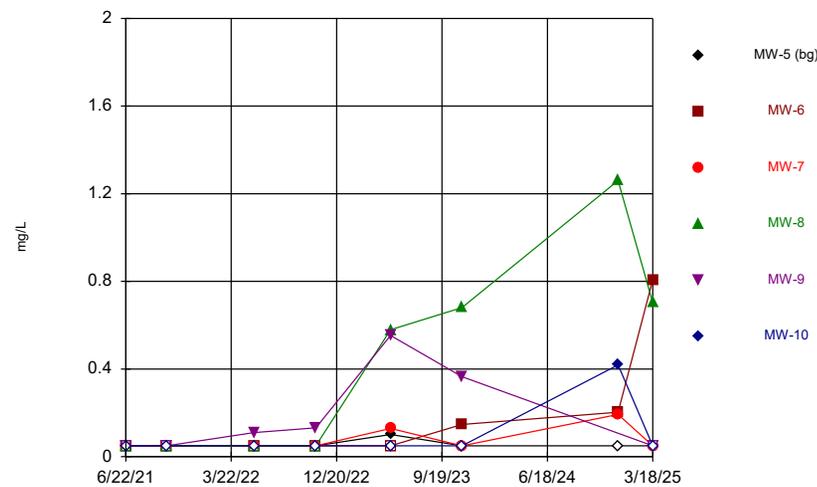
Constituent: Copper Analysis Run 2/6/2026 8:57 AM View: 2025AWQR-Time\_Series  
 Faircast Inc. Client: SCS Engineers Data: Faircast Inc

### Time Series



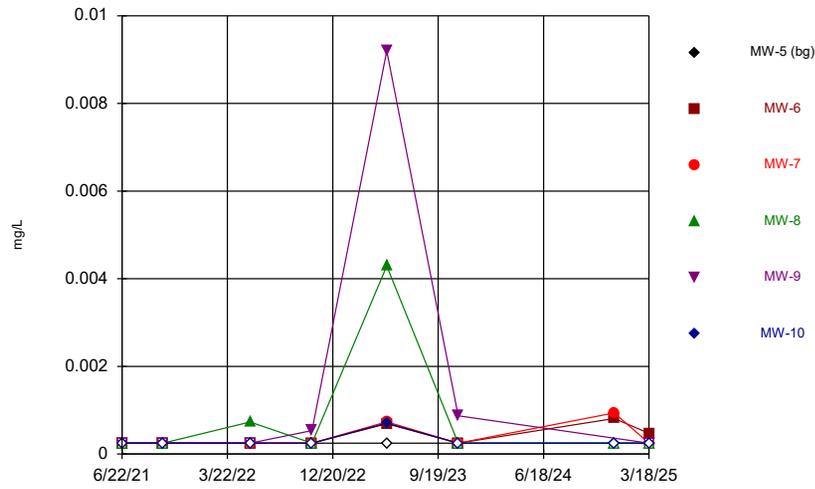
Constituent: Fluoride Analysis Run 2/6/2026 8:57 AM View: 2025AWQR-Time\_Series  
 Faircast Inc. Client: SCS Engineers Data: Faircast Inc

### Time Series



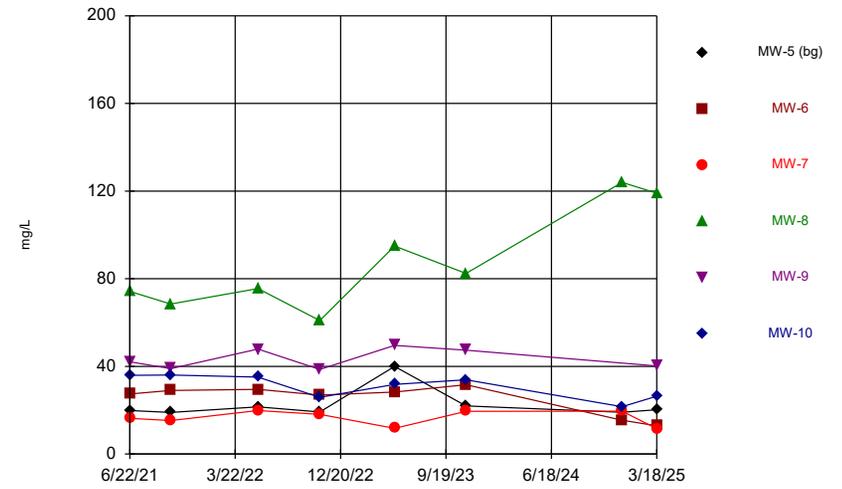
Constituent: Iron Analysis Run 2/6/2026 8:57 AM View: 2025AWQR-Time\_Series  
 Faircast Inc. Client: SCS Engineers Data: Faircast Inc

Time Series



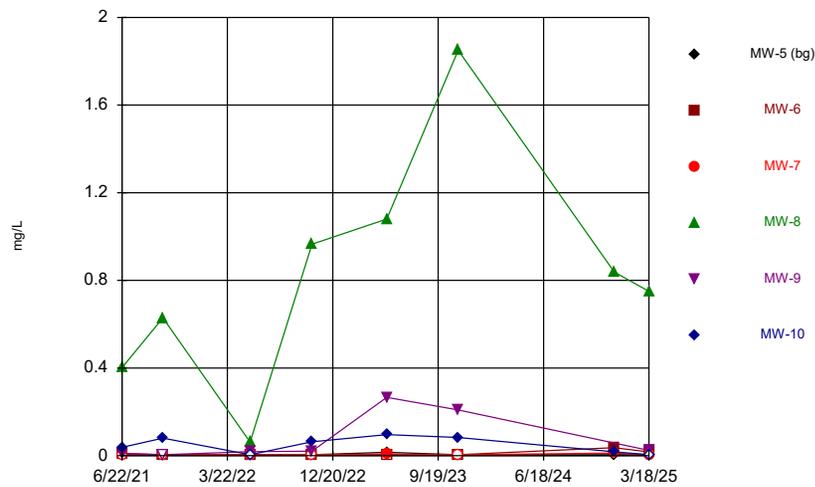
Constituent: Lead Analysis Run 2/6/2026 8:57 AM View: 2025AWQR-Time\_Series  
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Time Series



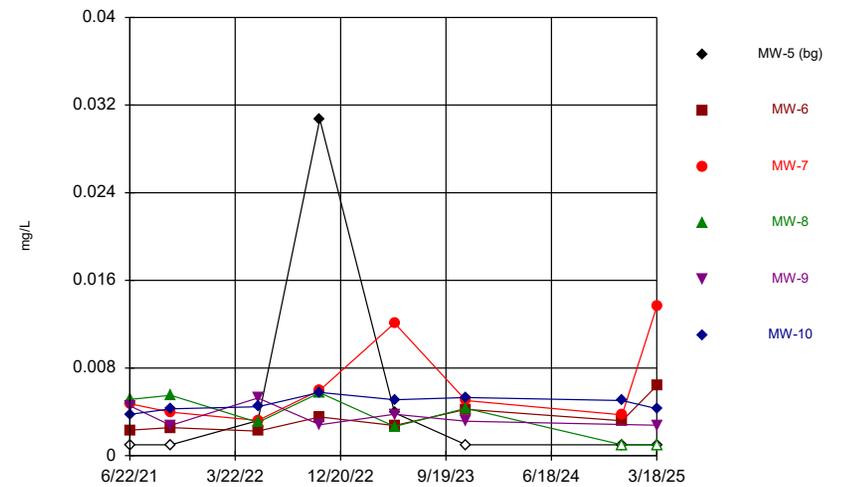
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 Faircast Inc. Client: SCS Engineers Data: Faircast Inc

Time Series



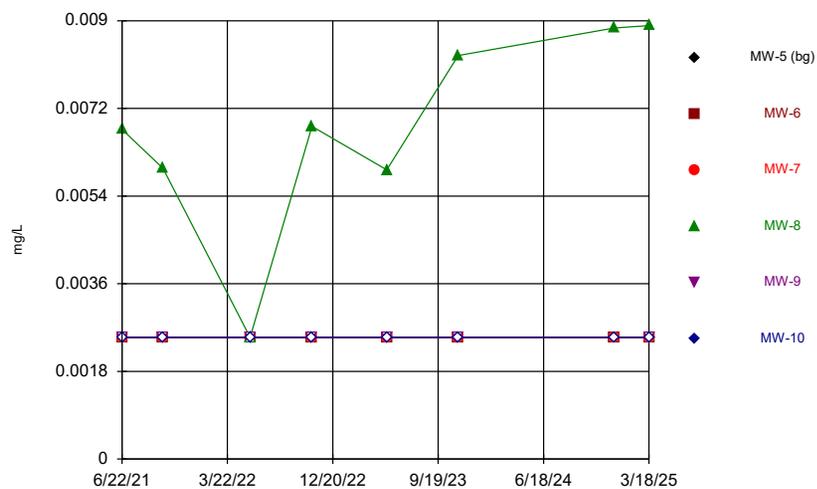
Constituent: Manganese Analysis Run 2/6/2026 8:57 AM View: 2025AWQR-Time\_Series  
 Faircast Inc. Client: SCS Engineers Data: Faircast Inc

Time Series



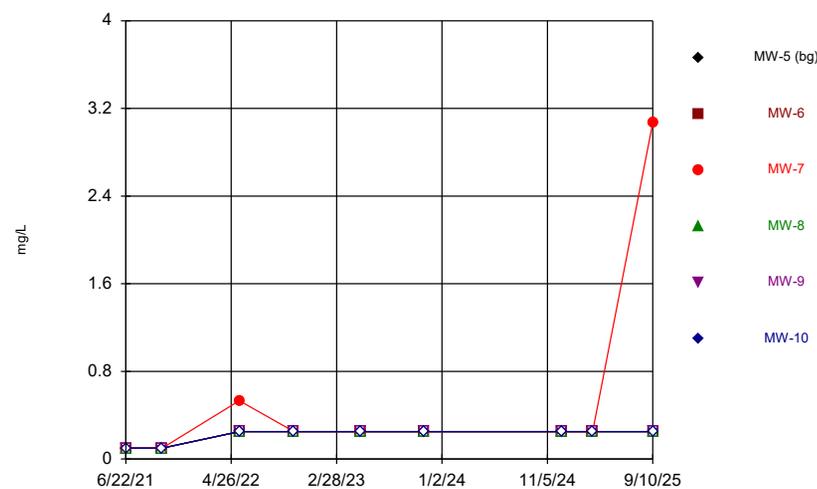
Constituent: Molybdenum Analysis Run 2/6/2026 8:57 AM View: 2025AWQR-Time\_Series  
 Faircast Inc. Client: SCS Engineers Data: Faircast Inc

### Time Series



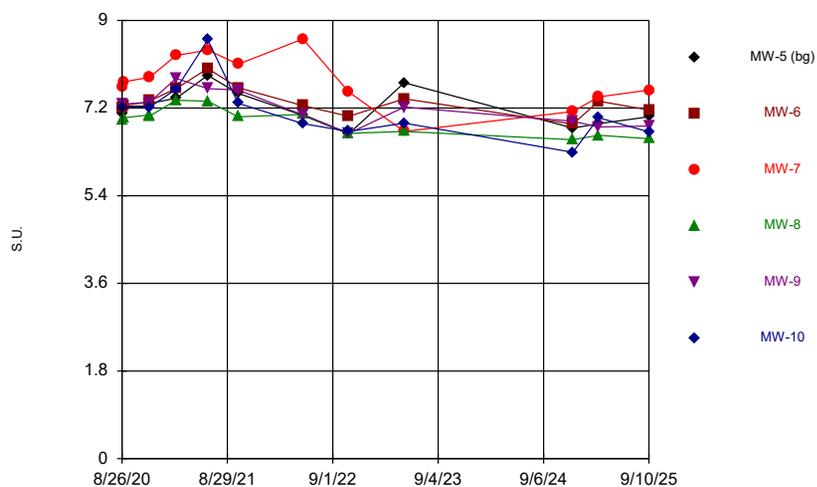
Constituent: Nickel Analysis Run 2/6/2026 8:57 AM View: 2025AWQR-Time\_Series  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

### Time Series



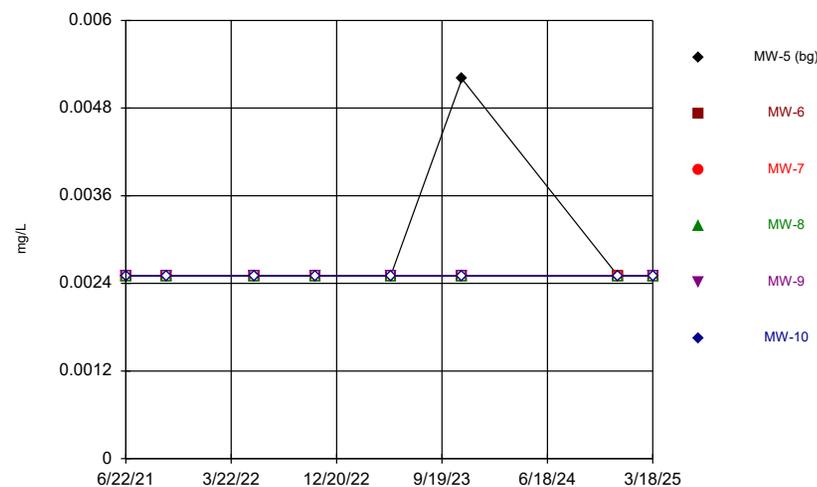
Constituent: Nitrogen, Ammonia Analysis Run 2/6/2026 8:57 AM View: 2025AWQR-Time\_Series  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

### Time Series



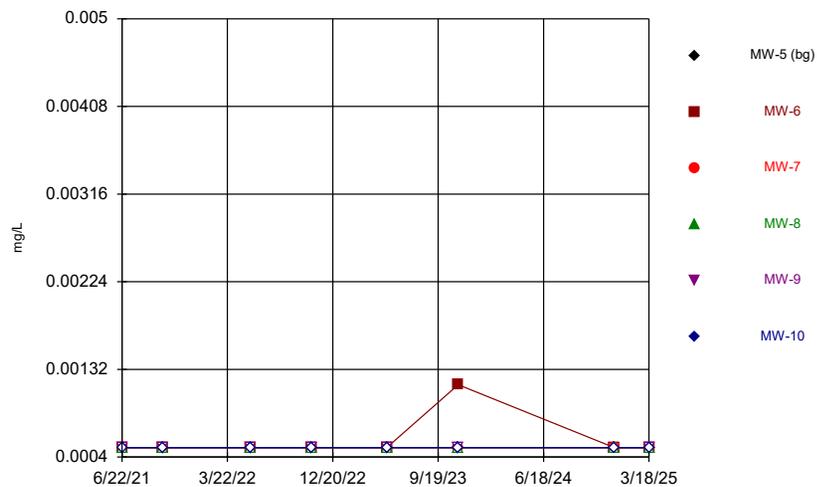
Constituent: pH Analysis Run 2/6/2026 8:57 AM View: 2025AWQR-Time\_Series  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

### Time Series



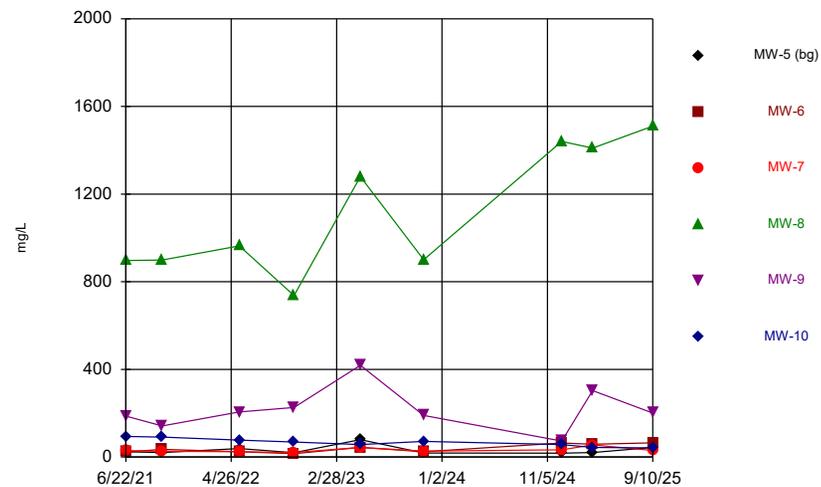
Constituent: Selenium Analysis Run 2/6/2026 8:57 AM View: 2025AWQR-Time\_Series  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

### Time Series



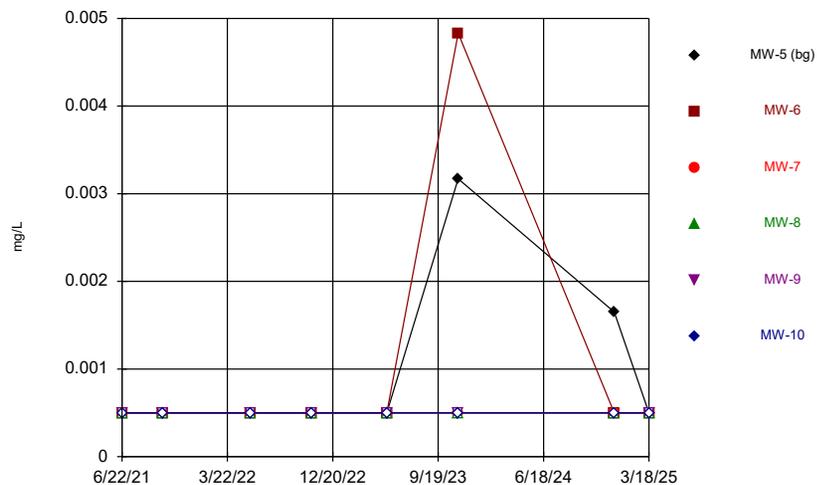
Constituent: Silver Analysis Run 2/6/2026 8:58 AM View: 2025AWQR-Time\_Series  
 Faircast Inc. Client: SCS Engineers Data: Faircast Inc

### Time Series



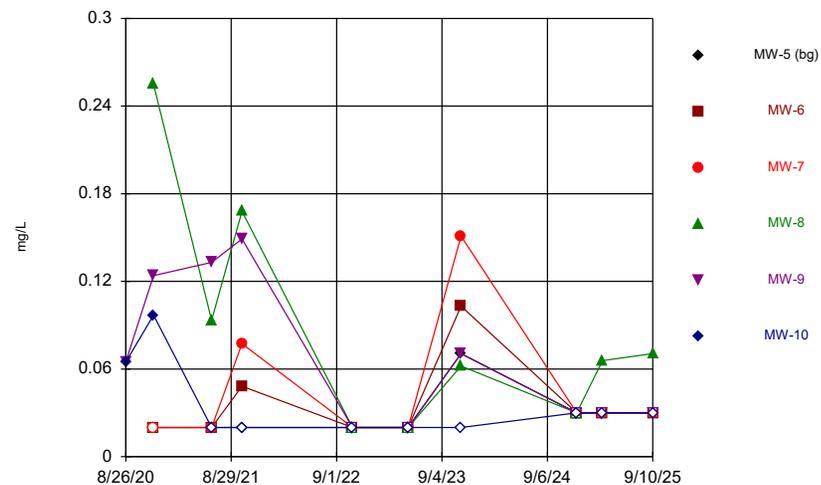
Constituent: Sulfate Analysis Run 2/6/2026 8:58 AM View: 2025AWQR-Time\_Series  
 Faircast Inc. Client: SCS Engineers Data: Faircast Inc

### Time Series



Constituent: Thallium Analysis Run 2/6/2026 8:58 AM View: 2025AWQR-Time\_Series  
 Faircast Inc. Client: SCS Engineers Data: Faircast Inc

### Time Series



Constituent: Total Organic Halogens Analysis Run 2/6/2026 8:58 AM View: 2025AWQR-Time\_Series  
 Faircast Inc. Client: SCS Engineers Data: Faircast Inc

## Attachment B

### Outliers

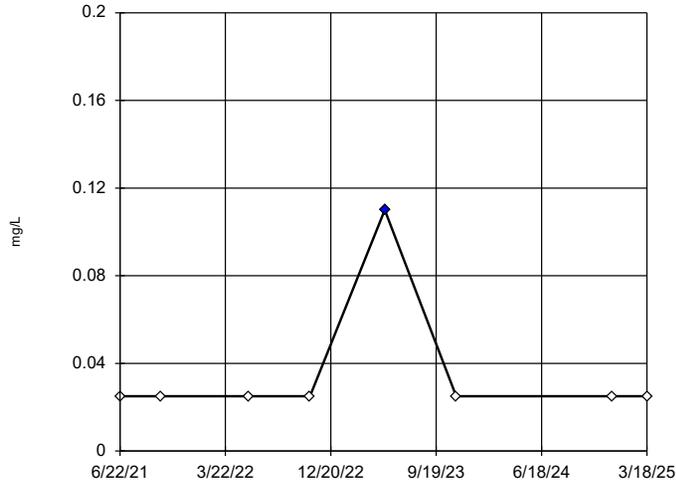
# BG Outlier Analysis

Faircast Inc. Client: SCS Engineers Data: Faircast Inc Printed 2/6/2026, 9:04 AM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
<b>Aluminum (mg/L)</b>	<b>MW-5 (bg)</b>	<b>Yes</b>	<b>0.11</b>	<b>5/9/2023</b>	<b>OH</b>	<b>NaN</b>	<b>8</b>	<b>0.03563</b>	<b>0.03005</b>	<b>n/a</b>	<b>n/a</b>
Barium (mg/L)	MW-5 (bg)	No	n/a	n/a	EPA/OH	0.05	8	0.4966	0.04569	normal	ShapiroWilk
<b>Boron (mg/L)</b>	<b>MW-5 (bg)</b>	<b>Yes</b>	<b>0.144</b>	<b>11/10/2023</b>	<b>OH</b>	<b>NaN</b>	<b>8</b>	<b>0.06175</b>	<b>0.03323</b>	<b>n/a</b>	<b>n/a</b>
<b>Chemical Oxygen Demand (mg/L)</b>	<b>MW-5 (bg)</b>	<b>Yes</b>	<b>64.5</b>	<b>6/22/2021</b>	<b>OH</b>	<b>NaN</b>	<b>9</b>	<b>19.94</b>	<b>17.43</b>	<b>n/a</b>	<b>n/a</b>
Chloride (mg/L)	MW-5 (bg)	No	n/a	n/a	EPA/OH	0.05	9	42.88	11.41	normal	ShapiroWilk
Fluoride (mg/L)	MW-5 (bg)	No	n/a	n/a	EPA/OH	0.05	9	0.5012	0.1103	unknown	ShapiroWilk
<b>Iron (mg/L)</b>	<b>MW-5 (bg)</b>	<b>Yes</b>	<b>0.101</b>	<b>5/9/2023</b>	<b>OH</b>	<b>NaN</b>	<b>8</b>	<b>0.05638</b>	<b>0.01803</b>	<b>n/a</b>	<b>n/a</b>
<b>Magnesium (mg/L)</b>	<b>MW-5 (bg)</b>	<b>Yes</b>	<b>40</b>	<b>5/9/2023</b>	<b>Dixon/OH</b>	<b>0.01</b>	<b>8</b>	<b>22.61</b>	<b>7.113</b>	<b>normal</b>	<b>ShapiroWilk</b>
<b>Manganese (mg/L)</b>	<b>MW-5 (bg)</b>	<b>Yes</b>	<b>0.0155</b>	<b>5/9/2023</b>	<b>OH</b>	<b>NaN</b>	<b>8</b>	<b>0.006312</b>	<b>0.003712</b>	<b>n/a</b>	<b>n/a</b>
<b>Molybdenum (mg/L)</b>	<b>MW-5 (bg)</b>	<b>Yes</b>	<b>0.0307</b>	<b>10/27/2022</b>	<b>NP (nrm)/OH</b>	<b>NaN</b>	<b>8</b>	<b>0.005351</b>	<b>0.01031</b>	<b>unknown</b>	<b>ShapiroWilk</b>
pH (S.U.)	MW-5 (bg)	No	n/a	n/a	EPA/OH	0.05	13	7.213	0.351	normal	ShapiroWilk
<b>Selenium (mg/L)</b>	<b>MW-5 (bg)</b>	<b>Yes</b>	<b>0.0052</b>	<b>11/10/2023</b>	<b>OH</b>	<b>NaN</b>	<b>8</b>	<b>0.002837</b>	<b>0.0009546</b>	<b>n/a</b>	<b>n/a</b>
Sulfate (mg/L)	MW-5 (bg)	No	n/a	n/a	EPA/OH	0.05	9	31.63	20.29	ln(x)	ShapiroWilk
<b>Thallium (mg/L)</b>	<b>MW-5 (bg)</b>	<b>Yes</b>	<b>0.00317</b>	<b>11/10/2023</b>	<b>OH</b>	<b>NaN</b>	<b>8</b>	<b>0.0009775</b>	<b>0.000973</b>	<b>n/a</b>	<b>n/a</b>
<b>Total Organic Halogens (mg/L)</b>	<b>MW-5 (bg)</b>	<b>Yes</b>	<b>0.0706</b>	<b>11/10/2023</b>	<b>OH</b>	<b>NaN</b>	<b>9</b>	<b>0.02896</b>	<b>0.01635</b>	<b>n/a</b>	<b>n/a</b>

### Ohio EPA 0715 Outlier Algorithm

MW-5 (bg)

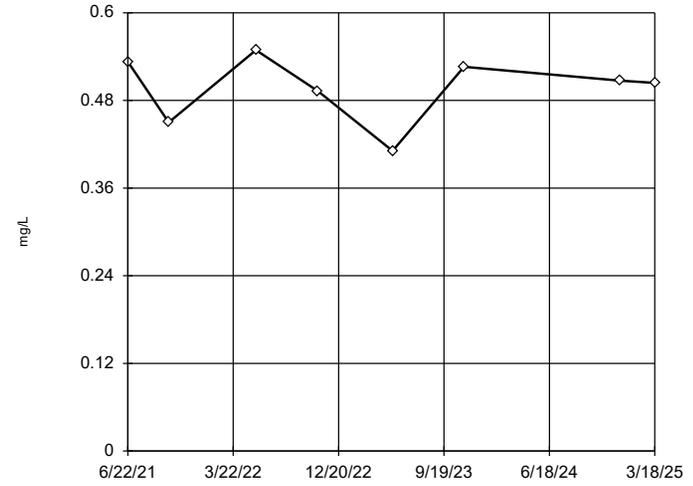


n = 8  
 Statistical outlier is drawn as solid.  
 Outlier per Ohio method.

Constituent: Aluminum Analysis Run 2/6/2026 9:02 AM View: 2025AWQR-BG\_Outliers  
 Faircast Inc. Client: SCS Engineers Data: Faircast Inc

### EPA Screening (suspected outliers for Dixon's Test)

MW-5 (bg)

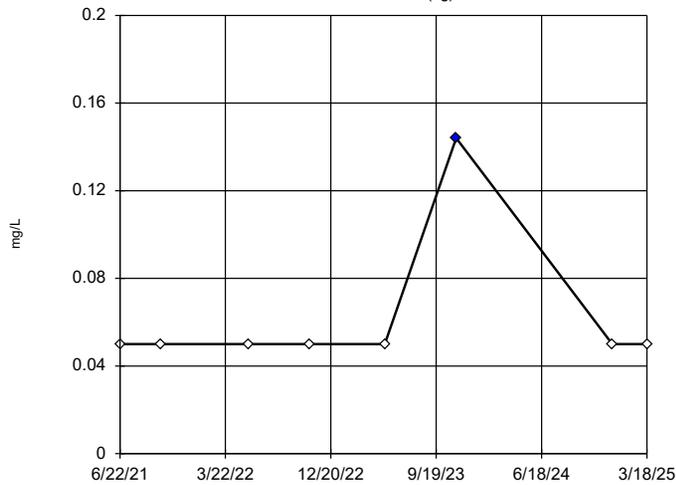


n = 8  
 Dixon's will not be run. No suspect values identified or unable to establish suspect values. Ohio method in use. Mean 0.4966, std. dev. 0.04569, critical Tn 2.032  
 Normality test used: Shapiro Wilk @alpha = 0.01  
 Calculated = 0.9162  
 Critical = 0.749  
 The distribution was found to be normally distributed.

Constituent: Barium Analysis Run 2/6/2026 9:02 AM View: 2025AWQR-BG\_Outliers  
 Faircast Inc. Client: SCS Engineers Data: Faircast Inc

### Ohio EPA 0715 Outlier Algorithm

MW-5 (bg)

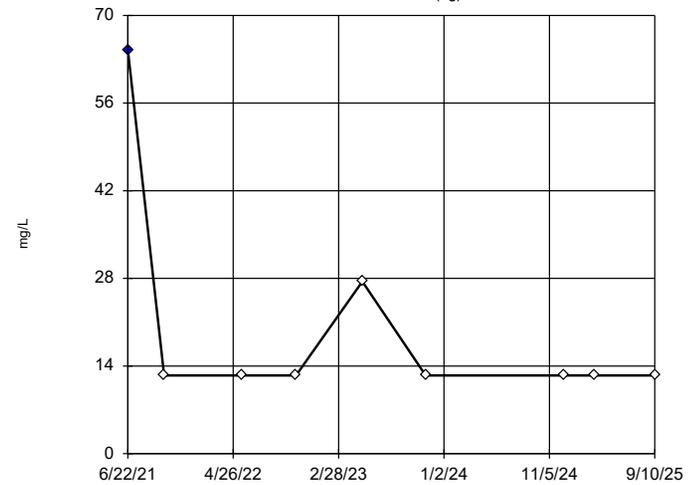


n = 8  
 Statistical outlier is drawn as solid.  
 Outlier per Ohio method.

Constituent: Boron Analysis Run 2/6/2026 9:02 AM View: 2025AWQR-BG\_Outliers  
 Faircast Inc. Client: SCS Engineers Data: Faircast Inc

### Ohio EPA 0715 Outlier Algorithm

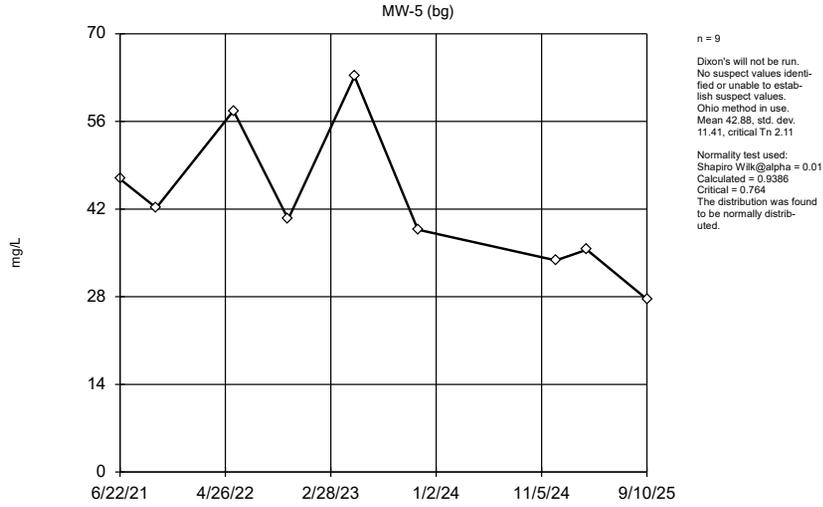
MW-5 (bg)



n = 9  
 Statistical outlier is drawn as solid.  
 Outlier per Ohio method.

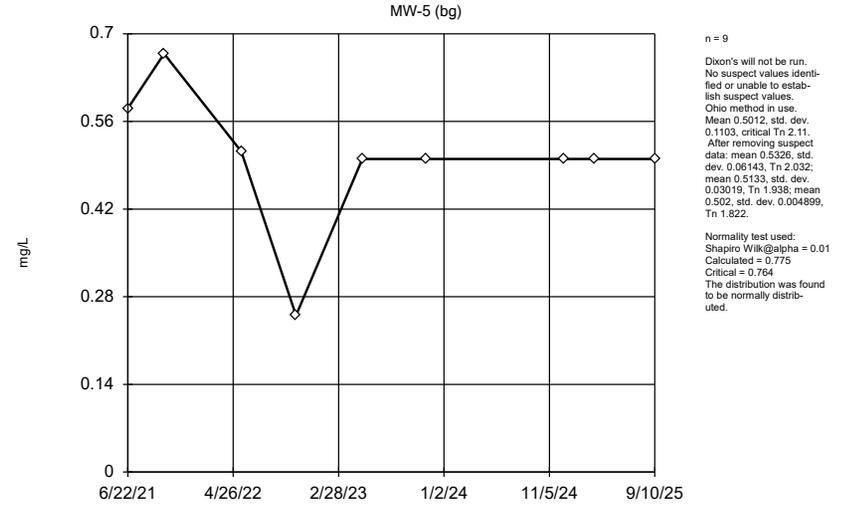
Constituent: Chemical Oxygen Demand Analysis Run 2/6/2026 9:02 AM View: 2025AWQR-BG\_Outliers  
 Faircast Inc. Client: SCS Engineers Data: Faircast Inc

### EPA Screening (suspected outliers for Dixon's Test)



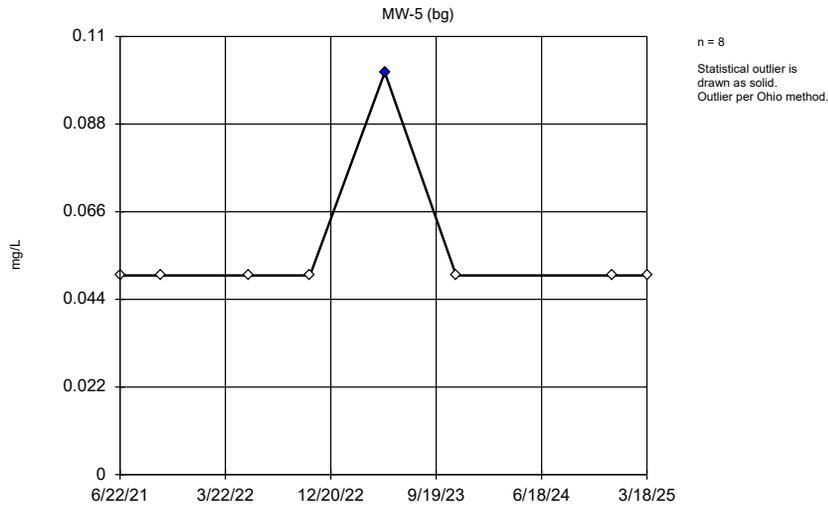
Constituent: Chloride Analysis Run 2/6/2026 9:02 AM View: 2025AWQR-BG\_Outliers  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

### EPA Screening (suspected outliers for Dixon's Test)



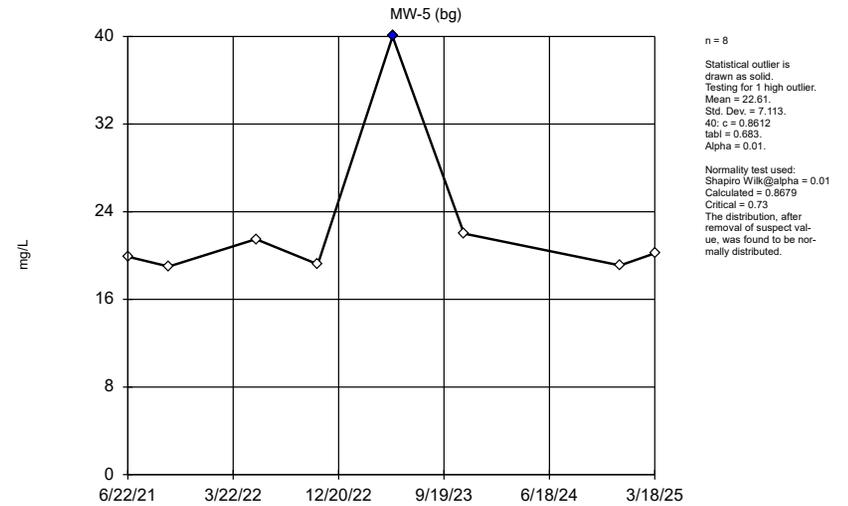
Constituent: Fluoride Analysis Run 2/6/2026 9:02 AM View: 2025AWQR-BG\_Outliers  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

### Ohio EPA 0715 Outlier Algorithm



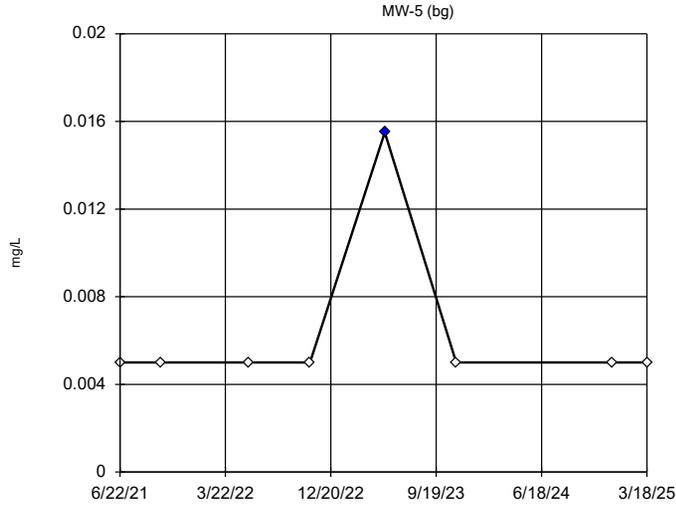
Constituent: Iron Analysis Run 2/6/2026 9:02 AM View: 2025AWQR-BG\_Outliers  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

### Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm



Constituent: Magnesium Analysis Run 2/6/2026 9:02 AM View: 2025AWQR-BG\_Outliers  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

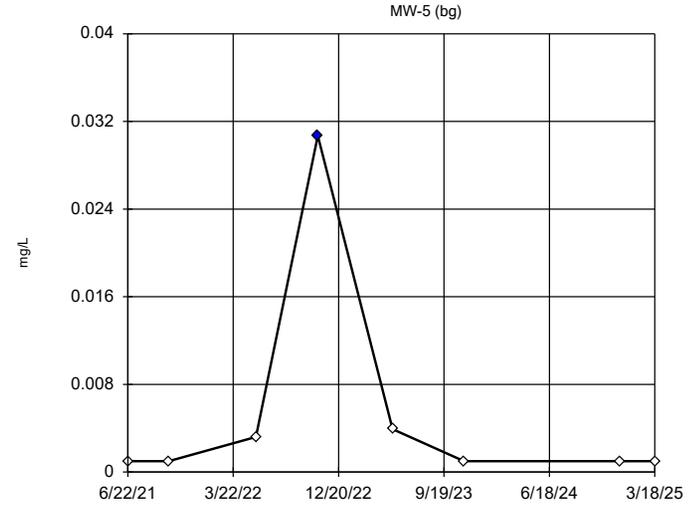
### Ohio EPA 0715 Outlier Algorithm



n = 8  
 Statistical outlier is drawn as solid.  
 Outlier per Ohio method.

Constituent: Manganese Analysis Run 2/6/2026 9:02 AM View: 2025AWQR-BG\_Outliers  
 Faircast Inc. Client: SCS Engineers Data: Faircast Inc

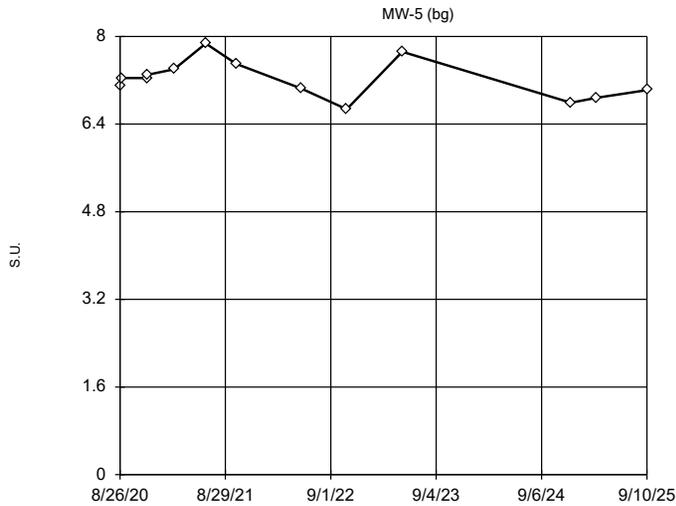
### Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm



n = 8  
 Outlier is drawn as solid.  
 Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.  
 High cutoff = 0.01122, low cutoff = -0.006665, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 2/6/2026 9:02 AM View: 2025AWQR-BG\_Outliers  
 Faircast Inc. Client: SCS Engineers Data: Faircast Inc

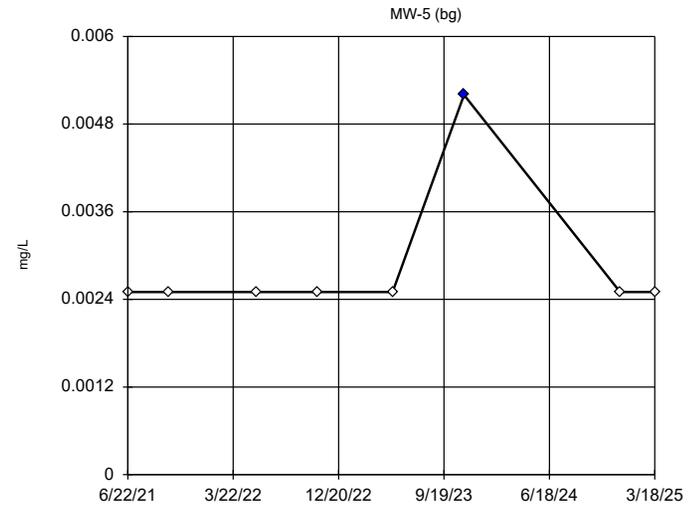
### EPA Screening (suspected outliers for Dixon's Test)



n = 13  
 Dixon's will not be run. No suspect values identified or unable to establish suspect values.  
 Ohio method in use. Mean 7.213, std. dev. 0.351, critical Tn 2.331  
 Normality test used: Shapiro Wilk@alpha = 0.01  
 Calculated = 0.9775  
 Critical = 0.814  
 The distribution was found to be normally distributed.

Constituent: pH Analysis Run 2/6/2026 9:02 AM View: 2025AWQR-BG\_Outliers  
 Faircast Inc. Client: SCS Engineers Data: Faircast Inc

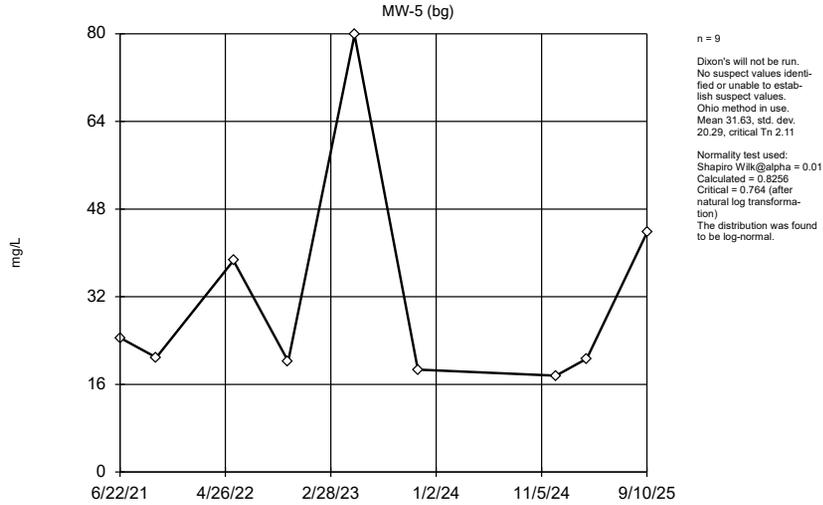
### Ohio EPA 0715 Outlier Algorithm



n = 8  
 Statistical outlier is drawn as solid.  
 Outlier per Ohio method.

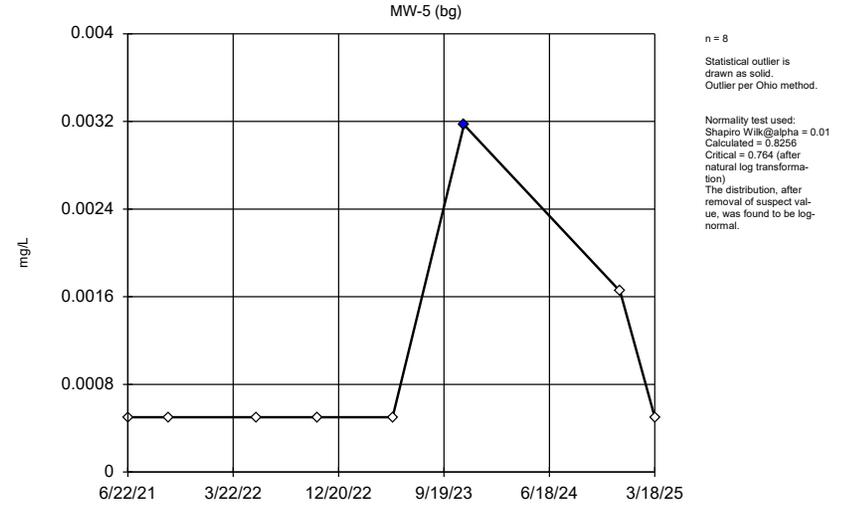
Constituent: Selenium Analysis Run 2/6/2026 9:02 AM View: 2025AWQR-BG\_Outliers  
 Faircast Inc. Client: SCS Engineers Data: Faircast Inc

EPA Screening (suspected outliers for Dixon's Test)



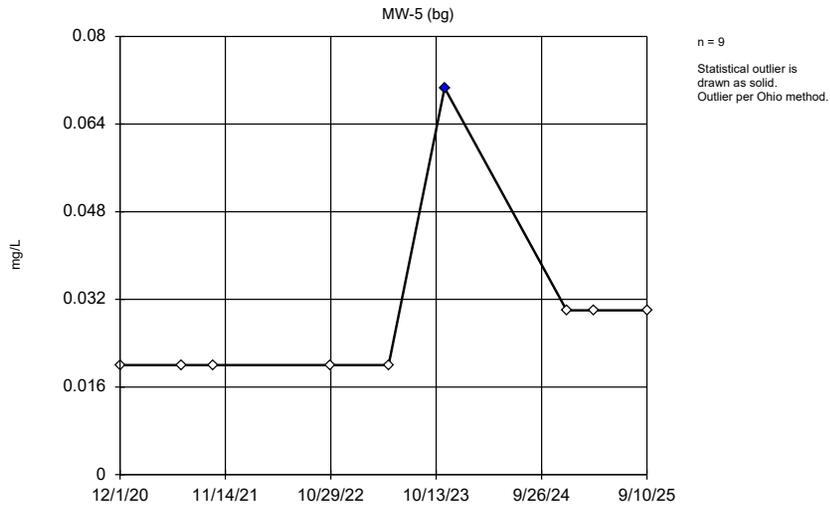
Constituent: Sulfate Analysis Run 2/6/2026 9:02 AM View: 2025AWQR-BG\_Outliers  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

Ohio EPA 0715 Outlier Algorithm



Constituent: Thallium Analysis Run 2/6/2026 9:02 AM View: 2025AWQR-BG\_Outliers  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

Ohio EPA 0715 Outlier Algorithm



Constituent: Total Organic Halogens Analysis Run 2/6/2026 9:02 AM View: 2025AWQR-BG\_Outliers  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

Attachment C  
Prediction Limits

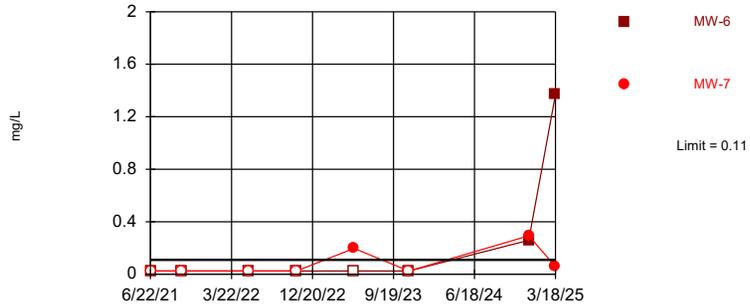
# Spring Prediction Limit

Faircast Inc. Client: SCS Engineers Data: Faircast Inc Printed 2/6/2026, 9:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	%NDs	Transform	Alpha	Method
<b>Aluminum (mg/L)</b>	<b>MW-6</b>	<b>0.11</b>	<b>n/a</b>	<b>3/18/2025</b>	<b>1.369</b>	<b>Yes</b>	<b>8</b>	<b>MW-5</b>	<b>87.5</b>	<b>n/a</b>	<b>0.01721</b>	<b>NP Inter (NDs) 1 of 2</b>
Aluminum (mg/L)	MW-7	0.11	n/a	3/18/2025	0.0582	No	8	MW-5	87.5	n/a	0.01721	NP Inter (NDs) 1 of 2
Barium (mg/L)	MW-6	0.6406	n/a	3/18/2025	0.115	No	8	MW-5	0	No	0.0006583	Param Inter 1 of 2
Barium (mg/L)	MW-7	0.6406	n/a	3/18/2025	0.102	No	8	MW-5	0	No	0.0006583	Param Inter 1 of 2
Barium (mg/L)	MW-8	0.6406	n/a	3/18/2025	0.0174	No	8	MW-5	0	No	0.0006583	Param Inter 1 of 2
Barium (mg/L)	MW-9	0.6406	n/a	3/18/2025	0.0919	No	8	MW-5	0	No	0.0006583	Param Inter 1 of 2
Barium (mg/L)	MW-10	0.6406	n/a	3/18/2025	0.0556	No	8	MW-5	0	No	0.0006583	Param Inter 1 of 2
Boron (mg/L)	MW-6	0.144	n/a	3/18/2025	0.075	No	8	MW-5	87.5	n/a	0.01721	NP Inter (NDs) 1 of 2
<b>Boron (mg/L)</b>	<b>MW-8</b>	<b>0.144</b>	<b>n/a</b>	<b>3/18/2025</b>	<b>0.489</b>	<b>Yes</b>	<b>8</b>	<b>MW-5</b>	<b>87.5</b>	<b>n/a</b>	<b>0.01721</b>	<b>NP Inter (NDs) 1 of 2</b>
Boron (mg/L)	MW-9	0.144	n/a	3/18/2025	0.125	No	8	MW-5	87.5	n/a	0.01721	NP Inter (NDs) 1 of 2
<b>Boron (mg/L)</b>	<b>MW-10</b>	<b>0.144</b>	<b>n/a</b>	<b>3/18/2025</b>	<b>0.155</b>	<b>Yes</b>	<b>8</b>	<b>MW-5</b>	<b>87.5</b>	<b>n/a</b>	<b>0.01721</b>	<b>NP Inter (NDs) 1 of 2</b>
Chemical Oxygen Demand (mg/L)	MW-6	64.5	n/a	3/18/2025	21.75	No	8	MW-5	75	n/a	0.01721	NP Inter (NDs) 1 of 2
Chloride (mg/L)	MW-6	78.06	n/a	3/18/2025	17	No	8	MW-5	0	No	0.0006583	Param Inter 1 of 2
Chloride (mg/L)	MW-7	78.06	n/a	3/18/2025	8.98	No	8	MW-5	0	No	0.0006583	Param Inter 1 of 2
<b>Chloride (mg/L)</b>	<b>MW-8</b>	<b>78.06</b>	<b>n/a</b>	<b>3/18/2025</b>	<b>252</b>	<b>Yes</b>	<b>8</b>	<b>MW-5</b>	<b>0</b>	<b>No</b>	<b>0.0006583</b>	<b>Param Inter 1 of 2</b>
Chloride (mg/L)	MW-9	78.06	n/a	3/18/2025	22.6	No	8	MW-5	0	No	0.0006583	Param Inter 1 of 2
Chloride (mg/L)	MW-10	78.06	n/a	3/18/2025	10.2	No	8	MW-5	0	No	0.0006583	Param Inter 1 of 2
<b>Iron (mg/L)</b>	<b>MW-6</b>	<b>0.101</b>	<b>n/a</b>	<b>3/18/2025</b>	<b>0.8075</b>	<b>Yes</b>	<b>8</b>	<b>MW-5</b>	<b>87.5</b>	<b>n/a</b>	<b>0.01721</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Iron (mg/L)</b>	<b>MW-8</b>	<b>0.101</b>	<b>n/a</b>	<b>3/18/2025</b>	<b>0.703</b>	<b>Yes</b>	<b>8</b>	<b>MW-5</b>	<b>87.5</b>	<b>n/a</b>	<b>0.01721</b>	<b>NP Inter (NDs) 1 of 2</b>
Magnesium (mg/L)	MW-6	40	n/a	3/18/2025	12.9	No	8	MW-5	0	n/a	0.01721	NP Inter (normality) 1 of 2
Magnesium (mg/L)	MW-7	40	n/a	3/18/2025	11.6	No	8	MW-5	0	n/a	0.01721	NP Inter (normality) 1 of 2
<b>Magnesium (mg/L)</b>	<b>MW-8</b>	<b>40</b>	<b>n/a</b>	<b>3/18/2025</b>	<b>119</b>	<b>Yes</b>	<b>8</b>	<b>MW-5</b>	<b>0</b>	<b>n/a</b>	<b>0.01721</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Magnesium (mg/L)</b>	<b>MW-9</b>	<b>40</b>	<b>n/a</b>	<b>3/18/2025</b>	<b>40.2</b>	<b>Yes</b>	<b>8</b>	<b>MW-5</b>	<b>0</b>	<b>n/a</b>	<b>0.01721</b>	<b>NP Inter (normality) 1 of 2</b>
Magnesium (mg/L)	MW-10	40	n/a	3/18/2025	26.4	No	8	MW-5	0	n/a	0.01721	NP Inter (normality) 1 of 2
<b>Manganese (mg/L)</b>	<b>MW-6</b>	<b>0.0155</b>	<b>n/a</b>	<b>3/18/2025</b>	<b>0.01685</b>	<b>Yes</b>	<b>8</b>	<b>MW-5</b>	<b>87.5</b>	<b>n/a</b>	<b>0.01721</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Manganese (mg/L)</b>	<b>MW-8</b>	<b>0.0155</b>	<b>n/a</b>	<b>3/18/2025</b>	<b>0.75</b>	<b>Yes</b>	<b>8</b>	<b>MW-5</b>	<b>87.5</b>	<b>n/a</b>	<b>0.01721</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Manganese (mg/L)</b>	<b>MW-9</b>	<b>0.0155</b>	<b>n/a</b>	<b>3/18/2025</b>	<b>0.0245</b>	<b>Yes</b>	<b>8</b>	<b>MW-5</b>	<b>87.5</b>	<b>n/a</b>	<b>0.01721</b>	<b>NP Inter (NDs) 1 of 2</b>
Molybdenum (mg/L)	MW-6	0.0307	n/a	3/18/2025	0.00639	No	8	MW-5	62.5	n/a	0.01721	NP Inter (NDs) 1 of 2
Molybdenum (mg/L)	MW-7	0.0307	n/a	3/18/2025	0.0136	No	8	MW-5	62.5	n/a	0.01721	NP Inter (NDs) 1 of 2
Molybdenum (mg/L)	MW-9	0.0307	n/a	3/18/2025	0.00278	No	8	MW-5	62.5	n/a	0.01721	NP Inter (NDs) 1 of 2
Molybdenum (mg/L)	MW-10	0.0307	n/a	3/18/2025	0.00429	No	8	MW-5	62.5	n/a	0.01721	NP Inter (NDs) 1 of 2
pH (S.U.)	MW-6	8.184	6.275	3/18/2025	7.34	No	12	MW-5	0	No	0.0003291	Param Inter 1 of 2
pH (S.U.)	MW-7	8.184	6.275	3/18/2025	7.43	No	12	MW-5	0	No	0.0003291	Param Inter 1 of 2
pH (S.U.)	MW-8	8.184	6.275	3/18/2025	6.64	No	12	MW-5	0	No	0.0003291	Param Inter 1 of 2
pH (S.U.)	MW-9	8.184	6.275	3/18/2025	6.81	No	12	MW-5	0	No	0.0003291	Param Inter 1 of 2
pH (S.U.)	MW-10	8.184	6.275	3/18/2025	7	No	12	MW-5	0	No	0.0003291	Param Inter 1 of 2
Sulfate (mg/L)	MW-6	131.6	n/a	3/18/2025	58.1	No	8	MW-5	0	ln(x)	0.0006583	Param Inter 1 of 2
Sulfate (mg/L)	MW-7	131.6	n/a	3/18/2025	55.3	No	8	MW-5	0	ln(x)	0.0006583	Param Inter 1 of 2
<b>Sulfate (mg/L)</b>	<b>MW-8</b>	<b>131.6</b>	<b>n/a</b>	<b>3/18/2025</b>	<b>1410</b>	<b>Yes</b>	<b>8</b>	<b>MW-5</b>	<b>0</b>	<b>ln(x)</b>	<b>0.0006583</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>MW-9</b>	<b>131.6</b>	<b>n/a</b>	<b>3/18/2025</b>	<b>303</b>	<b>Yes</b>	<b>8</b>	<b>MW-5</b>	<b>0</b>	<b>ln(x)</b>	<b>0.0006583</b>	<b>Param Inter 1 of 2</b>
Sulfate (mg/L)	MW-10	131.6	n/a	3/18/2025	44.2	No	8	MW-5	0	ln(x)	0.0006583	Param Inter 1 of 2
Total Organic Halogens (mg/L)	MW-8	0.0706	n/a	3/18/2025	0.0658	No	8	MW-5	87.5	n/a	0.01721	NP Inter (NDs) 1 of 2

Exceeds Limit: MW-6

Prediction Limit  
Interwell Non-parametric

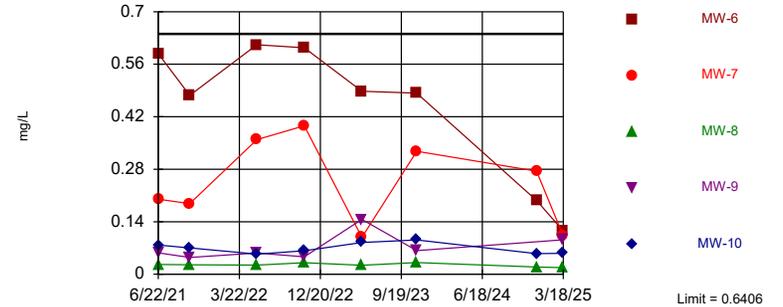


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 87.5% NDs. Annual per-constituent alpha = 0.1594. Individual comparison alpha = 0.01721 (1 of 2). Comparing 2 points to limit. Assumes 3 future values.

Constituent: Aluminum Analysis Run 2/6/2026 9:09 AM View: 2025AWQR-Interwell\_PL\_Spring  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

Within Limit

Prediction Limit  
Interwell Parametric

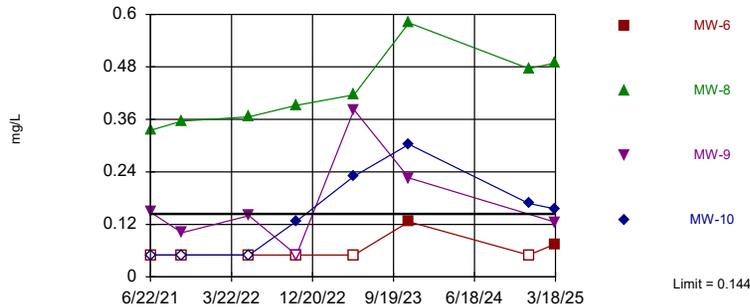


Background Data Summary: Mean=0.4966, Std. Dev.=0.04569, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9162, critical = 0.749. Kappa = 3.152 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.003287. Individual comparison alpha = 0.0006583. Comparing 5 points to limit.

Constituent: Barium Analysis Run 2/6/2026 9:09 AM View: 2025AWQR-Interwell\_PL\_Spring  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

Exceeds Limit: MW-8, MW-10

Prediction Limit  
Interwell Non-parametric

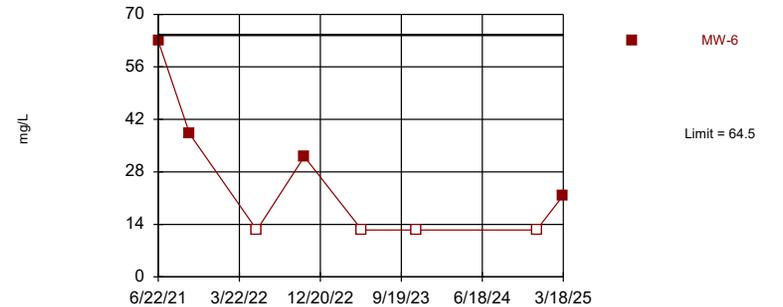


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 87.5% NDs. Annual per-constituent alpha = 0.1594. Individual comparison alpha = 0.01721 (1 of 2). Comparing 4 points to limit. Assumes 1 future value.

Constituent: Boron Analysis Run 2/6/2026 9:09 AM View: 2025AWQR-Interwell\_PL\_Spring  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

Within Limit

Prediction Limit  
Interwell Non-parametric

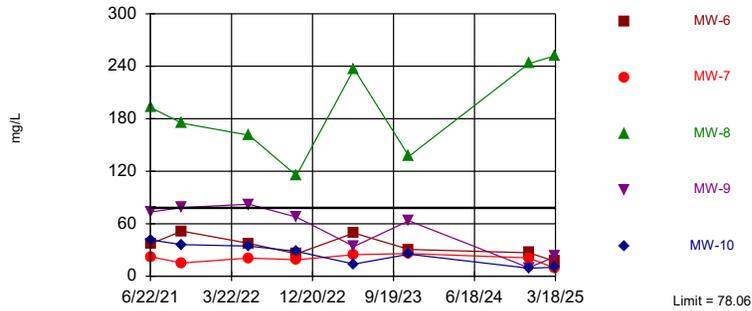


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 75% NDs. Annual per-constituent alpha = 0.1594. Individual comparison alpha = 0.01721 (1 of 2). Assumes 4 future values.

Constituent: Chemical Oxygen Demand Analysis Run 2/6/2026 9:09 AM View: 2025AWQR-Interwell\_PL\_Spring  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

Exceeds Limit: MW-8

Prediction Limit  
Interwell Parametric

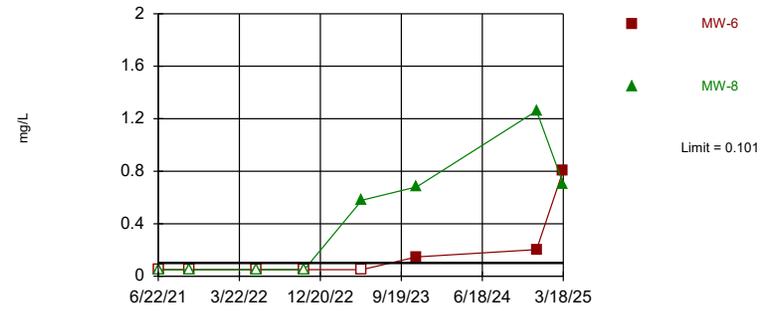


Background Data Summary: Mean=44.79, Std. Dev.=10.55, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.889, critical = 0.749. Kappa = 3.152 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.003287. Individual comparison alpha = 0.0006583. Comparing 5 points to limit.

Constituent: Chloride Analysis Run 2/6/2026 9:09 AM View: 2025AWQR-Interwell\_PL\_Spring  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

Hollow symbols indicate censored values.  
Exceeds Limit: MW-6, MW-8

Prediction Limit  
Interwell Non-parametric

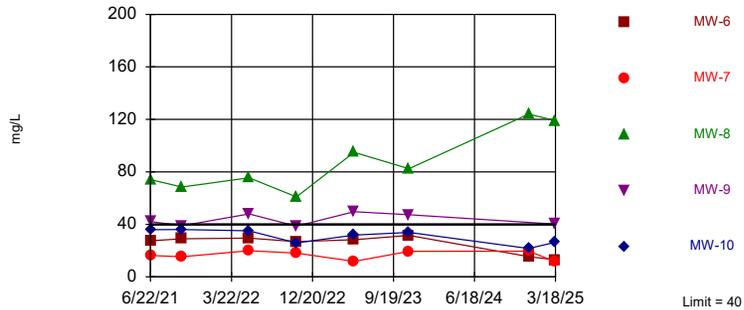


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 87.5% NDs. Annual per-constituent alpha = 0.1594. Individual comparison alpha = 0.01721 (1 of 2). Comparing 2 points to limit. Assumes 3 future values.

Constituent: Iron Analysis Run 2/6/2026 9:09 AM View: 2025AWQR-Interwell\_PL\_Spring  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

Exceeds Limit: MW-8, MW-9

Prediction Limit  
Interwell Non-parametric

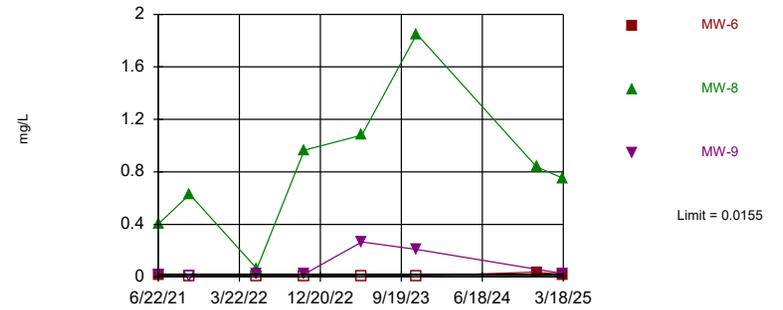


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 8 background values. Annual per-constituent alpha = 0.1594. Individual comparison alpha = 0.01721 (1 of 2). Comparing 5 points to limit.

Constituent: Magnesium Analysis Run 2/6/2026 9:09 AM View: 2025AWQR-Interwell\_PL\_Spring  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

Hollow symbols indicate censored values.  
Exceeds Limit: MW-6, MW-8, MW-9

Prediction Limit  
Interwell Non-parametric

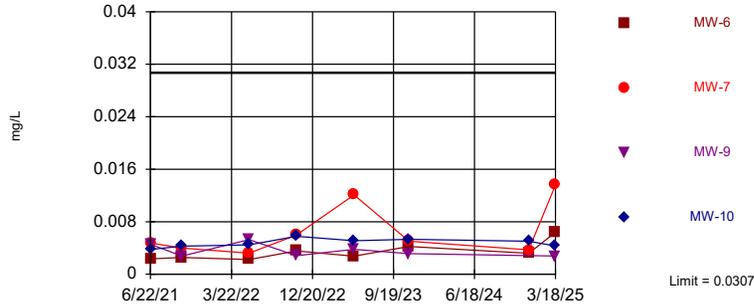


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 87.5% NDs. Annual per-constituent alpha = 0.1594. Individual comparison alpha = 0.01721 (1 of 2). Comparing 3 points to limit. Assumes 2 future values.

Constituent: Manganese Analysis Run 2/6/2026 9:09 AM View: 2025AWQR-Interwell\_PL\_Spring  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

Within Limit

### Prediction Limit Interwell Non-parametric

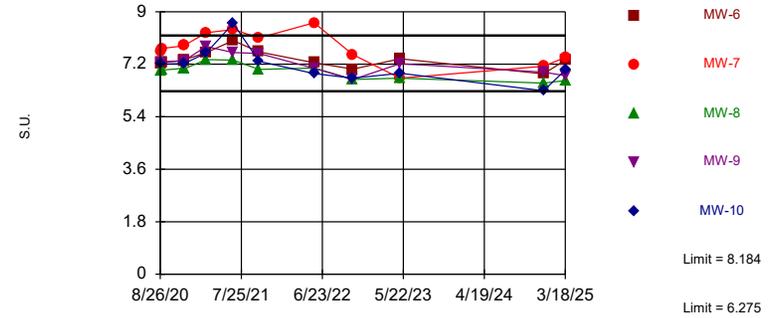


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 62.5% NDs. Annual per-constituent alpha = 0.1594. Individual comparison alpha = 0.01721 (1 of 2). Comparing 4 points to limit. Assumes 1 future value.

Constituent: Molybdenum Analysis Run 2/6/2026 9:09 AM View: 2025AWQR-Interwell\_PL\_Spring  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

Within Limits

### Prediction Limit Interwell Parametric

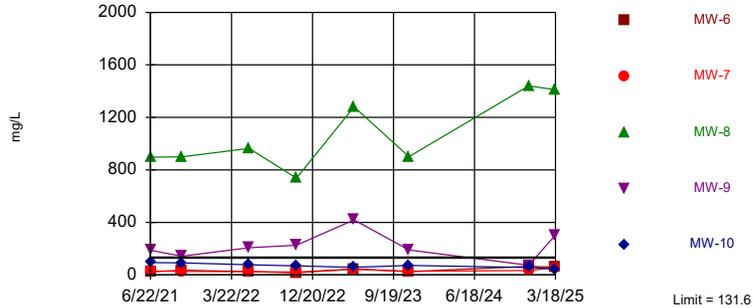


Background Data Summary: Mean=7.229, Std. Dev.=0.3616, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.979, critical = 0.805. Kappa = 2.64 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.003287. Individual comparison alpha = 0.0003291. Comparing 5 points to limit.

Constituent: pH Analysis Run 2/6/2026 9:09 AM View: 2025AWQR-Interwell\_PL\_Spring  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

Exceeds Limit: MW-8, MW-9

### Prediction Limit Interwell Parametric



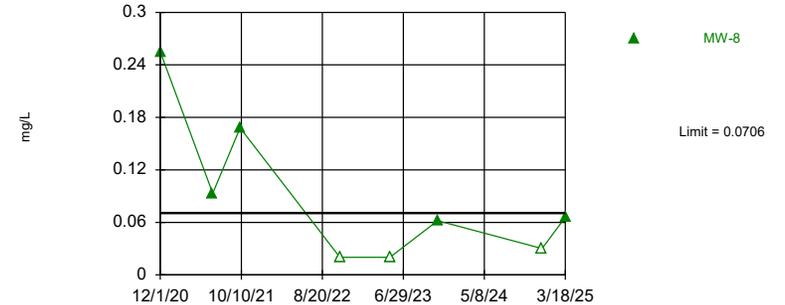
Background Data Summary (based on natural log transformation): Mean=3.263, Std. Dev.=0.5129, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.754, critical = 0.749. Kappa = 3.152 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.003287. Individual comparison alpha = 0.0006583. Comparing 5 points to limit.

Constituent: Sulfate Analysis Run 2/6/2026 9:09 AM View: 2025AWQR-Interwell\_PL\_Spring  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 87.5% NDs. Annual per-constituent alpha = 0.1594. Individual comparison alpha = 0.01721 (1 of 2). Assumes 4 future values.

Constituent: Total Organic Halogens Analysis Run 2/6/2026 9:09 AM View: 2025AWQR-Interwell\_PL\_Spring  
Faircast Inc. Client: SCS Engineers Data: Faircast Inc

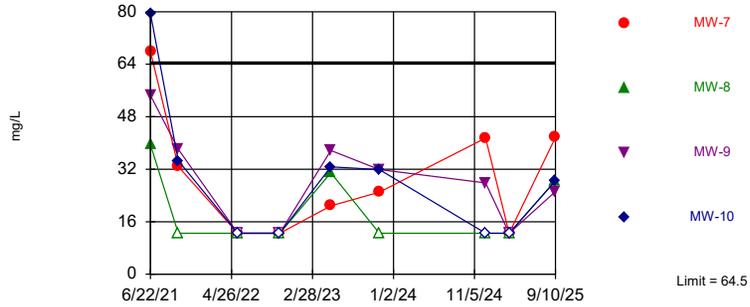
# Fall Prediction Limit

Faircast Inc. Client: SCS Engineers Data: Faircast Inc Printed 2/6/2026, 9:24 AM

<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>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Chemical Oxygen Demand (mg/L)	MW-7	64.5	n/a	9/10/2025	41.7	No	9	MW-5	77.78	n/a	0.01481	NP Inter (NDs) 1 of 2
Chemical Oxygen Demand (mg/L)	MW-8	64.5	n/a	9/10/2025	28.5	No	9	MW-5	77.78	n/a	0.01481	NP Inter (NDs) 1 of 2
Chemical Oxygen Demand (mg/L)	MW-9	64.5	n/a	9/10/2025	25.2	No	9	MW-5	77.78	n/a	0.01481	NP Inter (NDs) 1 of 2
Chemical Oxygen Demand (mg/L)	MW-10	64.5	n/a	9/10/2025	28.5	No	9	MW-5	77.78	n/a	0.01481	NP Inter (NDs) 1 of 2
Chloride (mg/L)	MW-6	77.01	n/a	9/10/2025	38.55	No	9	MW-5	0	No	0.0006583	Param Inter 1 of 2
Chloride (mg/L)	MW-7	77.01	n/a	9/10/2025	13.3	No	9	MW-5	0	No	0.0006583	Param Inter 1 of 2
<b>Chloride (mg/L)</b>	<b>MW-8</b>	<b>77.01</b>	<b>n/a</b>	<b>9/10/2025</b>	<b>246</b>	<b>Yes</b>	<b>9</b>	<b>MW-5</b>	<b>0</b>	<b>No</b>	<b>0.0006583</b>	<b>Param Inter 1 of 2</b>
Chloride (mg/L)	MW-9	77.01	n/a	9/10/2025	32.4	No	9	MW-5	0	No	0.0006583	Param Inter 1 of 2
Chloride (mg/L)	MW-10	77.01	n/a	9/10/2025	20.2	No	9	MW-5	0	No	0.0006583	Param Inter 1 of 2
pH (S.U.)	MW-6	8.121	6.305	9/10/2025	7.16	No	13	MW-5	0	No	0.0003291	Param Inter 1 of 2
pH (S.U.)	MW-7	8.121	6.305	9/10/2025	7.57	No	13	MW-5	0	No	0.0003291	Param Inter 1 of 2
pH (S.U.)	MW-8	8.121	6.305	9/10/2025	6.57	No	13	MW-5	0	No	0.0003291	Param Inter 1 of 2
pH (S.U.)	MW-9	8.121	6.305	9/10/2025	6.83	No	13	MW-5	0	No	0.0003291	Param Inter 1 of 2
pH (S.U.)	MW-10	8.121	6.305	9/10/2025	6.71	No	13	MW-5	0	No	0.0003291	Param Inter 1 of 2
Sulfate (mg/L)	MW-6	102.3	n/a	9/10/2025	65	No	9	MW-5	0	sqrt(x)	0.0006583	Param Inter 1 of 2
Sulfate (mg/L)	MW-7	102.3	n/a	9/10/2025	29.9	No	9	MW-5	0	sqrt(x)	0.0006583	Param Inter 1 of 2
<b>Sulfate (mg/L)</b>	<b>MW-8</b>	<b>102.3</b>	<b>n/a</b>	<b>9/10/2025</b>	<b>1510</b>	<b>Yes</b>	<b>9</b>	<b>MW-5</b>	<b>0</b>	<b>sqrt(x)</b>	<b>0.0006583</b>	<b>Param Inter 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>MW-9</b>	<b>102.3</b>	<b>n/a</b>	<b>9/10/2025</b>	<b>201</b>	<b>Yes</b>	<b>9</b>	<b>MW-5</b>	<b>0</b>	<b>sqrt(x)</b>	<b>0.0006583</b>	<b>Param Inter 1 of 2</b>
Sulfate (mg/L)	MW-10	102.3	n/a	9/10/2025	41.4	No	9	MW-5	0	sqrt(x)	0.0006583	Param Inter 1 of 2
Total Organic Halogens (mg/L)	MW-8	0.0706	n/a	9/10/2025	0.0705	No	9	MW-5	88.89	n/a	0.01481	NP Inter (NDs) 1 of 2

Within Limit

Prediction Limit  
Interwell Non-parametric

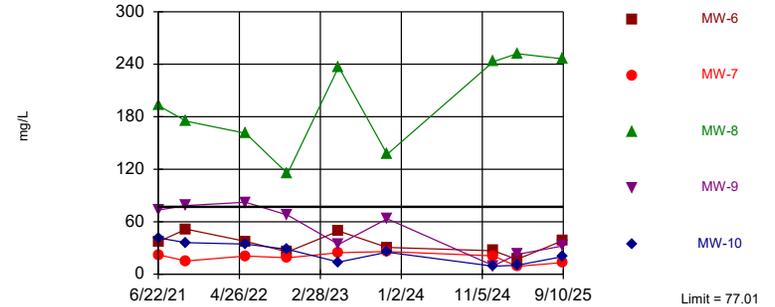


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 77.78% NDs. Annual per-constituent alpha = 0.1386. Individual comparison alpha = 0.01481 (1 of 2). Comparing 4 points to limit. Assumes 1 future value.

Constituent: Chemical Oxygen Demand Analysis Run 2/6/2026 9:23 AM View: 2025AWQR-Interwell\_PL\_Faircast Inc. Client: SCS Engineers Data: Faircast Inc

Exceeds Limit: MW-8

Prediction Limit  
Interwell Parametric

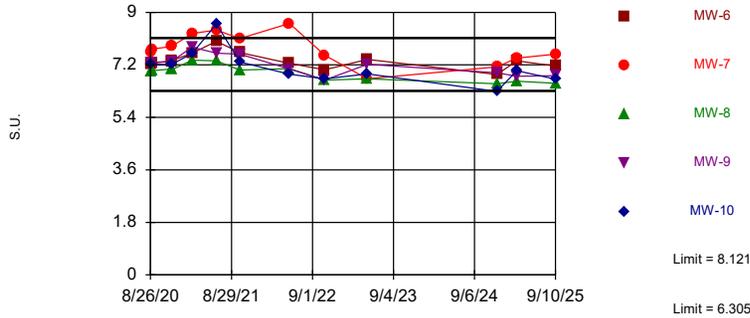


Background Data Summary: Mean=42.88, Std. Dev.=11.41, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9386, critical = 0.764. Kappa = 2.99 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.003287. Individual comparison alpha = 0.0006583. Comparing 5 points to limit.

Constituent: Chloride Analysis Run 2/6/2026 9:23 AM View: 2025AWQR-Interwell\_PL\_Fall Faircast Inc. Client: SCS Engineers Data: Faircast Inc

Within Limits

Prediction Limit  
Interwell Parametric

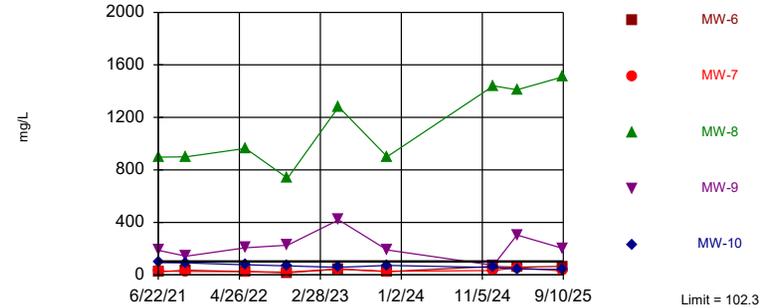


Background Data Summary: Mean=7.213, Std. Dev.=0.351, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9775, critical = 0.814. Kappa = 2.586 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.003287. Individual comparison alpha = 0.0003291. Comparing 5 points to limit.

Constituent: pH Analysis Run 2/6/2026 9:23 AM View: 2025AWQR-Interwell\_PL\_Fall Faircast Inc. Client: SCS Engineers Data: Faircast Inc

Exceeds Limit: MW-8, MW-9

Prediction Limit  
Interwell Parametric

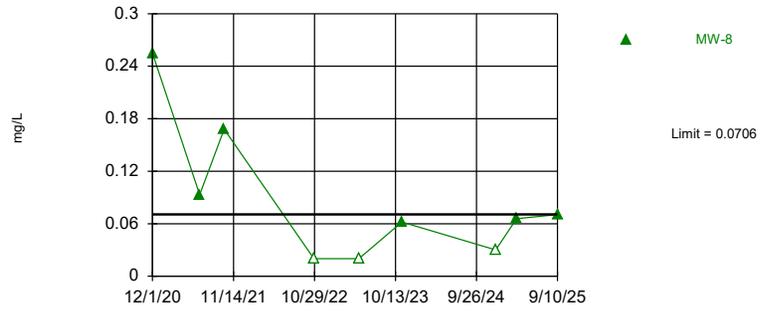


Background Data Summary (based on square root transformation): Mean=5.427, Std. Dev.=1.567, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7778, critical = 0.764. Kappa = 2.99 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.003287. Individual comparison alpha = 0.0006583. Comparing 5 points to limit.

Constituent: Sulfate Analysis Run 2/6/2026 9:23 AM View: 2025AWQR-Interwell\_PL\_Fall Faircast Inc. Client: SCS Engineers Data: Faircast Inc

Within Limit

### Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 88.89% NDs. Annual per-constituent alpha = 0.1386. Individual comparison alpha = 0.01481 (1 of 2). Assumes 4 future values.

Attachment D  
Trend Test ( $\alpha=0.01$ )

# Trend Test

Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS Printed 2/6/2026, 10:52 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Aluminum (mg/L)	MW-5 (bg)	0	1	21	No	8	87.5	0.01	NP
Aluminum (mg/L)	MW-6	0	13	21	No	8	75	0.01	NP
Aluminum (mg/L)	MW-7	0.009251	12	21	No	8	62.5	0.01	NP
Aluminum (mg/L)	MW-9	0.02181	4	18	No	7	28.57	0.01	NP
Aluminum (mg/L)	MW-10	0	5	21	No	8	87.5	0.01	NP
Arsenic (mg/L)	MW-7	-0.0003437	-14	-21	No	8	50	0.01	NP
Arsenic (mg/L)	MW-8	0.000405	14	21	No	8	50	0.01	NP
Barium (mg/L)	MW-5 (bg)	-0.007599	-4	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-6	-0.1143	-16	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-7	-0.02557	-4	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-8	-0.001928	-12	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-9	0.009386	9	18	No	7	0	0.01	NP
Barium (mg/L)	MW-10	-0.003193	-2	-21	No	8	0	0.01	NP
Boron (mg/L)	MW-5 (bg)	0	3	21	No	8	87.5	0.01	NP
Boron (mg/L)	MW-6	0	9	21	No	8	75	0.01	NP
Boron (mg/L)	MW-7	0	3	21	No	8	87.5	0.01	NP
<b>Boron (mg/L)</b>	<b>MW-8</b>	<b>0.04173</b>	<b>24</b>	<b>21</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	MW-9	0.006958	1	18	No	7	14.29	0.01	NP
Boron (mg/L)	MW-10	0.03697	15	21	No	8	37.5	0.01	NP
Cadmium (mg/L)	MW-8	0.00002093	17	21	No	8	87.5	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-5 (bg)	0	-1	-21	No	8	87.5	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-6	0	-8	-21	No	8	62.5	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-7	5.452	9	21	No	8	37.5	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-8	0	5	21	No	8	75	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-9	-3.087	-7	-21	No	8	37.5	0.01	NP
Chemical Oxygen Demand (mg/L)	MW-10	-0.5978	-6	-21	No	8	50	0.01	NP
Chloride (mg/L)	MW-5 (bg)	-4.07	-18	-21	No	8	0	0.01	NP
Chloride (mg/L)	MW-6	-4.406	-10	-21	No	8	0	0.01	NP
Chloride (mg/L)	MW-7	-1.143	-2	-21	No	8	0	0.01	NP
Chloride (mg/L)	MW-8	21.78	14	21	No	8	0	0.01	NP
Chloride (mg/L)	MW-9	-15.09	-18	-21	No	8	0	0.01	NP
Chloride (mg/L)	MW-10	-5.715	-18	-21	No	8	0	0.01	NP
Chromium (mg/L)	MW-6	0	3	21	No	8	87.5	0.01	NP
Cobalt (mg/L)	MW-6	0	3	21	No	8	87.5	0.01	NP
Cobalt (mg/L)	MW-8	0.0006633	13	21	No	8	37.5	0.01	NP
Cobalt (mg/L)	MW-9	0	5	18	No	7	71.43	0.01	NP
Cobalt (mg/L)	MW-10	0	3	21	No	8	75	0.01	NP
Copper (mg/L)	MW-9	0	2	18	No	7	85.71	0.01	NP
Fluoride (mg/L)	MW-5 (bg)	0	-8	-21	No	8	75	0.01	NP
Fluoride (mg/L)	MW-6	0	-8	-21	No	8	62.5	0.01	NP
<b>Fluoride (mg/L)</b>	<b>MW-7</b>	<b>-0.2179</b>	<b>-22</b>	<b>-21</b>	<b>Yes</b>	<b>8</b>	<b>50</b>	<b>0.01</b>	<b>NP</b>
Fluoride (mg/L)	MW-9	0	5	21	No	8	87.5	0.01	NP
Fluoride (mg/L)	MW-10	0	-2	-21	No	8	75	0.01	NP
Iron (mg/L)	MW-5 (bg)	0	1	21	No	8	87.5	0.01	NP
Iron (mg/L)	MW-6	0.04918	18	21	No	8	62.5	0.01	NP
Iron (mg/L)	MW-7	0	7	21	No	8	75	0.01	NP
Iron (mg/L)	MW-8	0.2686	20	21	No	8	50	0.01	NP
Iron (mg/L)	MW-9	0.06596	8	18	No	7	42.86	0.01	NP
Iron (mg/L)	MW-10	0	5	21	No	8	87.5	0.01	NP
Lead (mg/L)	MW-6	0.000062	12	21	No	8	62.5	0.01	NP

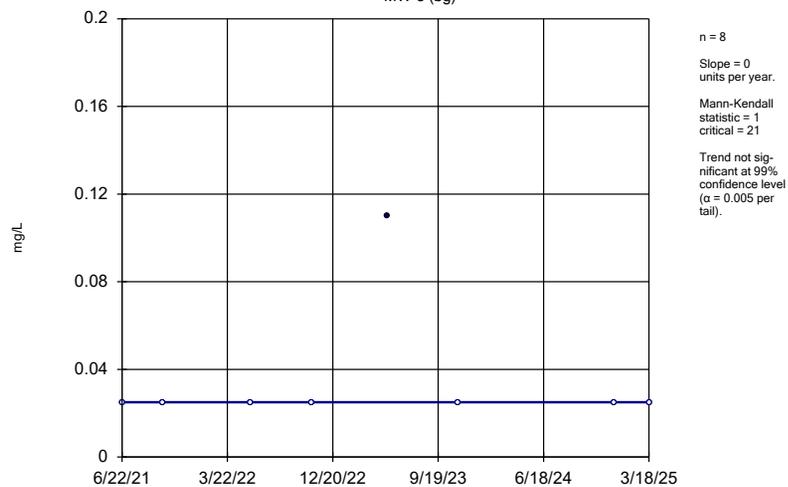
# Trend Test

Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS Printed 2/6/2026, 10:52 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Lead (mg/L)	MW-7	0	7	21	No	8	75	0.01	NP
Lead (mg/L)	MW-8	0	-1	-21	No	8	75	0.01	NP
Lead (mg/L)	MW-9	0.0002107	7	18	No	7	57.14	0.01	NP
Lead (mg/L)	MW-10	0	1	21	No	8	87.5	0.01	NP
Magnesium (mg/L)	MW-5 (bg)	0.1347	4	21	No	8	0	0.01	NP
Magnesium (mg/L)	MW-6	-2.703	-8	-21	No	8	0	0.01	NP
Magnesium (mg/L)	MW-7	-0.09838	-2	-21	No	8	0	0.01	NP
Magnesium (mg/L)	MW-8	13.61	16	21	No	8	0	0.01	NP
Magnesium (mg/L)	MW-9	0.3479	1	18	No	7	0	0.01	NP
Magnesium (mg/L)	MW-10	-2.623	-16	-21	No	8	0	0.01	NP
Manganese (mg/L)	MW-5 (bg)	0	1	21	No	8	87.5	0.01	NP
Manganese (mg/L)	MW-6	0	6	21	No	8	62.5	0.01	NP
Manganese (mg/L)	MW-7	0	7	21	No	8	75	0.01	NP
Manganese (mg/L)	MW-8	0.2297	10	21	No	8	0	0.01	NP
Manganese (mg/L)	MW-9	0.008795	13	18	No	7	14.29	0.01	NP
Manganese (mg/L)	MW-10	-0.007358	-3	-21	No	8	25	0.01	NP
Molybdenum (mg/L)	MW-5 (bg)	0	-2	-21	No	8	62.5	0.01	NP
Molybdenum (mg/L)	MW-6	0.0007941	18	21	No	8	0	0.01	NP
Molybdenum (mg/L)	MW-7	0.0008594	8	21	No	8	0	0.01	NP
Molybdenum (mg/L)	MW-8	-0.00107	-15	-21	No	8	25	0.01	NP
Molybdenum (mg/L)	MW-9	-0.000415	-5	-18	No	7	0	0.01	NP
Molybdenum (mg/L)	MW-10	0.0002721	8	21	No	8	0	0.01	NP
Nickel (mg/L)	MW-8	0.0008313	16	21	No	8	12.5	0.01	NP
Nitrogen, Ammonia (mg/L)	MW-7	0	8	21	No	8	75	0.01	NP
pH (S.U.)	MW-5 (bg)	-0.1509	-10	-21	No	8	0	0.01	NP
pH (S.U.)	MW-6	-0.1459	-14	-21	No	8	0	0.01	NP
pH (S.U.)	MW-7	-0.2255	-10	-21	No	8	0	0.01	NP
pH (S.U.)	MW-8	-0.1489	-20	-21	No	8	0	0.01	NP
pH (S.U.)	MW-9	-0.1853	-16	-21	No	8	0	0.01	NP
pH (S.U.)	MW-10	-0.2432	-14	-21	No	8	0	0.01	NP
Selenium (mg/L)	MW-5 (bg)	0	3	21	No	8	87.5	0.01	NP
Silver (mg/L)	MW-6	0	3	21	No	8	87.5	0.01	NP
Sulfate (mg/L)	MW-5 (bg)	-0.3599	-2	-21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-6	9.043	14	21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-7	2.761	12	21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-8	157.5	18	21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-9	10.5	2	21	No	8	0	0.01	NP
<b>Sulfate (mg/L)</b>	<b>MW-10</b>	<b>-11.2</b>	<b>-24</b>	<b>-21</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>0.01</b>	<b>NP</b>
Thallium (mg/L)	MW-5 (bg)	0	7	21	No	8	75	0.01	NP
Thallium (mg/L)	MW-6	0	3	21	No	8	87.5	0.01	NP
Total Organic Halogens (mg/L)	MW-5 (bg)	0.002609	13	21	No	8	87.5	0.01	NP
Total Organic Halogens (mg/L)	MW-6	0.001184	6	21	No	8	75	0.01	NP
Total Organic Halogens (mg/L)	MW-7	0.001184	6	21	No	8	75	0.01	NP
Total Organic Halogens (mg/L)	MW-8	0.001404	1	21	No	8	37.5	0.01	NP
Total Organic Halogens (mg/L)	MW-9	-0.0232	-6	-21	No	8	62.5	0.01	NP

### Sen's Slope Estimator

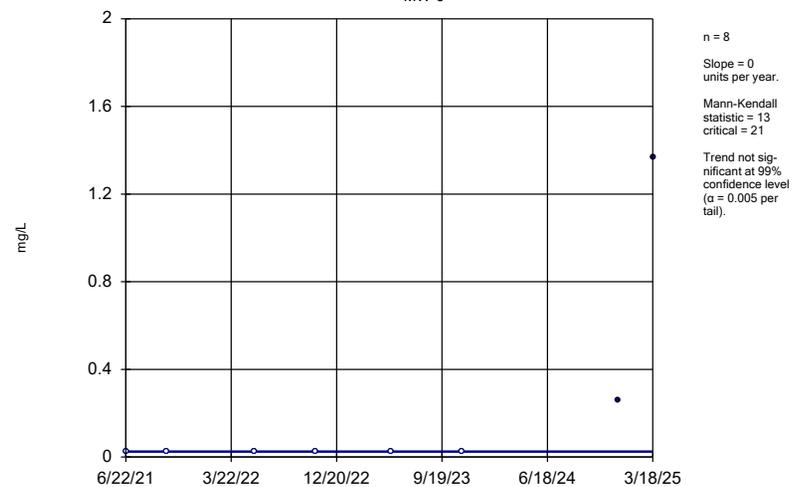
MW-5 (bg)



Constituent: Aluminum Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

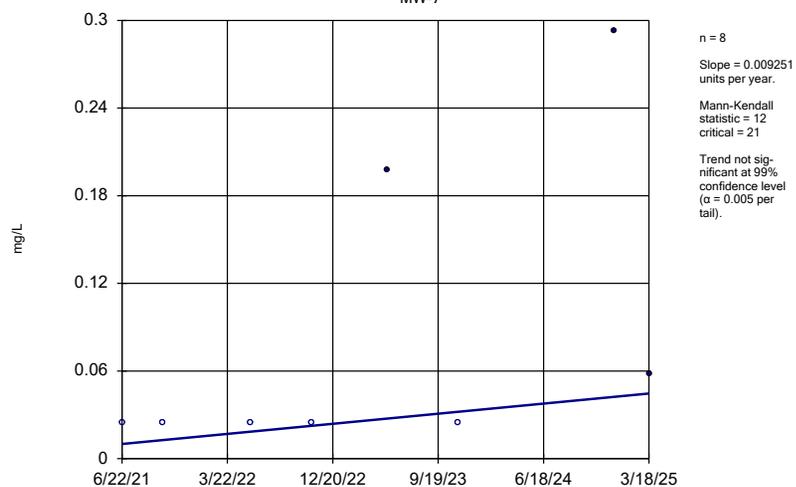
MW-6



Constituent: Aluminum Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

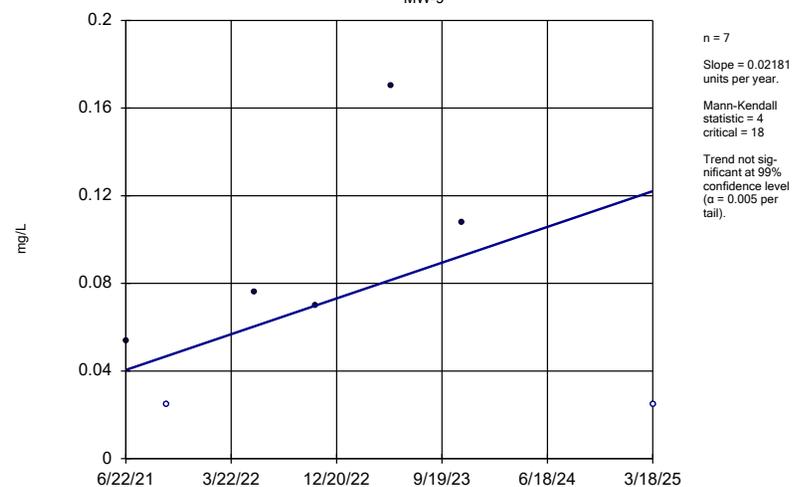
MW-7



Constituent: Aluminum Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

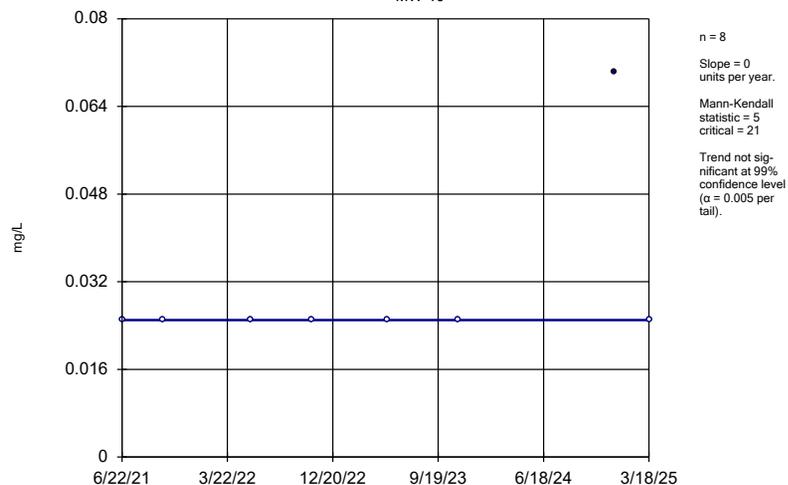
MW-9



Constituent: Aluminum Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

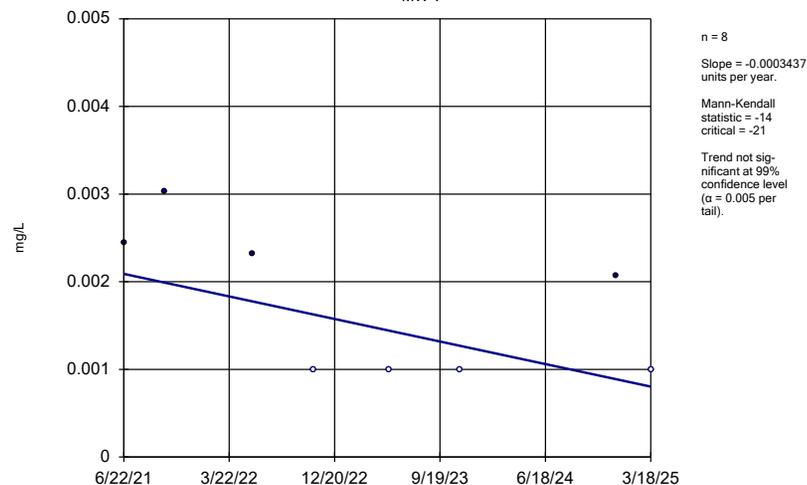
MW-10



Constituent: Aluminum Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

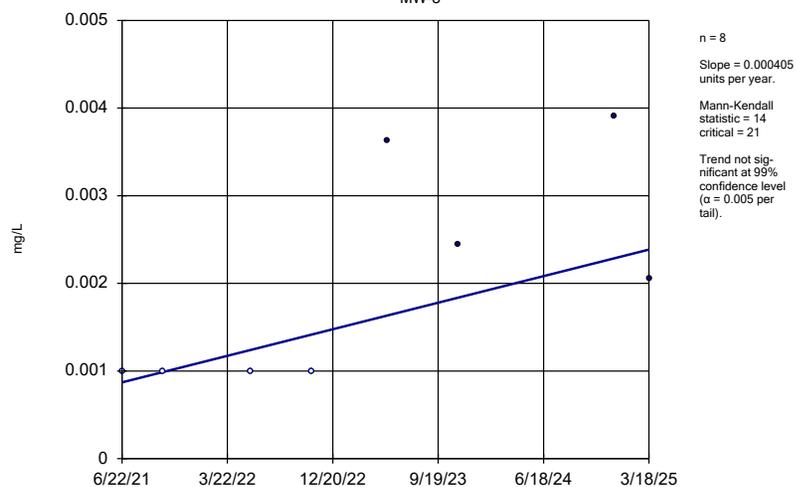
MW-7



Constituent: Arsenic Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

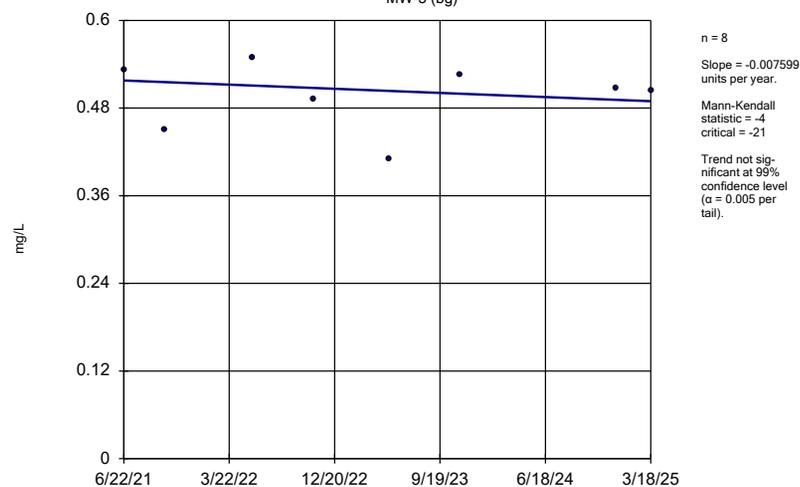
MW-8



Constituent: Arsenic Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

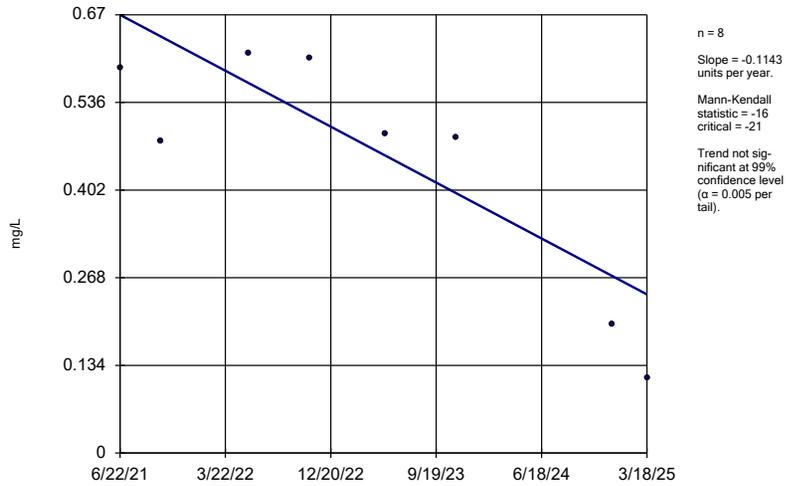
MW-5 (bg)



Constituent: Barium Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

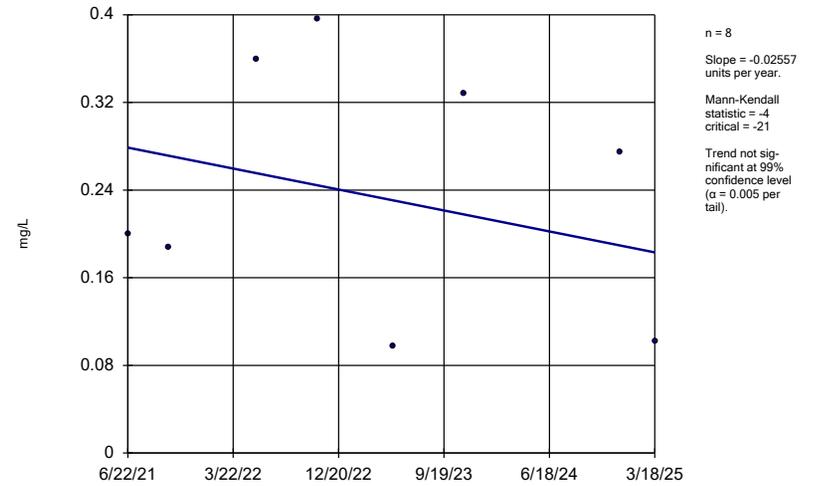
MW-6



Constituent: Barium Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

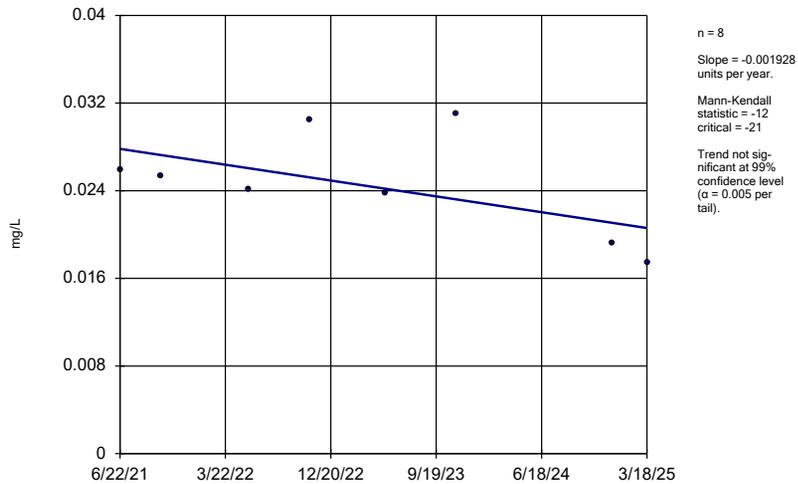
MW-7



Constituent: Barium Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

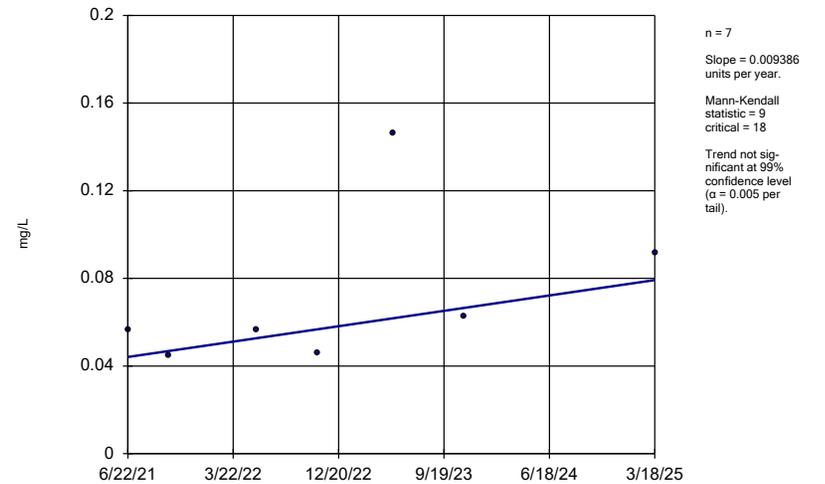
MW-8



Constituent: Barium Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

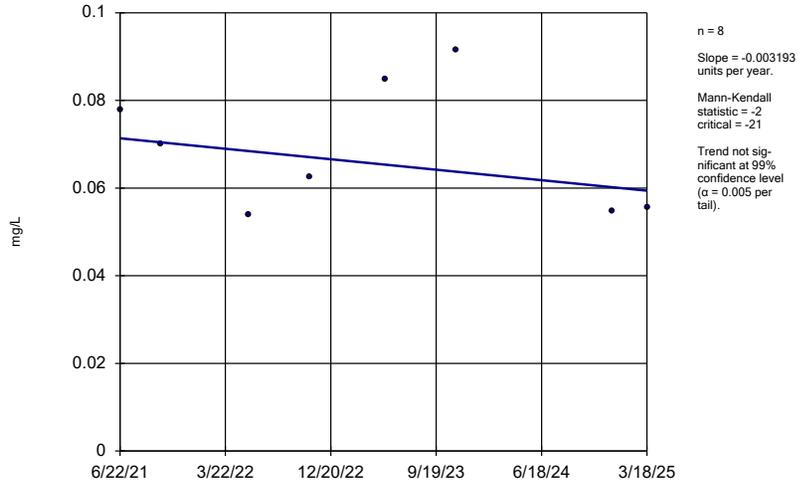
MW-9



Constituent: Barium Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

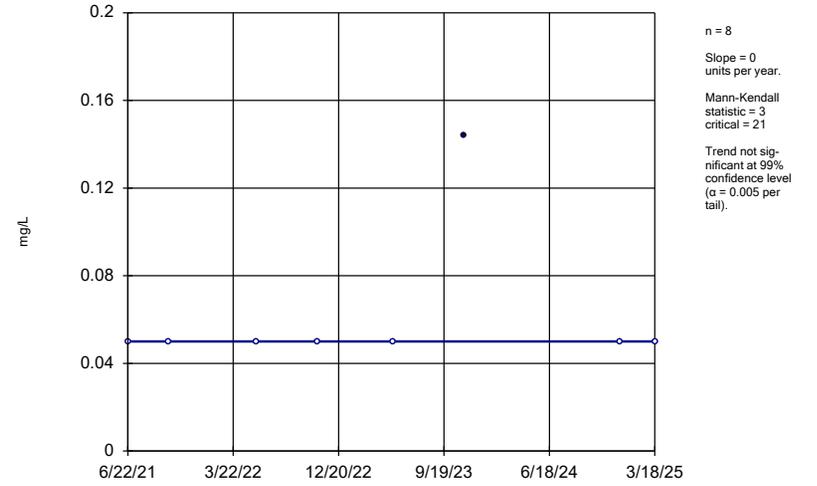
MW-10



Constituent: Barium Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

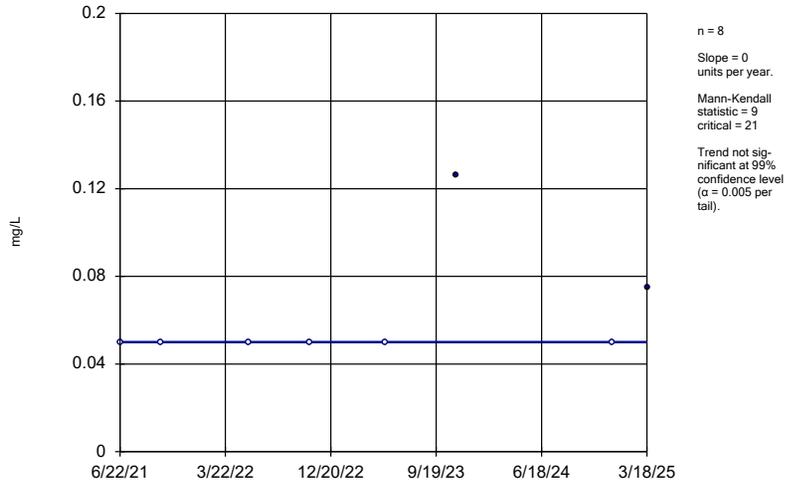
MW-5 (bg)



Constituent: Boron Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

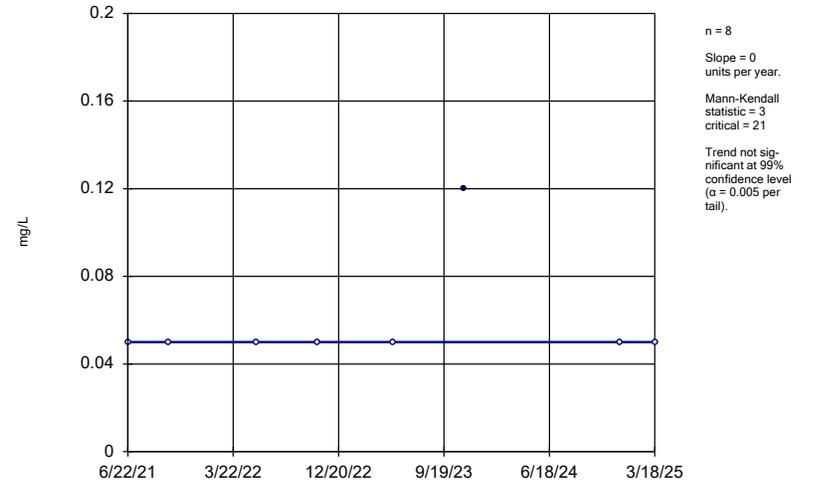
MW-6



Constituent: Boron Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

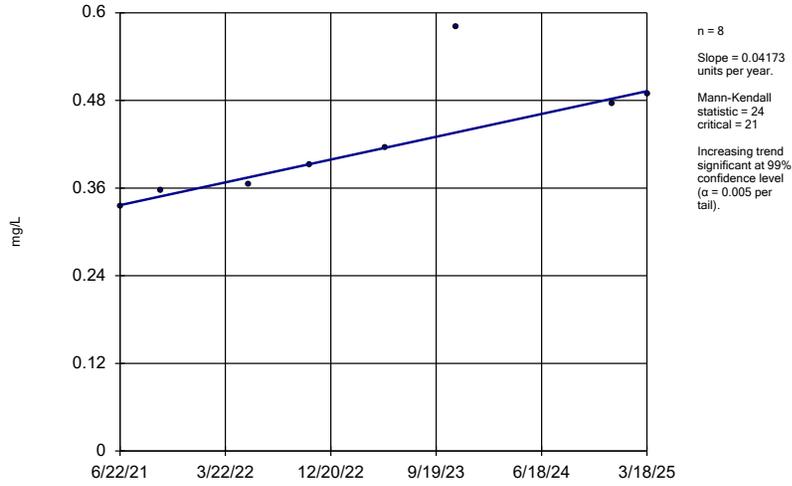
MW-7



Constituent: Boron Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

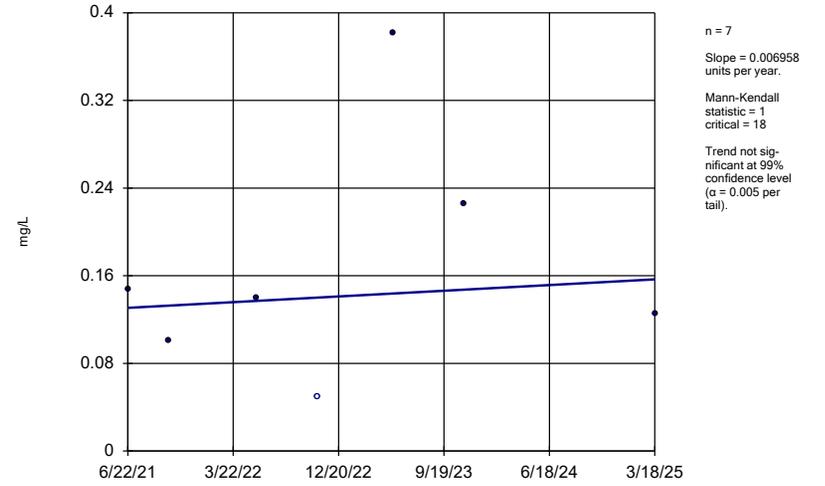
MW-8



Constituent: Boron Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

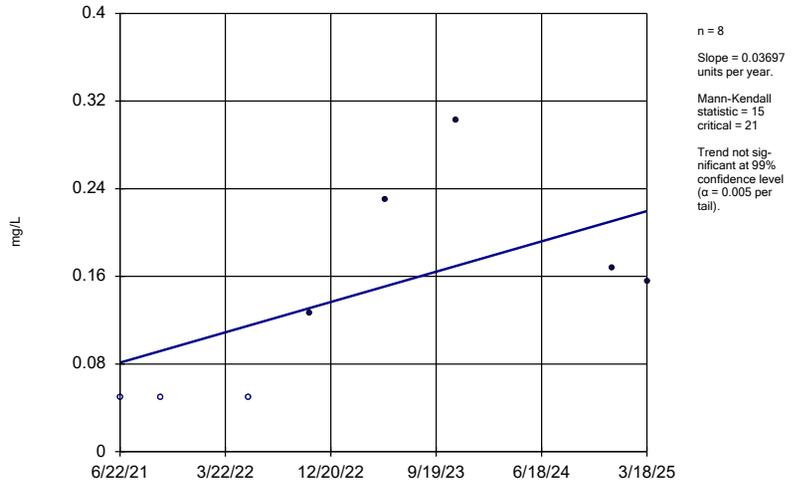
MW-9



Constituent: Boron Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

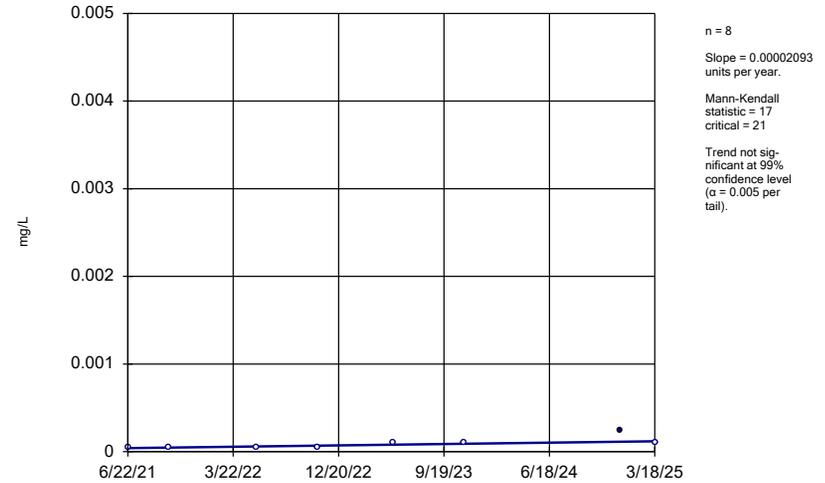
MW-10



Constituent: Boron Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

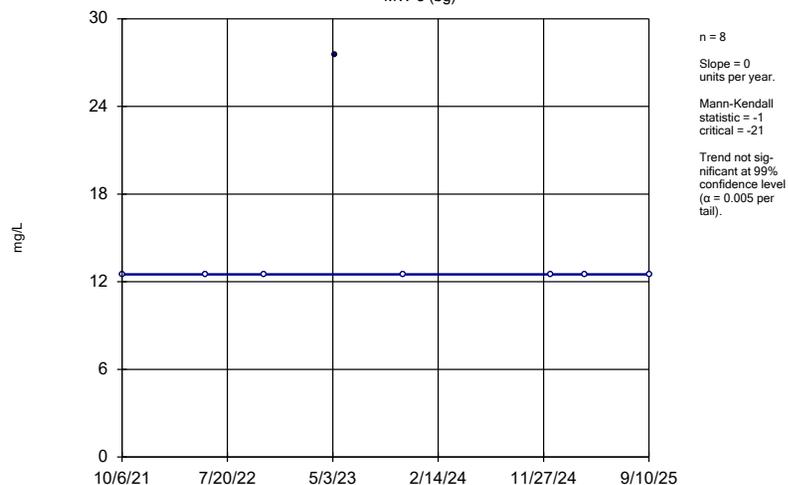
MW-8



Constituent: Cadmium Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

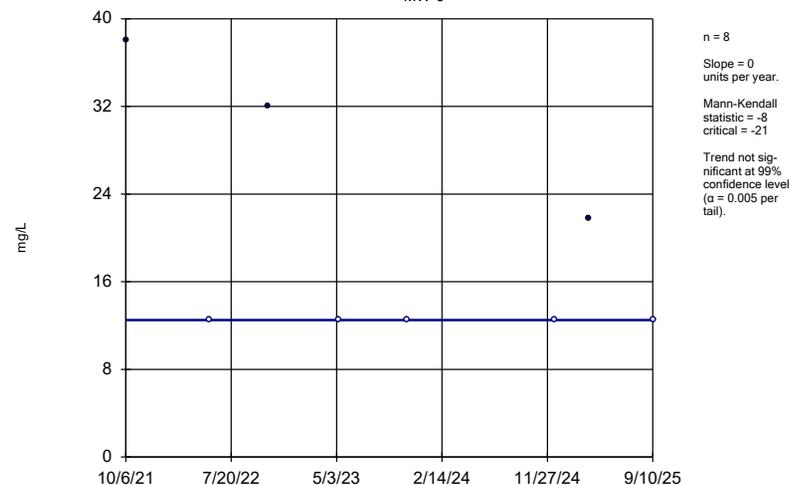
MW-5 (bg)



Constituent: Chemical Oxygen Demand Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kenda  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

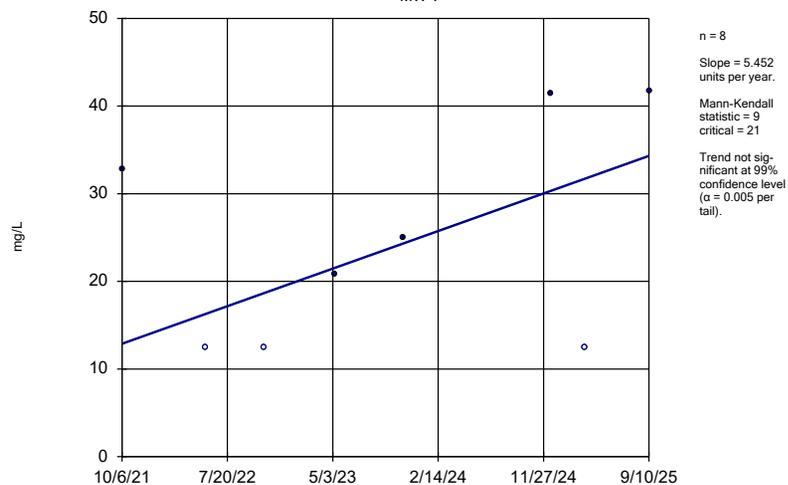
MW-6



Constituent: Chemical Oxygen Demand Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kenda  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

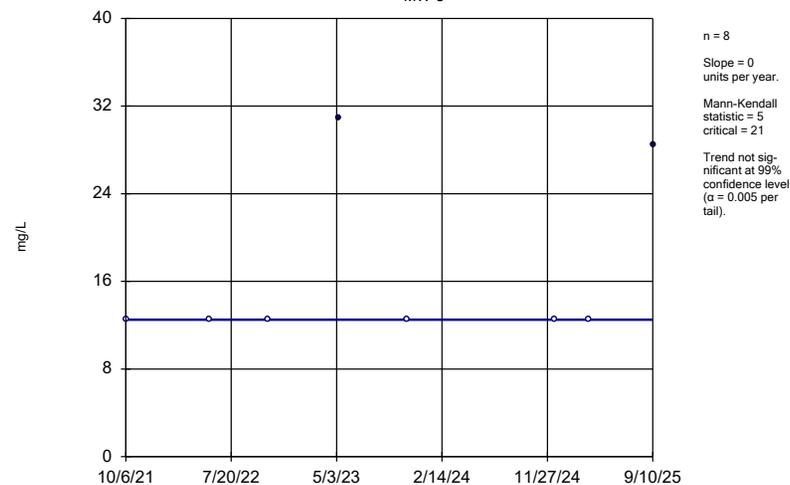
MW-7



Constituent: Chemical Oxygen Demand Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kenda  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

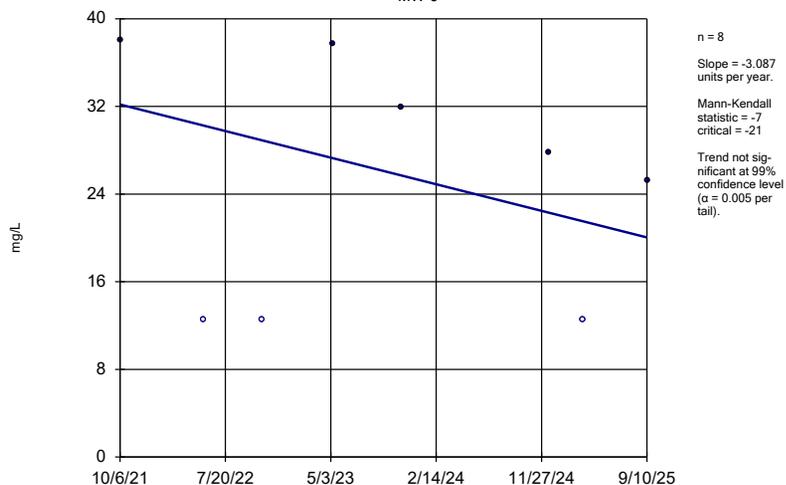
MW-8



Constituent: Chemical Oxygen Demand Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kenda  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

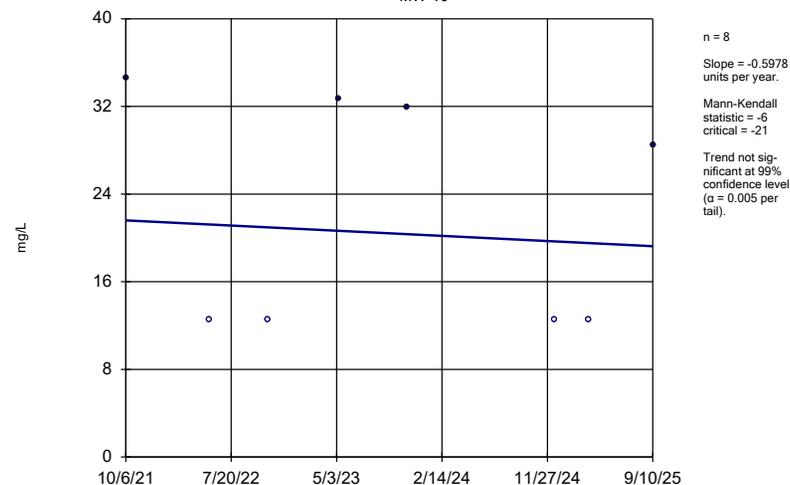
MW-9



Constituent: Chemical Oxygen Demand Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kenda  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

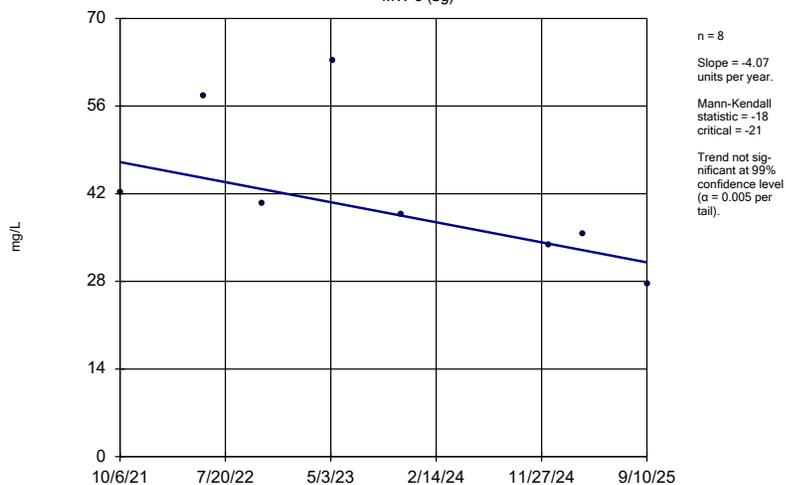
MW-10



Constituent: Chemical Oxygen Demand Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kenda  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

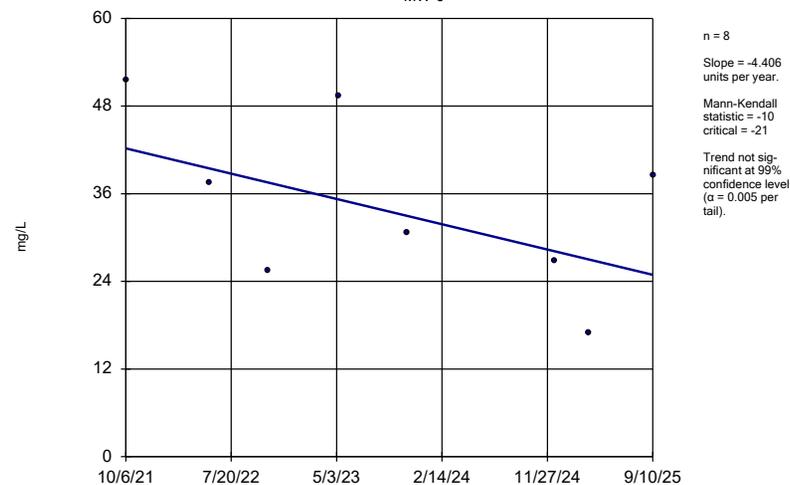
MW-5 (bg)



Constituent: Chloride Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

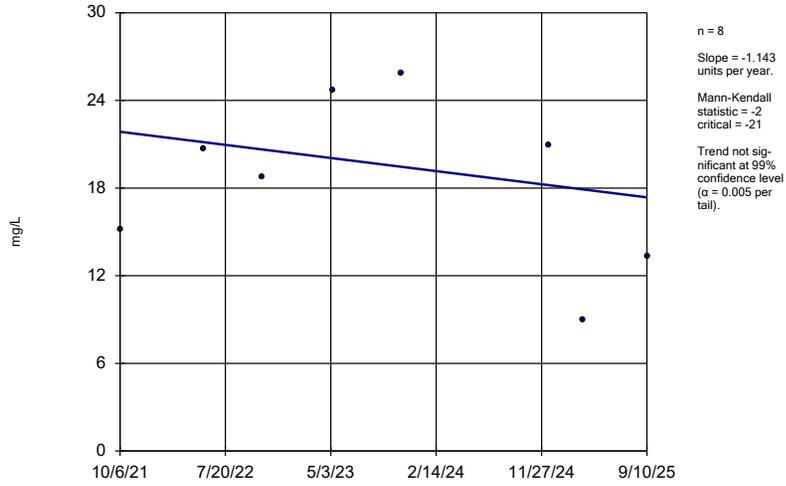
MW-6



Constituent: Chloride Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

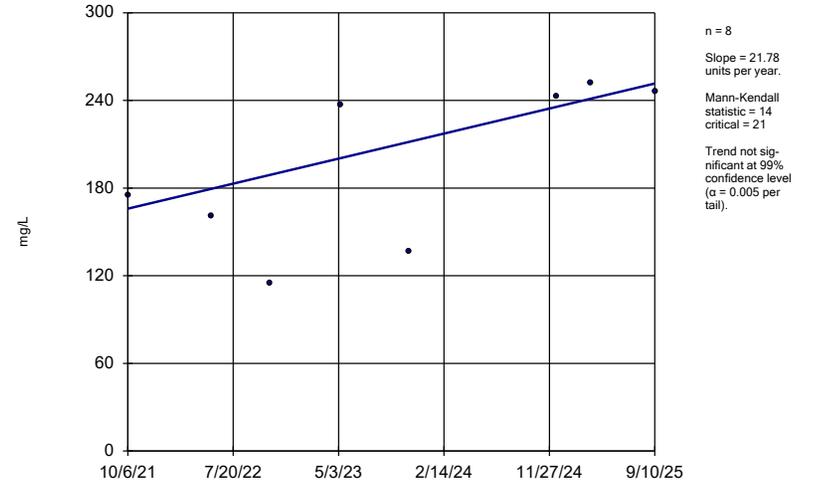
MW-7



Constituent: Chloride Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

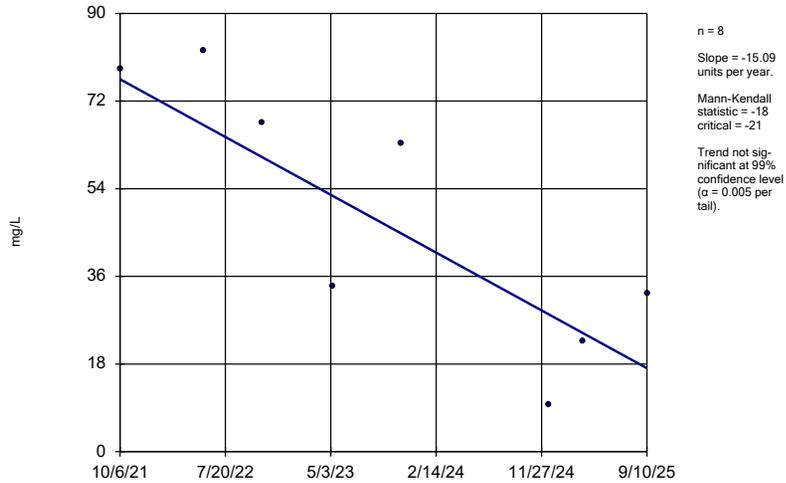
MW-8



Constituent: Chloride Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

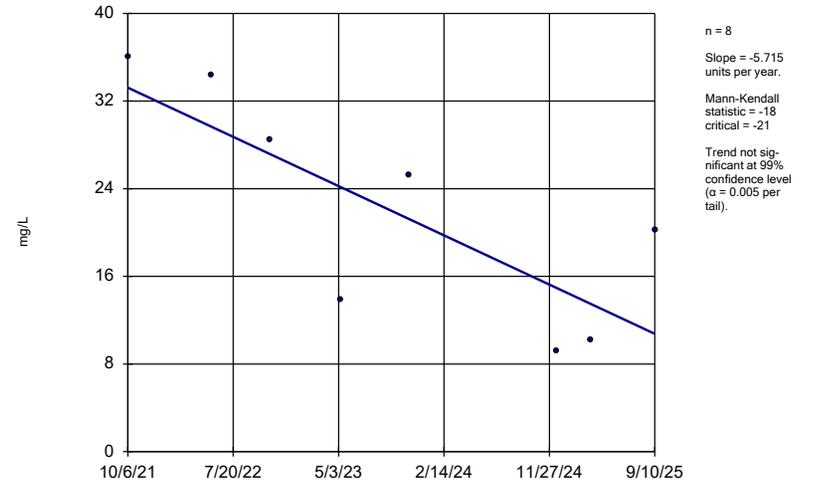
MW-9



Constituent: Chloride Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

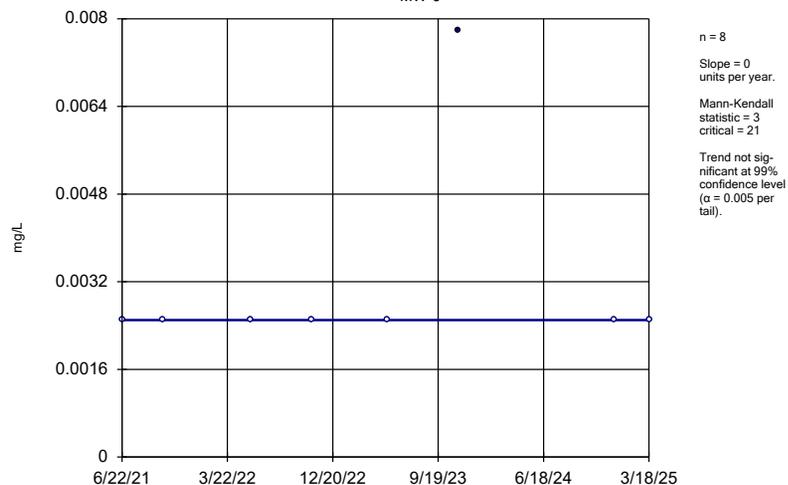
MW-10



Constituent: Chloride Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

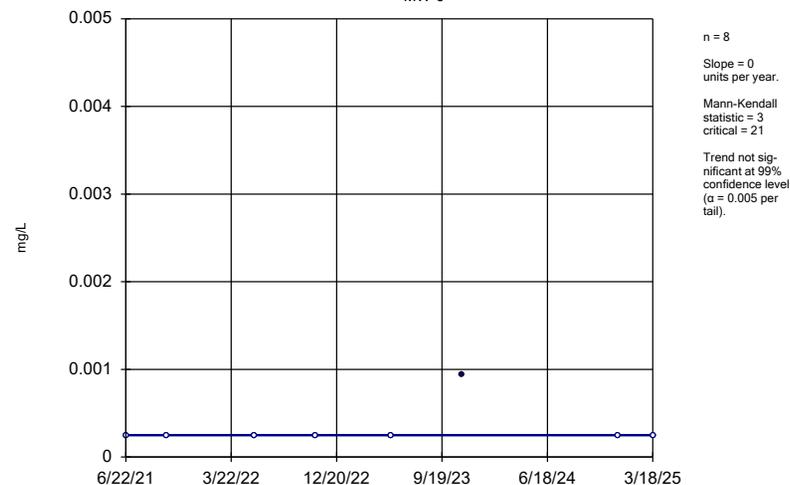
MW-6



Constituent: Chromium Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

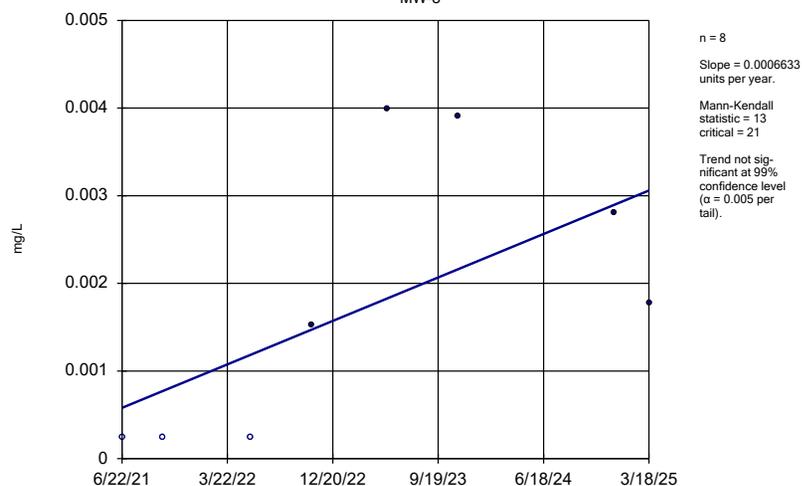
MW-6



Constituent: Cobalt Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

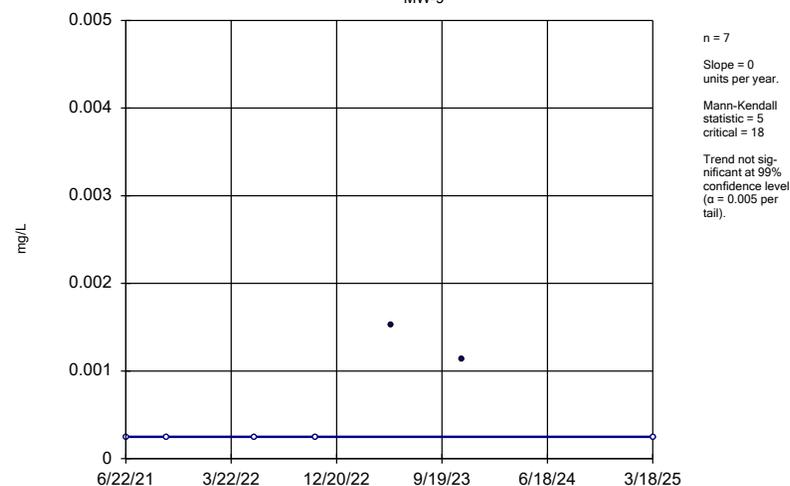
MW-8



Constituent: Cobalt Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

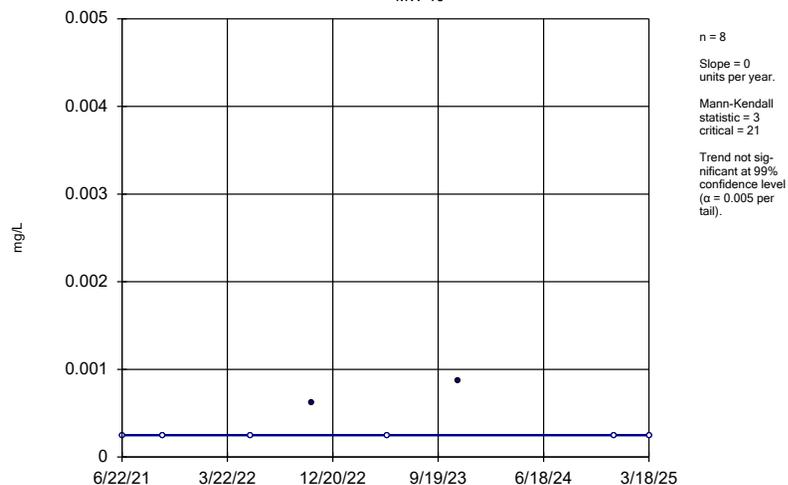
MW-9



Constituent: Cobalt Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

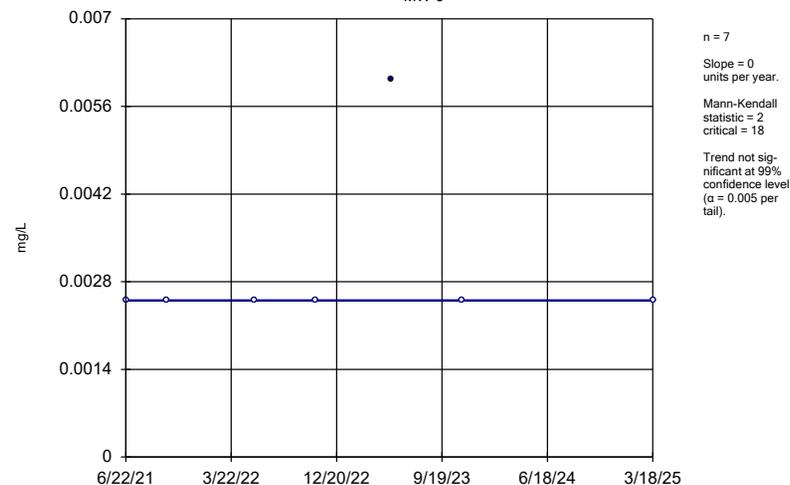
MW-10



Constituent: Cobalt Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

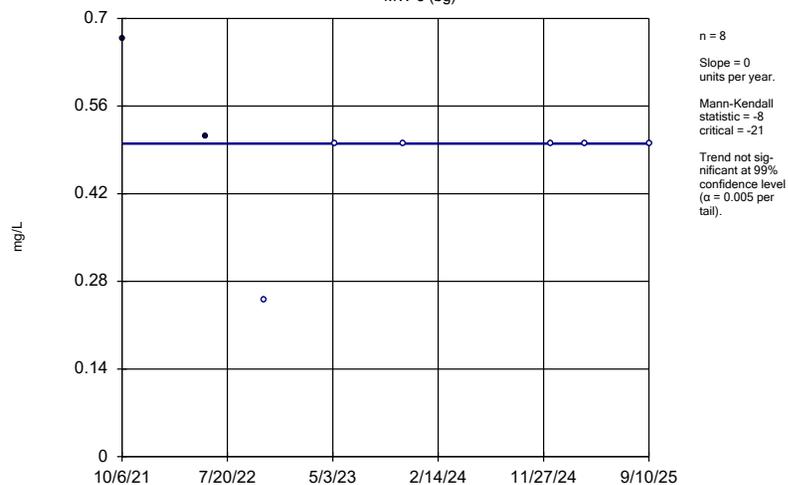
MW-9



Constituent: Copper Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

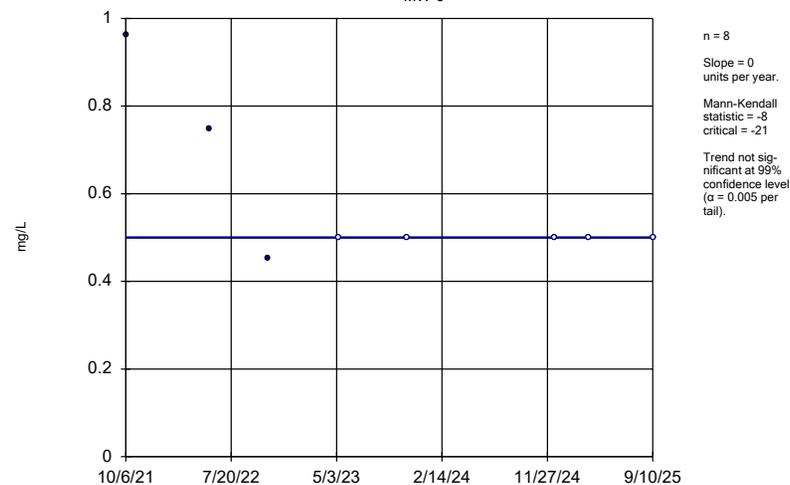
MW-5 (bg)



Constituent: Fluoride Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

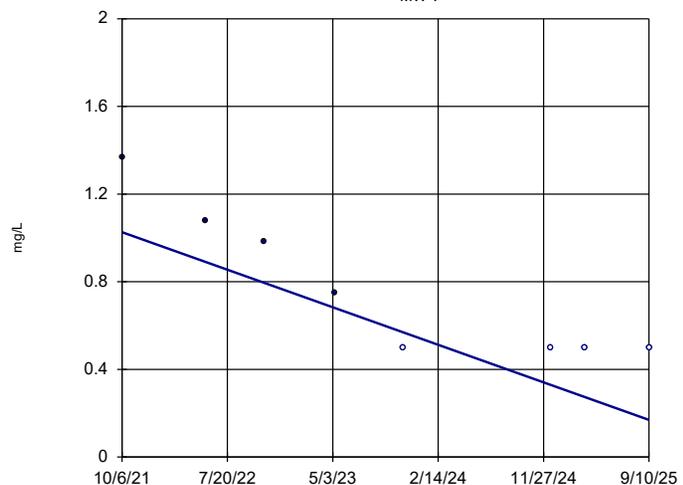
MW-6



Constituent: Fluoride Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

MW-7

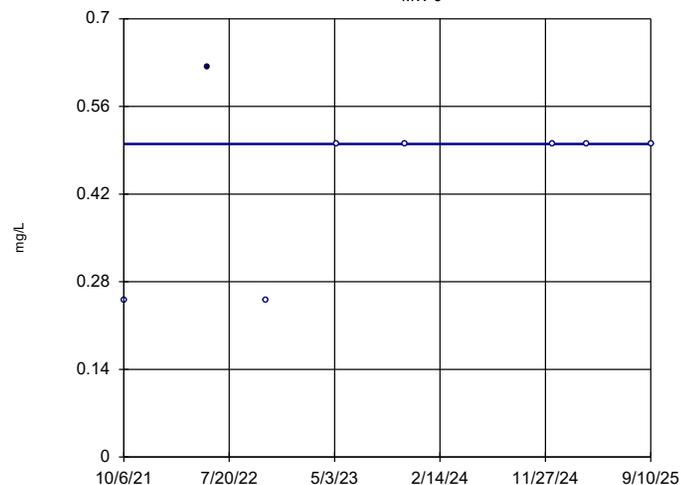


n = 8  
Slope = -0.2179  
units per year.  
Mann-Kendall  
statistic = -22  
critical = -21  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

MW-9

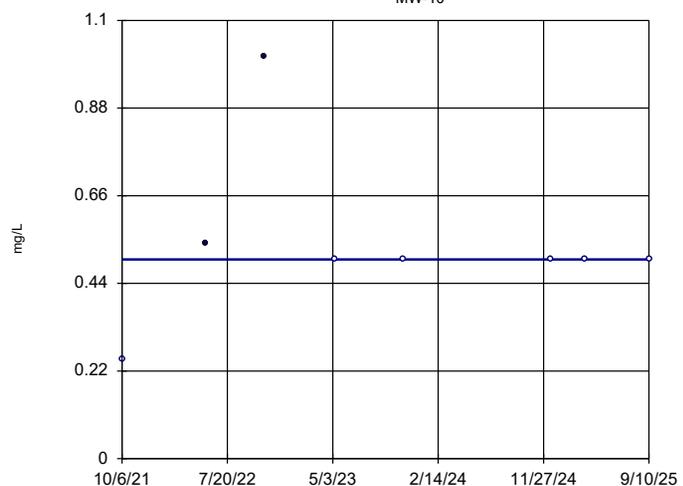


n = 8  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 5  
critical = 21  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

MW-10

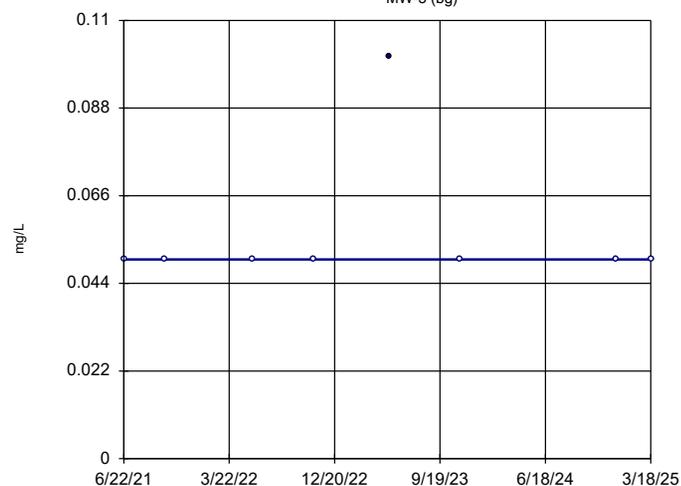


n = 8  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -2  
critical = -21  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

MW-5 (bg)

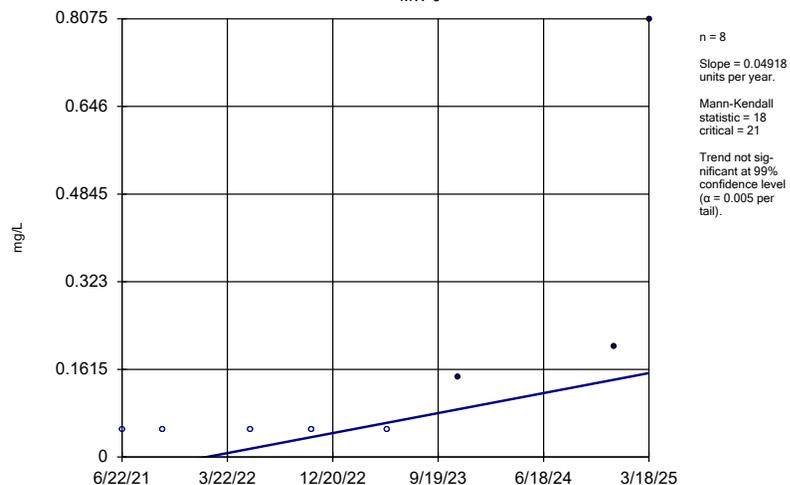


n = 8  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 1  
critical = 21  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Iron Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

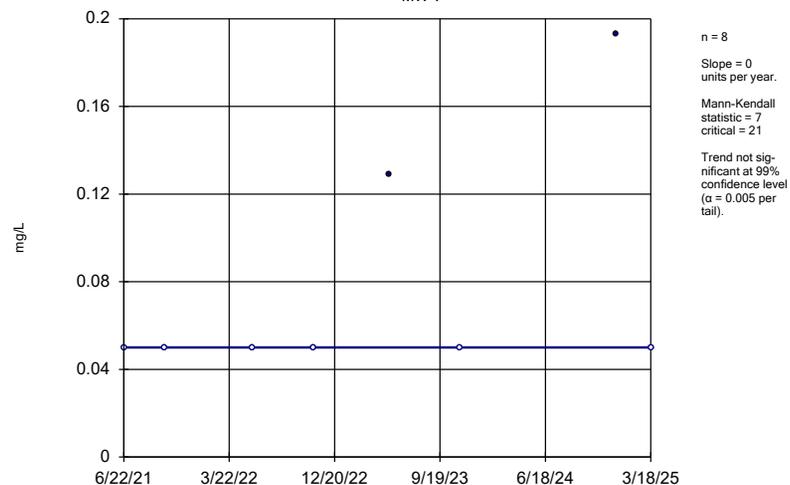
MW-6



Constituent: Iron Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

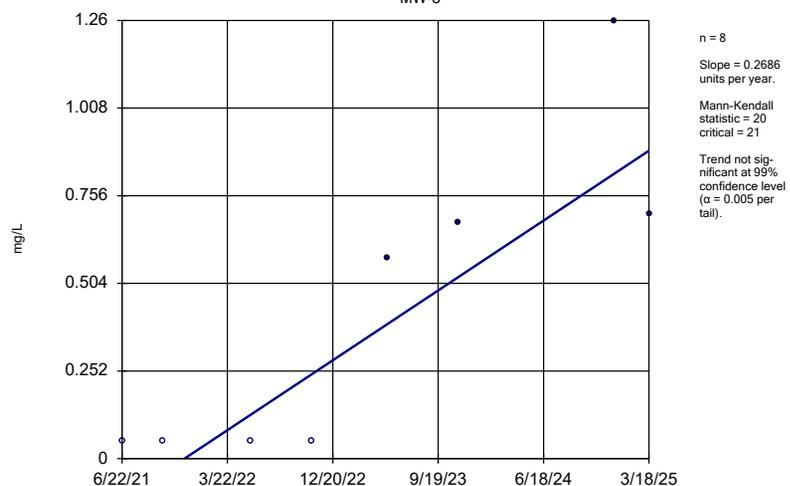
MW-7



Constituent: Iron Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

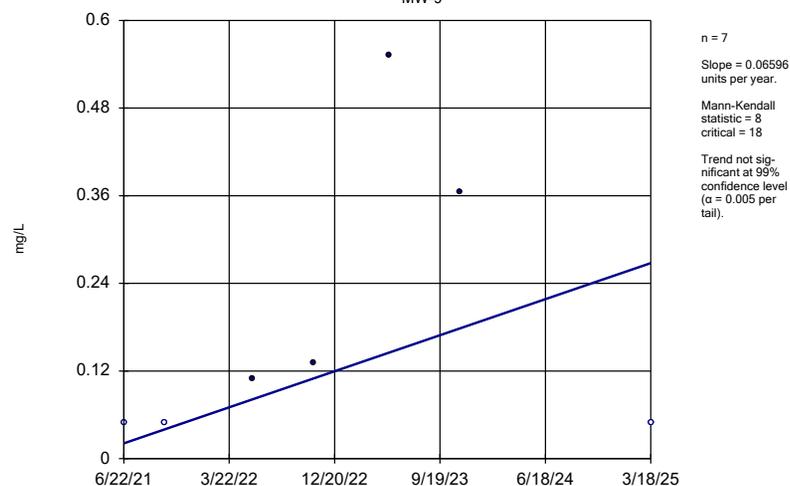
MW-8



Constituent: Iron Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

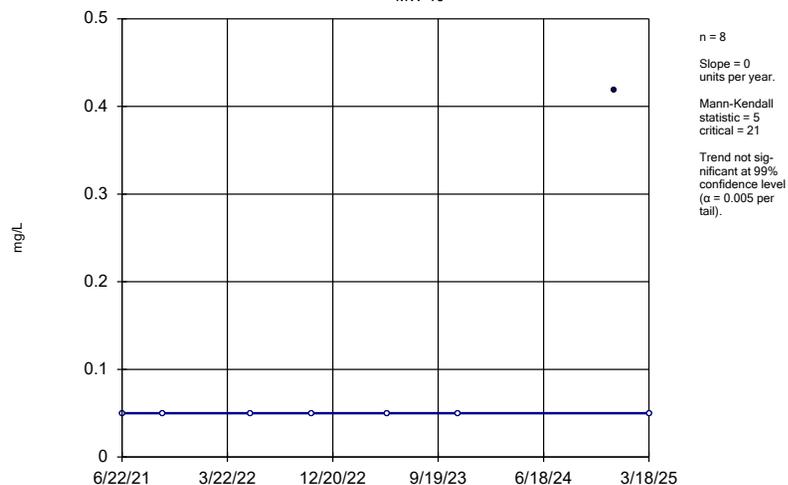
MW-9



Constituent: Iron Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

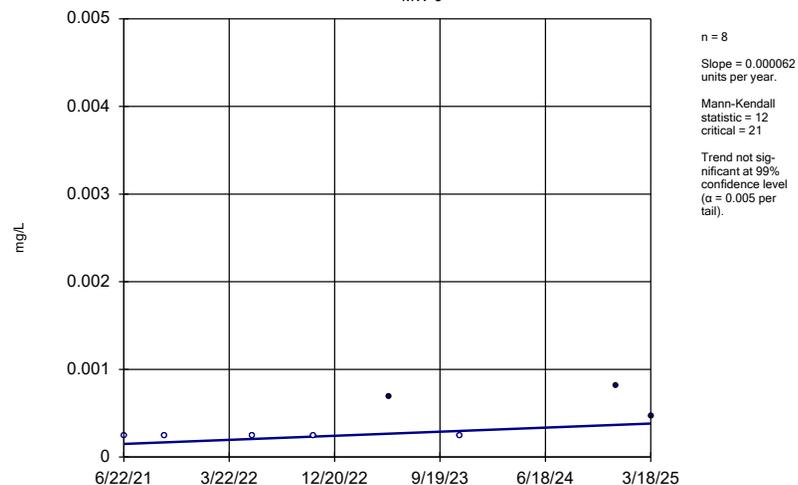
MW-10



Constituent: Iron Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

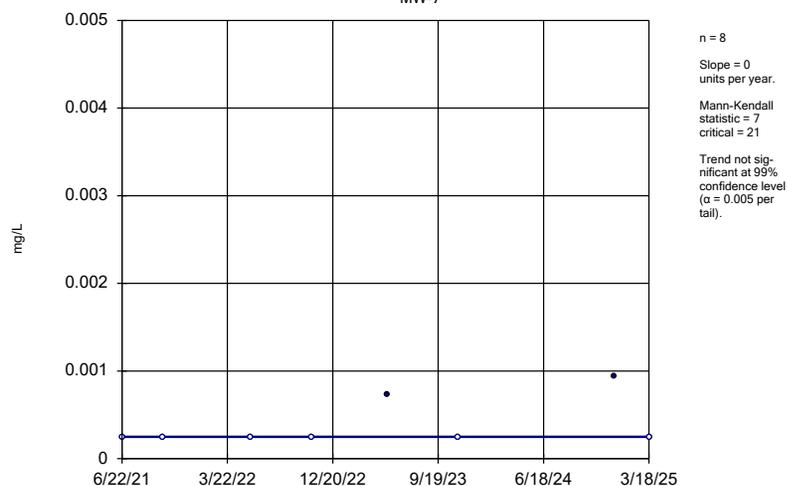
MW-6



Constituent: Lead Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

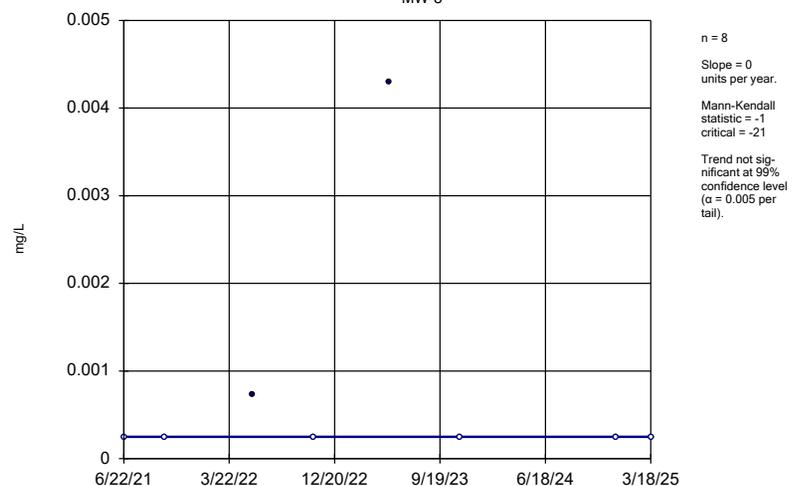
MW-7



Constituent: Lead Analysis Run 2/6/2026 10:49 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

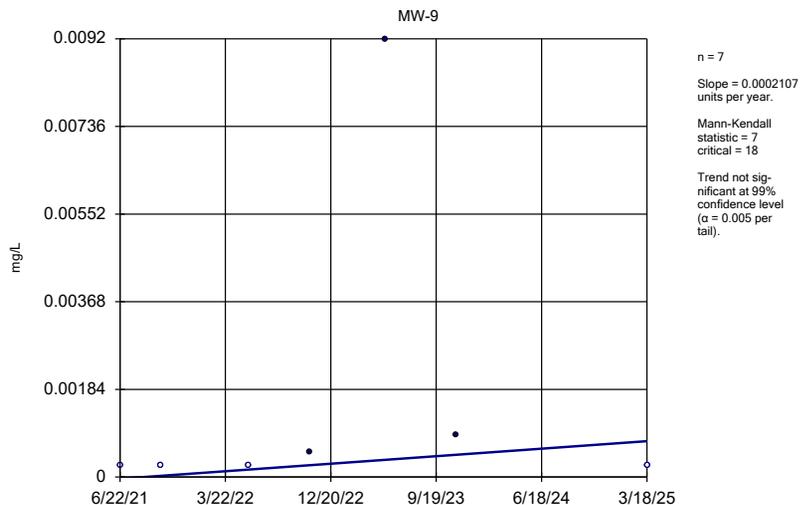
### Sen's Slope Estimator

MW-8



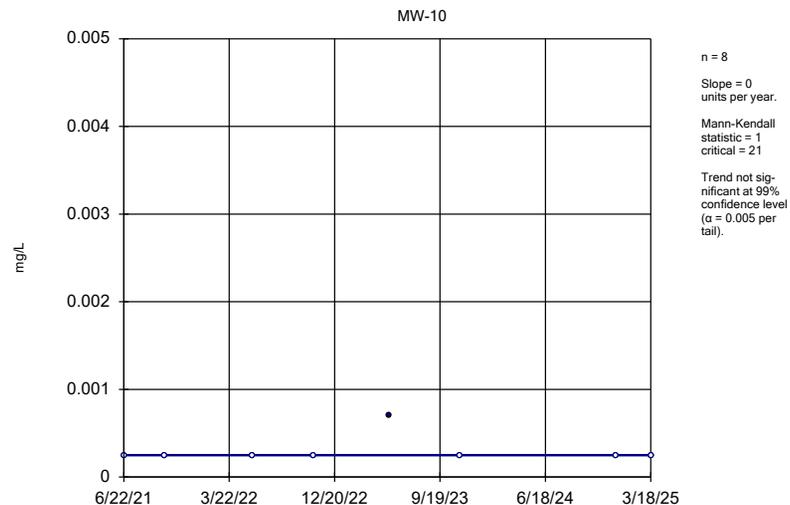
Constituent: Lead Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator



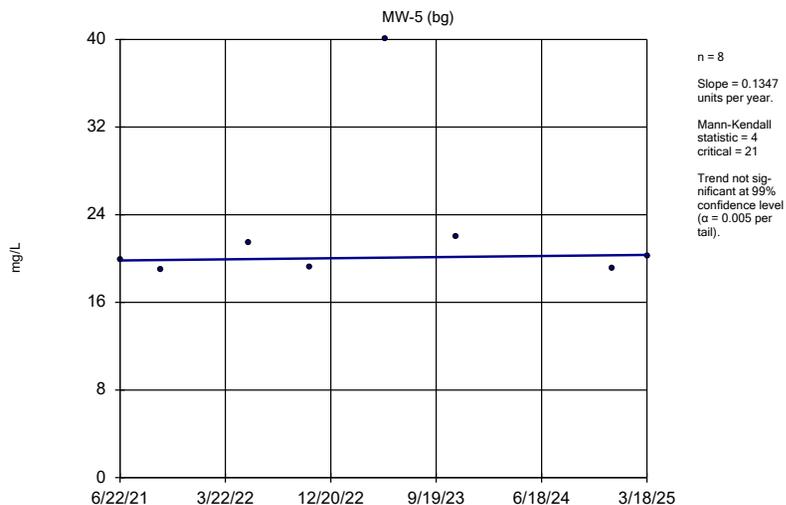
Constituent: Lead Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
 Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator



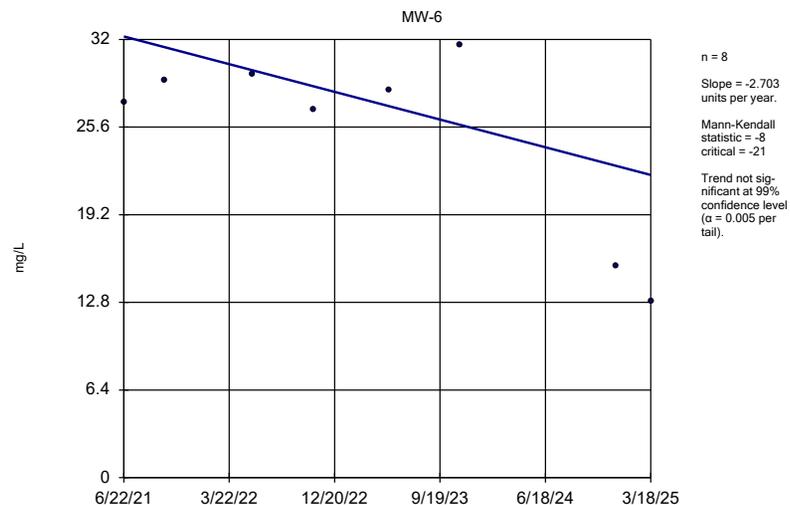
Constituent: Lead Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
 Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator



Constituent: Magnesium Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
 Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

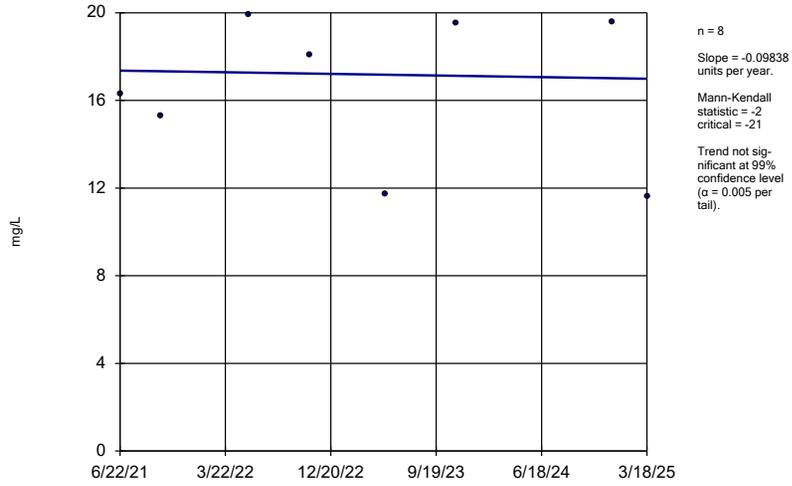
### Sen's Slope Estimator



Constituent: Magnesium Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
 Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

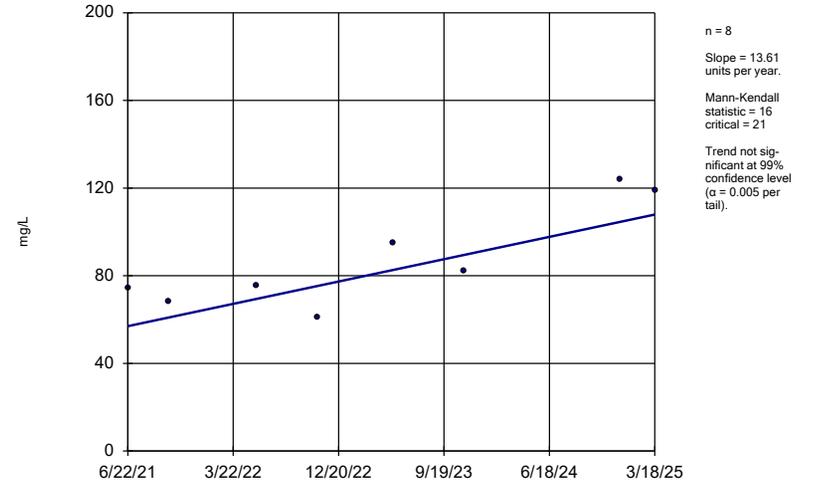
MW-7



Constituent: Magnesium Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

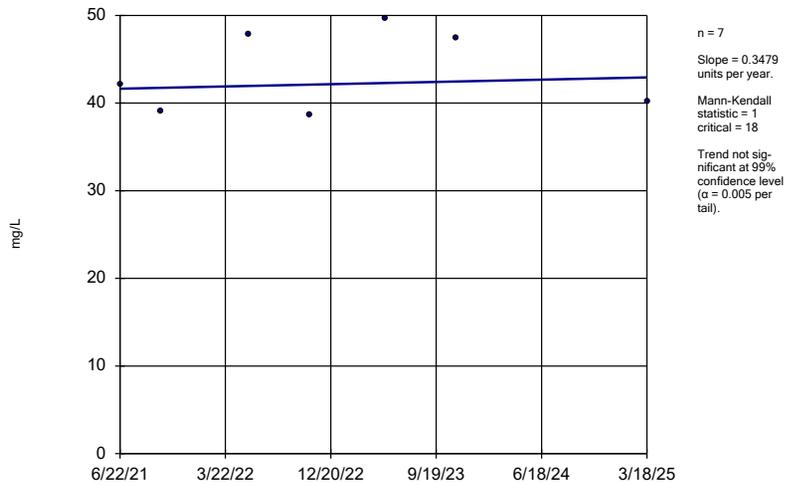
MW-8



Constituent: Magnesium Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

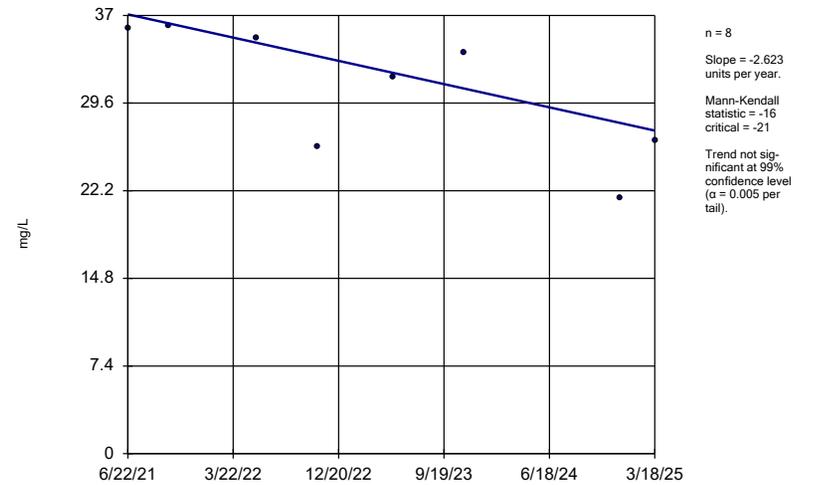
MW-9



Constituent: Magnesium Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

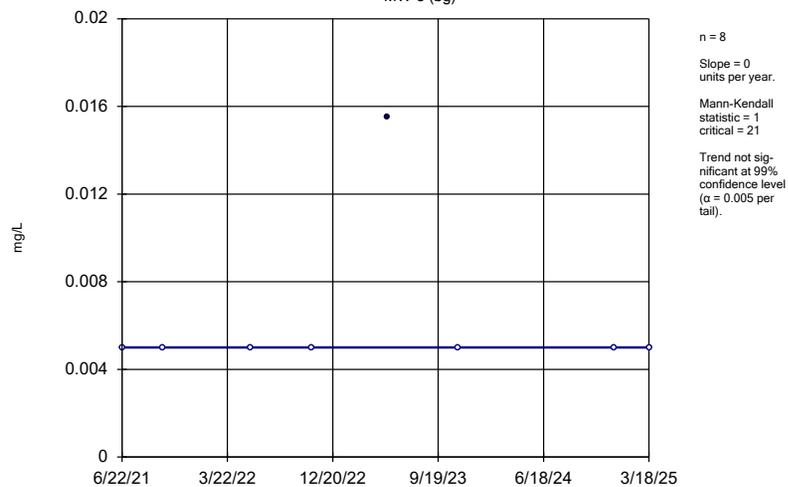
MW-10



Constituent: Magnesium Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

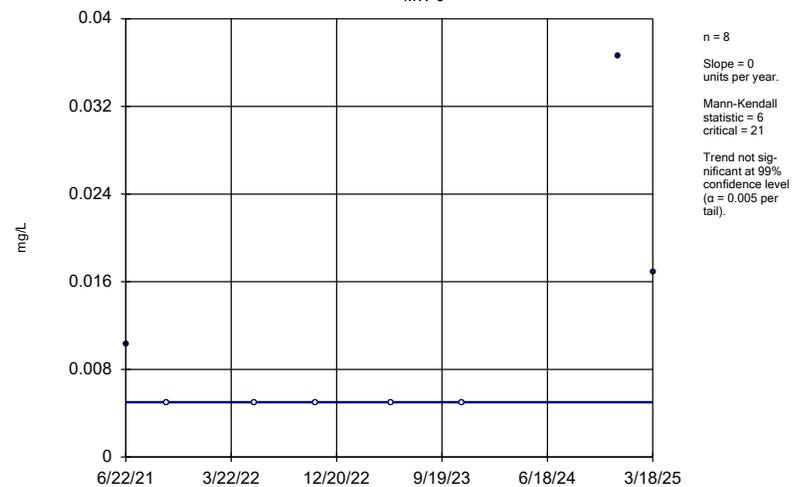
MW-5 (bg)



Constituent: Manganese Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

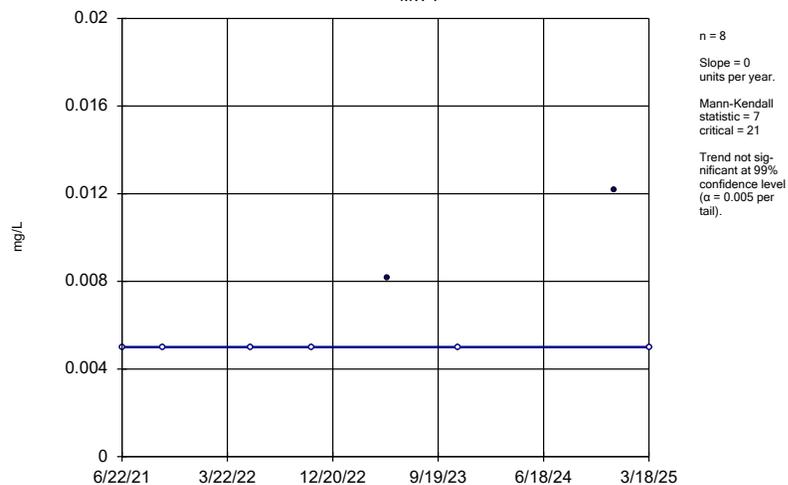
MW-6



Constituent: Manganese Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

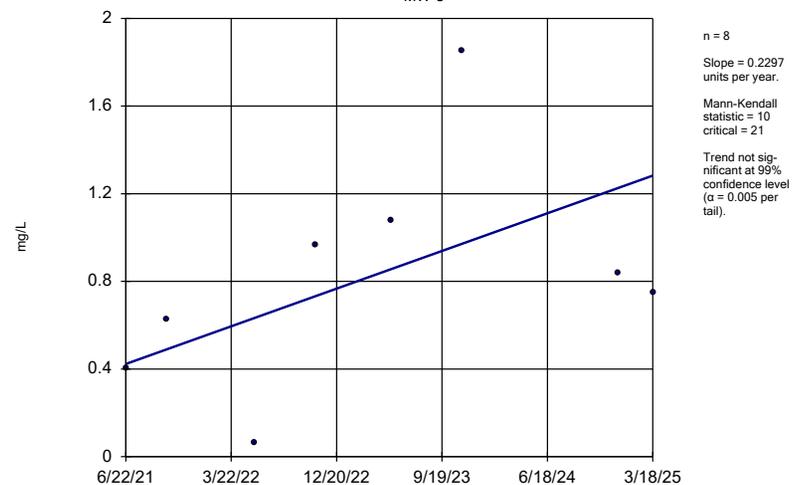
MW-7



Constituent: Manganese Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

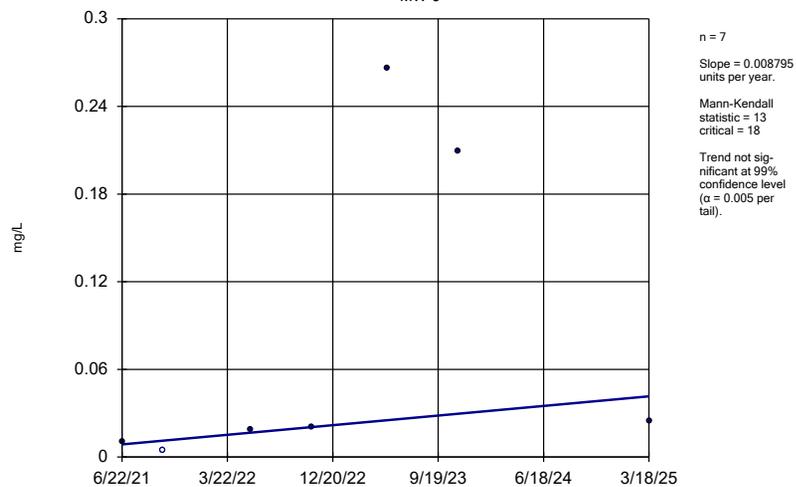
MW-8



Constituent: Manganese Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

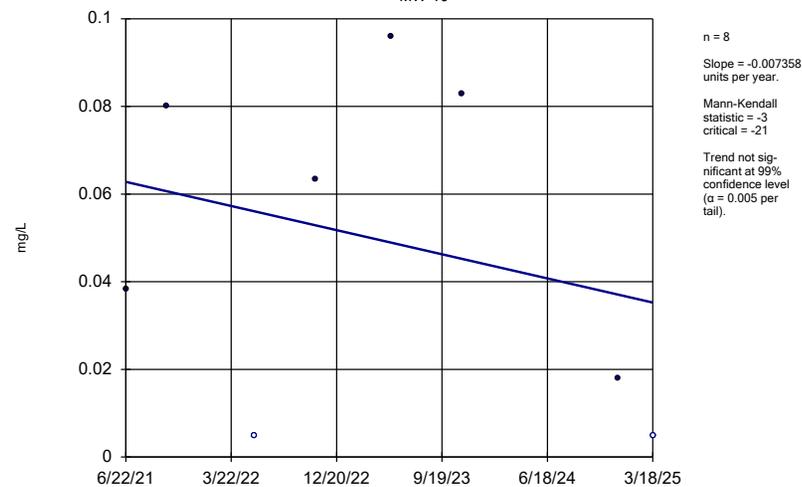
MW-9



Constituent: Manganese Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

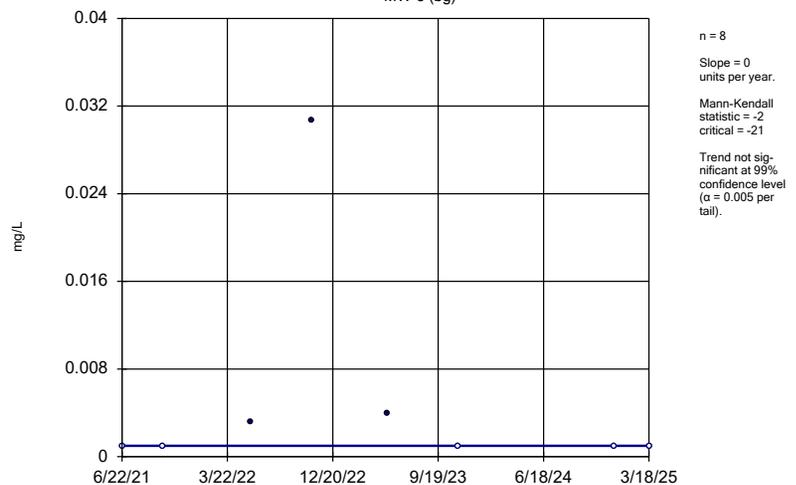
MW-10



Constituent: Manganese Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

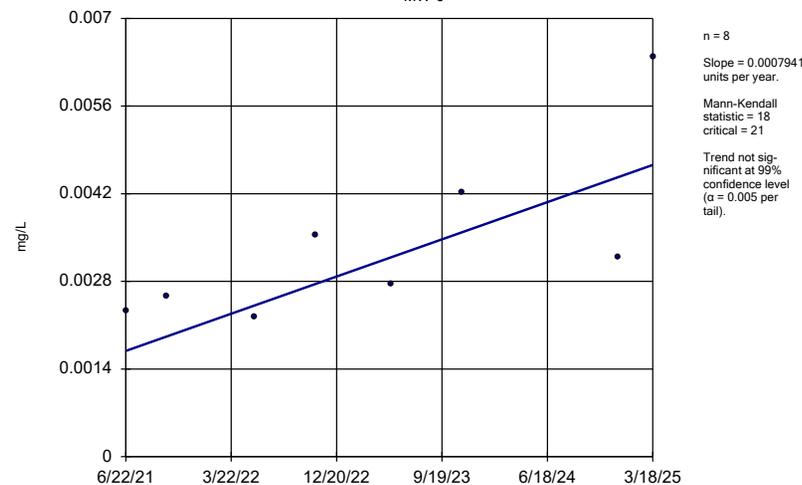
MW-5 (bg)



Constituent: Molybdenum Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

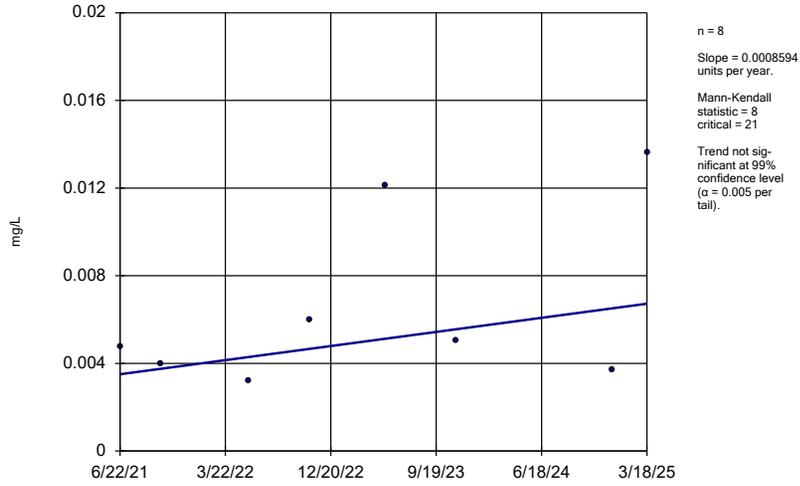
MW-6



Constituent: Molybdenum Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

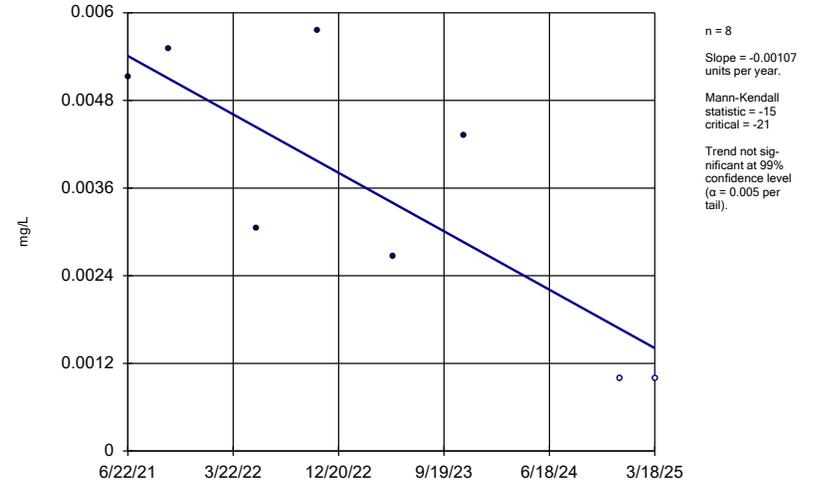
MW-7



Constituent: Molybdenum Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

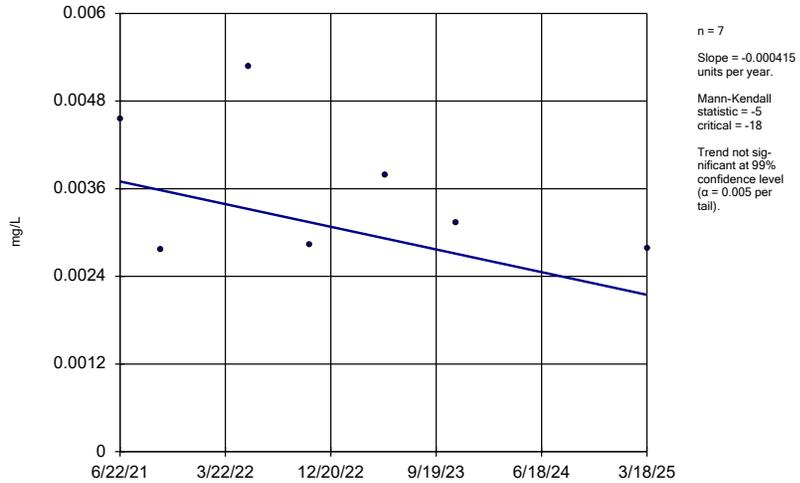
MW-8



Constituent: Molybdenum Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

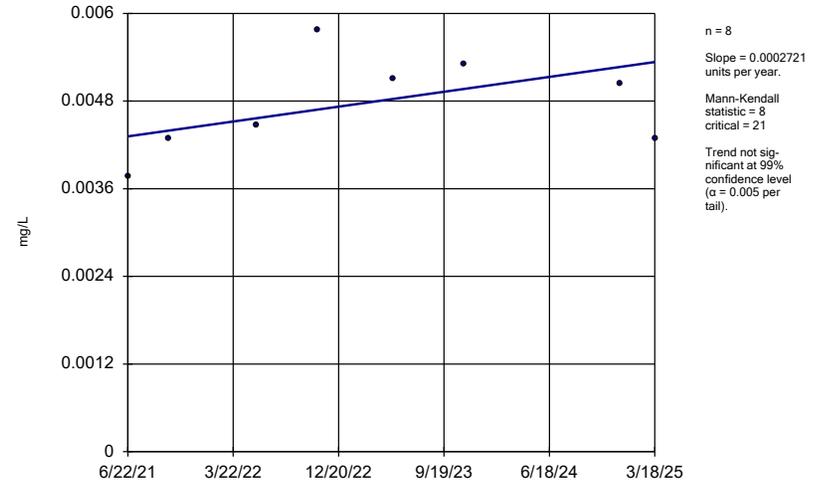
MW-9



Constituent: Molybdenum Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

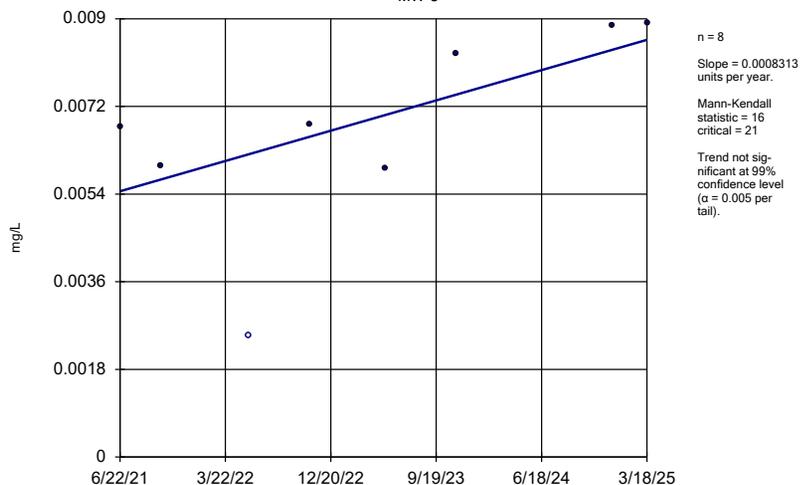
MW-10



Constituent: Molybdenum Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

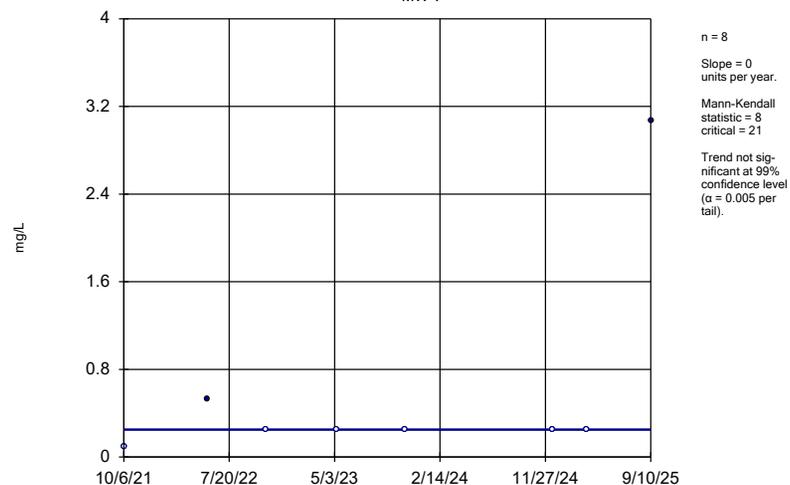
MW-8



Constituent: Nickel Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

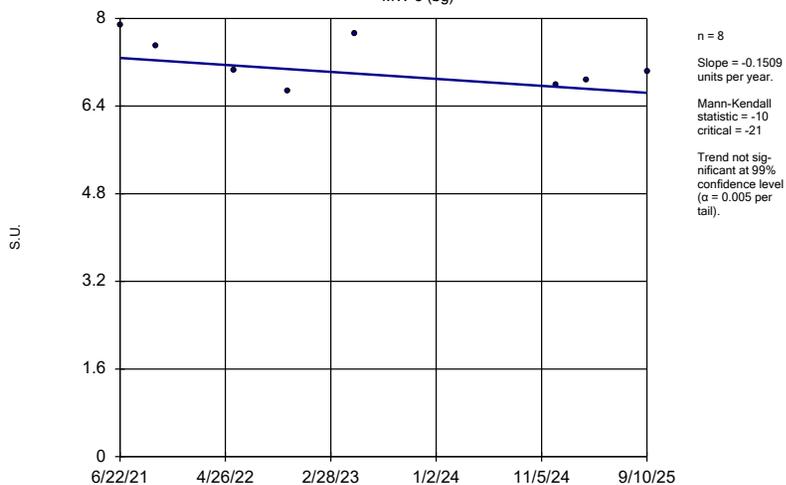
MW-7



Constituent: Nitrogen, Ammonia Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

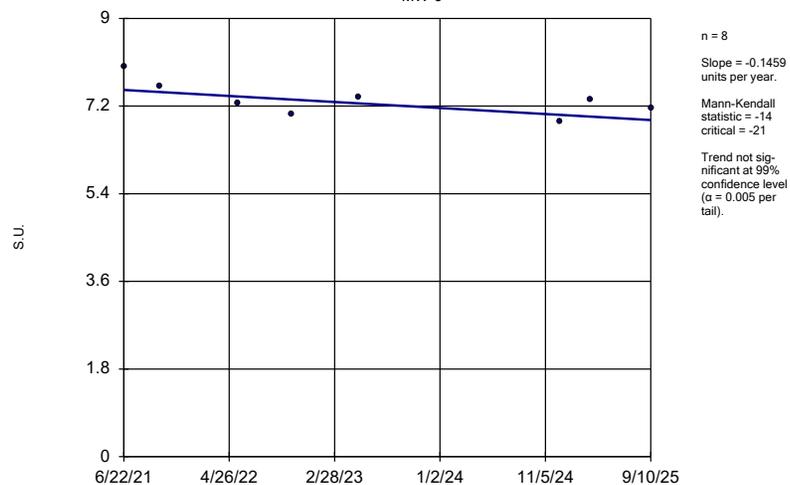
MW-5 (bg)



Constituent: pH Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

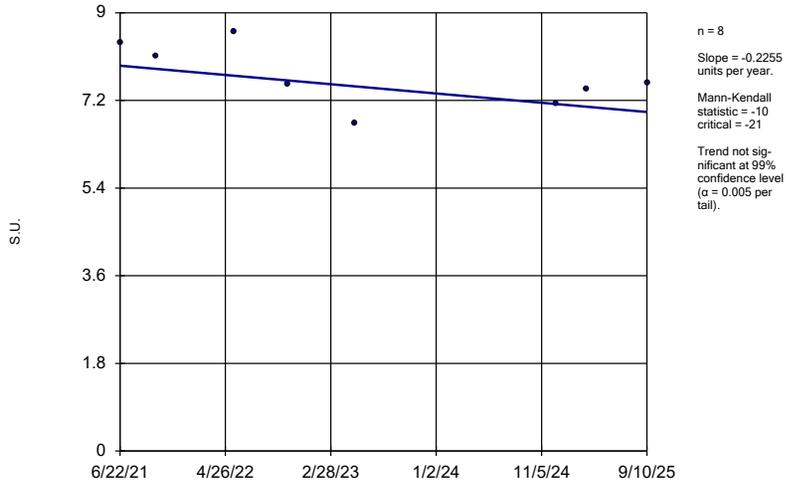
MW-6



Constituent: pH Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

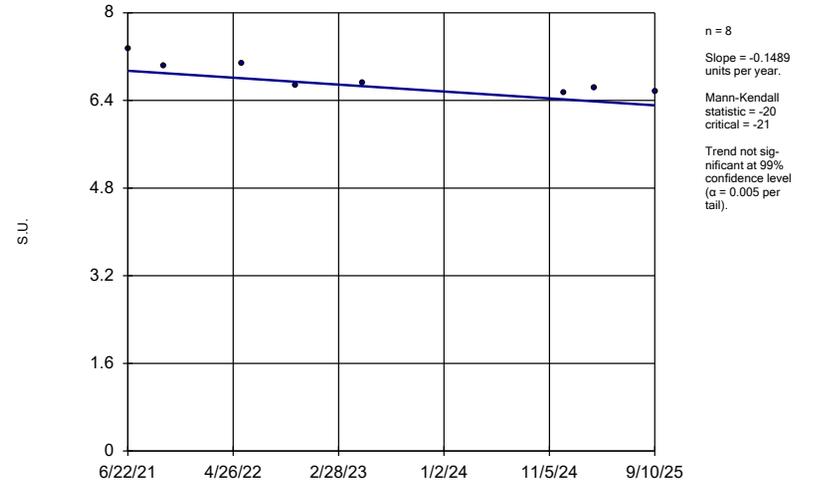
MW-7



Constituent: pH Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

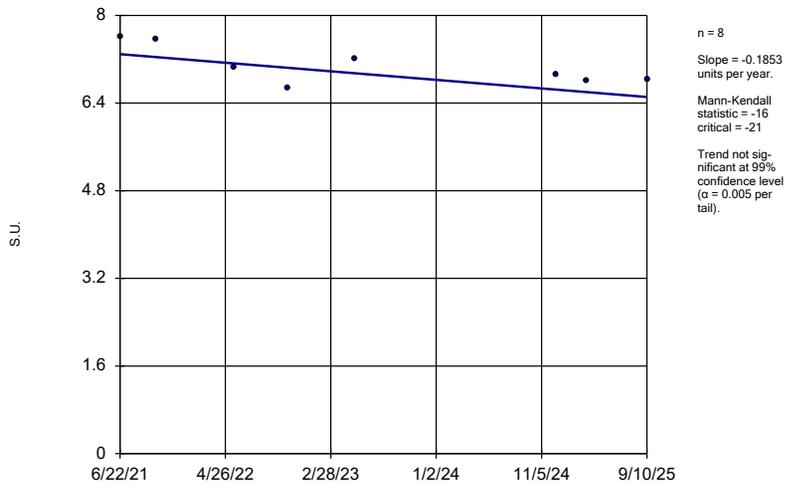
MW-8



Constituent: pH Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

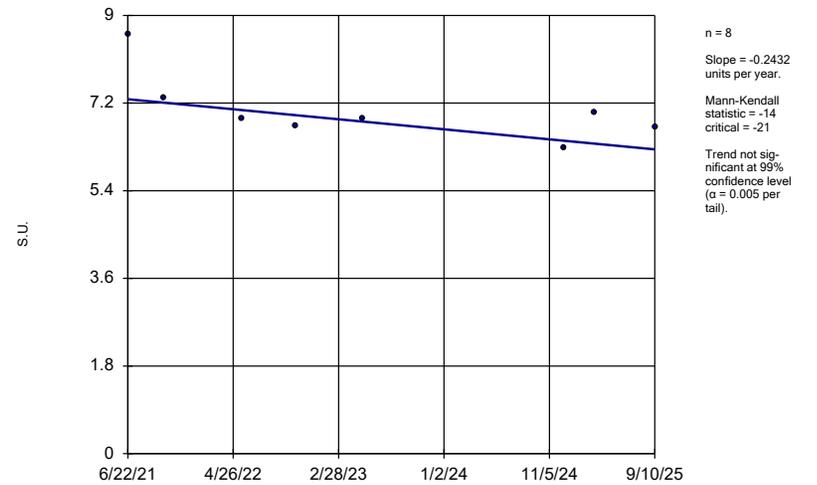
MW-9



Constituent: pH Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

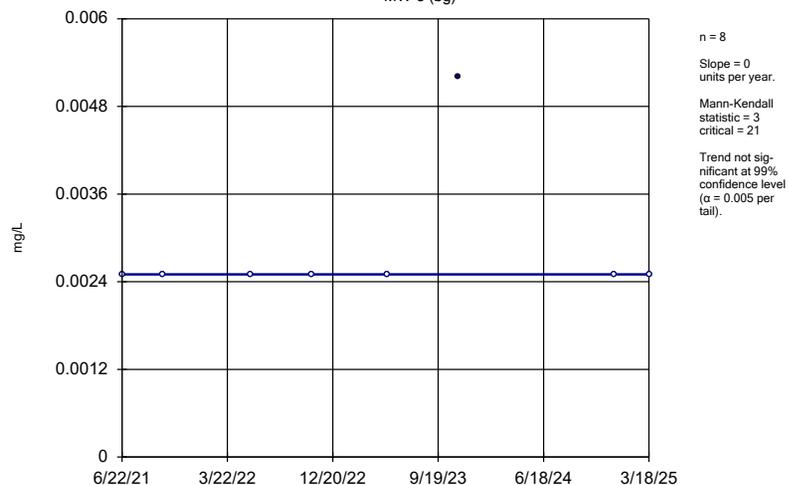
MW-10



Constituent: pH Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

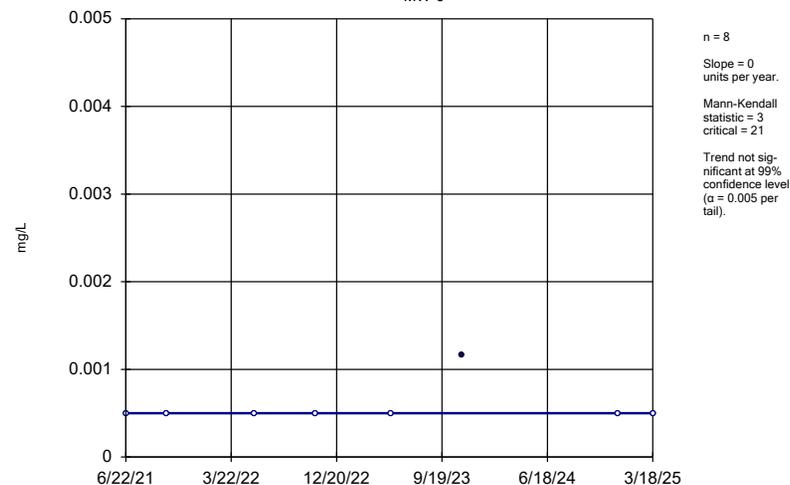
MW-5 (bg)



Constituent: Selenium Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

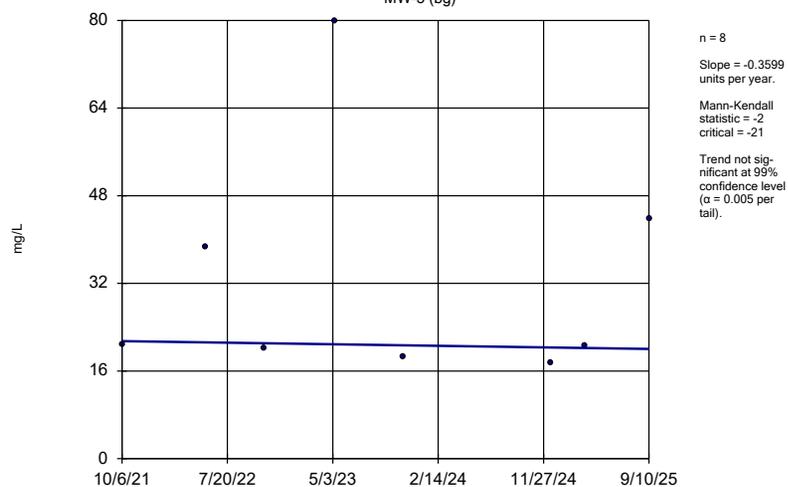
MW-6



Constituent: Silver Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

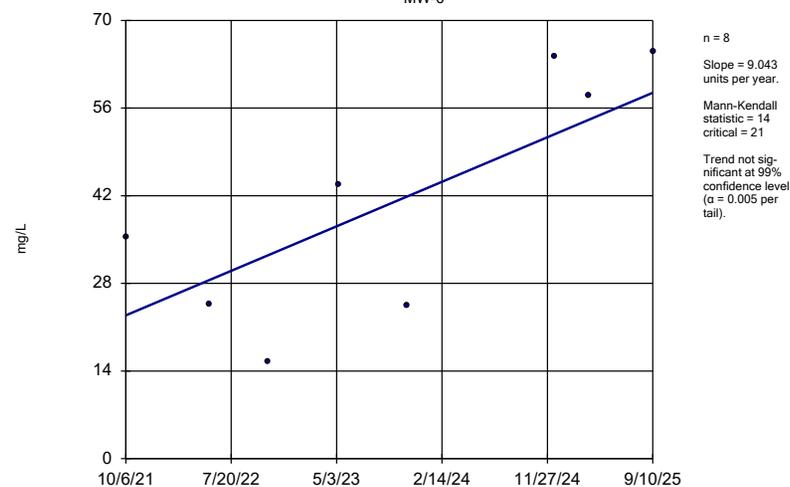
MW-5 (bg)



Constituent: Sulfate Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

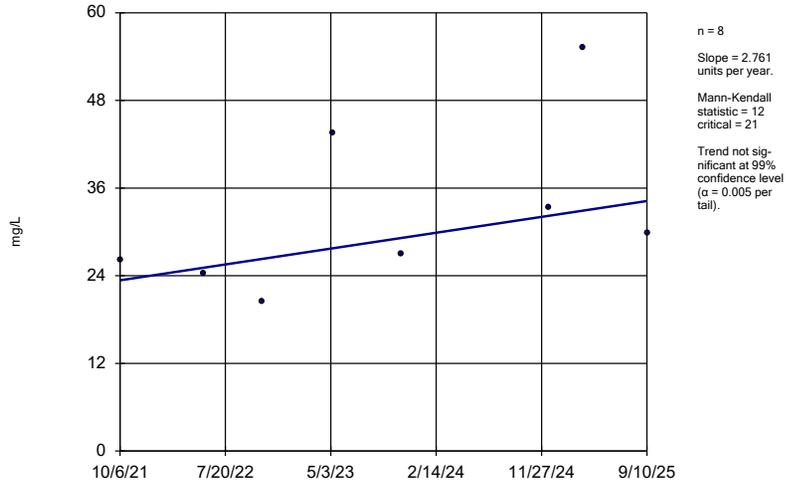
MW-6



Constituent: Sulfate Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

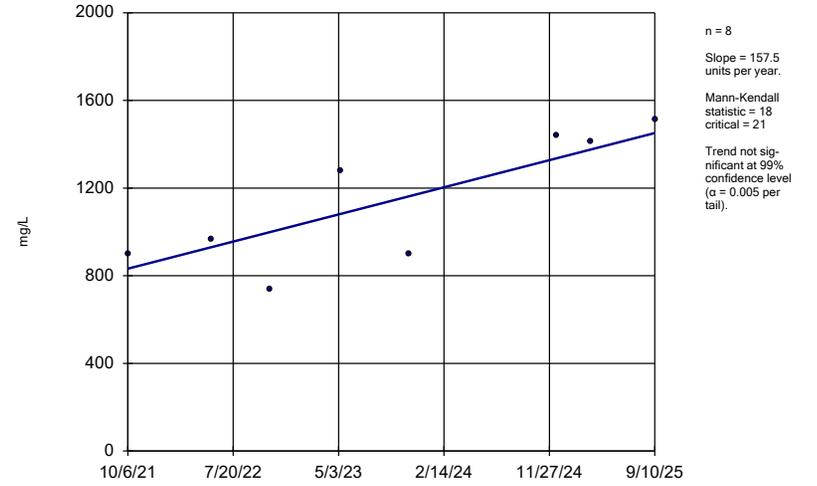
MW-7



Constituent: Sulfate Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

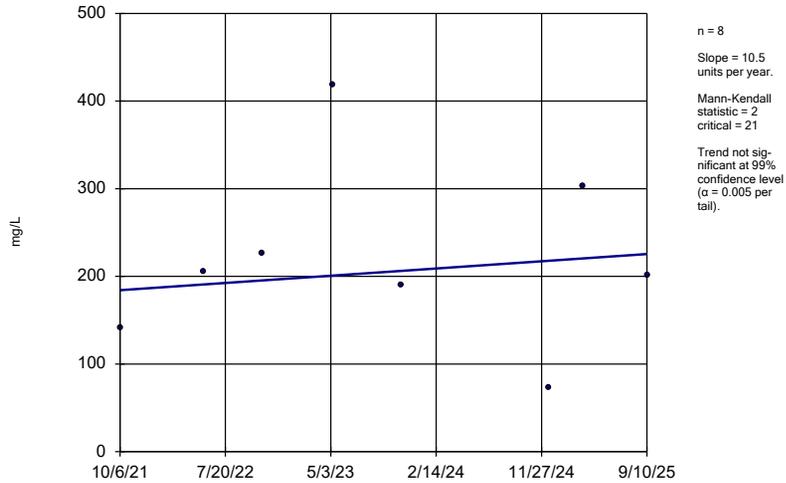
MW-8



Constituent: Sulfate Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

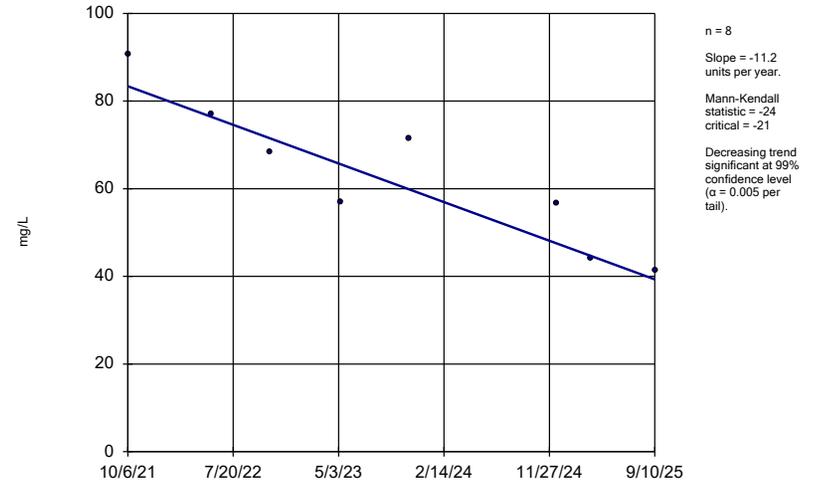
MW-9



Constituent: Sulfate Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

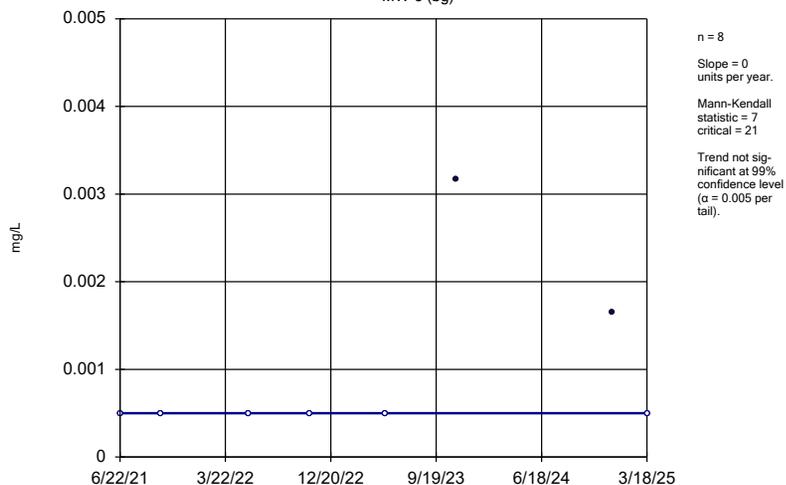
MW-10



Constituent: Sulfate Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

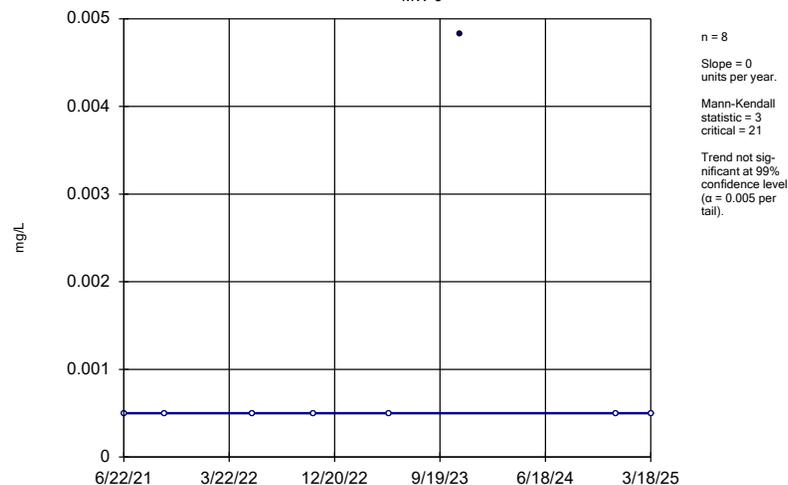
MW-5 (bg)



Constituent: Thallium Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

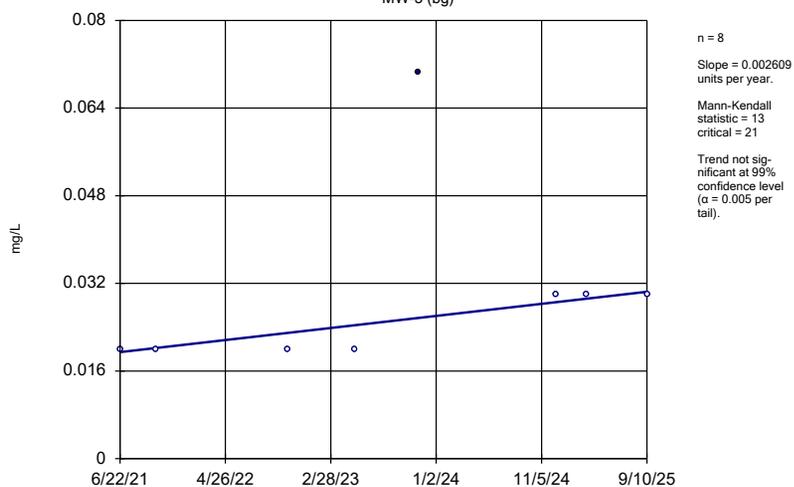
MW-6



Constituent: Thallium Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

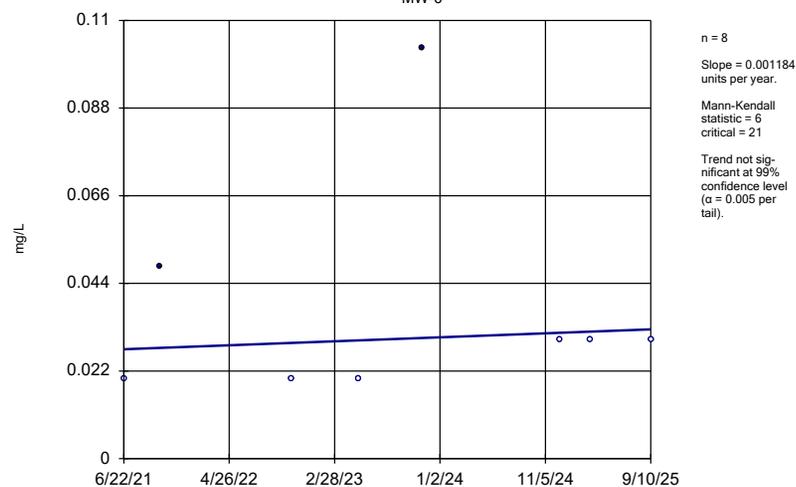
MW-5 (bg)



Constituent: Total Organic Halogens Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

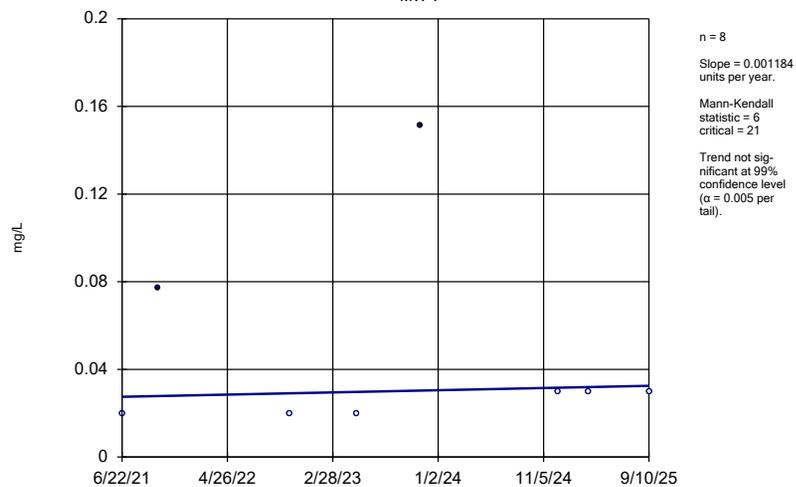
MW-6



Constituent: Total Organic Halogens Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

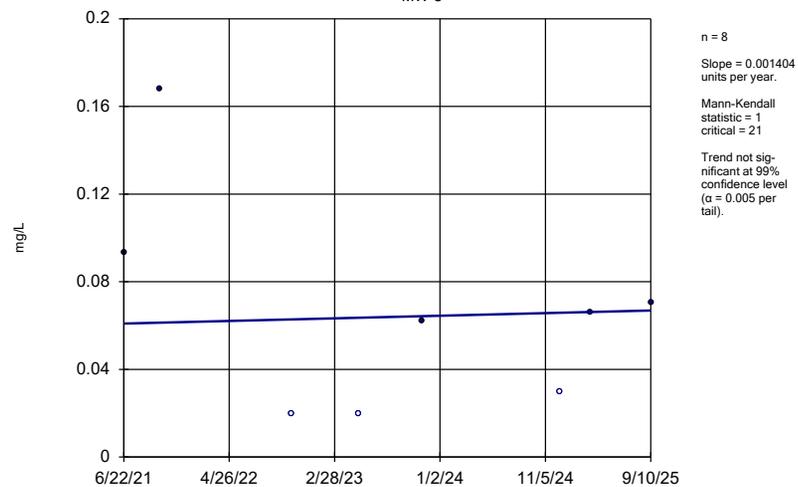
MW-7



Constituent: Total Organic Halogens Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

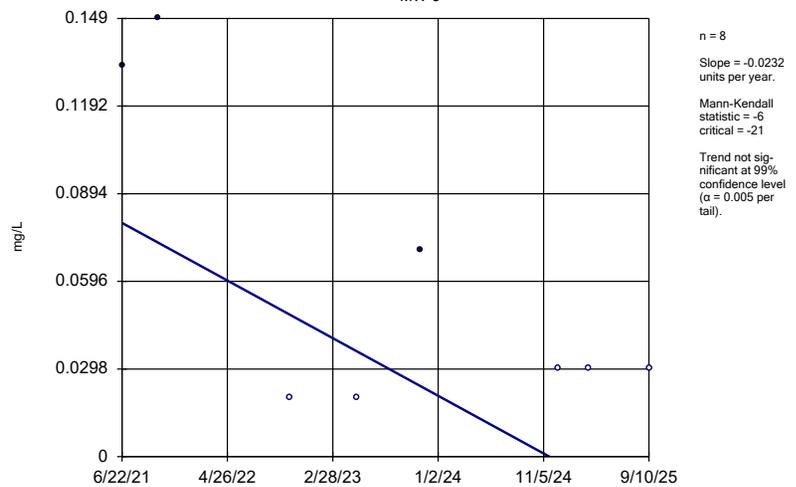
MW-8



Constituent: Total Organic Halogens Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

### Sen's Slope Estimator

MW-9



Constituent: Total Organic Halogens Analysis Run 2/6/2026 10:50 AM View: 2025AWQR-Mann\_Kendall  
Faircast Inc. Client: SCS Engineers Data: FRCST\_2025\_AWQR\_AWRS

## Appendix E

### Mann-Kendall Trend Table

Monitoring Well	Constituent Name	Calculated Statistic		
		Decreasing Trend	Stable Trend	Increasing Trend
MW-5	Aluminum		1	
	Barium		-4	
	Boron		3	
	Chemical Oxygen Demand		-1	
	Chloride	-18		
	Fluoride		-8	
	Iron		1	
	Magnesium		4	
	Manganese		1	
	Molybdenum		-2	
	pH		-10	
	Selenium		3	
	Sulfate		-2	
	Thallium		7	
Total Organic Halogens			13	
MW-6	Aluminum			13
	Barium	-16		
	Boron		9	
	Chemical Oxygen Demand		-8	
	Chloride		-10	
	Chromium		3	
	Cobalt		3	
	Fluoride		-8	
	Iron			18
	Lead		12	
	Magnesium		-8	
	Manganese		6	
	Molybdenum			18
	pH	-14		
	Silver		3	
	Sulfate			14
Thallium		3		
Total Organic Halogens		6		
MW-7	Aluminum		12	
	Arsenic	-14		
	Barium		-4	
	Boron		3	
	Chemical Oxygen Demand		9	
	Chloride		-2	
	Fluoride	-22		
	Iron		7	
	Lead		7	
	Magnesium		-2	
	Manganese		7	
	Molybdenum		8	
	Nitrogen, Ammonia		8	
	pH		-10	
	Sulfate		12	
Total Organic Halogens		6		

Monitoring Well	Constituent Name	Calculated Statistic		
		Decreasing Trend	Stable Trend	Increasing Trend
MW-8	Arsenic			14
	Barium		-12	
	Boron			24
	Cadmium			17
	Chemical Oxygen Demand		5	
	Chloride			14
	Cobalt			13
	Iron			20
	Lead		-1	
	Magnesium			16
	Manganese		10	
	Molybdenum	-15		
	Nickel			16
	pH	-20		
	Sulfate			18
Total Organic Halogens		1		
MW-9	Aluminum		4	
	Barium		9	
	Boron		1	
	Chemical Oxygen Demand		-7	
	Chloride	-18		
	Cobalt		5	
	Copper		2	
	Fluoride		5	
	Iron		8	
	Lead		7	
	Magnesium		1	
	Manganese			13
	Molybdenum		-5	
	pH	-16		
	Sulfate		2	
Total Organic Halogens		-6		
MW-10	Aluminum		5	
	Barium		-2	
	Boron			15
	Chemical Oxygen Demand		-6	
	Chloride	-18		
	Cobalt		3	
	Fluoride		-2	
	Iron		5	
	Lead		1	
	Magnesium	-16		
	Manganese		-3	
	Molybdenum		8	
	pH	-14		
	Sulfate	-24		