# 2026 Annual Water Quality Report

Corn Belt Power Cooperative
Wisdom Station CCR Landfill
Solid Waste Permit No. 21-SDP-04-95C

Prepared for:

Corn Belt Power Cooperative

SCS ENGINEERS

27226471.00 | November 5, 2026

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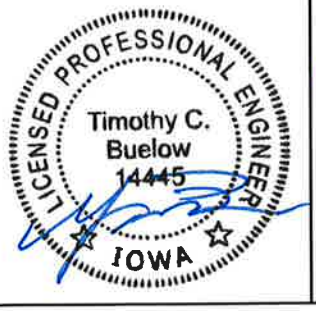
# CERTIFICATION

Prepared by: _____ Date: 11/9/2026

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Typed: Kevin Jensen




I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

_____ Date: 11/9/2026

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License No. 14445

My license renewal date is December 31, 2027.

Pages or sheets covered by this seal:

All except Appendix B-1.

# EXECUTIVE SUMMARY

## ES.1 PERIOD OF REPORT COVERAGE

SCS Engineers (SCS), on behalf of Corn Belt Power Cooperative, has completed the required groundwater sampling for the Wisdom Station Coal Combustion Residue (CCR) Landfill (Landfill). The purpose of this Annual Water Quality Report (AWQR) is to document and statistically evaluate the groundwater sampling results since the 2025 AWQR up to and including the 2026 annual sampling event. This AWQR was prepared in accordance with the applicable requirements of Iowa Administrative Code (IAC) 567-101, 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 Landfill:

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

## ES.3 SITE STATUS AND APPLICABLE RULES

- Landfill Status: Closed, Closure Permit
- Types of waste previously accepted: Coal Combustion Residue (CCR)
- Applicable IAC rules: Applicable sections of 567-101

## ES.4 COMMENTS

The following summarizes points of special emphasis:

Concentrations of the analyzed constituents in groundwater at the Landfill generally appear to be stable to decreasing. Two prediction limit exceedances were detected in 2026 compared to one prediction limit exceedance detected based on 2025 sampling results. The two prediction limit exceedances detected in 2026 were found to be stable at an 80% confidence level. Low-flow sample collection techniques utilized since the 2023 sampling event have continued to produce samples with low concentrations of suspended solids and will continue to be utilized in future sample collection.

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# 1.0 ACRONYMS/ABBREVIATIONS

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

# 2.0 SITE BACKGROUND

## 2.1 SITE LOCATION

The Wisdom Station CCR Landfill (Landfill) is depicted on **Figure 1**, Approved Monitoring Network. The Landfill property is located on an approximately 4-acre plot of land east of the Wisdom Station Power Plant and County Road B24, approximately 5 miles west of Spencer, Iowa. The legal description is as follows: Southeast ¼ of Section 6, Township 96 North, Range 37 West, Clay County, Iowa.

## 2.2 FACILITY

The Landfill is classified as a coal-combustion residue landfill, and it contains coal ash from power generation at the plant and lime softening solids used to treat cooling water at the plant. The Landfill was in operation from 1960 to 2015 and filling began in the southwest corner and expanded eastward over that time period.

## 2.3 GEOLOGY OF THE SITE

The following information pertaining to this section was obtained from the Hydrogeologic Investigation Report prepared by Preston Engineering, Inc., January 1997:

> *The geologic materials at the surface consist of Quaternary ground moraine and lake bed sediments. Unconsolidated sediments of Quaternary and Pleistocene age are at least 300 feet thick. Beneath these sediments is Cretaceous shale of the Dakota Group.*
>
> *Boring logs of wells from the area, available from the Iowa Geologic Survey, show that most wells are 50 feet or less in depth and are completed in Pleistocene sand and gravel.*
>
> *Ten soil borings from the site, drilled and logged by Stanley Engineering Company in 1958, show that there is about 1 foot of topsoil, 1.5 to 2 feet of yellow sandy clay subsoil, about 20 feet of sand and gravel, and at least 53 feet of gray clay. None of the borings encountered bedrock.*

## 2.4 HYDROLOGY OF THE SITE

The following information pertaining to this section was obtained from the Hydrogeologic Investigation Report prepared by Preston Engineering, Inc., January 1997:

> *The surficial sand is fine to medium grained, poorly graded, and has less than 10 percent silt and clay. The water table aquifer is in the sand. Slug tests on wells in the sand show that it has a high conductivity which means that groundwater and leachate will quickly move through it if even a slight gradient exists. Underlying the sand is a clay layer that is over 50 feet thick. A comparison between the permeability of the clay and the hydraulic conductivity of the sand from slug tests shows that the clay is about 10 million times less permeable than the sand. The clay layer should be a good aquiclude, based on its thickness and low permeability in the area beneath the landfill.*

# 3.0 FIGURES DISCUSSION

The following figures are attached.

## 3.1 FIGURE 1 – APPROVED MONITORING NETWORK

The Landfill property and hydrological monitoring system plan (HMSP) 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 monitoring wells during the September 2026 groundwater sampling event is included as **Figure 2**. **Figure 2** indicates a generally southerly flow direction through most of the landfill with an elevated groundwater level at monitoring well MW-6 resulting in a westerly flow away from Stoney Creek and towards the landfill.

# 4.0 QA/QC SUMMARY

Date indicates the date(s) of sampling.

## 4.1 SEPTEMBER 10, 2026 (2026 ANNUAL SAMPLING EVENT)

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

# 5.0 DATA EVALUATION

Statistical evaluation in accordance with the applicable requirements of IAC 567-101, the closure permit, and subsequent permit amendments and correspondence were conducted for the groundwater analytical data collected during the 2026 annual sampling event. The statistical evaluation for samples collected during the 2026 annual sampling event is located in **Appendix D** of this report.

## 5.1 DATA EVALUATION

Groundwater monitoring for the Landfill consists of samples from one background monitoring well located on the northeast corner of the Landfill and four compliance monitoring wells, one located along the eastern border of the Landfill, one located off the southeast corner of the Landfill, one located along the southern border of the Landfill, and one located along the western border of the Landfill.

There were two prediction limit exceedances were detected based on 2026 sampling results as listed in **Table 1** compared to one prediction limit exceedance detected based on 2025 sampling results as reported in the 2025 AWQR. The prediction limit exceedances detected based on 2026 sampling results were boron and molybdenum in monitoring well MW-6. A change to low-flow sample collection techniques was initiated during the 2023 sampling event in an effort to reduce total suspended solids in the samples. Low-flow sample collection techniques have provided samples with comparatively low concentrations of suspended solids since the 2023 sampling event as listed in **Appendix C**.

Exceedances of action or advisory levels were associated with manganese in three monitoring wells as listed in **Table 9**. The monitoring wells, in which manganese exceeded action or advisory levels were background monitoring well MW-4 and compliance monitoring wells MW-5 and MW-7. Manganese has exceeded the regulatory action or advisory level at monitoring well MW-7 since sampling for the constituent began in 2016; however, an overall decrease in the concentrations of manganese detected in monitoring well MW-7 have occurred since a change to low-flow sample collection techniques was initiated beginning with the 2023 sampling event.

## 5.2 TRENDING IN MONITORING WELLS

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

| Monitoring Point | Constituent | Trend |
|---|---|---|
| MW-4 (bg) | Lead | Decreasing |
| MW-6 | Arsenic | Decreasing |
| MW-6 | Iron | Decreasing |
| MW-7 | Copper | Decreasing |
| MW-7 | Manganese | 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 (α=0.20 versus α=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 **Appendix E** of this report.

| Trending in Monitoring Wells | | | | |
|---|---|---|---|---|
| **Monitoring Well** | **Decreasing Trends** | **Stable Trends** | **Increasing Trends** | **Number of Constituents Analyzed** |
| MW-1 | 69.23% | 30.77% | 0.00% | 13 |
| MW-4 (bg) | 7.14% | 64.29% | 28.57% | 14 |
| MW-5 | 53.85% | 38.46% | 7.69% | 13 |
| MW-6 | 53.85% | 30.77% | 15.38% | 13 |
| MW-7 | 42.86% | 57.14% | 0.00% | 14 |
| **Site Wide** | **44.78%** | **44.78%** | **10.45%** | **67** |

*(bg) indicates a background monitoring point.*

Review of the Mann-Kendall statistics indicated that approximately 90% of the Mann-Kendall statistics were considered stable or decreasing following the 2026 annual statistical evaluation. There were seven monitoring well/constituent pairs with a generally increasing trend. The monitoring well/constituent pairs with increasing trends are discussed in the following table.

| Monitoring Well | Constituent Name | Comments |
|---|---|---|
| MW-4 (bg) | Chloride | Based on nine actual detections with duplicate data included. Recent detections are generally above earlier detections. Highest concentration of 29.7 mg/L measured in 2025. |
| MW-4 (bg) | Manganese | Based on nine actual detections with duplicate data included. Recent detections are generally above earlier detections. Maximum concentration in recent trend of 0.99 mg/L measured in 2026. |
| MW-4 (bg) | Molybdenum | Based on four actual detections and two j-flag detections with duplicate data included. Recent detections are generally above earlier detections. Maximum concentration in recent trend of 0.00931 mg/L measured in 2026. |
| MW-4 (bg) | Sulfate | Based on nine actual detections with duplicate data included. Recent detections are generally above earlier detections. Maximum concentration in recent trend of 134 mg/L measured in 2026. |
| MW-5 | Chloride | Based on eleven actual detections with duplicate data included. Recent detections are generally above earlier detections. Maximum concentration in recent trend of 31.2 mg/L measured in 2026. |

| Monitoring Well | Constituent Name | Comments |
|---|---|---|
| MW-6 | Chloride | Based on nine actual detections with duplicate data included. Recent detections are generally above earlier detections. Maximum concentration in recent trend of 21.8 mg/L measured in 2026. |
| MW-6 | Magnesium | Based on nine actual detections with duplicate data included. Recent detections are generally above earlier detections. Maximum concentration in recent trend of 34 mg/L measured in 2025. |

Seven monitoring well/constituent pairs were found to be increasing at an 80% confidence level based on 2026 sampling results, four of which were associated with background monitoring well MW-4. It should be noted that the monitoring well/constituent pairs found to be increasing at an 80% confidence level based on 2026 sampling results did not exceed their respective prediction limit in 2026.

# 6.0 RECOMMENDATIONS

## 6.1 SITE IMPACT ON GROUNDWATER

Concentrations of the analyzed constituents in groundwater at the Landfill generally appear to be stable to decreasing. Two prediction limit exceedances were detected in 2026 compared to one prediction limit exceedances detected based on 2025 sampling results. The two prediction limit exceedances detected in 2026 were found to be stable at an 80% confidence level. Low-flow sample collection techniques utilized since the 2023 sampling event have continued to produce samples with low concentrations of suspended solids and will continue to be utilized in future sample collection.

## 6.2 PROPOSED MONITORING

The groundwater monitoring program is summarized in Table 1. No changes to the HMSP monitoring program are recommended at this time. It is recommended that sampling continue for calendar year 2027 as summarized in Table 2.

## 6.3 PROPOSED MONITORING WELL CHANGES

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

Tables


1 Monitoring Program Summary
2 Monitoring Program Implementation Schedule
4 Monitoring Well Performance and Maintenance Summary
5 Background and GWPS Summary
6 Summary of Well/Detected Constituent Pairs with No Immediately Preceding Prediction Limit Exceedances
7 Summary Table of Ongoing and Newly Identified Prediction Limit Exceedances
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9 Historical Prediction and Action Level Exceedances

**Table 1**
**Monitoring Program Summary**
**2026 Annual Water Quality Report**
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| Monitoring Well | Formation | Current Monitoring Program | Change for Next Sampling Event | Prediction Limit Exceedances | Total Number of Samples in Each Monitoring Program Since January 1, 2018 | | |
|---|---|---|---|---|---|---|---|
| | | | | | Routine | Supplemental | Remedial Action |
| MW-1 | Shallow alluvial sand and gravel | Detection | None | - | 9 | - | - |
| MW-4 | Shallow alluvial sand and gravel | Background | None | - | 9 | - | - |
| MW-5 | Shallow alluvial sand and gravel | Detection | None | - | 9 | - | - |
| MW-6 | Shallow alluvial sand and gravel | Detection | None | Boron, Molybdenum | 9 | - | - |
| MW-7 | Shallow alluvial sand and gravel | Detection | None | - | 9 | - | - |

Notes: None.

**Table 2**
**Monitoring Program Implementation Schedule**
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| Monitoring Well | Recent Sampling Dates and Constituents | Upcoming Sampling Dates and Constituents |
|---|---|---|
| | 9/10/2026 | 2027 |
| MW-1 | Chloride, Sulfate, Fluoride, Arsenic, Barium, Boron, Cadmium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Zinc, TSS | Chloride, Sulfate, Fluoride, Arsenic, Barium, Boron, Cadmium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Zinc, TSS |
| MW-4 | Chloride, Sulfate, Fluoride, Arsenic, Barium, Boron, Cadmium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Zinc, TSS | Chloride, Sulfate, Fluoride, Arsenic, Barium, Boron, Cadmium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Zinc, TSS |
| MW-5 | Chloride, Sulfate, Fluoride, Arsenic, Barium, Boron, Cadmium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Zinc, TSS | Chloride, Sulfate, Fluoride, Arsenic, Barium, Boron, Cadmium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Zinc, TSS |
| MW-6 | Chloride, Sulfate, Fluoride, Arsenic, Barium, Boron, Cadmium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Zinc, TSS | Chloride, Sulfate, Fluoride, Arsenic, Barium, Boron, Cadmium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Zinc, TSS |
| MW-7 | Chloride, Sulfate, Fluoride, Arsenic, Barium, Boron, Cadmium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Selenium, Zinc, TSS | Chloride, Sulfate, Fluoride, Arsenic, Barium, Boron, Cadmium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Selenium, Zinc, TSS |

Note: TSS – Total Suspended Solids.

**Table 4**
**Monitoring Well Performance and Maintenance Summary**
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| Well | Top of Casing | Top of Screen | Total Depth | | Date of Measurements | Maximum Depth Discrepancy (ft) |
|---|---|---|---|---|---|---|
| | | | | | 9/10/2026 | |
| MW-1 | 1343.40 | 1334.60 | 18.7 | Groundwater Level (ft) | 12.11 | 0.0 |
| | | | | Groundwater Elevation (Ft MSL) | 1331.29 | |
| | | | | Measured Well Depth (ft) | 18.7 | |
| | | | | Submerged screen | N | |
| MW-4 | 1338.11 | 1332.02 | 15.6 | Groundwater Level (ft) | 5.72 | -0.1 |
| | | | | Groundwater Elevation (Ft MSL) | 1332.39 | |
| | | | | Measured Well Depth (ft) | 15.7 | |
| | | | | Submerged screen | Y | |
| MW-5 | 1338.04 | 1331.69 | 15.7 | Groundwater Level (ft) | 6.05 | -0.1 |
| | | | | Groundwater Elevation (Ft MSL) | 1331.99 | |
| | | | | Measured Well Depth (ft) | 15.8 | |
| | | | | Submerged screen | Y | |
| MW-6 | 1337.93 | 1331.63 | 15.8 | Groundwater Level (ft) | 5.54 | -0.2 |
| | | | | Groundwater Elevation (Ft MSL) | 1332.39 | |
| | | | | Measured Well Depth (ft) | 16.0 | |
| | | | | Submerged screen | Y | |
| MW-7 | 1344.83 | 1335.80 | 19.9 | Groundwater Level (ft) | 13.70 | 0.0 |
| | | | | Groundwater Elevation (Ft MSL) | 1331.13 | |
| | | | | Measured Well Depth (ft) | 19.9 | |
| | | | | Submerged screen | N | |

Comments:

1) Measured well depths were within 1.0 foot of the installed depths where measured.

**Table 5**
**Background and GWPS Summary**
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**Interwell Background/GWPS (MW-4)**

| Constituent | Units | Samples | Detections | Min | Max | Mean | Background Level | Statistical Test | Action Level | Source |
|---|---|---|---|---|---|---|---|---|---|---|
| **Inorganics** | | | | | | | | | | |
| Arsenic | mg/L | 11 | 11 | 0.002685 | 0.00533 | 0.00393 | 0.00641 | PL (P) | 0.01 mg/L | MCL/SWS |
| Barium | mg/L | 11 | 11 | 0.0855 | 0.188 | 0.1332 | 0.239 | PL (P) | 2.0 mg/L | MCL/SWS |
| Boron | mg/L | 5 | 4 | 0.05 (1/2 RL) | 0.139 | 0.0975 | 0.195 | PL (P) | 6.0 mg/L | SWS |
| Cadmium | mg/L | 11 | 2 | 0.00005 (1/2 RL) | 0.00025 (1/2 RL) | 0.000150 | 0.00025 | PL (NP) | 0.005 mg/L | MCL/SWS |
| Chloride | mg/L | 11 | 11 | 12.6 | 61.1 | 24.80 | 65.6 | PL (P) | - | - |
| Cobalt | mg/L | 11 | 7 | 0.000223* | 0.00131 | 0.00049 | 0.00138 | PL (P) | 0.0021 mg/L | SWS |
| Copper | mg/L | 11 | 2 | 0.0025 (1/2 RL) | 0.00496* | 0.00273 | 0.00496 | PL (NP) | 1.3 mg/L | SWS |
| Fluoride | mg/L | 5 | 3 | 0.25 (1/2 RL) | 0.588* | 0.43050 | 0.785 | - | 4.0 mg/L | SWS |
| Iron | mg/L | 11 | 11 | 0.1915 | 3.75 | 1.604 | 5.04 | PL (P) | - | - |
| Lead | mg/L | 11 | 8 | 0.00025 (1/2 RL) | 0.00455 | 0.00116 | 0.00520 | PL (P) | 0.015 mg/L | MCL/SWS |
| Magnesium | mg/L | 11 | 11 | 18.5 | 50 | 31.3 | 58.2 | PL (P) | - | - |
| Manganese | mg/L | 11 | 11 | 0.113 | 0.966 | 0.333 | 1.06 | PL (P) | 0.3 mg/L | HAL/SWS |
| Molybdenum | mg/L | 5 | 5 | 0.00156* | 0.00656 | 0.00364 | 0.0136 | PL (P) | 0.04 mg/L | MCL/SWS |
| Selenium | mg/L | 6 | 0 | 0.0025 (1/2 RL) | 0.0025 (1/2 RL) | 0.0025 | < 0.005 | DQR | 0.05 mg/L | MCL/SWS |
| Sulfate | mg/L | 11 | 11 | 44.6 | 143 | 74.145 | 192 | PL (P) | 250 mg/L | SMCL |
| Zinc | mg/L | 11 | 10 | 0.01 (1/2 RL) | 0.232 | 0.138 | 0.333 | PL (P) | 2.0 mg/L | SWS |

Notes: None.

Acronyms/Abbreviations:

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

Comments:

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

**Table 6**

**Summary of Well/Detected Constituent Pairs With No Immediately Preceding Prediction Limit Exceedances**

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**Corn Belt Power Cooperative - Wisdom Station CCR Landfill**

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| Well | Constituent | Unit | Result | Background Standard |
|---|---|---|---|---|
| MW-6 | Boron | mg/L | 0.656 | 0.195 |
| | Molybdenum | mg/L | 0.0333 | 0.0136 |

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 Prediction Limit Exceedances**
**2026 Annual Water Quality Report**
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Key

| | |
|---|---|
| | Denotes ongoing prediction limit exceedances that were identified as prediction limit exceedances during this reporting period and the previous reporting period at least once during each reporting period. |
| | Denotes newly identified prediction limit exceedances in the 2026 reporting period. Newly identified is defined as occuring at least once in the current reporting period but not in the immediately preceeding reporting period. |

| Well | Constituent | Units | Result | Background Standard | Action Level/ Statewide Standard |
|---|---|---|---|---|---|
| MW-6 | Boron | mg/L | 0.656 | 0.195 | 6.0 |
| | Molybdenum | mg/L | 0.0333 | 0.0136 | 0.04 |

Notes: None.

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**
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The Summary of Groundwater Chemistry is located in **Appendix C**.

**Table 9**
**Historical Prediction Limit and Action Level Exceedances**
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Key

| | |
|---|---|
| | Prediction Limit Exceedance |
| **X** | Action Level Exceedance |

| Well | Constituent | 2023 | 2024 | 2025 | 2026 |
|---|---|---|---|---|---|
| MW-1 | Cadmium | | | | |
| | Cobalt | | | | |
| | Copper | | | | |
| | Iron | | | | |
| | Manganese | | | | |
| MW-4 (u) | Manganese | | **X** | **X** | **X** |
| MW-5 | Cadmium | | | | |
| | Manganese | | **X** | | **X** |
| MW-6 | Arsenic | | | | |
| | Barium | | | | |
| | Boron | | | | |
| | Cadmium | | | | |
| | Cobalt | | | | |
| | Iron | | | | |
| | Manganese | **X** | **X** | | |
| | Molybdenum | | | | |
| MW-7 | Cobalt | | | | |
| | Manganese | **X** | **X** | **X** | **X** |
| | Molybdenum | **X** | **X** | | |
| | Sulfate | | | | |

Comments: None

# Figures

1 Approved Monitoring Network
2 Groundwater Contours




**Legend**

- HMSP Monitoring Well
- Approximate Waste Boundary

N
W E
S

0 60 120
Feet

1 inch = 80 feet

# Approved Monitoring Network

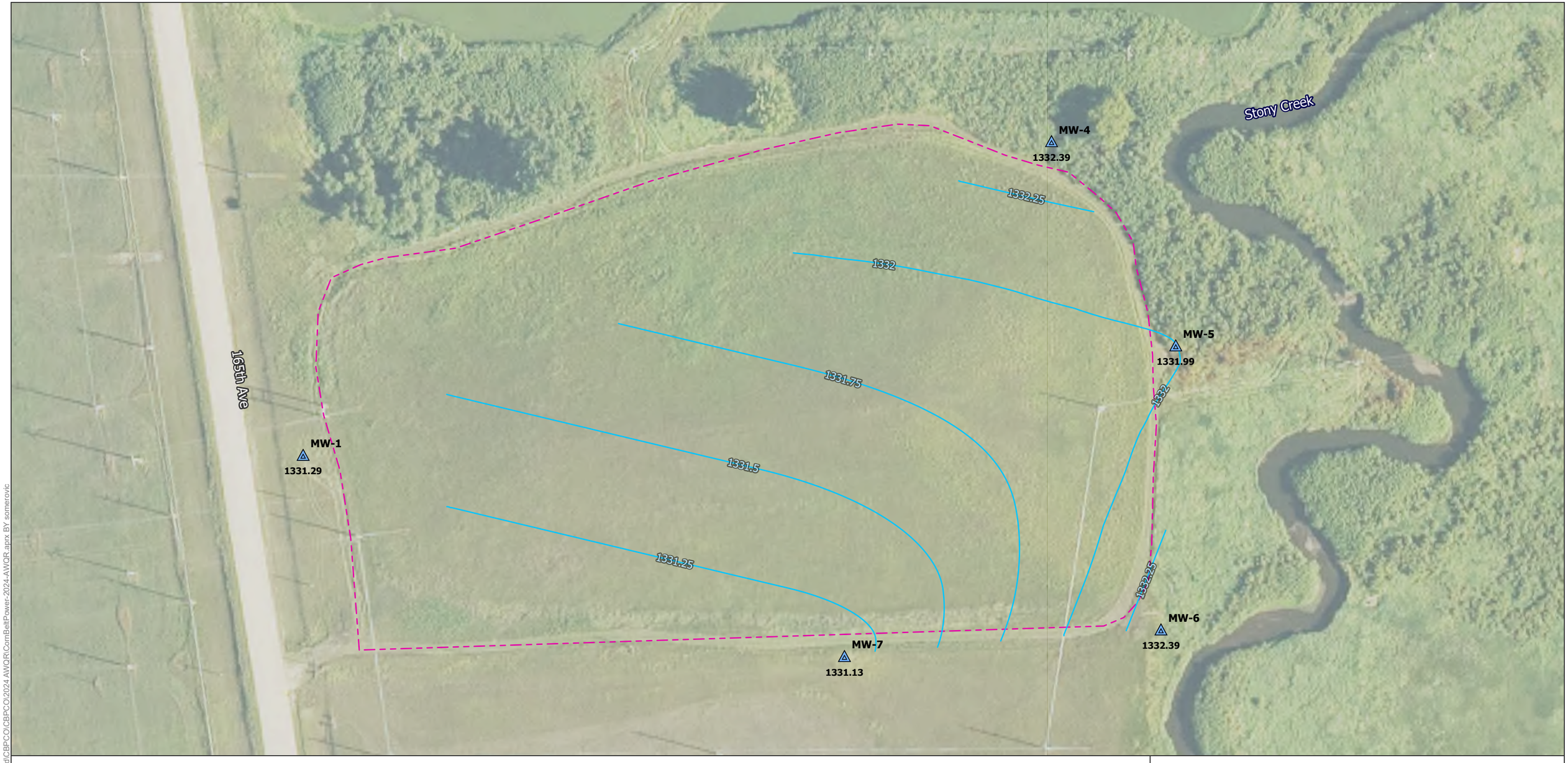
**Figure 1**
**Corn Belt Power Cooperative**
**Wisdom Station CCR Landfill**
**Spencer, Iowa**

| 27226471.00 | Nov 2026 |
|---|---|

**SCS ENGINEERS**

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USDA NAIP, Iowa State University GIS Facility




**Legend**

- Approximate Groundwater Contours Based on Field Measurements Taken September 10, 2026
- Approximate Monitoring Well Location
- Approximate Waste Boundary

N
W E
S

0 60 120
Feet

1 inch = 80 feet

# Groundwater Contours

**Figure 2**
**Corn Belt Power Cooperative**
**Wisdom Station CCR Landfill**
**Spencer, Iowa**

| 27226471.00 | Nov 2026 |
|---|---|

**SCS ENGINEERS**

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USDA NAIP, Iowa State University GIS Facility

# Appendix A

# Field Sampling Forms

# FORM FOR GROUNDWATER SAMPLING

| | | | |
|---|---|---|---|
| Project: | **Corn Belt Power Cooperative CCR Landfill** | | |
| Monitoring Well/Piezometer ID: | **MW-1** | Date: | **9/10/2026** |
| Gradient: | Down | Sampler: | Konner Roth |

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

| **B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)** | |
|---|---|
| Measured Well Total Depth (feet): | 18.7 |
| Initial Static Water Level (feet): | 12.11 |
| Initial Groundwater Elevation (ft-amsl): | 1331.29 |
| Equipment Used: | Dedicated Tubing – Peristaltic Pump |

**C. WELL PURGING**

**FIELD PARAMETERS** [stabilization criteria] RECORD EVERY 3 MINUTES

| Time | Temperature (°C) 10% | Dissolved Oxygen (mg/L) | Specific Conductance (µS/cm) +/- 10% | pH (S.U.) +/- 0.1 | ORP (mV) | Turbidity (NTU) | |
|---|---|---|---|---|---|---|---|
| 12:17 PM | Purging start time. | | | | | | |
| 12:20 PM | 16.6 | 0.9 | 484.1 | 7.23 | 135.8 | 3.4 | |
| 12:23 PM | 16.6 | 0.4 | 477.8 | 7.22 | 124.1 | 3.3 | |
| 12:26 PM | 16.6 | 0.3 | 476.4 | 7.20 | 115.6 | 3.7 | |
| 12:29 PM | 16.7 | 0.3 | 476.0 | 7.19 | 108.5 | 3.9 | |
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| | Parameters stabilized, sample collected. | | | | | | |

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

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

| | |
|---|---|
| Additional Comments: | Color-Clear Odor-None |

# FORM FOR GROUNDWATER SAMPLING

| | | | |
|---|---|---|---|
| Project: | **Corn Belt Power Cooperative CCR Landfill** | | |
| Monitoring Well/Piezometer ID: | **MW-4** | Date: | **9/10/2026** |
| Gradient: | Up | Sampler: | Konner Roth |

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

| **B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)** | |
|---|---|
| Measured Well Total Depth (feet): | 15.7 |
| Initial Static Water Level (feet): | 5.72 |
| Initial Groundwater Elevation (ft-amsl): | 1332.39 |
| Equipment Used: | Dedicated Tubing – Peristaltic Pump |

**C. WELL PURGING**

**FIELD PARAMETERS** [stabilization criteria] RECORD EVERY 3 MINUTES

| Time | Temperature (°C) 10% | Dissolved Oxygen (mg/L) | Specific Conductance (µS/cm) +/- 10% | pH (S.U.) +/- 0.1 | ORP (mV) | Turbidity (NTU) | |
|---|---|---|---|---|---|---|---|
| 11:36 AM | Purging start time. | | | | | | |
| 11:39 AM | 14.8 | 0.7 | 727.3 | 6.80 | 116.7 | 4.3 | |
| 11:42 AM | 14.7 | 0.4 | 723.8 | 6.82 | 67.0 | 6.0 | |
| 11:45 AM | 14.7 | 0.3 | 717.7 | 6.82 | 47.5 | 5.5 | |
| 11:48 AM | 14.9 | 0.2 | 709.5 | 6.82 | 38.2 | 5.1 | |
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| | Parameters stabilized, sample collected. | | | | | | |

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

**D. WELL MAINTENANCE**

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

| | |
|---|---|
| Additional Comments: | Color-Clear Odor-None<br>Duplicate sample collected |

# FORM FOR GROUNDWATER SAMPLING

| | | | |
|---|---|---|---|
| Project: | **Corn Belt Power Cooperative CCR Landfill** | | |
| Monitoring Well/Piezometer ID: | **MW-5** | Date: | **9/10/2026** |
| Gradient: | Down | Sampler: | Konner Roth |

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

| **B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)** | |
|---|---|
| Measured Well Total Depth (feet): | 15.8 |
| Initial Static Water Level (feet): | 6.05 |
| Initial Groundwater Elevation (ft-amsl): | 1331.99 |
| Equipment Used: | Dedicated Tubing – Peristaltic Pump |

**C. WELL PURGING**

**FIELD PARAMETERS** [stabilization criteria] RECORD EVERY 3 MINUTES

| Time | Temperature (°C) 10% | Dissolved Oxygen (mg/L) | Specific Conductance (µS/cm) +/- 10% | pH (S.U.) +/- 0.1 | ORP (mV) | Turbidity (NTU) | |
|---|---|---|---|---|---|---|---|
| 11:02 AM | Purging start time. | | | | | | |
| 11:05 AM | 16.6 | 0.9 | 649.2 | 6.96 | 153.7 | 23.9 | |
| 11:08 AM | 17.1 | 0.6 | 652.7 | 6.94 | 130.8 | 8.7 | |
| 11:11 AM | 17.3 | 0.5 | 661.2 | 6.94 | 117.5 | 7.2 | |
| 11:14 AM | 17.3 | 0.3 | 668.3 | 6.93 | 107.1 | 7.8 | |
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| | Parameters stabilized, sample collected. | | | | | | |

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

**D. WELL MAINTENANCE**

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

| | |
|---|---|
| Additional Comments: | Color-Clear Odor-None |

# FORM FOR GROUNDWATER SAMPLING

| | | | |
|---|---|---|---|
| Project: | **Corn Belt Power Cooperative CCR Landfill** | | |
| Monitoring Well/Piezometer ID: | **MW-6** | Date: | **9/10/2026** |
| Gradient: | Down | Sampler: | Konner Roth |

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

| **B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)** | |
|---|---|
| Measured Well Total Depth (feet): | 16.0 |
| Initial Static Water Level (feet): | 5.54 |
| Initial Groundwater Elevation (ft-amsl): | 1332.39 |
| Equipment Used: | Dedicated Tubing – Peristaltic Pump |

**C. WELL PURGING**

**FIELD PARAMETERS** [stabilization criteria] RECORD EVERY 3 MINUTES

| Time | Temperature (°C) 10% | Dissolved Oxygen (mg/L) | Specific Conductance (µS/cm) +/- 10% | pH (S.U.) +/- 0.1 | ORP (mV) | Turbidity (NTU) | |
|---|---|---|---|---|---|---|---|
| 10:29 AM | Purging start time. | | | | | | |
| 10:32 AM | 13.8 | 0.8 | 602.6 | 6.91 | 145.2 | 3.8 | |
| 10:35 AM | 13.8 | 0.4 | 598.9 | 6.88 | 137.5 | 3.9 | |
| 10:38 AM | 13.7 | 0.3 | 595.9 | 6.88 | 131.3 | 4.4 | |
| 10:41 AM | 13.6 | 0.2 | 591.7 | 6.88 | 126.0 | 4.8 | |
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| | Parameters stabilized, sample collected. | | | | | | |

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

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

| | |
|---|---|
| Additional Comments: | Color-Clear Odor-None |

# FORM FOR GROUNDWATER SAMPLING

| | | | |
|---|---|---|---|
| Project: | **Corn Belt Power Cooperative CCR Landfill** | | |
| Monitoring Well/Piezometer ID: | **MW-7** | Date: | **9/10/2026** |
| Gradient: | Down | Sampler: | Konner Roth |

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

| **B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)** | |
|---|---|
| Measured Well Total Depth (feet): | 19.9 |
| Initial Static Water Level (feet): | 13.70 |
| Initial Groundwater Elevation (ft-amsl): | 1331.13 |
| Equipment Used: | Dedicated Tubing – Peristaltic Pump |

**C. WELL PURGING**

**FIELD PARAMETERS** [stabilization criteria] RECORD EVERY 3 MINUTES

| Time | Temperature (°C) 10% | Dissolved Oxygen (mg/L) | Specific Conductance (µS/cm) +/- 10% | pH (S.U.) +/- 0.1 | ORP (mV) | Turbidity (NTU) | |
|---|---|---|---|---|---|---|---|
| 9:58 AM | Purging start time. | | | | | | |
| 10:01 AM | 14.1 | 1.1 | 613.9 | 7.02 | 182.8 | 5.1 | |
| 10:04 AM | 13.8 | 0.5 | 615.2 | 6.99 | 175.2 | 4.4 | |
| 10:07 AM | 13.5 | 0.4 | 613.9 | 6.97 | 169.6 | 4.0 | |
| 10:10 AM | 13.2 | 0.3 | 599.4 | 6.97 | 150.8 | 3.9 | |
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| | Parameters stabilized, sample collected. | | | | | | |

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

**D. WELL MAINTENANCE**

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

| | |
|---|---|
| Additional Comments: | Color-Clear Odor-None |

# Appendix B-1

# Laboratory Analytical Data Sheets

eurofins | Environment Testing

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

# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 10/16/2026 11:11:51 AM Revision 1

## JOB DESCRIPTION

Corn Belt-Spencer CCR Landfill Sampling

## JOB NUMBER

310-340704-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.



my EOL

## Job Notes

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

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## Authorization



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Revision 1

Authorized for release by
Samuel Miller, Project Management Assistant I
Samuel.Miller@et.eurofinsus.com
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## Job ID: 310-340704-1 Eurofins Cedar Falls

**Job Narrative**
**310-340704-1**

REVISION

The report being provided is a revision of the original report sent on 10/7/2026. The report (revision 1) is being revised due to Added B and Mo to metals list per COC.

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 9/11/2026 3:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C.

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

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

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

## Job ID: 310-340704-2 Eurofins Cedar Falls

**Job Narrative**
**310-340704-2**

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

**Receipt**
The samples were received on 9/11/2026 3:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C.

**Metals**
Method 6020B - Total Recoverable: The method blank for preparation batch 500-887896 and analytical batch 500-888235 contained Molybdenum and Boron above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

# Sample Summary

Client: SCS Engineers
Job ID: 310-340704-1
Project/Site: Corn Belt-Spencer CCR Landfill Sampling

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Sample Origin |
|---|---|---|---|---|---|
| 310-340704-1 | MW-1 | Water | 09/10/26 12:40 | 09/11/26 15:10 | Iowa |
| 310-340704-2 | MW-4 | Water | 09/10/26 12:07 | 09/11/26 15:10 | Iowa |
| 310-340704-3 | MW-5 | Water | 09/10/26 11:25 | 09/11/26 15:10 | Iowa |
| 310-340704-4 | MW-6 | Water | 09/10/26 10:50 | 09/11/26 15:10 | Iowa |
| 310-340704-5 | MW-7 | Water | 09/10/26 10:18 | 09/11/26 15:10 | Iowa |
| 310-340704-6 | MW-D | Water | 09/10/26 12:07 | 09/11/26 15:10 | Iowa |

# Detection Summary

Client: SCS Engineers
Job ID: 310-340704-1
Project/Site: Corn Belt-Spencer CCR Landfill Sampling

## Client Sample ID: MW-1 — Lab Sample ID: 310-340704-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 18.5 | | 5.00 | 2.25 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 35.3 | | 5.00 | 2.10 | mg/L | 5 | | 9056A | Total/NA |
| Fluoride | 0.363 | J | 1.00 | 0.180 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 0.000562 | J | 0.00100 | 0.000232 | mg/L | 1 | | 6020B | Total Recoverable |
| Barium | 0.0612 | | 0.00250 | 0.00139 | mg/L | 1 | | 6020B | Total Recoverable |
| Copper | 0.000976 | J | 0.00200 | 0.000497 | mg/L | 1 | | 6020B | Total Recoverable |
| Magnesium | 26.7 | | 0.200 | 0.0494 | mg/L | 1 | | 6020B | Total Recoverable |
| Manganese | 0.00896 | | 0.00250 | 0.000791 | mg/L | 1 | | 6020B | Total Recoverable |
| Boron | 0.0701 | B | 0.0500 | 0.0127 | mg/L | 1 | | 6020B | Total Recoverable |

## Client Sample ID: MW-4 — Lab Sample ID: 310-340704-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 26.1 | | 5.00 | 2.25 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 133 | | 5.00 | 2.10 | mg/L | 5 | | 9056A | Total/NA |
| Fluoride | 0.622 | J | 1.00 | 0.180 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 0.00272 | | 0.00100 | 0.000232 | mg/L | 1 | | 6020B | Total Recoverable |
| Barium | 0.154 | | 0.00250 | 0.00139 | mg/L | 1 | | 6020B | Total Recoverable |
| Cobalt | 0.000794 | J | 0.00100 | 0.000402 | mg/L | 1 | | 6020B | Total Recoverable |
| Copper | 0.00208 | | 0.00200 | 0.000497 | mg/L | 1 | | 6020B | Total Recoverable |
| Iron | 0.191 | | 0.100 | 0.0467 | mg/L | 1 | | 6020B | Total Recoverable |
| Magnesium | 40.3 | | 0.200 | 0.0494 | mg/L | 1 | | 6020B | Total Recoverable |
| Manganese | 0.942 | | 0.00250 | 0.000791 | mg/L | 1 | | 6020B | Total Recoverable |
| Zinc | 0.174 | | 0.0200 | 0.00692 | mg/L | 1 | | 6020B | Total Recoverable |
| Molybdenum | 0.00381 | J B | 0.00500 | 0.00246 | mg/L | 1 | | 6020B | Total Recoverable |
| Boron | 0.0733 | B | 0.0500 | 0.0127 | mg/L | 1 | | 6020B | Total Recoverable |
| Total Suspended Solids | 1.13 | J | 1.88 | 1.05 | mg/L | 1 | | I-3765-85 | Total/NA |

## Client Sample ID: MW-5 — Lab Sample ID: 310-340704-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 31.2 | | 5.00 | 2.25 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 118 | | 5.00 | 2.10 | mg/L | 5 | | 9056A | Total/NA |
| Fluoride | 0.859 | J | 1.00 | 0.180 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 0.00117 | | 0.00100 | 0.000232 | mg/L | 1 | | 6020B | Total Recoverable |
| Barium | 0.0367 | | 0.00250 | 0.00139 | mg/L | 1 | | 6020B | Total Recoverable |
| Copper | 0.000591 | J | 0.00200 | 0.000497 | mg/L | 1 | | 6020B | Total Recoverable |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: MW-5 (Continued) — Lab Sample ID: 310-340704-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Iron | 0.287 | | 0.100 | 0.0467 | mg/L | 1 | | 6020B | Total Recoverable |
| Magnesium | 38.3 | | 0.200 | 0.0494 | mg/L | 1 | | 6020B | Total Recoverable |
| Manganese | 0.449 | | 0.00250 | 0.000791 | mg/L | 1 | | 6020B | Total Recoverable |
| Molybdenum | 0.00614 | B | 0.00500 | 0.00246 | mg/L | 1 | | 6020B | Total Recoverable |
| Boron | 0.0544 | B | 0.0500 | 0.0127 | mg/L | 1 | | 6020B | Total Recoverable |
| Total Suspended Solids | 1.88 | | 1.88 | 1.05 | mg/L | 1 | | I-3765-85 | Total/NA |

## Client Sample ID: MW-6 — Lab Sample ID: 310-340704-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 21.8 | | 5.00 | 2.25 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 105 | | 5.00 | 2.10 | mg/L | 5 | | 9056A | Total/NA |
| Fluoride | 0.531 | J | 1.00 | 0.180 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 0.00153 | | 0.00100 | 0.000232 | mg/L | 1 | | 6020B | Total Recoverable |
| Barium | 0.103 | | 0.00250 | 0.00139 | mg/L | 1 | | 6020B | Total Recoverable |
| Copper | 0.00148 | J | 0.00200 | 0.000497 | mg/L | 1 | | 6020B | Total Recoverable |
| Iron | 0.0471 | J | 0.100 | 0.0467 | mg/L | 1 | | 6020B | Total Recoverable |
| Magnesium | 31.3 | | 0.200 | 0.0494 | mg/L | 1 | | 6020B | Total Recoverable |
| Manganese | 0.145 | | 0.00250 | 0.000791 | mg/L | 1 | | 6020B | Total Recoverable |
| Molybdenum | 0.0333 | B | 0.00500 | 0.00246 | mg/L | 1 | | 6020B | Total Recoverable |
| Boron | 0.656 | B | 0.0500 | 0.0127 | mg/L | 1 | | 6020B | Total Recoverable |
| Total Suspended Solids | 1.63 | J | 1.88 | 1.05 | mg/L | 1 | | I-3765-85 | Total/NA |

## Client Sample ID: MW-7 — Lab Sample ID: 310-340704-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 18.9 | | 5.00 | 2.25 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 140 | | 5.00 | 2.10 | mg/L | 5 | | 9056A | Total/NA |
| Fluoride | 0.486 | J | 1.00 | 0.180 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 0.000839 | J | 0.00100 | 0.000232 | mg/L | 1 | | 6020B | Total Recoverable |
| Barium | 0.0850 | | 0.00250 | 0.00139 | mg/L | 1 | | 6020B | Total Recoverable |
| Cobalt | 0.000975 | J | 0.00100 | 0.000402 | mg/L | 1 | | 6020B | Total Recoverable |
| Copper | 0.000948 | J | 0.00200 | 0.000497 | mg/L | 1 | | 6020B | Total Recoverable |
| Iron | 0.388 | | 0.100 | 0.0467 | mg/L | 1 | | 6020B | Total Recoverable |
| Magnesium | 29.9 | | 0.200 | 0.0494 | mg/L | 1 | | 6020B | Total Recoverable |
| Manganese | 1.02 | | 0.00250 | 0.000791 | mg/L | 1 | | 6020B | Total Recoverable |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: MW-7 (Continued)
## Lab Sample ID: 310-340704-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Zinc | 0.0126 | J | 0.0200 | 0.00692 | mg/L | 1 | | 6020B | Total Recoverable |
| Molybdenum | 0.00417 | J B | 0.00500 | 0.00246 | mg/L | 1 | | 6020B | Total Recoverable |
| Boron | 0.147 | B | 0.0500 | 0.0127 | mg/L | 1 | | 6020B | Total Recoverable |
| Total Suspended Solids | 2.38 | | 1.88 | 1.05 | mg/L | 1 | | I-3765-85 | Total/NA |

## Client Sample ID: MW-D
## Lab Sample ID: 310-340704-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 26.1 | | 5.00 | 2.25 | mg/L | 5 | | 9056A | Total/NA |
| Sulfate | 134 | | 5.00 | 2.10 | mg/L | 5 | | 9056A | Total/NA |
| Fluoride | 0.241 | J | 1.00 | 0.180 | mg/L | 5 | | 9056A | Total/NA |
| Arsenic | 0.00265 | | 0.00100 | 0.000232 | mg/L | 1 | | 6020B | Total Recoverable |
| Barium | 0.154 | | 0.00250 | 0.00139 | mg/L | 1 | | 6020B | Total Recoverable |
| Cobalt | 0.000753 | J | 0.00100 | 0.000402 | mg/L | 1 | | 6020B | Total Recoverable |
| Copper | 0.00307 | | 0.00200 | 0.000497 | mg/L | 1 | | 6020B | Total Recoverable |
| Iron | 0.192 | | 0.100 | 0.0467 | mg/L | 1 | | 6020B | Total Recoverable |
| Magnesium | 39.6 | | 0.200 | 0.0494 | mg/L | 1 | | 6020B | Total Recoverable |
| Manganese | 0.990 | | 0.00250 | 0.000791 | mg/L | 1 | | 6020B | Total Recoverable |
| Zinc | 0.177 | | 0.0200 | 0.00692 | mg/L | 1 | | 6020B | Total Recoverable |
| Molybdenum | 0.00931 | B | 0.00500 | 0.00246 | mg/L | 1 | | 6020B | Total Recoverable |
| Boron | 0.0872 | B | 0.0500 | 0.0127 | mg/L | 1 | | 6020B | Total Recoverable |
| Total Suspended Solids | 1.38 | J | 1.88 | 1.05 | mg/L | 1 | | I-3765-85 | Total/NA |

This Detection Summary does not include radiochemical test results.

# Client Sample Results

Client: SCS Engineers
Job ID: 310-340704-1
Project/Site: Corn Belt-Spencer CCR Landfill Sampling

## Client Sample ID: MW-1
**Lab Sample ID: 310-340704-1**
**Date Collected: 09/10/26 12:40**
**Matrix: Water**
**Date Received: 09/11/26 15:10**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **18.5** | | 5.00 | 2.25 | mg/L | | | 09/17/26 09:35 | 5 |
| **Sulfate** | **35.3** | | 5.00 | 2.10 | mg/L | | | 09/17/26 09:35 | 5 |
| **Fluoride** | **0.363** | **J** | 1.00 | 0.180 | mg/L | | | 09/17/26 09:35 | 5 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.000562** | **J** | 0.00100 | 0.000232 | mg/L | | 10/01/26 14:36 | 10/06/26 18:59 | 1 |
| **Barium** | **0.0612** | | 0.00250 | 0.00139 | mg/L | | 10/01/26 14:36 | 10/06/26 18:59 | 1 |
| Cadmium | <0.000500 | | 0.000500 | 0.000167 | mg/L | | 10/01/26 14:36 | 10/06/26 18:59 | 1 |
| Cobalt | <0.00100 | | 0.00100 | 0.000402 | mg/L | | 10/01/26 14:36 | 10/06/26 18:59 | 1 |
| **Copper** | **0.000976** | **J** | 0.00200 | 0.000497 | mg/L | | 10/01/26 14:36 | 10/06/26 18:59 | 1 |
| Iron | <0.100 | | 0.100 | 0.0467 | mg/L | | 10/01/26 14:36 | 10/06/26 18:59 | 1 |
| Lead | <0.000500 | | 0.000500 | 0.000186 | mg/L | | 10/01/26 14:36 | 10/06/26 18:59 | 1 |
| **Magnesium** | **26.7** | | 0.200 | 0.0494 | mg/L | | 10/01/26 14:36 | 10/06/26 18:59 | 1 |
| **Manganese** | **0.00896** | | 0.00250 | 0.000791 | mg/L | | 10/01/26 14:36 | 10/06/26 18:59 | 1 |
| Zinc | <0.0200 | | 0.0200 | 0.00692 | mg/L | | 10/01/26 14:36 | 10/06/26 18:59 | 1 |
| Molybdenum | <0.00500 | | 0.00500 | 0.00246 | mg/L | | 10/14/26 15:50 | 10/15/26 16:24 | 1 |
| **Boron** | **0.0701** | **B** | 0.0500 | 0.0127 | mg/L | | 10/14/26 15:50 | 10/15/26 16:24 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Suspended Solids (USGS I-3765-85) | <1.88 | | 1.88 | 1.05 | mg/L | | | 09/15/26 07:11 | 1 |

# Client Sample Results

Client: SCS Engineers
Job ID: 310-340704-1
Project/Site: Corn Belt-Spencer CCR Landfill Sampling

## Client Sample ID: MW-4
**Date Collected: 09/10/26 12:07**
**Date Received: 09/11/26 15:10**

## Lab Sample ID: 310-340704-2
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 26.1 | | 5.00 | 2.25 | mg/L | | | 09/17/26 10:12 | 5 |
| Sulfate | 133 | | 5.00 | 2.10 | mg/L | | | 09/17/26 10:12 | 5 |
| Fluoride | 0.622 | J | 1.00 | 0.180 | mg/L | | | 09/17/26 10:12 | 5 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.00272 | | 0.00100 | 0.000232 | mg/L | | 10/01/26 14:36 | 10/06/26 19:12 | 1 |
| Barium | 0.154 | | 0.00250 | 0.00139 | mg/L | | 10/01/26 14:36 | 10/06/26 19:12 | 1 |
| Cadmium | <0.000500 | | 0.000500 | 0.000167 | mg/L | | 10/01/26 14:36 | 10/06/26 19:12 | 1 |
| Cobalt | 0.000794 | J | 0.00100 | 0.000402 | mg/L | | 10/01/26 14:36 | 10/06/26 19:12 | 1 |
| Copper | 0.00208 | | 0.00200 | 0.000497 | mg/L | | 10/01/26 14:36 | 10/06/26 19:12 | 1 |
| Iron | 0.191 | | 0.100 | 0.0467 | mg/L | | 10/01/26 14:36 | 10/06/26 19:12 | 1 |
| Lead | <0.000500 | | 0.000500 | 0.000186 | mg/L | | 10/01/26 14:36 | 10/06/26 19:12 | 1 |
| Magnesium | 40.3 | | 0.200 | 0.0494 | mg/L | | 10/01/26 14:36 | 10/06/26 19:12 | 1 |
| Manganese | 0.942 | | 0.00250 | 0.000791 | mg/L | | 10/01/26 14:36 | 10/06/26 19:12 | 1 |
| Zinc | 0.174 | | 0.0200 | 0.00692 | mg/L | | 10/01/26 14:36 | 10/06/26 19:12 | 1 |
| Molybdenum | 0.00381 | J B | 0.00500 | 0.00246 | mg/L | | 10/14/26 15:50 | 10/15/26 16:13 | 1 |
| Boron | 0.0733 | B | 0.0500 | 0.0127 | mg/L | | 10/14/26 15:50 | 10/15/26 16:13 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Suspended Solids (USGS I-3765-85) | 1.13 | J | 1.88 | 1.05 | mg/L | | | 09/15/26 07:11 | 1 |

# Client Sample Results

Client: SCS Engineers
Job ID: 310-340704-1
Project/Site: Corn Belt-Spencer CCR Landfill Sampling

## Client Sample ID: MW-5
**Date Collected: 09/10/26 11:25**
**Date Received: 09/11/26 15:10**

## Lab Sample ID: 310-340704-3
**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 31.2 | | 5.00 | 2.25 | mg/L | | | 09/17/26 10:24 | 5 |
| Sulfate | 118 | | 5.00 | 2.10 | mg/L | | | 09/17/26 10:24 | 5 |
| Fluoride | 0.859 | J | 1.00 | 0.180 | mg/L | | | 09/17/26 10:24 | 5 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.00117 | | 0.00100 | 0.000232 | mg/L | | 10/01/26 14:36 | 10/06/26 19:15 | 1 |
| Barium | 0.0367 | | 0.00250 | 0.00139 | mg/L | | 10/01/26 14:36 | 10/06/26 19:15 | 1 |
| Cadmium | <0.000500 | | 0.000500 | 0.000167 | mg/L | | 10/01/26 14:36 | 10/06/26 19:15 | 1 |
| Cobalt | <0.00100 | | 0.00100 | 0.000402 | mg/L | | 10/01/26 14:36 | 10/06/26 19:15 | 1 |
| Copper | 0.000591 | J | 0.00200 | 0.000497 | mg/L | | 10/01/26 14:36 | 10/06/26 19:15 | 1 |
| Iron | 0.287 | | 0.100 | 0.0467 | mg/L | | 10/01/26 14:36 | 10/06/26 19:15 | 1 |
| Lead | <0.000500 | | 0.000500 | 0.000186 | mg/L | | 10/01/26 14:36 | 10/06/26 19:15 | 1 |
| Magnesium | 38.3 | | 0.200 | 0.0494 | mg/L | | 10/01/26 14:36 | 10/06/26 19:15 | 1 |
| Manganese | 0.449 | | 0.00250 | 0.000791 | mg/L | | 10/01/26 14:36 | 10/06/26 19:15 | 1 |
| Zinc | <0.0200 | | 0.0200 | 0.00692 | mg/L | | 10/01/26 14:36 | 10/06/26 19:15 | 1 |
| Molybdenum | 0.00614 | B | 0.00500 | 0.00246 | mg/L | | 10/14/26 15:50 | 10/15/26 16:10 | 1 |
| Boron | 0.0544 | B | 0.0500 | 0.0127 | mg/L | | 10/14/26 15:50 | 10/15/26 16:10 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Suspended Solids (USGS I-3765-85) | 1.88 | | 1.88 | 1.05 | mg/L | | | 09/15/26 07:11 | 1 |

# Client Sample Results

Client: SCS Engineers
Job ID: 310-340704-1
Project/Site: Corn Belt-Spencer CCR Landfill Sampling

## Client Sample ID: MW-6
**Lab Sample ID: 310-340704-4**
**Date Collected: 09/10/26 10:50**
**Matrix: Water**
**Date Received: 09/11/26 15:10**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **21.8** | | 5.00 | 2.25 | mg/L | | | 09/17/26 10:36 | 5 |
| **Sulfate** | **105** | | 5.00 | 2.10 | mg/L | | | 09/17/26 10:36 | 5 |
| **Fluoride** | **0.531** | **J** | 1.00 | 0.180 | mg/L | | | 09/17/26 10:36 | 5 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.00153** | | 0.00100 | 0.000232 | mg/L | | 10/01/26 14:36 | 10/06/26 19:28 | 1 |
| **Barium** | **0.103** | | 0.00250 | 0.00139 | mg/L | | 10/01/26 14:36 | 10/06/26 19:28 | 1 |
| Cadmium | <0.000500 | | 0.000500 | 0.000167 | mg/L | | 10/01/26 14:36 | 10/06/26 19:28 | 1 |
| Cobalt | <0.00100 | | 0.00100 | 0.000402 | mg/L | | 10/01/26 14:36 | 10/06/26 19:28 | 1 |
| **Copper** | **0.00148** | **J** | 0.00200 | 0.000497 | mg/L | | 10/01/26 14:36 | 10/06/26 19:28 | 1 |
| **Iron** | **0.0471** | **J** | 0.100 | 0.0467 | mg/L | | 10/01/26 14:36 | 10/06/26 19:28 | 1 |
| Lead | <0.000500 | | 0.000500 | 0.000186 | mg/L | | 10/01/26 14:36 | 10/06/26 19:28 | 1 |
| **Magnesium** | **31.3** | | 0.200 | 0.0494 | mg/L | | 10/01/26 14:36 | 10/06/26 19:28 | 1 |
| **Manganese** | **0.145** | | 0.00250 | 0.000791 | mg/L | | 10/01/26 14:36 | 10/06/26 19:28 | 1 |
| Zinc | <0.0200 | | 0.0200 | 0.00692 | mg/L | | 10/01/26 14:36 | 10/06/26 19:28 | 1 |
| **Molybdenum** | **0.0333** | **B** | 0.00500 | 0.00246 | mg/L | | 10/14/26 15:50 | 10/15/26 16:04 | 1 |
| **Boron** | **0.656** | **B** | 0.0500 | 0.0127 | mg/L | | 10/14/26 15:50 | 10/15/26 16:04 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total Suspended Solids (USGS I-3765-85)** | **1.63** | **J** | 1.88 | 1.05 | mg/L | | | 09/15/26 07:11 | 1 |

Client: SCS Engineers
Job ID: 310-340704-1
Project/Site: Corn Belt-Spencer CCR Landfill Sampling

## Client Sample ID: MW-7
**Lab Sample ID: 310-340704-5**
**Date Collected: 09/10/26 10:18**
**Matrix: Water**
**Date Received: 09/11/26 15:10**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 18.9 | | 5.00 | 2.25 | mg/L | | | 09/17/26 10:48 | 5 |
| Sulfate | 140 | | 5.00 | 2.10 | mg/L | | | 09/17/26 10:48 | 5 |
| Fluoride | 0.486 | J | 1.00 | 0.180 | mg/L | | | 09/17/26 10:48 | 5 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.000839 | J | 0.00100 | 0.000232 | mg/L | | 10/01/26 14:36 | 10/06/26 19:18 | 1 |
| Barium | 0.0850 | | 0.00250 | 0.00139 | mg/L | | 10/01/26 14:36 | 10/06/26 19:18 | 1 |
| Beryllium | <0.000400 | | 0.000400 | 0.000236 | mg/L | | 10/01/26 14:36 | 10/06/26 19:18 | 1 |
| Cadmium | <0.000500 | | 0.000500 | 0.000167 | mg/L | | 10/01/26 14:36 | 10/06/26 19:18 | 1 |
| Cobalt | 0.000975 | J | 0.00100 | 0.000402 | mg/L | | 10/01/26 14:36 | 10/06/26 19:18 | 1 |
| Copper | 0.000948 | J | 0.00200 | 0.000497 | mg/L | | 10/01/26 14:36 | 10/06/26 19:18 | 1 |
| Iron | 0.388 | | 0.100 | 0.0467 | mg/L | | 10/01/26 14:36 | 10/06/26 19:18 | 1 |
| Lead | <0.000500 | | 0.000500 | 0.000186 | mg/L | | 10/01/26 14:36 | 10/06/26 19:18 | 1 |
| Magnesium | 29.9 | | 0.200 | 0.0494 | mg/L | | 10/01/26 14:36 | 10/06/26 19:18 | 1 |
| Manganese | 1.02 | | 0.00250 | 0.000791 | mg/L | | 10/01/26 14:36 | 10/06/26 19:18 | 1 |
| Selenium | <0.00250 | | 0.00250 | 0.000982 | mg/L | | 10/01/26 14:36 | 10/06/26 19:18 | 1 |
| Zinc | 0.0126 | J | 0.0200 | 0.00692 | mg/L | | 10/01/26 14:36 | 10/06/26 19:18 | 1 |
| Molybdenum | 0.00417 | J B | 0.00500 | 0.00246 | mg/L | | 10/14/26 15:50 | 10/15/26 16:07 | 1 |
| Boron | 0.147 | B | 0.0500 | 0.0127 | mg/L | | 10/14/26 15:50 | 10/15/26 16:07 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Suspended Solids (USGS I-3765-85) | 2.38 | | 1.88 | 1.05 | mg/L | | | 09/15/26 06:15 | 1 |

# Client Sample Results

Client: SCS Engineers
Job ID: 310-340704-1
Project/Site: Corn Belt-Spencer CCR Landfill Sampling

**Client Sample ID: MW-D**
**Lab Sample ID: 310-340704-6**
**Date Collected: 09/10/26 12:07**
**Matrix: Water**
**Date Received: 09/11/26 15:10**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 26.1 | | 5.00 | 2.25 | mg/L | | | 09/17/26 11:24 | 5 |
| Sulfate | 134 | | 5.00 | 2.10 | mg/L | | | 09/17/26 11:24 | 5 |
| Fluoride | 0.241 | J | 1.00 | 0.180 | mg/L | | | 09/17/26 11:24 | 5 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.00265 | | 0.00100 | 0.000232 | mg/L | | 10/01/26 14:36 | 10/06/26 19:31 | 1 |
| Barium | 0.154 | | 0.00250 | 0.00139 | mg/L | | 10/01/26 14:36 | 10/06/26 19:31 | 1 |
| Cadmium | <0.000500 | | 0.000500 | 0.000167 | mg/L | | 10/01/26 14:36 | 10/06/26 19:31 | 1 |
| Cobalt | 0.000753 | J | 0.00100 | 0.000402 | mg/L | | 10/01/26 14:36 | 10/06/26 19:31 | 1 |
| Copper | 0.00307 | | 0.00200 | 0.000497 | mg/L | | 10/01/26 14:36 | 10/06/26 19:31 | 1 |
| Iron | 0.192 | | 0.100 | 0.0467 | mg/L | | 10/01/26 14:36 | 10/06/26 19:31 | 1 |
| Lead | <0.000500 | | 0.000500 | 0.000186 | mg/L | | 10/01/26 14:36 | 10/06/26 19:31 | 1 |
| Magnesium | 39.6 | | 0.200 | 0.0494 | mg/L | | 10/01/26 14:36 | 10/06/26 19:31 | 1 |
| Manganese | 0.990 | | 0.00250 | 0.000791 | mg/L | | 10/01/26 14:36 | 10/06/26 19:31 | 1 |
| Zinc | 0.177 | | 0.0200 | 0.00692 | mg/L | | 10/01/26 14:36 | 10/06/26 19:31 | 1 |
| Molybdenum | 0.00931 | B | 0.00500 | 0.00246 | mg/L | | 10/14/26 15:50 | 10/15/26 15:50 | 1 |
| Boron | 0.0872 | B | 0.0500 | 0.0127 | mg/L | | 10/14/26 15:50 | 10/15/26 15:50 | 1 |

## General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Suspended Solids (USGS I-3765-85) | 1.38 | J | 1.88 | 1.05 | mg/L | | | 09/15/26 07:11 | 1 |

# Definitions/Glossary

Client: SCS Engineers
Job ID: 310-340704-1
Project/Site: Corn Belt-Spencer CCR Landfill Sampling

## Qualifiers

### HPLC/IC

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

### Metals

| Qualifier | Qualifier Description |
|---|---|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| B | Compound was found in the blank and sample. |
| F5 | Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### General Chemistry

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

## Glossary

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

## Method: 9056A - Anions, Ion Chromatography

**Lab Sample ID: MB 310-500588/3**
**Matrix: Water**
**Analysis Batch: 500588**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <1.00 | | 1.00 | 0.450 | mg/L | | | 09/17/26 08:59 | 1 |
| Sulfate | <1.00 | | 1.00 | 0.420 | mg/L | | | 09/17/26 08:59 | 1 |
| Fluoride | <0.200 | | 0.200 | 0.0360 | mg/L | | | 09/17/26 08:59 | 1 |

**Lab Sample ID: LCS 310-500588/4**
**Matrix: Water**
**Analysis Batch: 500588**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Chloride | 10.0 | 9.512 | | mg/L | | 95 | 90 - 110 |
| Sulfate | 10.0 | 9.493 | | mg/L | | 95 | 90 - 110 |
| Fluoride | 2.00 | 2.035 | | mg/L | | 102 | 90 - 110 |

**Lab Sample ID: 310-340704-1 MS**
**Matrix: Water**
**Analysis Batch: 500588**

**Client Sample ID: MW-1**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 18.5 | | 25.0 | 40.33 | | mg/L | | 87 | 80 - 120 |
| Sulfate | 35.3 | | 25.0 | 58.19 | | mg/L | | 92 | 80 - 120 |
| Fluoride | 0.363 | J | 5.00 | 5.314 | | mg/L | | 99 | 80 - 120 |

**Lab Sample ID: 310-340704-1 MSD**
**Matrix: Water**
**Analysis Batch: 500588**

**Client Sample ID: MW-1**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 18.5 | | 25.0 | 41.03 | | mg/L | | 90 | 80 - 120 | 2 | 15 |
| Sulfate | 35.3 | | 25.0 | 58.84 | | mg/L | | 94 | 80 - 120 | 1 | 15 |
| Fluoride | 0.363 | J | 5.00 | 5.480 | | mg/L | | 102 | 80 - 120 | 3 | 15 |

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

**Lab Sample ID: MB 500-886077/1-A**
**Matrix: Water**
**Analysis Batch: 886819**

**Client Sample ID: Method Blank**
**Prep Type: Total Recoverable**
**Prep Batch: 886077**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | <0.00100 | | 0.00100 | 0.000232 | mg/L | | 10/01/26 14:36 | 10/06/26 18:53 | 1 |
| Barium | <0.00250 | | 0.00250 | 0.00139 | mg/L | | 10/01/26 14:36 | 10/06/26 18:53 | 1 |
| Beryllium | <0.000400 | | 0.000400 | 0.000236 | mg/L | | 10/01/26 14:36 | 10/06/26 18:53 | 1 |
| Cadmium | <0.000500 | | 0.000500 | 0.000167 | mg/L | | 10/01/26 14:36 | 10/06/26 18:53 | 1 |
| Cobalt | <0.00100 | | 0.00100 | 0.000402 | mg/L | | 10/01/26 14:36 | 10/06/26 18:53 | 1 |
| Copper | <0.00200 | | 0.00200 | 0.000497 | mg/L | | 10/01/26 14:36 | 10/06/26 18:53 | 1 |
| Iron | <0.100 | | 0.100 | 0.0467 | mg/L | | 10/01/26 14:36 | 10/06/26 18:53 | 1 |
| Lead | <0.000500 | | 0.000500 | 0.000186 | mg/L | | 10/01/26 14:36 | 10/06/26 18:53 | 1 |
| Magnesium | <0.200 | | 0.200 | 0.0494 | mg/L | | 10/01/26 14:36 | 10/06/26 18:53 | 1 |
| Manganese | <0.00250 | | 0.00250 | 0.000791 | mg/L | | 10/01/26 14:36 | 10/06/26 18:53 | 1 |
| Selenium | <0.00250 | | 0.00250 | 0.000982 | mg/L | | 10/01/26 14:36 | 10/06/26 18:53 | 1 |
| Zinc | <0.0200 | | 0.0200 | 0.00692 | mg/L | | 10/01/26 14:36 | 10/06/26 18:53 | 1 |

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

**Lab Sample ID: LCS 500-886077/2-A**
**Matrix: Water**
**Analysis Batch: 886819**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total Recoverable**
**Prep Batch: 886077**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 0.100 | 0.09611 | | mg/L | | 96 | 80 - 120 |
| Barium | 0.500 | 0.5091 | | mg/L | | 102 | 80 - 120 |
| Beryllium | 0.0500 | 0.04471 | | mg/L | | 89 | 80 - 120 |
| Cadmium | 0.0500 | 0.05052 | | mg/L | | 101 | 80 - 120 |
| Cobalt | 0.500 | 0.5120 | | mg/L | | 102 | 80 - 120 |
| Copper | 0.250 | 0.2502 | | mg/L | | 100 | 80 - 120 |
| Iron | 1.00 | 1.007 | | mg/L | | 101 | 80 - 120 |
| Lead | 0.100 | 0.1022 | | mg/L | | 102 | 80 - 120 |
| Magnesium | 10.0 | 10.08 | | mg/L | | 101 | 80 - 120 |
| Manganese | 0.500 | 0.5116 | | mg/L | | 102 | 80 - 120 |
| Selenium | 0.100 | 0.09599 | | mg/L | | 96 | 80 - 120 |
| Zinc | 0.500 | 0.4887 | | mg/L | | 98 | 80 - 120 |

**Lab Sample ID: 310-340704-1 MS**
**Matrix: Water**
**Analysis Batch: 886819**

**Client Sample ID: MW-1**
**Prep Type: Total Recoverable**
**Prep Batch: 886077**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.000562 | J | 0.100 | 0.09821 | | mg/L | | 98 | 75 - 125 |
| Barium | 0.0612 | | 0.500 | 0.5636 | | mg/L | | 100 | 75 - 125 |
| Beryllium | <0.000400 | | 0.0500 | 0.04617 | | mg/L | | 92 | 75 - 125 |
| Cadmium | <0.000500 | | 0.0500 | 0.05052 | | mg/L | | 101 | 75 - 125 |
| Cobalt | <0.00100 | | 0.500 | 0.4982 | | mg/L | | 100 | 75 - 125 |
| Copper | 0.000976 | J | 0.250 | 0.2459 | | mg/L | | 98 | 75 - 125 |
| Iron | <0.100 | | 1.00 | 1.004 | | mg/L | | 100 | 75 - 125 |
| Lead | <0.000500 | | 0.100 | 0.1015 | | mg/L | | 101 | 75 - 125 |
| Magnesium | 26.7 | | 10.0 | 35.12 | | mg/L | | 84 | 75 - 125 |
| Manganese | 0.00896 | | 0.500 | 0.5131 | | mg/L | | 101 | 75 - 125 |
| Selenium | 1.18 | J | 0.100 | 0.09674 | 4 | mg/L | | -1088 | 75 - 125 |
| Zinc | <0.0200 | | 0.500 | 0.4854 | | mg/L | | 97 | 75 - 125 |

**Lab Sample ID: 310-340704-1 MSD**
**Matrix: Water**
**Analysis Batch: 886819**

**Client Sample ID: MW-1**
**Prep Type: Total Recoverable**
**Prep Batch: 886077**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.000562 | J | 0.100 | 0.09959 | | mg/L | | 99 | 75 - 125 | 1 | 20 |
| Barium | 0.0612 | | 0.500 | 0.5794 | | mg/L | | 104 | 75 - 125 | 3 | 20 |
| Beryllium | <0.000400 | | 0.0500 | 0.04661 | | mg/L | | 93 | 75 - 125 | 1 | 20 |
| Cadmium | <0.000500 | | 0.0500 | 0.05096 | | mg/L | | 102 | 75 - 125 | 1 | 20 |
| Cobalt | <0.00100 | | 0.500 | 0.5086 | | mg/L | | 102 | 75 - 125 | 2 | 20 |
| Copper | 0.000976 | J | 0.250 | 0.2482 | | mg/L | | 99 | 75 - 125 | 1 | 20 |
| Iron | <0.100 | | 1.00 | 1.025 | | mg/L | | 103 | 75 - 125 | 2 | 20 |
| Lead | <0.000500 | | 0.100 | 0.1026 | | mg/L | | 103 | 75 - 125 | 1 | 20 |
| Magnesium | 26.7 | | 10.0 | 36.52 | | mg/L | | 98 | 75 - 125 | 4 | 20 |
| Manganese | 0.00896 | | 0.500 | 0.5227 | | mg/L | | 103 | 75 - 125 | 2 | 20 |
| Selenium | 1.18 | J | 0.100 | 0.09872 | 4 | mg/L | | -1086 | 75 - 125 | 2 | 20 |
| Zinc | <0.0200 | | 0.500 | 0.4935 | | mg/L | | 99 | 75 - 125 | 2 | 20 |

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

**Lab Sample ID: 310-340704-1 DU**
**Matrix: Water**
**Analysis Batch: 886819**

**Client Sample ID: MW-1**
**Prep Type: Total Recoverable**
**Prep Batch: 886077**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.000562 | J | 0.0005145 | J | mg/L | | 9 | 20 |
| Barium | 0.0612 | | 0.05909 | | mg/L | | 3 | 20 |
| Beryllium | <0.000400 | | <0.000400 | | mg/L | | NC | 20 |
| Cadmium | <0.000500 | | <0.000500 | | mg/L | | NC | 20 |
| Cobalt | <0.00100 | | <0.00100 | | mg/L | | NC | 20 |
| Copper | 0.000976 | J | 0.0009213 | J | mg/L | | 6 | 20 |
| Iron | <0.100 | | <0.100 | | mg/L | | NC | 20 |
| Lead | <0.000500 | | <0.000500 | | mg/L | | NC | 20 |
| Magnesium | 26.7 | | 25.99 | | mg/L | | 3 | 20 |
| Manganese | 0.00896 | | 0.008447 | | mg/L | | 6 | 20 |
| Selenium | 1.18 | J | <0.00250 | | mg/L | | NC | 20 |
| Zinc | <0.0200 | | <0.0200 | | mg/L | | NC | 20 |

**Lab Sample ID: MB 500-887896/1-A**
**Matrix: Water**
**Analysis Batch: 888235**

**Client Sample ID: Method Blank**
**Prep Type: Total Recoverable**
**Prep Batch: 887896**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Molybdenum | 0.004027 | J | 0.00500 | 0.00246 | mg/L | | 10/14/26 15:50 | 10/15/26 15:36 | 1 |
| Boron | 0.01301 | J | 0.0500 | 0.0127 | mg/L | | 10/14/26 15:50 | 10/15/26 15:36 | 1 |

**Lab Sample ID: LCS 500-887896/2-A**
**Matrix: Water**
**Analysis Batch: 888235**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total Recoverable**
**Prep Batch: 887896**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Molybdenum | 1.00 | 0.9778 | | mg/L | | 98 | 80 - 120 |
| Boron | 1.00 | 0.9934 | | mg/L | | 99 | 80 - 120 |

**Lab Sample ID: 310-340704-6 MS**
**Matrix: Water**
**Analysis Batch: 888235**

**Client Sample ID: MW-D**
**Prep Type: Total Recoverable**
**Prep Batch: 887896**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Molybdenum | 0.00931 | B | 1.00 | 0.9832 | | mg/L | | 97 | 75 - 125 |
| Boron | 0.0872 | B | 1.00 | 1.041 | | mg/L | | 95 | 75 - 125 |

**Lab Sample ID: 310-340704-6 MSD**
**Matrix: Water**
**Analysis Batch: 888235**

**Client Sample ID: MW-D**
**Prep Type: Total Recoverable**
**Prep Batch: 887896**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Molybdenum | 0.00931 | B | 1.00 | 0.8461 | | mg/L | | 84 | 75 - 125 | 15 | 20 |
| Boron | 0.0872 | B | 1.00 | 0.9086 | | mg/L | | 82 | 75 - 125 | 14 | 20 |

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

**Lab Sample ID: 310-340704-6 DU**
**Matrix: Water**
**Analysis Batch: 888235**

**Client Sample ID: MW-D**
**Prep Type: Total Recoverable**
**Prep Batch: 887896**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Molybdenum | 0.00931 | B | 0.004943 | J F5 | mg/L | | 61 | 20 |
| Boron | 0.0872 | B | 0.08245 | | mg/L | | 6 | 20 |

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

**Lab Sample ID: MB 310-500160/1**
**Matrix: Water**
**Analysis Batch: 500160**

**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 | 2.80 | mg/L | | | 09/15/26 06:15 | 1 |

**Lab Sample ID: LCS 310-500160/2**
**Matrix: Water**
**Analysis Batch: 500160**

**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 | 82 - 117 |

**Lab Sample ID: MB 310-500163/1**
**Matrix: Water**
**Analysis Batch: 500163**

**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 | 2.80 | mg/L | | | 09/15/26 07:11 | 1 |

**Lab Sample ID: LCS 310-500163/2**
**Matrix: Water**
**Analysis Batch: 500163**

**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 | 97.00 | | mg/L | | 97 | 82 - 117 |

# QC Association Summary

Client: SCS Engineers
Job ID: 310-340704-1
Project/Site: Corn Belt-Spencer CCR Landfill Sampling

## HPLC/IC

### Analysis Batch: 500588

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 310-340704-1 | MW-1 | Total/NA | Water | 9056A | |
| 310-340704-2 | MW-4 | Total/NA | Water | 9056A | |
| 310-340704-3 | MW-5 | Total/NA | Water | 9056A | |
| 310-340704-4 | MW-6 | Total/NA | Water | 9056A | |
| 310-340704-5 | MW-7 | Total/NA | Water | 9056A | |
| 310-340704-6 | MW-D | Total/NA | Water | 9056A | |
| MB 310-500588/3 | Method Blank | Total/NA | Water | 9056A | |
| LCS 310-500588/4 | Lab Control Sample | Total/NA | Water | 9056A | |
| 310-340704-1 MS | MW-1 | Total/NA | Water | 9056A | |
| 310-340704-1 MSD | MW-1 | Total/NA | Water | 9056A | |

## Metals

### Prep Batch: 886077

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 310-340704-1 | MW-1 | Total Recoverable | Water | 3005A | |
| 310-340704-2 | MW-4 | Total Recoverable | Water | 3005A | |
| 310-340704-3 | MW-5 | Total Recoverable | Water | 3005A | |
| 310-340704-4 | MW-6 | Total Recoverable | Water | 3005A | |
| 310-340704-5 | MW-7 | Total Recoverable | Water | 3005A | |
| 310-340704-6 | MW-D | Total Recoverable | Water | 3005A | |
| MB 500-886077/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 500-886077/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 310-340704-1 MS | MW-1 | Total Recoverable | Water | 3005A | |
| 310-340704-1 MSD | MW-1 | Total Recoverable | Water | 3005A | |
| 310-340704-1 DU | MW-1 | Total Recoverable | Water | 3005A | |

### Analysis Batch: 886819

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 310-340704-1 | MW-1 | Total Recoverable | Water | 6020B | 886077 |
| 310-340704-2 | MW-4 | Total Recoverable | Water | 6020B | 886077 |
| 310-340704-3 | MW-5 | Total Recoverable | Water | 6020B | 886077 |
| 310-340704-4 | MW-6 | Total Recoverable | Water | 6020B | 886077 |
| 310-340704-5 | MW-7 | Total Recoverable | Water | 6020B | 886077 |
| 310-340704-6 | MW-D | Total Recoverable | Water | 6020B | 886077 |
| MB 500-886077/1-A | Method Blank | Total Recoverable | Water | 6020B | 886077 |
| LCS 500-886077/2-A | Lab Control Sample | Total Recoverable | Water | 6020B | 886077 |
| 310-340704-1 MS | MW-1 | Total Recoverable | Water | 6020B | 886077 |
| 310-340704-1 MSD | MW-1 | Total Recoverable | Water | 6020B | 886077 |
| 310-340704-1 DU | MW-1 | Total Recoverable | Water | 6020B | 886077 |

### Prep Batch: 887896

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 310-340704-1 | MW-1 | Total Recoverable | Water | 3005A | |
| 310-340704-2 | MW-4 | Total Recoverable | Water | 3005A | |
| 310-340704-3 | MW-5 | Total Recoverable | Water | 3005A | |
| 310-340704-4 | MW-6 | Total Recoverable | Water | 3005A | |
| 310-340704-5 | MW-7 | Total Recoverable | Water | 3005A | |
| 310-340704-6 | MW-D | Total Recoverable | Water | 3005A | |
| MB 500-887896/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 500-887896/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |

## Metals (Continued)

### Prep Batch: 887896 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 310-340704-6 MS | MW-D | Total Recoverable | Water | 3005A | |
| 310-340704-6 MSD | MW-D | Total Recoverable | Water | 3005A | |
| 310-340704-6 DU | MW-D | Total Recoverable | Water | 3005A | |

### Analysis Batch: 888235

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 310-340704-1 | MW-1 | Total Recoverable | Water | 6020B | 887896 |
| 310-340704-2 | MW-4 | Total Recoverable | Water | 6020B | 887896 |
| 310-340704-3 | MW-5 | Total Recoverable | Water | 6020B | 887896 |
| 310-340704-4 | MW-6 | Total Recoverable | Water | 6020B | 887896 |
| 310-340704-5 | MW-7 | Total Recoverable | Water | 6020B | 887896 |
| 310-340704-6 | MW-D | Total Recoverable | Water | 6020B | 887896 |
| MB 500-887896/1-A | Method Blank | Total Recoverable | Water | 6020B | 887896 |
| LCS 500-887896/2-A | Lab Control Sample | Total Recoverable | Water | 6020B | 887896 |
| 310-340704-6 MS | MW-D | Total Recoverable | Water | 6020B | 887896 |
| 310-340704-6 MSD | MW-D | Total Recoverable | Water | 6020B | 887896 |
| 310-340704-6 DU | MW-D | Total Recoverable | Water | 6020B | 887896 |

## General Chemistry

### Analysis Batch: 500160

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 310-340704-5 | MW-7 | Total/NA | Water | I-3765-85 | |
| MB 310-500160/1 | Method Blank | Total/NA | Water | I-3765-85 | |
| LCS 310-500160/2 | Lab Control Sample | Total/NA | Water | I-3765-85 | |

### Analysis Batch: 500163

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 310-340704-1 | MW-1 | Total/NA | Water | I-3765-85 | |
| 310-340704-2 | MW-4 | Total/NA | Water | I-3765-85 | |
| 310-340704-3 | MW-5 | Total/NA | Water | I-3765-85 | |
| 310-340704-4 | MW-6 | Total/NA | Water | I-3765-85 | |
| 310-340704-6 | MW-D | Total/NA | Water | I-3765-85 | |
| MB 310-500163/1 | Method Blank | Total/NA | Water | I-3765-85 | |
| LCS 310-500163/2 | Lab Control Sample | Total/NA | Water | I-3765-85 | |

# Lab Chronicle

Client: SCS Engineers
Job ID: 310-340704-1
Project/Site: Corn Belt-Spencer CCR Landfill Sampling

## Client Sample ID: MW-1
**Lab Sample ID: 310-340704-1**
**Date Collected: 09/10/26 12:40**
**Matrix: Water**
**Date Received: 09/11/26 15:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 9056A | | 5 | 500588 | NFT2 | EET CF | 09/17/26 09:35 |
| Total Recoverable | Prep | 3005A | | | 887896 | AC | EET CHI | 10/14/26 15:50 - 10/14/26 21:50 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 888235 | RN | EET CHI | 10/15/26 16:24 |
| Total Recoverable | Prep | 3005A | | | 886077 | SG | EET CHI | 10/01/26 14:36 - 10/01/26 20:36 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 886819 | RN | EET CHI | 10/06/26 18:59 |
| Total/NA | Analysis | I-3765-85 | | 1 | 500163 | F8JX | EET CF | 09/15/26 07:11 |

## Client Sample ID: MW-4
**Lab Sample ID: 310-340704-2**
**Date Collected: 09/10/26 12:07**
**Matrix: Water**
**Date Received: 09/11/26 15:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 9056A | | 5 | 500588 | NFT2 | EET CF | 09/17/26 10:12 |
| Total Recoverable | Prep | 3005A | | | 887896 | AC | EET CHI | 10/14/26 15:50 - 10/14/26 21:50 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 888235 | RN | EET CHI | 10/15/26 16:13 |
| Total Recoverable | Prep | 3005A | | | 886077 | SG | EET CHI | 10/01/26 14:36 - 10/01/26 20:36 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 886819 | RN | EET CHI | 10/06/26 19:12 |
| Total/NA | Analysis | I-3765-85 | | 1 | 500163 | F8JX | EET CF | 09/15/26 07:11 |

## Client Sample ID: MW-5
**Lab Sample ID: 310-340704-3**
**Date Collected: 09/10/26 11:25**
**Matrix: Water**
**Date Received: 09/11/26 15:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 9056A | | 5 | 500588 | NFT2 | EET CF | 09/17/26 10:24 |
| Total Recoverable | Prep | 3005A | | | 887896 | AC | EET CHI | 10/14/26 15:50 - 10/14/26 21:50 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 888235 | RN | EET CHI | 10/15/26 16:10 |
| Total Recoverable | Prep | 3005A | | | 886077 | SG | EET CHI | 10/01/26 14:36 - 10/01/26 20:36 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 886819 | RN | EET CHI | 10/06/26 19:15 |
| Total/NA | Analysis | I-3765-85 | | 1 | 500163 | F8JX | EET CF | 09/15/26 07:11 |

## Client Sample ID: MW-6
**Lab Sample ID: 310-340704-4**
**Date Collected: 09/10/26 10:50**
**Matrix: Water**
**Date Received: 09/11/26 15:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 9056A | | 5 | 500588 | NFT2 | EET CF | 09/17/26 10:36 |
| Total Recoverable | Prep | 3005A | | | 887896 | AC | EET CHI | 10/14/26 15:50 - 10/14/26 21:50 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 888235 | RN | EET CHI | 10/15/26 16:04 |
| Total Recoverable | Prep | 3005A | | | 886077 | SG | EET CHI | 10/01/26 14:36 - 10/01/26 20:36 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 886819 | RN | EET CHI | 10/06/26 19:28 |
| Total/NA | Analysis | I-3765-85 | | 1 | 500163 | F8JX | EET CF | 09/15/26 07:11 |

# Lab Chronicle

Client: SCS Engineers
Job ID: 310-340704-1
Project/Site: Corn Belt-Spencer CCR Landfill Sampling

## Client Sample ID: MW-7
**Lab Sample ID: 310-340704-5**
**Date Collected: 09/10/26 10:18**
**Matrix: Water**
**Date Received: 09/11/26 15:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 9056A | | 5 | 500588 | NFT2 | EET CF | 09/17/26 10:48 |
| Total Recoverable | Prep | 3005A | | | 887896 | AC | EET CHI | 10/14/26 15:50 - 10/14/26 21:50 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 888235 | RN | EET CHI | 10/15/26 16:07 |
| Total Recoverable | Prep | 3005A | | | 886077 | SG | EET CHI | 10/01/26 14:36 - 10/01/26 20:36 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 886819 | RN | EET CHI | 10/06/26 19:18 |
| Total/NA | Analysis | I-3765-85 | | 1 | 500160 | F8JX | EET CF | 09/15/26 06:15 |

## Client Sample ID: MW-D
**Lab Sample ID: 310-340704-6**
**Date Collected: 09/10/26 12:07**
**Matrix: Water**
**Date Received: 09/11/26 15:10**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 9056A | | 5 | 500588 | NFT2 | EET CF | 09/17/26 11:24 |
| Total Recoverable | Prep | 3005A | | | 887896 | AC | EET CHI | 10/14/26 15:50 - 10/14/26 21:50 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 888235 | RN | EET CHI | 10/15/26 15:50 |
| Total Recoverable | Prep | 3005A | | | 886077 | SG | EET CHI | 10/01/26 14:36 - 10/01/26 20:36 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 886819 | RN | EET CHI | 10/06/26 19:31 |
| Total/NA | Analysis | I-3765-85 | | 1 | 500163 | F8JX | EET CF | 09/15/26 07:11 |

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

**Laboratory References:**

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

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

# Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 310-340704-1
Project/Site: Corn Belt-Spencer CCR Landfill Sampling

## Laboratory: Eurofins Cedar Falls

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

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Iowa | State | 007 | 09-21-26 |

## Laboratory: Eurofins Chicago

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

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Iowa | State | 082 | 05-01-28 |

# Method Summary

Client: SCS Engineers
Job ID: 310-340704-1
Project/Site: Corn Belt-Spencer CCR Landfill Sampling

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 9056A | Anions, Ion Chromatography | SW846 | EET CF |
| 6020B | Metals (ICP/MS) | SW846 | EET CHI |
| I-3765-85 | Residue, Non-filterable (TSS) | USGS | EET CF |
| 3005A | Preparation, Total Recoverable or Dissolved Metals | SW846 | EET CHI |

**Protocol References:**

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

**Laboratory References:**

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401
EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

eurofins | Environment Testing

310-340704 Chain of Custody

# Cooler/Sample Receipt and Temperature Log Form

**Client Information**

Client: SCS Eng

City/State: CITY West Des Moines | STATE IA | Project:

**Receipt Information**

Date/Time Received: DATE 09/11/20 | TIME 1510 | Received By: ES

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

**Condition of Cooler/Containers**

Sample(s) received in Cooler? ☒ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☐ Yes ☒ No *If yes:* Cooler # _____ of _____

Cooler Custody Seals Present? ☒ Yes ☐ No *If yes:* Cooler custody seals intact? ☒ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☒ No *If yes:* Which VOA samples are in cooler? ↓

**Temperature Record**

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

Thermometer ID: CC | Correction Factor (°C): 0

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

Uncorrected Temp (°C): 0.8 | Corrected Temp (°C): 0.8

• **Sample Container Temperature**

| | CONTAINER 1 | CONTAINER 2 |
|---|---|---|
| Container(s) used: | | |
| Uncorrected Temp °C: | | |
| Corrected Temp °C: | | |

**Exceptions Noted**

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding If no, proceed with login

**Additional Comments**

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

Cedar Falls, IA 50613-6907
phone 319.277.2401 fax 319.277 2425

# Chain of Custody Record

eurofins

**Regulatory Program:** ☐DW ☐NPDES ☐RCRA ☑Other **Groundwater**

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

| Client Contact | Project Manager: | Site Contact: | Date: | COC No: |
|---|---|---|---|---|
| Kevin Jensen - SCS Engineers | Email: | Lab Contact: | Carrier: | 1 of 1 COCs |
| 1690 All-State Court, Suite 100 | Cell | | | Sampler: |
| West Des Moines, Iowa 50265 | Analysis Turnaround Time | | | For Lab Use Only: |
| 515-631-6154 | ☐CALENDAR DAYS ☐WORKING DAYS | | | Walk-in Client: |
| kjensen@scsengineers.com | Other: | | | Lab Sampling |
| Project Name: Corn Belt-Spencer CCR Landfill Sampling 2025 | ☐ 2 weeks | | | |
| Site: Corn Belt-Spencer CCR Landfill | ☐ 1 week | | | Job / SDG No |
| P O # | ☐ 2 days | | | |
| | ☐ 1 day | | | |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=Grab) | Matrix | # of Cont. | Filtered Sample (Y/N) | Perform MS / MSD (Y/N) | Chloride | Flouride | Sulfate | Total Suspended Solids | Total Arsenic | Total Barium | Total Boron | Total Cadmium | Total Cobalt | Total Copper | Total Iron | Total Lead | Total Magnesium | Total Manganese | Total Molybdenum | Total Selenium | Total Zinc | Sample Specific Notes. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 9-10-26 | 1240 | G | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | |
| MW-4 | 9-10-26 | 1207 | G | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | |
| MW-5 | 9-10-26 | 1125 | G | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | |
| MW-6 | 9-10-26 | 1050 | G | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | |
| MW-7 | 9-10-26 | 1018 | G | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| MW-D | 9-10-26 | 1207 | G | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

**Preservation Used:** 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

**Possible Hazard Identification:**
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

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

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

☐Return to Client ☐Disposal by Lab ☐Archive for _____ Months

**Special Instructions/QC Requirements & Comments:**

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

| Relinquished by | Company | Date/Time: | Received by | Company | Date/Time: |
|---|---|---|---|---|---|
| | | | | CET | 9/11/26 1510 |
| Relinquished by | Company | Date/Time | Received by | Company | Date/Time |
| Relinquished by | Company | Date/Time | Received in Laboratory by | Company | Date/Time |

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

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

# Chain of Custody Record

eurofins | Environment Testing

| Client Information (Sub Contract Lab) | Sampler: N/A | Lab PM: Miller Samuel | Carrier Tracking No(s): N/A | COC No: 310-98507 1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: N/A | E-Mail: Samuel.Miller@et.eurofinsus.com | State of Origin: Iowa | Page: Page 1 of 1 |
| Company: Eurofins Environment Testing North Centr | | Accreditations Required (See note): State Iowa; State Program Iowa | | Job #: 310-340704-1 |
| Address: 18410 Crossing Drive, Suite E, | Due Date Requested: 9/28/2026 | | | |
| City: Tinley Park | TAT Requested (days): N/A | | | |
| State, Zip: IL, 60487 | | | | |
| Phone: 708-534-5200(Tel) 708-534-5211(Fax) | PO #: N/A | | | |
| Email: N/A | WO #: N/A | | | |
| Project Name: Corn Belt-Spencer CCR Landfill Sampling | Project #: 31015090 | | | |
| Site: N/A | SSOW#: N/A | | | |

310-340704 COC

**Analysis Requested**

**Preservation Codes**

Other: N/A

| Sample Identification Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 6020B/3005A(MOD) Appendix I | Total Number of containers | Special Instructions/Note |
|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | |
| MW-1 (310-340704-1) | 9/10/26 | 12:40 Central | G | Water | | | X | 1 | |
| MW-4 (310-340704-2) | 9/10/26 | 12:07 Central | G | Water | | | X | 1 | |
| MW-5 (310-340704-3) | 9/10/26 | 11.25 Central | G | Water | | | X | 1 | |
| MW-6 (310-340704-4) | 9/10/26 | 10:50 Central | G | Water | | | X | 1 | |
| MW-7 (310-340704-5) | 9/10/26 | 10:18 Central | G | Water | | | X | 1 | |
| MW-D (310-340704-6) | 9/10/26 | 12:07 Central | G | Water | | | X | 1 | |

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

| *Possible Hazard Identification* | *Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)* |
|---|---|
| *Unconfirmed* | ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months* |
| Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2 | Special Instructions/QC Requirements. |

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|---|
| 1 | | 9/14/26 16 25 | | | 9/15/26 1125 | |
| 2 | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| 3 | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No. | Cooler Temperature(s) °C and Other Remarks: 4.8 → 4.7 |
|---|---|---|

# Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-340704-1

**Login Number: 340704**
**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. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

# Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-340704-1

**Login Number: 340704**
**List Number: 2**
**Creator: Scott, Sherri L**

**List Source: Eurofins Chicago**
**List Creation: 09/15/26 02:04 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 | 4.7 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | True | |

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

# Appendix B-2

# Data Validation

Site Name: Corn Belt Power Cooperative - Wisdom Station CCR Landfill
Completed by: Semir Omerovic
Lab Report Date: 10/16/2026
Sampling Date: 9/10/2026
Lab Report Number: 310-340704-1

| | OK | NO | N/A | NOTES |
|---|---|---|---|---|
| **Sample Collection and Sample Handling** | | | | |
| Chain of Custody | X | | | |
| Temperature | X | | | |
| Preservation | X | | | |
| Condition | X | | | |
| Case Narrative | X | | | |
| Reporting Limits | X | | | |
| Holding Times | X | | | |
| **Analytical Sensitivty 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 sample was collected from MW-6 during the 2026 sampling event. All parameters had <50% relative difference. Constituents with J flag concentrations were not considered for the duplicate sample comparisons. |

# Appendix C

# Summary of Groundwater Chemistry

# SCS ENGINEERS

**Summary of Groundwater Chemistry**

Corn Belt Power Cooperative - Wisdom Station CCR Landfill (21-SPD-04-95C)

| Total Metals Constituents | Sample Date | MW-4 UPG | MW-1 DNG | MW-5 DNG | MW-6 DNG | MW-7 DNG |
|---|---|---|---|---|---|---|
| **Arsenic, mg/L (CAS NO - 7440-38-2)** | 9/20/2016 | **0.0032** | < 0.002 | < 0.002 | **0.00606** | **0.00262** |
| | 9/21/2017 | **0.0038** | **0.00485** | < 0.002 | **0.00309** | **0.00261** |
| | 9/17/2018 | **0.00498** | **0.00576** | **0.008** | **0.00548** | **0.016** |
| | 9/10/2019 | **0.00419** | **0.00416** | N/A | **0.00768** | **0.00208** |
| | 9/16/2020 | **0.00303** | < 0.002 | < 0.002 | **0.00585** | < 0.002 |
| | 9/13/2021 | **0.00353** | < 0.002 | < 0.002 | **0.00538** | **0.00224** |
| | 9/27/2022 | **0.00533** | **0.00386** | 0.000806* | **0.0134** | **0.00288** |
| | 9/27/2022 | N/A | N/A | 0.00112* | N/A | N/A |
| | 9/19/2023 | **0.00432** | 0.000759* | 0.0011* | **0.00278** | 0.00192* |
| | 9/19/2023 | N/A | N/A | 0.00087* | N/A | N/A |
| | 9/12/2024 | **0.00477** | 0.00104* | 0.000884* | **0.00242** | **0.00246** |
| | 9/12/2024 | N/A | N/A | 0.00104* | N/A | N/A |
| | 9/18/2025 | **0.00336** | 0.000699* | 0.00096* | **0.00238** | **0.00203** |
| | 9/18/2025 | N/A | N/A | N/A | **0.00236** | N/A |
| | 9/10/2026 | **0.00265** | 0.000562* | **0.00117** | **0.00153** | 0.000839* |
| | 9/10/2026 | **0.00272** | N/A | N/A | N/A | N/A |
| **Barium, mg/L (CAS NO - 7440-39-3)** | 9/20/2016 | **0.0957** | **0.0549** | **0.0814** | **0.16** | **0.218** |
| | 9/21/2017 | **0.115** | **0.206** | **0.179** | **0.105** | **0.407** |
| | 9/17/2018 | **0.157** | **0.137** | **0.312** | **0.198** | **0.43** |
| | 9/10/2019 | **0.184** | **0.166** | N/A | **0.433** | **0.322** |
| | 9/16/2020 | **0.108** | **0.183** | **0.721** | **0.332** | **0.401** |
| | 9/13/2021 | **0.0855** | **0.0936** | **0.131** | **0.256** | **0.287** |
| | 9/27/2022 | **0.133** | **0.18** | **0.173** | **0.406** | **0.234** |
| | 9/27/2022 | N/A | N/A | **0.173** | N/A | N/A |
| | 9/19/2023 | **0.092** | **0.0577** | **0.0397** | **0.102** | **0.0814** |
| | 9/19/2023 | N/A | N/A | **0.0384** | N/A | N/A |
| | 9/12/2024 | **0.153** | **0.0511** | **0.0381** | **0.116** | **0.083** |
| | 9/12/2024 | N/A | N/A | **0.0331** | N/A | N/A |
| | 9/18/2025 | **0.188** | **0.0509** | **0.0303** | **0.0989** | **0.0801** |
| | 9/18/2025 | N/A | N/A | N/A | **0.102** | N/A |
| | 9/10/2026 | **0.154** | **0.0612** | **0.0367** | **0.103** | **0.085** |
| | 9/10/2026 | **0.154** | N/A | N/A | N/A | N/A |
| **Beryllium, mg/L (CAS NO - 7440-41-7)** | 9/20/2016 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| | 9/21/2017 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| | 9/17/2018 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| | 9/10/2019 | < 0.001 | < 0.001 | N/A | < 0.001 | < 0.001 |
| | 9/16/2020 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| | 9/13/2021 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| **Boron, mg/L (CAS NO - 7440-42-8)** | 9/27/2022 | **0.116** | **0.365** | **0.226** | < 0.7 | **4.47** |
| | 9/27/2022 | N/A | N/A | **0.206** | N/A | N/A |
| | 9/19/2023 | < 0.1 | 0.0899* | **0.107** | 0.0907* | **2.86** |
| | 9/19/2023 | N/A | N/A | 0.0812* | N/A | N/A |
| | 9/12/2024 | **0.102** | **0.159** | < 0.5 | **0.131** | **3.84** |
| | 9/12/2024 | N/A | N/A | **0.16** | N/A | N/A |
| | 9/18/2025 | **0.139** | **0.101** | 0.0922* | **0.193** | **1.06** |
| | 9/18/2025 | N/A | N/A | N/A | **0.184** | N/A |
| | 9/10/2026 | **0.0872** | **0.0701** | **0.0544** | **0.656** | **0.147** |
| | 9/10/2026 | **0.0733** | N/A | N/A | N/A | N/A |

# SCS ENGINEERS

**Summary of Groundwater Chemistry**

Corn Belt Power Cooperative - Wisdom Station CCR Landfill (21-SPD-04-95C)

| Total Metals Constituents | Sample Date | MW-4 UPG | MW-1 DNG | MW-5 DNG | MW-6 DNG | MW-7 DNG |
|---|---|---|---|---|---|---|
| **Cadmium, mg/L (CAS NO - 7440-43-9)** | 9/20/2016 | < 0.0005 | **0.000671** | < 0.0005 | < 0.0005 | < 0.0005 |
| | 9/21/2017 | < 0.0005 | **0.00068** | < 0.0005 | < 0.0005 | **0.000979** |
| | 9/17/2018 | < 0.0005 | **0.000522** | < 0.002 | < 0.0005 | < 0.004 |
| | 9/10/2019 | **0.000108** | **0.000813** | N/A | **0.00067** | **0.000623** |
| | 9/16/2020 | < 0.0001 | **0.000884** | **0.000588** | **0.000474** | **0.000788** |
| | 9/13/2021 | < 0.0001 | **0.000367** | **0.00016** | **0.000321** | **0.000382** |
| | 9/27/2022 | **0.000145** | **0.000868** | **0.000193** | **0.000549** | **0.000375** |
| | 9/27/2022 | N/A | N/A | **0.000207** | N/A | N/A |
| | 9/19/2023 | < 0.0002 | 0.00012* | < 0.0002 | < 0.0002 | 0.000154* |
| | 9/19/2023 | N/A | N/A | < 0.0002 | N/A | N/A |
| | 9/12/2024 | < 0.0002 | < 0.0002 | **0.00166** | **0.000215** | < 0.0002 |
| | 9/12/2024 | N/A | N/A | < 0.0002 | N/A | N/A |
| | 9/18/2025 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 | < 0.0002 |
| | 9/18/2025 | N/A | N/A | N/A | < 0.0002 | N/A |
| | 9/10/2026 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 |
| | 9/10/2026 | < 0.0005 | N/A | N/A | N/A | N/A |
| **Chloride, mg/L (CAS NO - 16887-00-6)** | 9/20/2016 | **17.1** | < 5 | **11.3** | **13.4** | **18.1** |
| | 9/21/2017 | **22.3** | **15.1** | **15.8** | **13.5** | **22.5** |
| | 9/17/2018 | **61.1** | < 5 | **7.66** | **12.1** | **21.6** |
| | 9/10/2019 | **12.6** | < 5 | N/A | **13.2** | **22.4** |
| | 9/16/2020 | **19.7** | **11** | **12.1** | **14.4** | **29.4** |
| | 9/13/2021 | **16.6** | **13.8** | **18.3** | **14.1** | **14.2** |
| | 9/27/2022 | **21.3** | **15** | **26.7** | **21.2** | **18.8** |
| | 9/27/2022 | N/A | N/A | **26.4** | N/A | N/A |
| | 9/19/2023 | **19.5** | **16.1** | **26.3** | **18.2** | **19.8** |
| | 9/19/2023 | N/A | N/A | **26.2** | N/A | N/A |
| | 9/12/2024 | **26.8** | **5.03** | **25.6** | **20** | **22.3** |
| | 9/12/2024 | N/A | N/A | **25.1** | N/A | N/A |
| | 9/18/2025 | **29.7** | 4.18* | **26.2** | **17.1** | **19.4** |
| | 9/18/2025 | N/A | N/A | N/A | **17** | N/A |
| | 9/10/2026 | **26.1** | **18.5** | **31.2** | **21.8** | **18.9** |
| | 9/10/2026 | **26.1** | N/A | N/A | N/A | N/A |
| **Cobalt, mg/L (CAS NO - 7440-48-4)** | 9/20/2016 | **0.000587** | **0.0103** | < 0.0005 | **0.00318** | **0.00391** |
| | 9/21/2017 | < 0.0005 | **0.0113** | < 0.0005 | **0.00127** | **0.00426** |
| | 9/17/2018 | **0.000552** | **0.00535** | **0.00372** | **0.00427** | **0.0481** |
| | 9/10/2019 | **0.00131** | **0.00674** | N/A | **0.00628** | **0.00949** |
| | 9/16/2020 | < 0.0005 | **0.00481** | **0.000971** | **0.00249** | **0.00175** |
| | 9/13/2021 | < 0.0005 | **0.00178** | < 0.0005 | **0.00153** | **0.00427** |
| | 9/27/2022 | 0.000461* | **0.0062** | 0.00047* | **0.00885** | **0.00971** |
| | 9/27/2022 | N/A | N/A | **0.0012** | N/A | N/A |
| | 9/19/2023 | 0.000223* | 0.000198* | 0.0002* | **0.000799** | **0.00199** |
| | 9/19/2023 | N/A | N/A | < 0.0005 | N/A | N/A |
| | 9/12/2024 | < 0.0005 | < 0.0005 | 0.000293* | 0.000437* | **0.00172** |
| | 9/12/2024 | N/A | N/A | 0.000267* | N/A | N/A |
| | 9/18/2025 | **0.000518** | < 0.0005 | 0.000196* | 0.000171* | **0.0012** |
| | 9/18/2025 | N/A | N/A | N/A | < 0.0005 | N/A |
| | 9/10/2026 | 0.000753* | < 0.001 | < 0.001 | < 0.001 | 0.000975* |
| | 9/10/2026 | 0.000794* | N/A | N/A | N/A | N/A |

# SCS ENGINEERS

**Summary of Groundwater Chemistry**

Corn Belt Power Cooperative - Wisdom Station CCR Landfill (21-SPD-04-95C)

| Total Metals Constituents | Sample Date | MW-4 UPG | MW-1 DNG | MW-5 DNG | MW-6 DNG | MW-7 DNG |
|---|---|---|---|---|---|---|
| **Copper, mg/L (CAS NO - 7440-50-8)** | 9/20/2016 | < 0.005 | **0.0139** | < 0.005 | < 0.005 | **0.00721** |
| | 9/21/2017 | < 0.005 | **0.0178** | < 0.005 | < 0.005 | **0.0105** |
| | 9/17/2018 | < 0.005 | **0.0112** | < 0.02 | < 0.005 | < 0.04 |
| | 9/10/2019 | < 0.005 | **0.013** | N/A | < 0.005 | **0.00706** |
| | 9/16/2020 | < 0.005 | **0.0133** | **0.00772** | < 0.005 | **0.00727** |
| | 9/13/2021 | < 0.005 | **0.00561** | < 0.005 | < 0.005 | **0.00501** |
| | 9/27/2022 | 0.00496* | **0.0137** | 0.00245* | 0.00453* | 0.0049* |
| | 9/27/2022 | N/A | N/A | 0.00282* | N/A | N/A |
| | 9/19/2023 | < 0.005 | 0.00181* | < 0.005 | < 0.005 | 0.00196* |
| | 9/19/2023 | N/A | N/A | < 0.005 | N/A | N/A |
| | 9/12/2024 | < 0.005 | < 0.005 | 0.0018* | < 0.005 | 0.00184* |
| | 9/12/2024 | N/A | N/A | < 0.005 | N/A | N/A |
| | 9/18/2025 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 |
| | 9/18/2025 | N/A | N/A | N/A | < 0.005 | N/A |
| | 9/10/2026 | **0.00307** | 0.000976* | 0.000591* | 0.00148* | 0.000948* |
| | 9/10/2026 | **0.00208** | N/A | N/A | N/A | N/A |
| **Fluoride, mg/L (CAS NO - 16984-48-8)** | 9/27/2022 | < 0.5 | < 0.5 | 0.305* | < 0.5 | < 0.5 |
| | 9/27/2022 | N/A | N/A | 0.303* | N/A | N/A |
| | 9/19/2023 | < 1 | < 1 | 0.553* | < 1 | < 1 |
| | 9/19/2023 | N/A | N/A | 0.54* | N/A | N/A |
| | 9/12/2024 | 0.383* | < 1 | 0.655* | < 1 | < 1 |
| | 9/12/2024 | N/A | N/A | 0.665* | N/A | N/A |
| | 9/18/2025 | 0.588* | < 1 | 0.708* | 0.403* | < 1 |
| | 9/18/2025 | N/A | N/A | N/A | 0.415* | N/A |
| | 9/10/2026 | 0.241* | 0.363* | 0.859* | 0.531* | 0.486* |
| | 9/10/2026 | 0.622* | N/A | N/A | N/A | N/A |
| **Iron, Total, mg/L (CAS NO - 7439-89-6)** | 9/20/2016 | **0.308** | **8.24** | **1.56** | **2.35** | **2.08** |
| | 9/21/2017 | **1.32** | **16.3** | **0.869** | **1.02** | **1.09** |
| | 9/17/2018 | **2.72** | **12.5** | **4.22** | **4.77** | **4.84** |
| | 9/10/2019 | **3.07** | **16.5** | N/A | **3.79** | **1.15** |
| | 9/16/2020 | **1.33** | **4.9** | **0.576** | **2.43** | **0.191** |
| | 9/13/2021 | **1.52** | **2.97** | **0.117** | **2.16** | **0.56** |
| | 9/27/2022 | **2.11** | **13.6** | **0.212** | **6.11** | **1.77** |
| | 9/27/2022 | N/A | N/A | **1.05** | N/A | N/A |
| | 9/19/2023 | **1.02** | **0.379** | **0.192** | **0.527** | 0.0976* |
| | 9/19/2023 | N/A | N/A | **0.125** | N/A | N/A |
| | 9/12/2024 | **3.75** | 0.0417* | **0.14** | **0.214** | **0.401** |
| | 9/12/2024 | N/A | N/A | **0.177** | N/A | N/A |
| | 9/18/2025 | **0.303** | < 0.1 | **0.202** | < 0.1 | < 0.1 |
| | 9/18/2025 | N/A | N/A | N/A | < 0.1 | N/A |
| | 9/10/2026 | **0.192** | < 0.1 | **0.287** | 0.0471* | **0.388** |
| | 9/10/2026 | **0.191** | N/A | N/A | N/A | N/A |

# SCS ENGINEERS

**Summary of Groundwater Chemistry**

Corn Belt Power Cooperative - Wisdom Station CCR Landfill (21-SPD-04-95C)

| Total Metals Constituents | Sample Date | MW-4 UPG | MW-1 DNG | MW-5 DNG | MW-6 DNG | MW-7 DNG |
|---|---|---|---|---|---|---|
| **Lead, mg/L (CAS NO - 7439-92-1)** | 9/20/2016 | **0.000752** | **0.00767** | **0.000567** | **0.00223** | < 0.0005 |
| | 9/21/2017 | **0.000699** | **0.0104** | < 0.0005 | **0.000913** | < 0.0005 |
| | 9/17/2018 | **0.00212** | **0.00525** | < 0.002 | **0.00223** | < 0.004 |
| | 9/10/2019 | **0.00455** | **0.00695** | N/A | < 0.0005 | < 0.0005 |
| | 9/16/2020 | **0.00147** | **0.00199** | < 0.0005 | < 0.0005 | < 0.0005 |
| | 9/13/2021 | **0.000612** | **0.00107** | < 0.0005 | < 0.0005 | < 0.0005 |
| | 9/27/2022 | **0.00139** | **0.00584** | < 0.0005 | **0.00155** | 0.000261* |
| | 9/27/2022 | N/A | N/A | 0.000328* | N/A | N/A |
| | 9/19/2023 | 0.000427* | < 0.0005 | < 0.0005 | 0.000278* | < 0.0005 |
| | 9/19/2023 | N/A | N/A | < 0.0005 | N/A | N/A |
| | 9/12/2024 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 |
| | 9/12/2024 | N/A | N/A | < 0.0005 | N/A | N/A |
| | 9/18/2025 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 |
| | 9/18/2025 | N/A | N/A | N/A | < 0.0005 | N/A |
| | 9/10/2026 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 |
| | 9/10/2026 | < 0.0005 | N/A | N/A | N/A | N/A |
| **Magnesium, mg/L (CAS NO - 7439-95-4)** | 9/20/2016 | **18.5** | **38.1** | **29.9** | **30.8** | **35.6** |
| | 9/21/2017 | **30.1** | **37.4** | **28.6** | **26.4** | **36.5** |
| | 9/17/2018 | **34.5** | **24** | **34.3** | **29.3** | **44.5** |
| | 9/10/2019 | **31.6** | **19.4** | N/A | **23.6** | **35.4** |
| | 9/16/2020 | **24.2** | **29.9** | **29** | **23.5** | **44.3** |
| | 9/13/2021 | **22.3** | **24** | **27.5** | **25.3** | **27.5** |
| | 9/27/2022 | **32.4** | **35.8** | **41.7** | **26.8** | **37.3** |
| | 9/27/2022 | N/A | N/A | **41.8** | N/A | N/A |
| | 9/19/2023 | **21.9** | **22** | **41.5** | **23.8** | **28** |
| | 9/19/2023 | N/A | N/A | **35.3** | N/A | N/A |
| | 9/12/2024 | **38.3** | **16.5** | **35** | **26.5** | **28.7** |
| | 9/12/2024 | N/A | N/A | **33.1** | N/A | N/A |
| | 9/18/2025 | **50** | **24.3** | **34.9** | **33.4** | **26.8** |
| | 9/18/2025 | N/A | N/A | N/A | **34** | N/A |
| | 9/10/2026 | **39.6** | **26.7** | **38.3** | **31.3** | **29.9** |
| | 9/10/2026 | **40.3** | N/A | N/A | N/A | N/A |
| **Manganese, mg/L (CAS NO - 7439-96-5)** | 9/20/2016 | **0.113** | **2.6** | **0.385** | **1.17** | **1.56** |
| | 9/21/2017 | **0.235** | **2.15** | **1** | **26.4** | **2.72** |
| | 9/17/2018 | **0.226** | **1.48** | **9.06** | **2.22** | **16.5** |
| | 9/10/2019 | **0.326** | **2.19** | N/A | **4.26** | **3.06** |
| | 9/16/2020 | **0.254** | **1.91** | **3.62** | **1.98** | **1.7** |
| | 9/13/2021 | **0.271** | **0.816** | **0.543** | **1.56** | **1.69** |
| | 9/27/2022 | **0.272** | **2.7** | **1.52** | **6.83** | **2.66** |
| | 9/27/2022 | N/A | N/A | **3.13** | N/A | N/A |
| | 9/19/2023 | **0.196** | **0.153** | **0.272** | **0.649** | **1.12** |
| | 9/19/2023 | N/A | N/A | **0.215** | N/A | N/A |
| | 9/12/2024 | **0.387** | **0.0273** | **0.701** | **0.483** | **1.07** |
| | 9/12/2024 | N/A | N/A | **0.502** | N/A | N/A |
| | 9/18/2025 | **0.413** | < 0.01 | **0.269** | **0.135** | **0.87** |
| | 9/18/2025 | N/A | N/A | N/A | **0.101** | N/A |
| | 9/10/2026 | **0.99** | **0.00896** | **0.449** | **0.145** | **1.02** |
| | 9/10/2026 | **0.942** | N/A | N/A | N/A | N/A |

# SCS ENGINEERS

**Summary of Groundwater Chemistry**

Corn Belt Power Cooperative - Wisdom Station CCR Landfill (21-SPD-04-95C)

| Total Metals Constituents | Sample Date | MW-4 UPG | MW-1 DNG | MW-5 DNG | MW-6 DNG | MW-7 DNG |
|---|---|---|---|---|---|---|
| **Molybdenum, mg/L (CAS NO - 7439-98-7)** | 9/27/2022 | 0.00156* | 0.00137* | < 0.002 | **0.0111** | **0.0219** |
| | 9/27/2022 | N/A | N/A | **0.0075** | N/A | N/A |
| | 9/19/2023 | **0.00202** | < 0.002 | **0.00988** | **0.00423** | **0.0854** |
| | 9/19/2023 | N/A | N/A | **0.00997** | N/A | N/A |
| | 9/12/2024 | **0.00209** | 0.00181* | **0.0227** | **0.00624** | **0.0664** |
| | 9/12/2024 | N/A | N/A | **0.0127** | N/A | N/A |
| | 9/18/2025 | **0.00599** | < 0.002 | **0.00988** | **0.00285** | **0.0143** |
| | 9/18/2025 | N/A | N/A | N/A | **0.00272** | N/A |
| | 9/10/2026 | **0.00931** | < 0.005 | **0.00614** | **0.0333** | 0.00417* |
| | 9/10/2026 | 0.00381* | N/A | N/A | N/A | N/A |
| **Selenium, mg/L (CAS NO - 7782-49-2)** | 9/20/2016 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 |
| | 9/21/2017 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 |
| | 9/17/2018 | < 0.005 | < 0.005 | < 0.02 | < 0.005 | < 0.005 |
| | 9/10/2019 | < 0.005 | < 0.005 | N/A | < 0.005 | < 0.005 |
| | 9/16/2020 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | **0.0128** |
| | 9/13/2021 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 |
| | 9/27/2022 | N/A | N/A | N/A | N/A | **0.00629** |
| | 9/19/2023 | N/A | N/A | N/A | N/A | < 0.005 |
| | 9/12/2024 | N/A | N/A | N/A | N/A | 0.0035* |
| | 9/18/2025 | N/A | N/A | N/A | N/A | < 0.005 |
| | 9/10/2026 | N/A | N/A | N/A | N/A | < 0.0025 |
| **Sulfate, mg/L (CAS NO - 14808-79-8)** | 9/20/2016 | **44.6** | **10.2** | **37.1** | **51.9** | **162** |
| | 9/21/2017 | **78.3** | **49.3** | **95.9** | **79.9** | **197** |
| | 9/17/2018 | **94.9** | **16.5** | **82.4** | **62.4** | **270** |
| | 9/10/2019 | **48.9** | **11** | N/A | **66.3** | **237** |
| | 9/16/2020 | **53.8** | **36.5** | **63** | **74.4** | **353** |
| | 9/13/2021 | **51.4** | **50.3** | **96.2** | **145** | **94.2** |
| | 9/27/2022 | **61.6** | **48.4** | **122** | **116** | **239** |
| | 9/27/2022 | N/A | N/A | **121** | N/A | N/A |
| | 9/19/2023 | **47.6** | **48.6** | **113** | **103** | **207** |
| | 9/19/2023 | N/A | N/A | **114** | N/A | N/A |
| | 9/12/2024 | **58** | **13.6** | **97.5** | **93.1** | **175** |
| | 9/12/2024 | N/A | N/A | **94.3** | N/A | N/A |
| | 9/18/2025 | **143** | **18.7** | **108** | **106** | **123** |
| | 9/18/2025 | N/A | N/A | N/A | **106** | N/A |
| | 9/10/2026 | **134** | **35.3** | **118** | **105** | **140** |
| | 9/10/2026 | **133** | N/A | N/A | N/A | N/A |
| **Zinc, mg/L (CAS NO - 7440-66-6)** | 9/20/2016 | **0.104** | **0.0407** | **0.0117** | **0.0522** | **0.0122** |
| | 9/21/2017 | **0.109** | **0.0585** | **0.0564** | **0.0497** | < 0.02 |
| | 9/17/2018 | **0.112** | **0.0762** | **0.101** | **0.0815** | < 0.16 |
| | 9/10/2019 | **0.209** | **0.0859** | N/A | **0.218** | < 0.02 |
| | 9/16/2020 | **0.175** | **0.0217** | **0.139** | **0.117** | **0.0922** |
| | 9/13/2021 | **0.143** | **0.0352** | **0.0426** | **0.132** | < 0.02 |
| | 9/27/2022 | **0.193** | **0.0661** | **0.0777** | **0.189** | < 0.02 |
| | 9/27/2022 | N/A | N/A | **0.0766** | N/A | N/A |
| | 9/19/2023 | **0.057** | 0.00972* | < 0.02 | 0.0177* | 0.00973* |
| | 9/19/2023 | N/A | N/A | < 0.02 | N/A | N/A |
| | 9/12/2024 | < 0.02 | < 0.02 | < 0.02 | **0.025** | < 0.02 |
| | 9/12/2024 | N/A | N/A | < 0.02 | N/A | N/A |
| | 9/18/2025 | **0.232** | < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| | 9/18/2025 | N/A | N/A | N/A | < 0.02 | N/A |
| | 9/10/2026 | **0.177** | < 0.02 | < 0.02 | < 0.02 | 0.0126* |
| | 9/10/2026 | **0.174** | N/A | N/A | N/A | N/A |

# SCS ENGINEERS

**Summary of Groundwater Chemistry**

Corn Belt Power Cooperative - Wisdom Station CCR Landfill (21-SPD-04-95C)

| Total Metals Constituents | Sample Date | MW-4 UPG | MW-1 DNG | MW-5 DNG | MW-6 DNG | MW-7 DNG |
|---|---|---|---|---|---|---|
| **Total Suspended Solids, mg/L (CAS NO - TSS)** | 9/27/2022 | **61** | **264** | **115** | **160** | **73** |
| | 9/27/2022 | N/A | N/A | **176** | N/A | N/A |
| | 9/19/2023 | **14.3** | **8.13** | 1.25* | **20.8** | **4.62** |
| | 9/19/2023 | N/A | N/A | **11.4** | N/A | N/A |
| | 9/12/2024 | **20.8** | **3.75** | < 1.88 | **5.88** | **4.38** |
| | 9/12/2024 | N/A | N/A | **19.7** | N/A | N/A |
| | 9/18/2025 | < 1.88 | < 1.88 | **9.5** | < 1.88 | < 1.88 |
| | 9/18/2025 | N/A | N/A | N/A | < 1.88 | N/A |
| | 9/10/2026 | 1.38* | < 1.88 | **1.88** | 1.63* | **2.38** |
| | 9/10/2026 | 1.13* | N/A | N/A | N/A | N/A |

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

| **Denotes Detection.** |
|---|
| Denotes Confirmed Outlier. Statistically Excluded. |

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

# Appendix D

# Statistical Report

# STATISTICAL METHODOLOGY

## Statistical Method

Prediction limits are the recommended approach of the "Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities - Unified Guidance," as published by the United States Environmental Protection Agency. Prediction limits were used for the statistical evaluation during this reporting period.

### *Diagnostic and Exploratory Evaluations and Tests of Assumptions*

The statistical program includes diagnostic and exploratory evaluations and statistical tests of assumptions, as appropriate, including the following:

- Time series plots
- Ohio EPA Method for Outliers

### *Management of Non-Detect Data*

Non-detect values in the dataset are managed using simple substitution or the Kaplan-Meier estimator. If less than 15% of the data are non-detects, simple substitution is used, where non-detect values are assigned a concentration of one-half (½) of the practical quantification limit (PQL). If greater than 15% but less than 50% of the data are non-detects, the Kaplan-Meier estimator is used to define the distribution for the dataset. If non-detects comprise greater than 50% of the available data, non-parametric statistical methods are used.

### *Management of Outliers*

Background datasets are evaluated for outliers using the Ohio EPA Method as included in the statistical software program Sanitas™ and described below, which included the use of Dixon's, Rosner's, and Tukey's outlier tests, as appropriate based on the diagnostic tests, for the datasets containing less than 75% of the measured concentrations below the practical quantification limit (PQL).

### Management of Data (ND data < 75%)

If less than 75% of the background dataset is below the PQL, outliers are statistically evaluated using the following guidelines.

- Parametric datasets with n < 20 are evaluated using Dixon's outlier test.
- Parametric datasets with n ≥ 20 are evaluated using Rosner's outlier test.
- Non-parametric datasets are evaluated using Tukey's outlier test.

In accordance with the Ohio EPA Method, if a statistically significant outlier is not found using the above tests, but the highest value data point exceeded the second highest data point by an order of magnitude, the highest point is considered an outlier.

### Management of Data (ND data ≥ 75%)

If greater than or equal to 75% of the background dataset is less than the PQL, outliers are statistically evaluated using the following guidelines.

- Single detection ≥ PQL:

- If ≥ 50% of the background dataset has detections ≥ method detection limit (MDL), any value ≥ two times PQL of background is considered an outlier.
- If < 50% of the background dataset has detections ≥ MDL, any value ≥ PQL of background is considered an outlier.

- Two or more detections ≥ PQL:
  - If ≥ 50% of the background dataset has detections ≥ MDL, any value ≥ three times PQL of background is considered an outlier.
  - If < 50% of the background dataset has detections ≥ MDL, any value ≥ two times the PQL of background is considered an outlier.

***Interwell Prediction Limits***

Interwell prediction limits were selected as the appropriate statistical method for the determination of constituents statistically above background. Prediction limits are established using the process below. Data from the most recent sampling events is compared to the prediction limits for the determination of constituents above background.

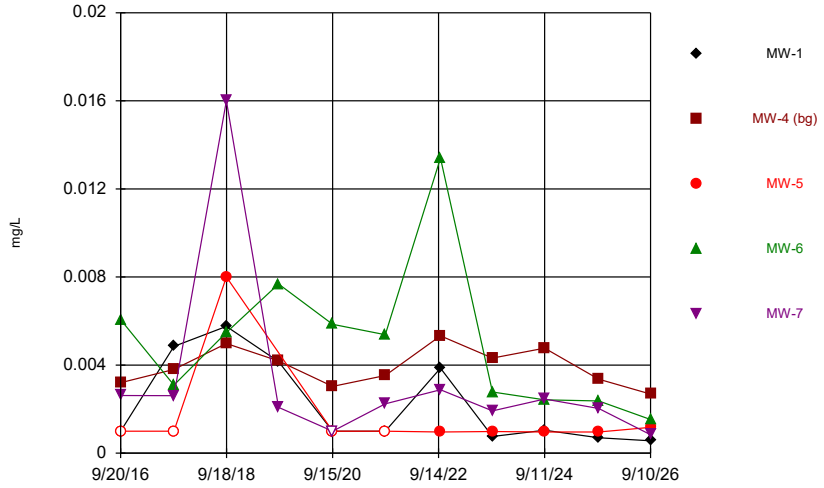
- If the dataset has a normal distribution (or could be transformed to a normal distribution using Ladder of Powers) and has less than 50% non-detects, parametric interwell prediction limits are calculated if at least five data sets had been collected.
- If the dataset did not have a normal distribution (and could not be transformed to a normal distribution using Ladder of Powers) or has greater than 50% non-detects, non-parametric interwell prediction limits are calculated if at least five data sets had been collected.

Attachment A

Time Series Graphs

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA
Hollow symbols indicate censored values.

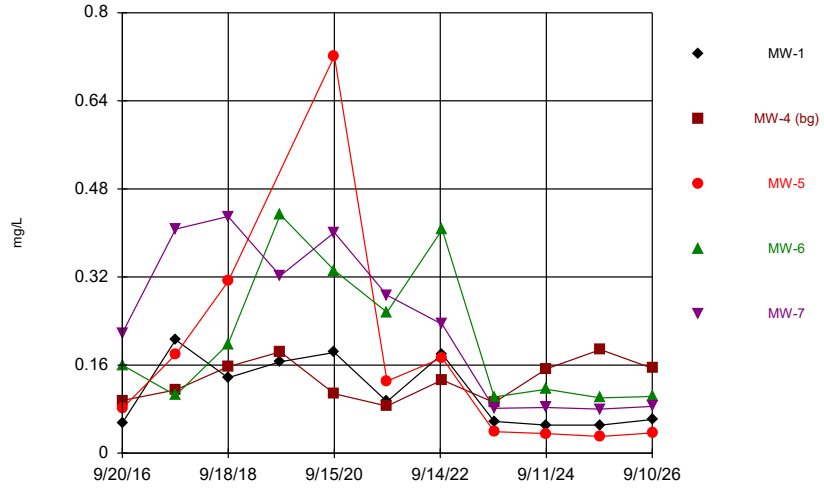
## Time Series




Constituent: Arsenic Analysis Run 10/26/2026 9:58 AM View: 2026_AWQR-Time_Series
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA

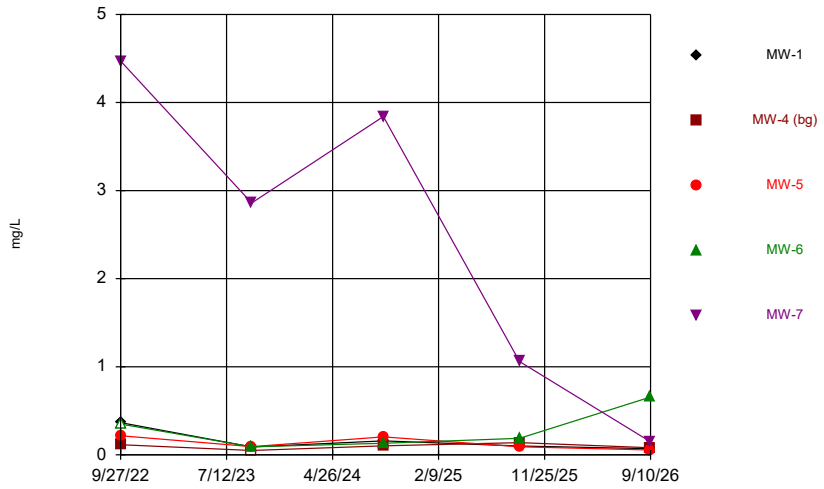
## Time Series




Constituent: Barium Analysis Run 10/26/2026 9:59 AM View: 2026_AWQR-Time_Series
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA
Hollow symbols indicate censored values.

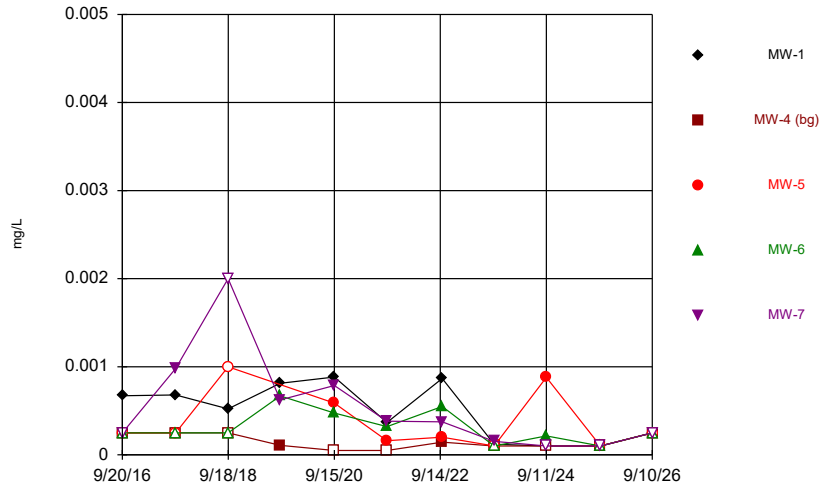
## Time Series




Constituent: Boron Analysis Run 10/26/2026 9:59 AM View: 2026_AWQR-Time_Series
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA
Hollow symbols indicate censored values.

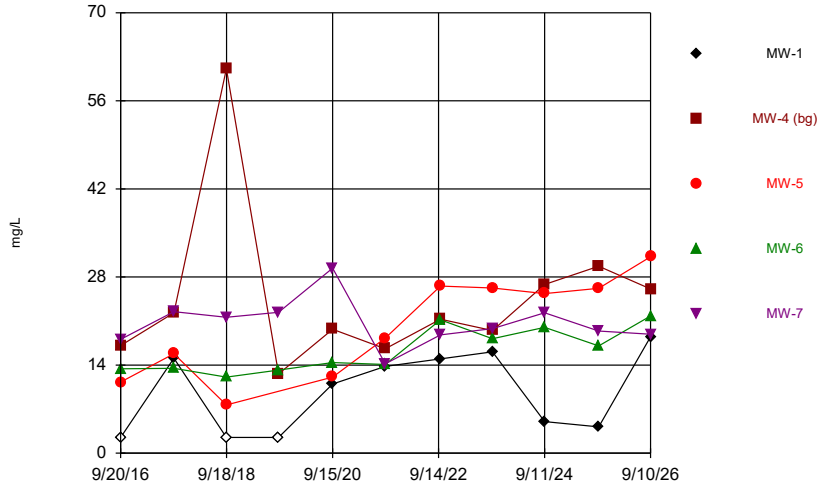
## Time Series




Constituent: Cadmium Analysis Run 10/26/2026 9:59 AM View: 2026_AWQR-Time_Series
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA
Hollow symbols indicate censored values.

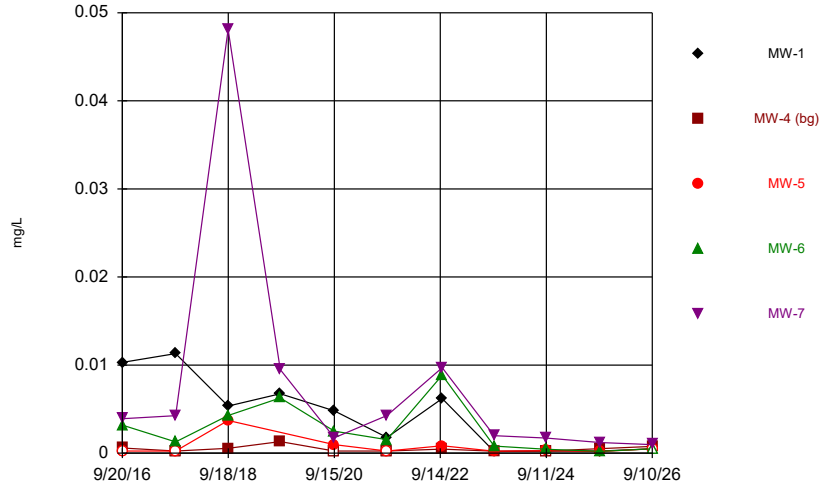
Time Series




Constituent: Chloride Analysis Run 10/26/2026 9:59 AM View: 2026_AWQR-Time_Series
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA
Hollow symbols indicate censored values.

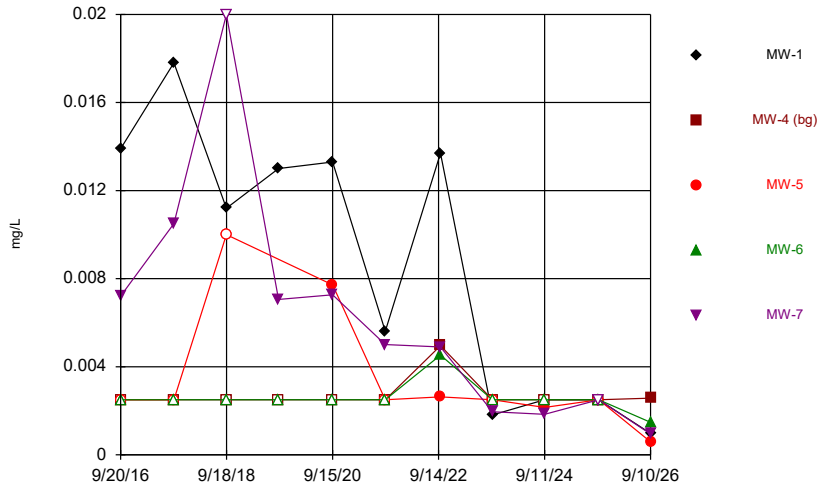
Time Series




Constituent: Cobalt Analysis Run 10/26/2026 9:59 AM View: 2026_AWQR-Time_Series
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA
Hollow symbols indicate censored values.

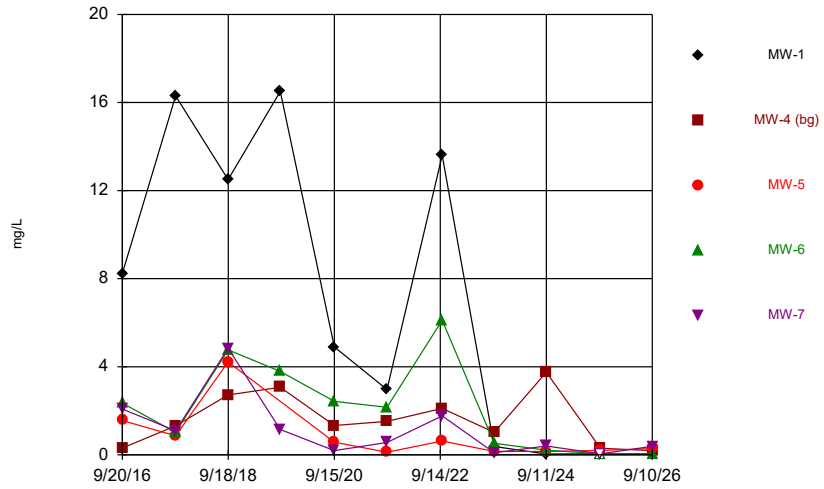
Time Series




Constituent: Copper Analysis Run 10/26/2026 9:59 AM View: 2026_AWQR-Time_Series
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA
Hollow symbols indicate censored values.

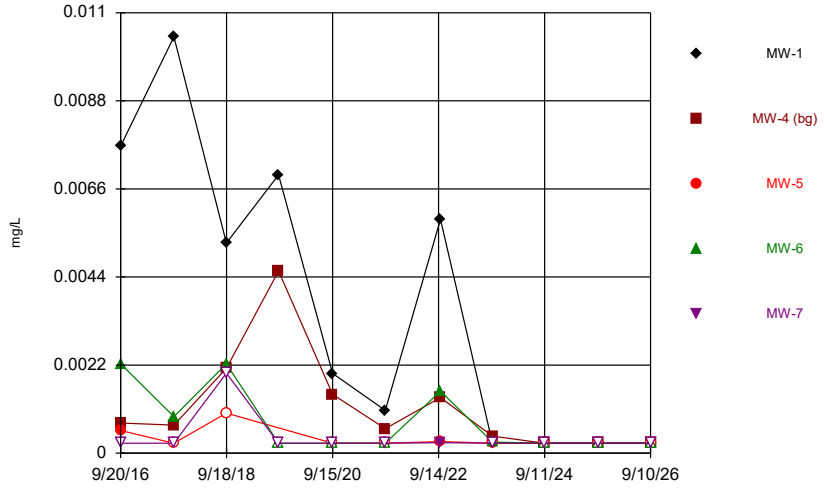
Time Series




Constituent: Iron Analysis Run 10/26/2026 9:59 AM View: 2026_AWQR-Time_Series
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA
Hollow symbols indicate censored values.

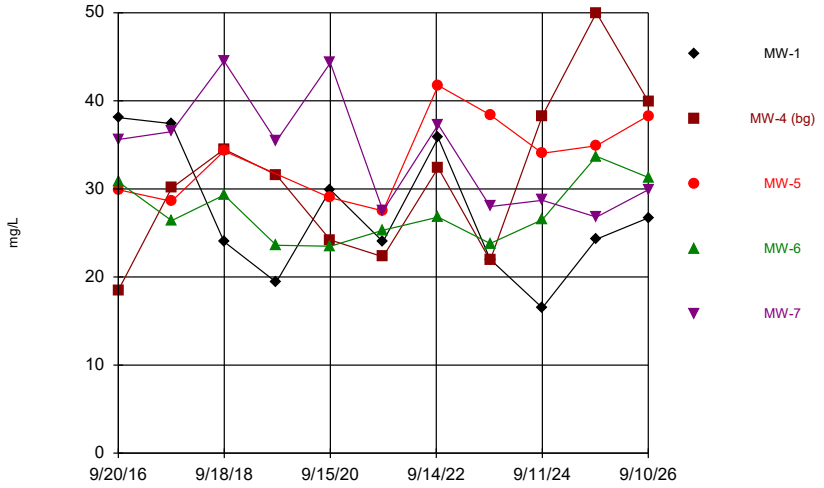
Time Series




Constituent: Lead Analysis Run 10/26/2026 9:59 AM View: 2026_AWQR-Time_Series
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA

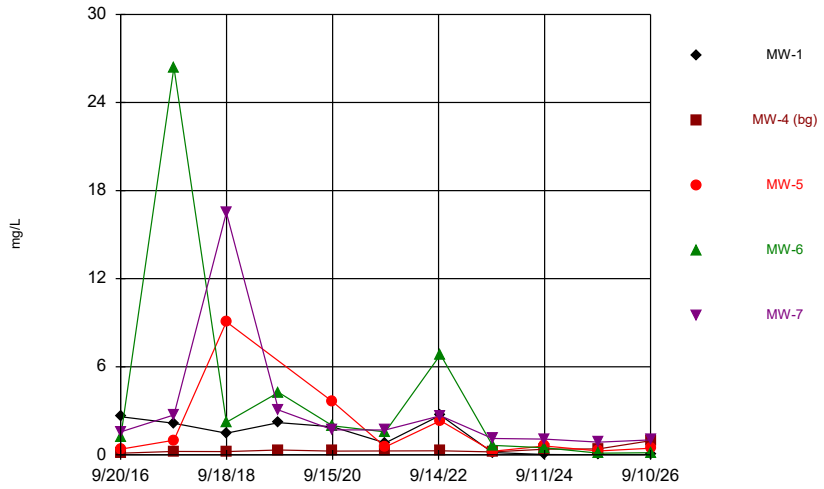
Time Series




Constituent: Magnesium Analysis Run 10/26/2026 9:59 AM View: 2026_AWQR-Time_Series
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA
Hollow symbols indicate censored values.

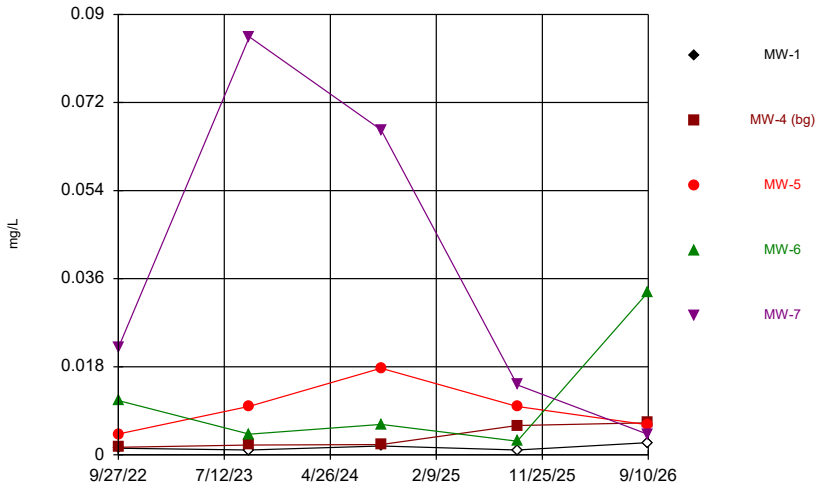
Time Series




Constituent: Manganese Analysis Run 10/26/2026 9:59 AM View: 2026_AWQR-Time_Series
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA
Hollow symbols indicate censored values.

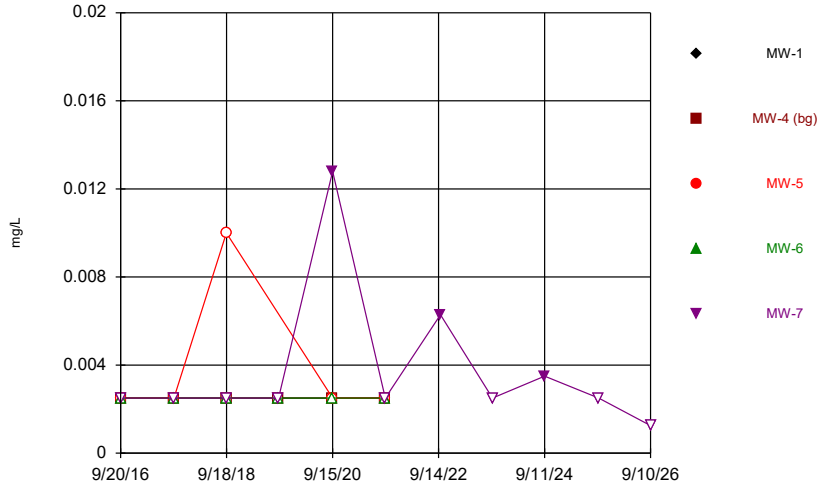
Time Series




Constituent: Molybdenum Analysis Run 10/26/2026 9:59 AM View: 2026_AWQR-Time_Series
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA
Hollow symbols indicate censored values.

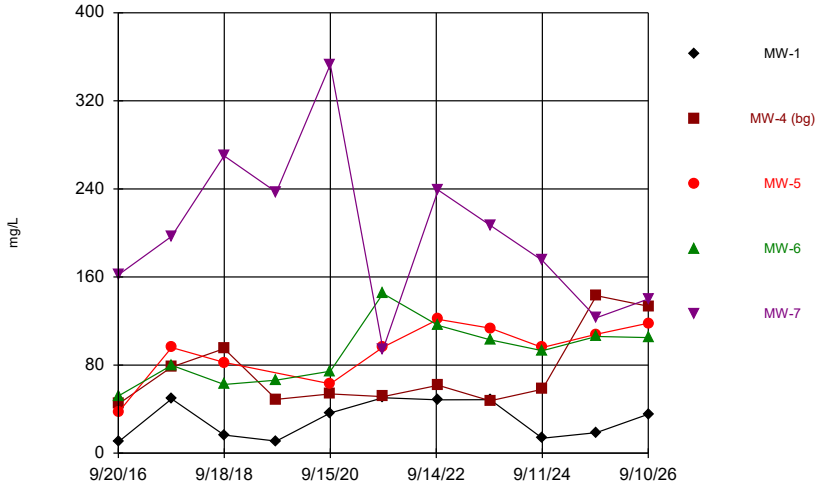
Time Series




Constituent: Selenium Analysis Run 10/26/2026 9:59 AM View: 2026_AWQR-Time_Series
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA

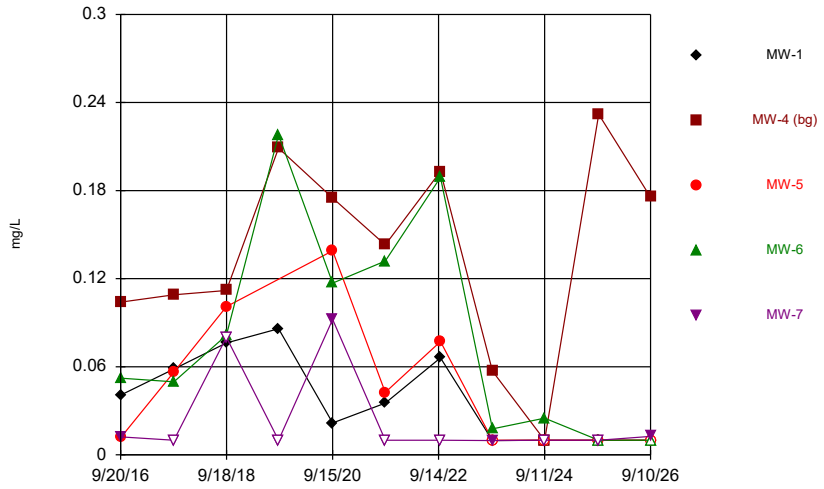
Time Series




Constituent: Sulfate Analysis Run 10/26/2026 9:59 AM View: 2026_AWQR-Time_Series
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA
Hollow symbols indicate censored values.

Time Series




Constituent: Zinc Analysis Run 10/26/2026 9:59 AM View: 2026_AWQR-Time_Series
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Attachment B

Outliers

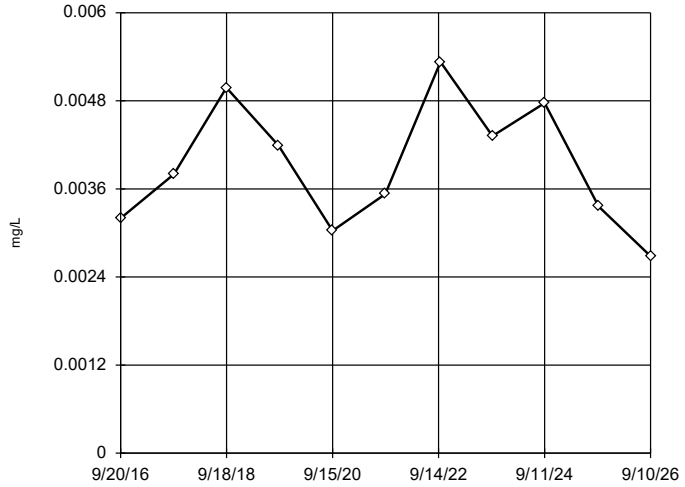
# Outlier Analysis

Wisdom Station CCR LF  Client: Corn Belt Power Cooperative  Data: CBPCO HMSP  Printed 10/26/2026, 10:29 AM

| Constituent | Well | Outlier | Value(s) | Date(s) | Method | Alpha | N | Mean | Std. Dev. | Distribution | Normality Test |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic (mg/L) | MW-4 (bg) | No | n/a | n/a | EPA/OH | 0.05 | 11 | 0.003927 | 0.0008592 | normal | ShapiroWilk |
| Barium (mg/L) | MW-4 (bg) | No | n/a | n/a | EPA/OH | 0.05 | 11 | 0.1332 | 0.0365 | normal | ShapiroWilk |
| Boron (mg/L) | MW-4 (bg) | No | n/a | n/a | EPA/OH | 0.05 | 5 | 0.09745 | 0.03405 | normal | ShapiroWilk |
| Cadmium (mg/L) | MW-4 (bg) | No | n/a | n/a | OH | NaN | 11 | 0.0001503 | 0.00008324 | n/a | n/a |
| **Chloride (mg/L)** | **MW-4 (bg)** | **Yes** | **61.1** | **9/17/2018** | **Dixon/OH** | **0.05** | **11** | **24.8** | **13.02** | **normal** | **ShapiroWilk** |
| Cobalt (mg/L) | MW-4 (bg) | No | n/a | n/a | EPA/OH | 0.05 | 11 | 0.0004931 | 0.000327 | ln(x) | ShapiroWilk |
| Copper (mg/L) | MW-4 (bg) | No | n/a | n/a | OH | NaN | 11 | 0.00273 | 0.0007398 | n/a | n/a |
| Fluoride (mg/L) | MW-4 (bg) | No | n/a | n/a | EPA/OH | 0.05 | 5 | 0.4305 | 0.127 | normal | ShapiroWilk |
| Iron (mg/L) | MW-4 (bg) | No | n/a | n/a | EPA/OH | 0.05 | 11 | 1.604 | 1.189 | normal | ShapiroWilk |
| Lead (mg/L) | MW-4 (bg) | No | n/a | n/a | EPA/OH | 0.05 | 11 | 0.001161 | 0.001275 | ln(x) | ShapiroWilk |
| Magnesium (mg/L) | MW-4 (bg) | No | n/a | n/a | EPA/OH | 0.05 | 11 | 31.25 | 9.328 | normal | ShapiroWilk |
| **Manganese (mg/L)** | **MW-4 (bg)** | **Yes** | **0.966** | **9/10/2026** | **Dixon/OH** | **0.05** | **11** | **0.3326** | **0.2263** | **normal** | **ShapiroWilk** |
| Molybdenum (mg/L) | MW-4 (bg) | No | n/a | n/a | EPA/OH | 0.05 | 5 | 0.003644 | 0.002419 | normal | ShapiroWilk |
| Sulfate (mg/L) | MW-4 (bg) | No | n/a | n/a | EPA/OH | 0.05 | 11 | 74.15 | 35.04 | ln(x) | ShapiroWilk |
| Zinc (mg/L) | MW-4 (bg) | No | n/a | n/a | Dixon/OH | 0.05 | 11 | 0.1381 | 0.06732 | normal | ShapiroWilk |

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

MW-4 (bg)




n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.003927, std. dev. 0.0008592, critical Tn 2.234

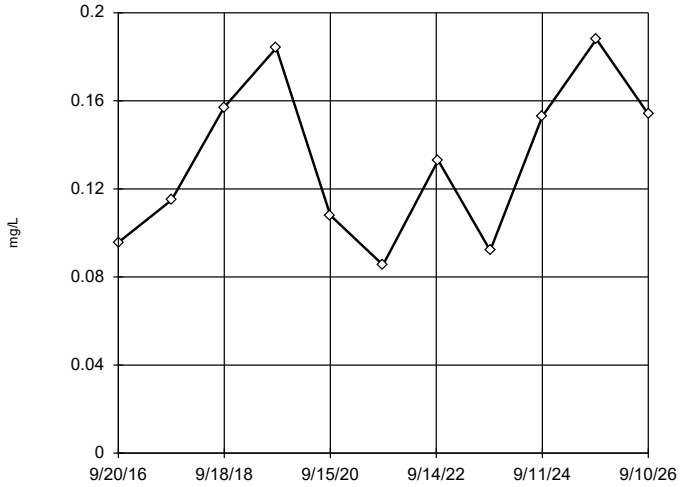
Normality test used:
Shapiro Wilk@alpha = 0.05
Calculated = 0.9626
Critical = 0.85
The distribution was found to be normally distributed.

Constituent: Arsenic Analysis Run 10/26/2026 10:23 AM View: 2026_AWQR-MW-4_Outliers
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA

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

MW-4 (bg)




n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.1332, std. dev. 0.0365, critical Tn 2.234

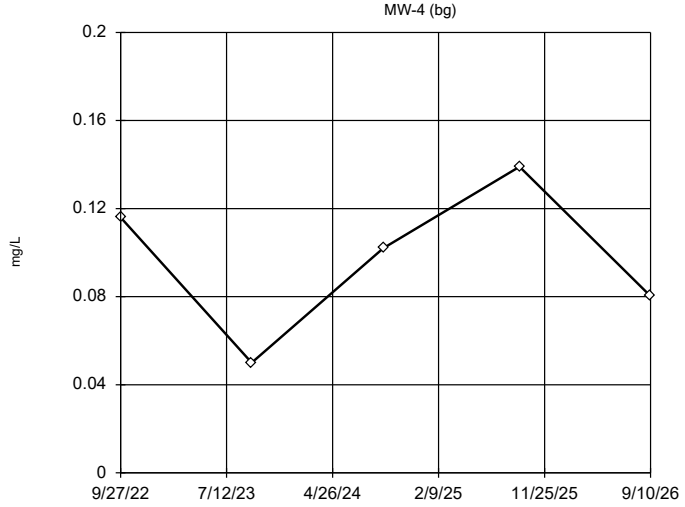
Normality test used:
Shapiro Wilk@alpha = 0.05
Calculated = 0.9246
Critical = 0.85
The distribution was found to be normally distributed.

Constituent: Barium Analysis Run 10/26/2026 10:23 AM View: 2026_AWQR-MW-4_Outliers
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA

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

MW-4 (bg)




n = 5

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.09745, std. dev. 0.03405, critical Tn 1.672

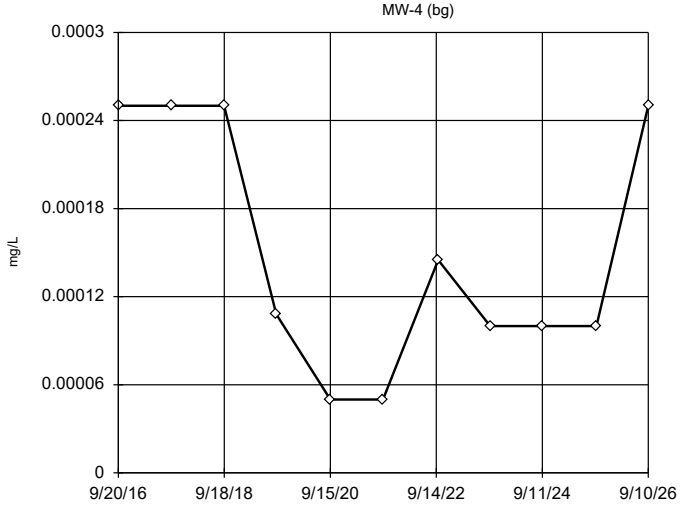
Normality test used:
Shapiro Wilk@alpha = 0.05
Calculated = 0.9903
Critical = 0.762
The distribution was found to be normally distributed.

Constituent: Boron Analysis Run 10/26/2026 10:23 AM View: 2026_AWQR-MW-4_Outliers
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA

## Ohio EPA 0715 Outlier Algorithm

MW-4 (bg)




n = 11

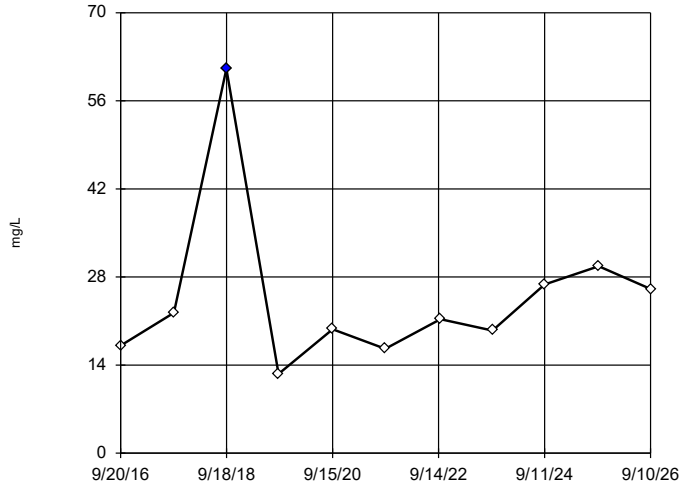
No statistical outliers.

Constituent: Cadmium Analysis Run 10/26/2026 10:23 AM View: 2026_AWQR-MW-4_Outliers
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA

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

MW-4 (bg)




n = 11

Statistical outlier is drawn as solid.
Testing for 1 high outlier.
Mean = 24.8.
Std. Dev. = 13.02.
61.1: c = 0.7708
tabl = 0.576.
Alpha = 0.05.

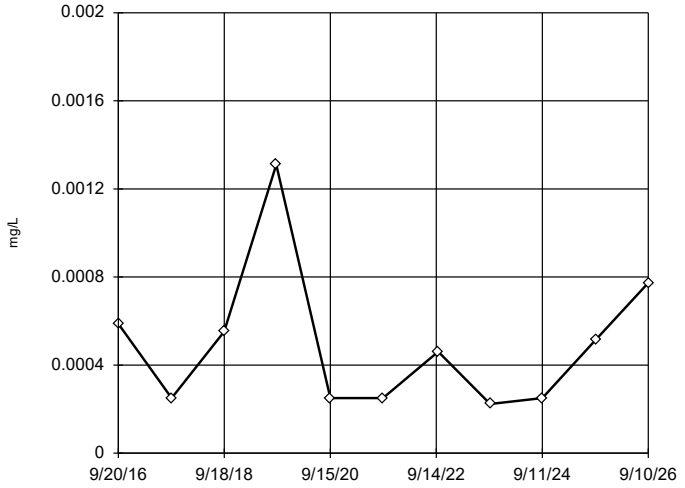
Normality test used:
Shapiro Wilk@alpha = 0.05
Calculated = 0.9775
Critical = 0.842
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Chloride Analysis Run 10/26/2026 10:23 AM View: 2026_AWQR-MW-4_Outliers
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA

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

MW-4 (bg)




n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.0004931, std. dev. 0.000327, critical Tn 2.234

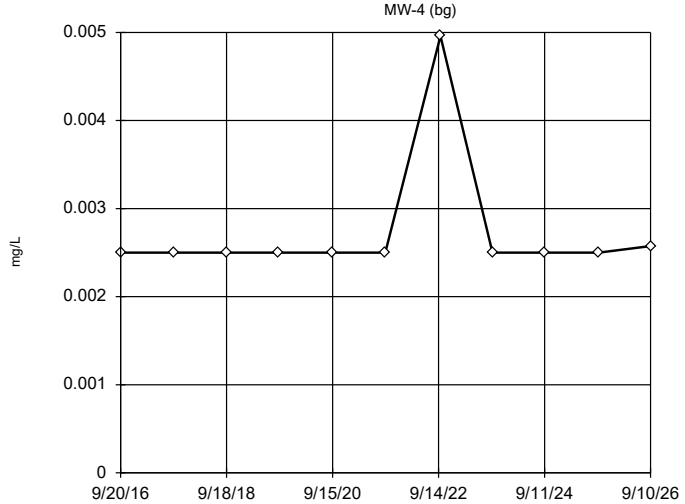
Normality test used:
Shapiro Wilk@alpha = 0.05
Calculated = 0.8773
Critical = 0.85 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Cobalt Analysis Run 10/26/2026 10:23 AM View: 2026_AWQR-MW-4_Outliers
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA

## Ohio EPA 0715 Outlier Algorithm

MW-4 (bg)




n = 11

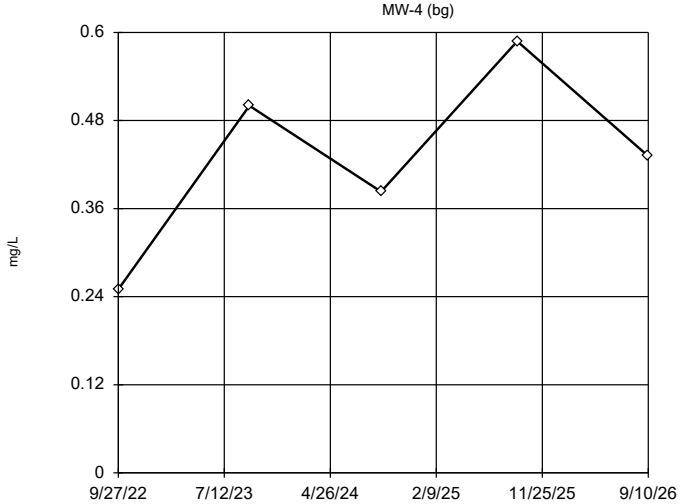
No statistical outliers.

Constituent: Copper Analysis Run 10/26/2026 10:23 AM View: 2026_AWQR-MW-4_Outliers
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA

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

MW-4 (bg)




n = 5

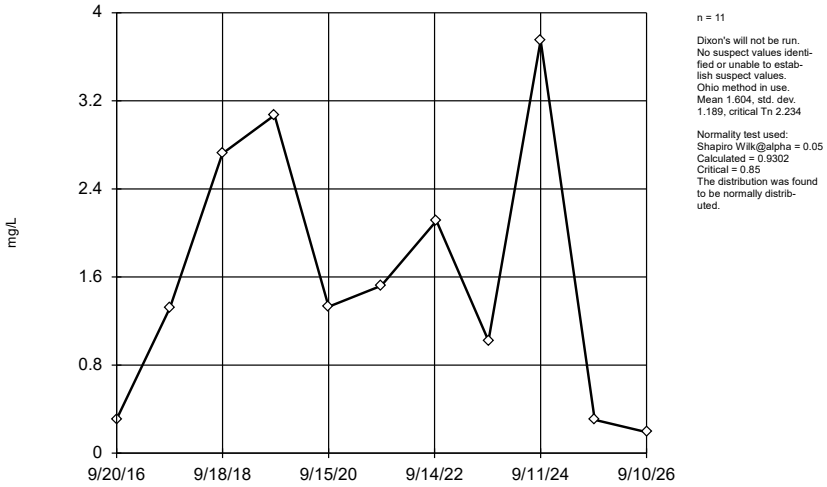
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.4305, std. dev. 0.127, critical Tn 1.672

Normality test used:
Shapiro Wilk@alpha = 0.05
Calculated = 0.9917
Critical = 0.762
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 10/26/2026 10:23 AM View: 2026_AWQR-MW-4_Outliers
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

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

MW-4 (bg)




n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 1.604, std. dev. 1.189, critical Tn 2.234

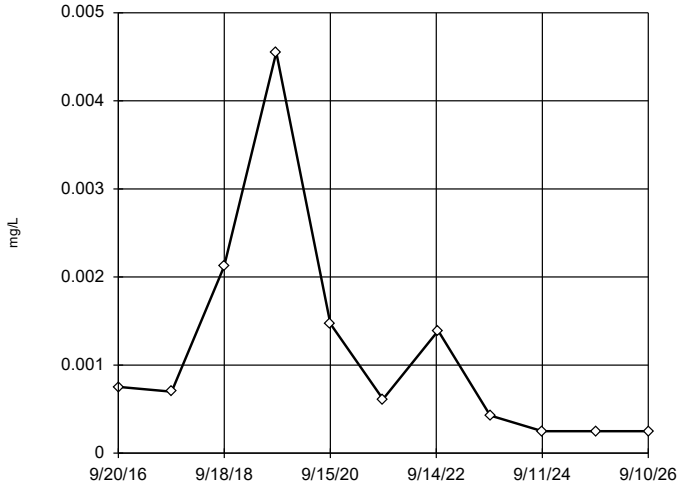
Normality test used:
Shapiro Wilk@alpha = 0.05
Calculated = 0.9302
Critical = 0.85
The distribution was found to be normally distributed.

Constituent: Iron Analysis Run 10/26/2026 10:23 AM View: 2026_AWQR-MW-4_Outliers
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

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

MW-4 (bg)




n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.001161, std. dev. 0.001275, critical Tn 2.234

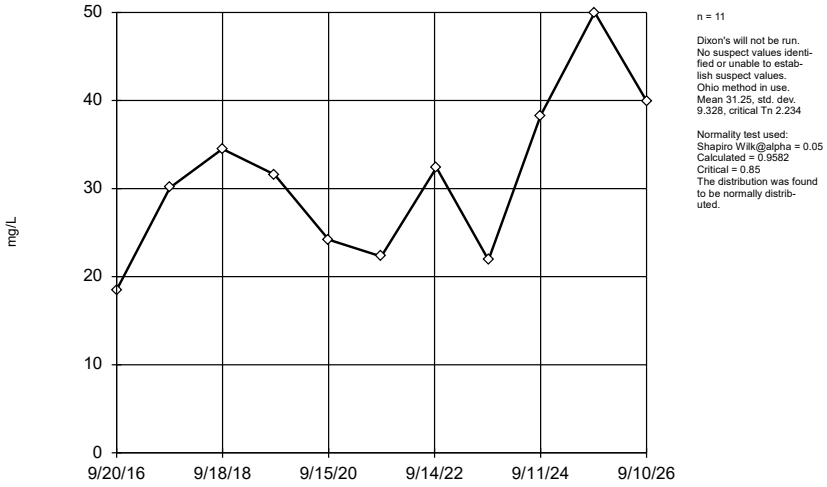
Normality test used:
Shapiro Wilk@alpha = 0.05
Calculated = 0.9302
Critical = 0.85 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Lead Analysis Run 10/26/2026 10:23 AM View: 2026_AWQR-MW-4_Outliers
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

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

MW-4 (bg)




n = 11

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 31.25, std. dev. 9.328, critical Tn 2.234

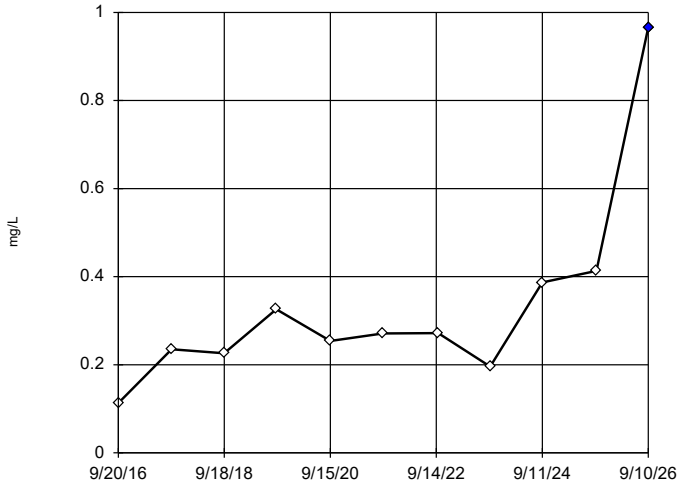
Normality test used:
Shapiro Wilk@alpha = 0.05
Calculated = 0.9582
Critical = 0.85
The distribution was found to be normally distributed.

Constituent: Magnesium Analysis Run 10/26/2026 10:23 AM View: 2026_AWQR-MW-4_Outliers
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA

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

MW-4 (bg)



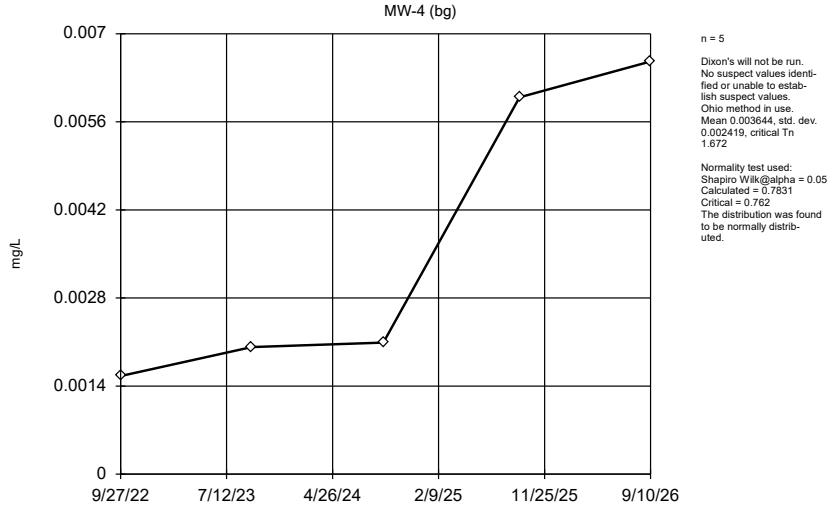

n = 11

Statistical outlier is drawn as solid.
Testing for 1 high and 1 low outliers.
Mean = 0.3326.
Std. Dev. = 0.2263.
0.966 (D): c = 0.7519
tabl = 0.576.
0.113: c = 0.3767
tabl = 0.576.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.05
Calculated = 0.913
Critical = 0.829
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Manganese Analysis Run 10/26/2026 10:23 AM View: 2026_AWQR-MW-4_Outliers
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

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




n = 5

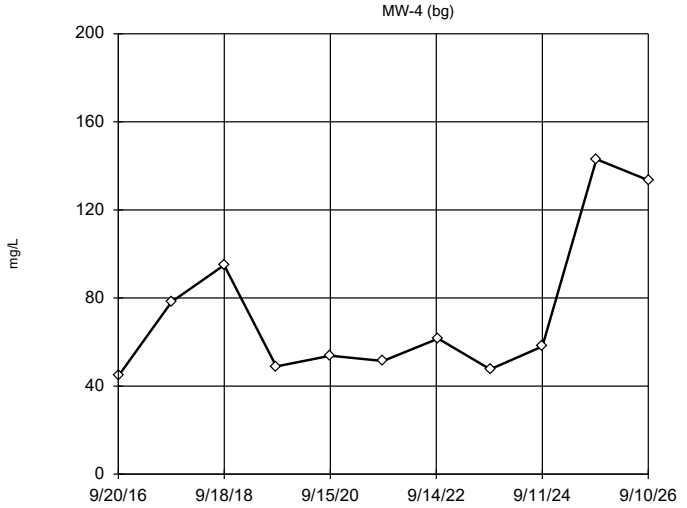
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.003644, std. dev. 0.002419, critical Tn 1.672

Normality test used:
Shapiro Wilk@alpha = 0.05
Calculated = 0.7831
Critical = 0.762
The distribution was found to be normally distributed.

Constituent: Molybdenum Analysis Run 10/26/2026 10:23 AM View: 2026_AWQR-MW-4_Outliers
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

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




n = 11

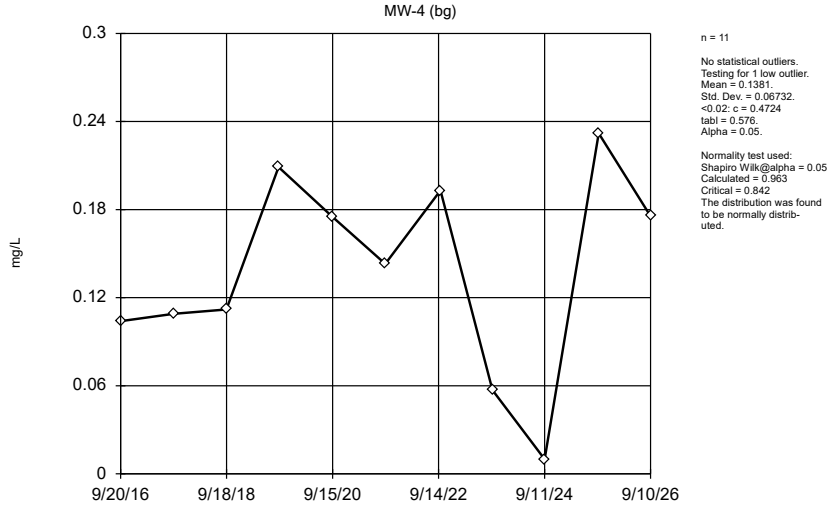
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 74.15, std. dev. 35.04, critical Tn 2.234

Normality test used:
Shapiro Wilk@alpha = 0.05
Calculated = 0.8563
Critical = 0.85 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Sulfate Analysis Run 10/26/2026 10:23 AM View: 2026_AWQR-MW-4_Outliers
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

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




n = 11

No statistical outliers.
Testing for 1 low outlier.
Mean = 0.1381.
Std. Dev. = 0.06732.
<0.02: c = 0.4724
tabl = 0.576.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.05
Calculated = 0.963
Critical = 0.842
The distribution was found to be normally distributed.

Constituent: Zinc Analysis Run 10/26/2026 10:23 AM View: 2026_AWQR-MW-4_Outliers
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

# Attachment C

# Prediction Limits

# Prediction Limit

Wisdom Station CCR LF  Client: Corn Belt Power Cooperative  Data: CBPCO HMSP  Printed 10/26/2026, 10:53 AM

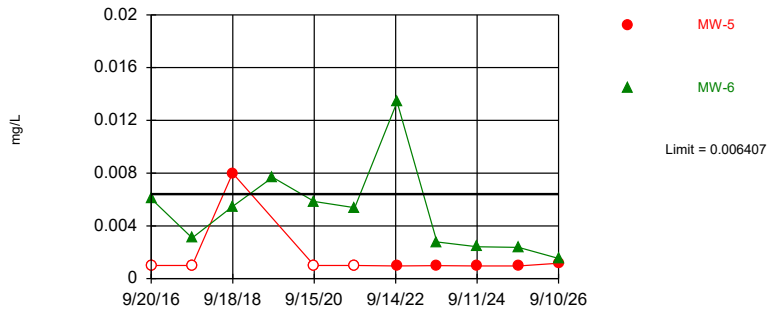
| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Wells | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic (mg/L) | MW-5 | 0.006407 | n/a | 9/10/2026 | 0.00117 | No | 11 | MW-4 | 0.003927 | 0.000859 | 20 | None | No | 0.01 | Param Inter |
| Arsenic (mg/L) | MW-6 | 0.006407 | n/a | 9/10/2026 | 0.00153 | No | 11 | MW-4 | 0.003927 | 0.000859 | 20 | None | No | 0.01 | Param Inter |
| Barium (mg/L) | MW-1 | 0.2386 | n/a | 9/10/2026 | 0.0612 | No | 11 | MW-4 | 0.1332 | 0.0365 | 0 | None | No | 0.01 | Param Inter |
| Barium (mg/L) | MW-5 | 0.2386 | n/a | 9/10/2026 | 0.0367 | No | 11 | MW-4 | 0.1332 | 0.0365 | 0 | None | No | 0.01 | Param Inter |
| Barium (mg/L) | MW-6 | 0.2386 | n/a | 9/10/2026 | 0.103 | No | 11 | MW-4 | 0.1332 | 0.0365 | 0 | None | No | 0.01 | Param Inter |
| Barium (mg/L) | MW-7 | 0.2386 | n/a | 9/10/2026 | 0.085 | No | 11 | MW-4 | 0.1332 | 0.0365 | 0 | None | No | 0.01 | Param Inter |
| Boron (mg/L) | MW-1 | 0.1953 | n/a | 9/10/2026 | 0.0701 | No | 5 | MW-4 | 0.1035 | 0.02236 | 20 | Kaplan-Meier | No | 0.01 | Param Inter |
| Boron (mg/L) | MW-5 | 0.1953 | n/a | 9/10/2026 | 0.0544 | No | 5 | MW-4 | 0.1035 | 0.02236 | 20 | Kaplan-Meier | No | 0.01 | Param Inter |
| **Boron (mg/L)** | **MW-6** | **0.1953** | **n/a** | **9/10/2026** | **0.656** | **Yes** | **5** | **MW-4** | **0.1035** | **0.02236** | **20** | **Kaplan-Meier** | **No** | **0.01** | **Param Inter** |
| Boron (mg/L) | MW-7 | 0.1953 | n/a | 9/10/2026 | 0.147 | No | 5 | MW-4 | 0.1035 | 0.02236 | 20 | Kaplan-Meier | No | 0.01 | Param Inter |
| Chloride (mg/L) | MW-1 | 65.61 | n/a | 9/10/2026 | 18.5 | No | 11 | MW-4 | 4.864 | 1.121 | 0 | None | sqrt(x) | 0.01 | Param Inter |
| Chloride (mg/L) | MW-5 | 65.61 | n/a | 9/10/2026 | 31.2 | No | 11 | MW-4 | 4.864 | 1.121 | 0 | None | sqrt(x) | 0.01 | Param Inter |
| Chloride (mg/L) | MW-6 | 65.61 | n/a | 9/10/2026 | 21.8 | No | 11 | MW-4 | 4.864 | 1.121 | 0 | None | sqrt(x) | 0.01 | Param Inter |
| Chloride (mg/L) | MW-7 | 65.61 | n/a | 9/10/2026 | 18.9 | No | 11 | MW-4 | 4.864 | 1.121 | 0 | None | sqrt(x) | 0.01 | Param Inter |
| Iron (mg/L) | MW-5 | 5.035 | n/a | 9/10/2026 | 0.287 | No | 11 | MW-4 | 1.604 | 1.189 | 0 | None | No | 0.01 | Param Inter |
| Iron (mg/L) | MW-7 | 5.035 | n/a | 9/10/2026 | 0.388 | No | 11 | MW-4 | 1.604 | 1.189 | 0 | None | No | 0.01 | Param Inter |
| Magnesium (mg/L) | MW-1 | 58.18 | n/a | 9/10/2026 | 26.7 | No | 11 | MW-4 | 31.25 | 9.328 | 0 | None | No | 0.01 | Param Inter |
| Magnesium (mg/L) | MW-5 | 58.18 | n/a | 9/10/2026 | 38.3 | No | 11 | MW-4 | 31.25 | 9.328 | 0 | None | No | 0.01 | Param Inter |
| Magnesium (mg/L) | MW-6 | 58.18 | n/a | 9/10/2026 | 31.3 | No | 11 | MW-4 | 31.25 | 9.328 | 0 | None | No | 0.01 | Param Inter |
| Magnesium (mg/L) | MW-7 | 58.18 | n/a | 9/10/2026 | 29.9 | No | 11 | MW-4 | 31.25 | 9.328 | 0 | None | No | 0.01 | Param Inter |
| Manganese (mg/L) | MW-1 | 1.063 | n/a | 9/10/2026 | 0.00896 | No | 11 | MW-4 | 0.5549 | 0.165 | 0 | None | sqrt(x) | 0.01 | Param Inter |
| Manganese (mg/L) | MW-5 | 1.063 | n/a | 9/10/2026 | 0.449 | No | 11 | MW-4 | 0.5549 | 0.165 | 0 | None | sqrt(x) | 0.01 | Param Inter |
| Manganese (mg/L) | MW-6 | 1.063 | n/a | 9/10/2026 | 0.145 | No | 11 | MW-4 | 0.5549 | 0.165 | 0 | None | sqrt(x) | 0.01 | Param Inter |
| Manganese (mg/L) | MW-7 | 1.063 | n/a | 9/10/2026 | 1.02 | No | 11 | MW-4 | 0.5549 | 0.165 | 0 | None | sqrt(x) | 0.01 | Param Inter |
| Molybdenum (mg/L) | MW-5 | 0.01357 | n/a | 9/10/2026 | 0.00614 | No | 5 | MW-4 | 0.003644 | 0.002419 | 0 | None | No | 0.01 | Param Inter |
| **Molybdenum (mg/L)** | **MW-6** | **0.01357** | **n/a** | **9/10/2026** | **0.0333** | **Yes** | **5** | **MW-4** | **0.003644** | **0.002419** | **0** | **None** | **No** | **0.01** | **Param Inter** |
| Sulfate (mg/L) | MW-1 | 191.8 | n/a | 9/10/2026 | 35.3 | No | 11 | MW-4 | 8.422 | 1.881 | 0 | None | sqrt(x) | 0.01 | Param Inter |
| Sulfate (mg/L) | MW-5 | 191.8 | n/a | 9/10/2026 | 118 | No | 11 | MW-4 | 8.422 | 1.881 | 0 | None | sqrt(x) | 0.01 | Param Inter |
| Sulfate (mg/L) | MW-6 | 191.8 | n/a | 9/10/2026 | 105 | No | 11 | MW-4 | 8.422 | 1.881 | 0 | None | sqrt(x) | 0.01 | Param Inter |
| Sulfate (mg/L) | MW-7 | 191.8 | n/a | 9/10/2026 | 140 | No | 11 | MW-4 | 8.422 | 1.881 | 0 | None | sqrt(x) | 0.01 | Param Inter |

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Hollow symbols indicate censored values.

Within Limit

## Prediction Limit

Interwell Parametric




Background Data Summary: Mean=0.003927, Std. Dev.=0.0008592, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9626, critical = 0.792. Report alpha = 0.0394. Individual comparison alpha = 0.01. Based on user-set k of 4 (assumes 2 future values).

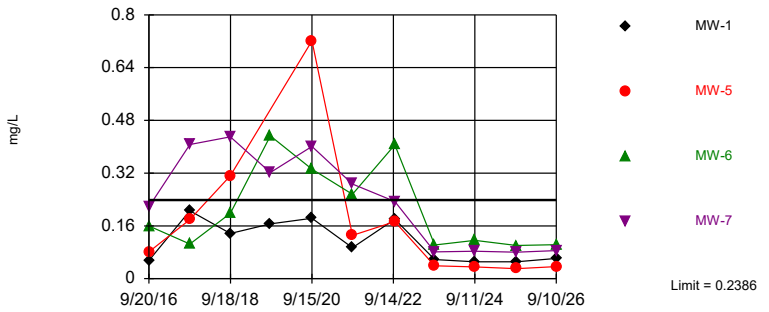
Constituent: Arsenic Analysis Run 10/26/2026 10:51 AM View: 2026_AWQR-Prediction_Limit
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

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Within Limit

## Prediction Limit

Interwell Parametric




Background Data Summary: Mean=0.1332, Std. Dev.=0.0365, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9246, critical = 0.792. Report alpha = 0.0394. Individual comparison alpha = 0.01. Most recent point for each compliance well compared to limit.

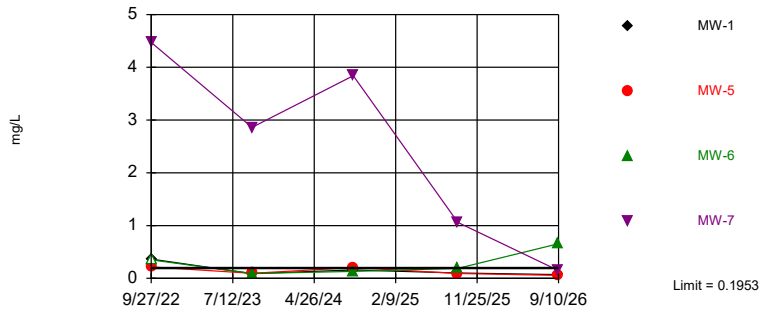
Constituent: Barium Analysis Run 10/26/2026 10:51 AM View: 2026_AWQR-Prediction_Limit
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

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Hollow symbols indicate censored values.

Exceeds Limit: MW-6

## Prediction Limit

Interwell Parametric




Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.1035, Std. Dev.=0.02236, n=5, 20% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9903, critical = 0.686. Report alpha = 0.0394. Individual comparison alpha = 0.01. Most recent point for each compliance well compared to limit.

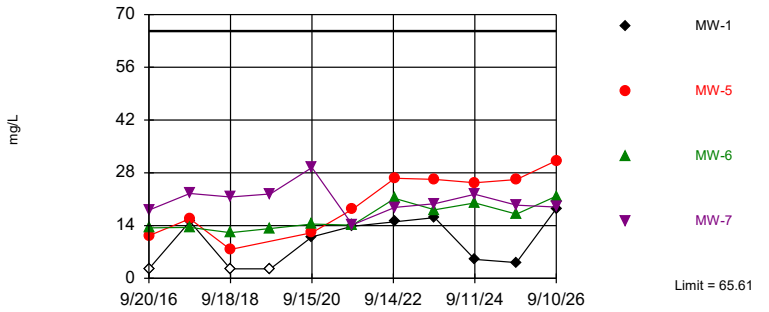
Constituent: Boron Analysis Run 10/26/2026 10:51 AM View: 2026_AWQR-Prediction_Limit
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

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Hollow symbols indicate censored values.

Within Limit

## Prediction Limit

Interwell Parametric




Background Data Summary (based on square root transformation): Mean=4.864, Std. Dev.=1.121, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.815, critical = 0.792. Report alpha = 0.0394. Individual comparison alpha = 0.01. Most recent point for each compliance well compared to limit.

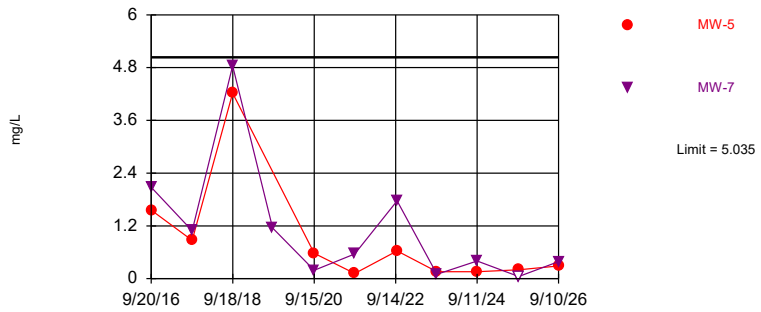
Constituent: Chloride Analysis Run 10/26/2026 10:51 AM View: 2026_AWQR-Prediction_Limit
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

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Hollow symbols indicate censored values.

Within Limit

## Prediction Limit

Interwell Parametric




Background Data Summary: Mean=1.604, Std. Dev.=1.189, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9302, critical = 0.792. Report alpha = 0.0394. Individual comparison alpha = 0.01. Based on user-set k of 4 (assumes 2 future values).

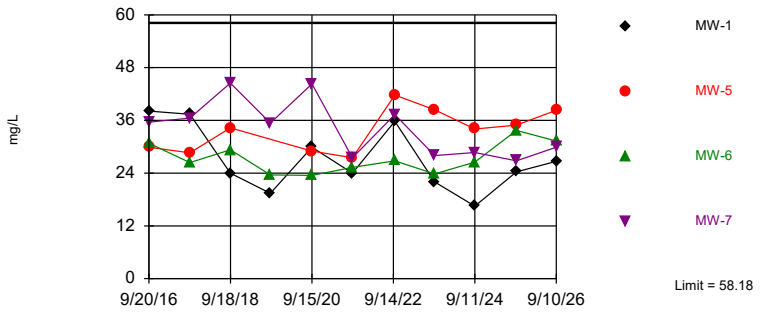
Constituent: Iron Analysis Run 10/26/2026 10:51 AM View: 2026_AWQR-Prediction_Limit
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA

Within Limit

## Prediction Limit

Interwell Parametric




Background Data Summary: Mean=31.25, Std. Dev.=9.328, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9582, critical = 0.792. Report alpha = 0.0394. Individual comparison alpha = 0.01. Most recent point for each compliance well compared to limit.

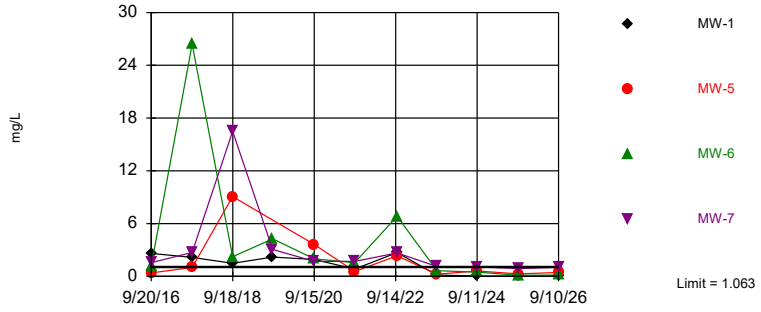
Constituent: Magnesium Analysis Run 10/26/2026 10:51 AM View: 2026_AWQR-Prediction_Limit
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA
Hollow symbols indicate censored values.

Within Limit

## Prediction Limit

Interwell Parametric




Background Data Summary (based on square root transformation): Mean=0.5549, Std. Dev.=0.165, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8296, critical = 0.792. Report alpha = 0.0394. Individual comparison alpha = 0.01. Most recent point for each compliance well compared to limit.

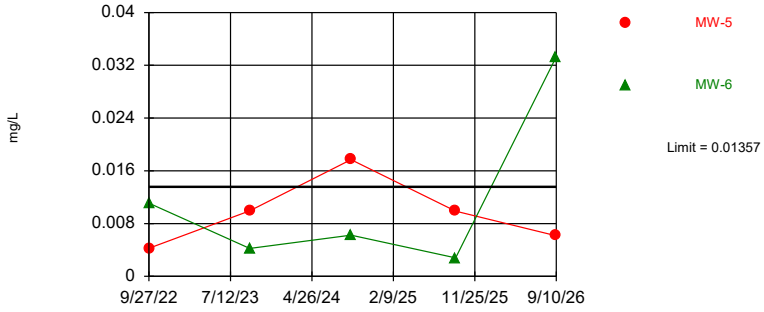
Constituent: Manganese Analysis Run 10/26/2026 10:51 AM View: 2026_AWQR-Prediction_Limit
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA

Exceeds Limit: MW-6

## Prediction Limit

Interwell Parametric




Background Data Summary: Mean=0.003644, Std. Dev.=0.002419, n=5. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7831, critical = 0.686. Report alpha = 0.0394. Individual comparison alpha = 0.01. Based on user-set k of 4 (assumes 2 future values).

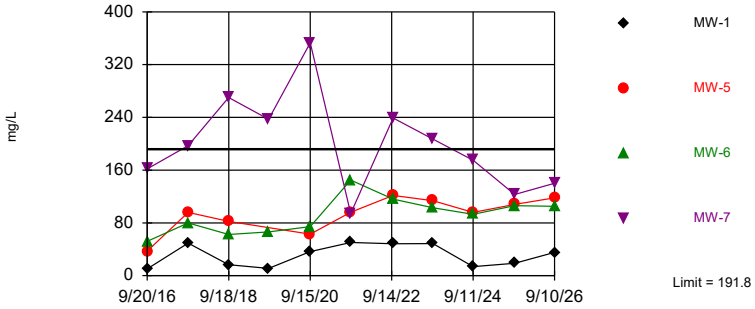
Constituent: Molybdenum Analysis Run 10/26/2026 10:51 AM View: 2026_AWQR-Prediction_Limit
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA

Within Limit

## Prediction Limit

Interwell Parametric




Background Data Summary (based on square root transformation): Mean=8.422, Std. Dev.=1.881, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8236, critical = 0.792. Report alpha = 0.0394. Individual comparison alpha = 0.01. Most recent point for each compliance well compared to limit.

Constituent: Sulfate Analysis Run 10/26/2026 10:51 AM View: 2026_AWQR-Prediction_Limit

Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: CBPCO HMSP

Attachment D

Trend Test (α=0.01)

# Trend Test

Wisdom Station CCR LF  Client: Corn Belt Power Cooperative  Data: Cornbelt_AM_2026_AWQR  Printed 10/26/2026, 11:42 AM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Alpha | Method |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic (mg/L) | MW-1 | -0.000109 | -17 | -21 | No | 8 | 25 | 0.01 | NP |
| Arsenic (mg/L) | MW-4 (bg) | -0.00009767 | -4 | -21 | No | 8 | 0 | 0.01 | NP |
| Arsenic (mg/L) | MW-5 | -0.000008753 | -13 | -21 | No | 8 | 25 | 0.01 | NP |
| **Arsenic (mg/L)** | **MW-6** | **-0.000859** | **-22** | **-21** | **Yes** | **8** | **0** | **0.01** | **NP** |
| Arsenic (mg/L) | MW-7 | -0.00003331 | -4 | -21 | No | 8 | 12.5 | 0.01 | NP |
| Barium (mg/L) | MW-1 | -0.01638 | -16 | -21 | No | 8 | 0 | 0.01 | NP |
| Barium (mg/L) | MW-4 (bg) | 0.006496 | 8 | 21 | No | 8 | 0 | 0.01 | NP |
| Barium (mg/L) | MW-5 | -0.03734 | -20 | -21 | No | 8 | 0 | 0.01 | NP |
| Barium (mg/L) | MW-6 | -0.04689 | -18 | -21 | No | 8 | 0 | 0.01 | NP |
| Barium (mg/L) | MW-7 | -0.04937 | -18 | -21 | No | 8 | 0 | 0.01 | NP |
| Boron (mg/L) | MW-1 | -0.05082 | -6 | -12 | No | 5 | 0 | 0.01 | NP |
| Boron (mg/L) | MW-4 (bg) | 0.0002931 | 0 | 12 | No | 5 | 20 | 0.01 | NP |
| Boron (mg/L) | MW-5 | -0.03975 | -8 | -12 | No | 5 | 0 | 0.01 | NP |
| Boron (mg/L) | MW-6 | 0.05274 | 4 | 12 | No | 5 | 20 | 0.01 | NP |
| Boron (mg/L) | MW-7 | -1.013 | -8 | -12 | No | 5 | 0 | 0.01 | NP |
| Cadmium (mg/L) | MW-1 | -0.00009745 | -15 | -21 | No | 8 | 37.5 | 0.01 | NP |
| Cadmium (mg/L) | MW-4 (bg) | 0.00001229 | 8 | 21 | No | 8 | 75 | 0.01 | NP |
| Cadmium (mg/L) | MW-5 | -0.00004502 | -9 | -21 | No | 8 | 50 | 0.01 | NP |
| Cadmium (mg/L) | MW-6 | -0.00006978 | -15 | -21 | No | 8 | 37.5 | 0.01 | NP |
| Cadmium (mg/L) | MW-7 | -0.00008832 | -19 | -21 | No | 8 | 37.5 | 0.01 | NP |
| Chloride (mg/L) | MW-1 | 1.033 | 10 | 21 | No | 8 | 12.5 | 0.01 | NP |
| Chloride (mg/L) | MW-4 (bg) | 1.993 | 18 | 21 | No | 8 | 0 | 0.01 | NP |
| Chloride (mg/L) | MW-5 | 2.874 | 18 | 21 | No | 8 | 0 | 0.01 | NP |
| Chloride (mg/L) | MW-6 | 1.218 | 16 | 21 | No | 8 | 0 | 0.01 | NP |
| Chloride (mg/L) | MW-7 | -0.4 | -6 | -21 | No | 8 | 0 | 0.01 | NP |
| Cobalt (mg/L) | MW-1 | -0.0008376 | -13 | -21 | No | 8 | 37.5 | 0.01 | NP |
| Cobalt (mg/L) | MW-4 (bg) | 0.00000957 | 3 | 21 | No | 8 | 37.5 | 0.01 | NP |
| Cobalt (mg/L) | MW-5 | -0.0001197 | -14 | -21 | No | 8 | 25 | 0.01 | NP |
| Cobalt (mg/L) | MW-6 | -0.0004116 | -18 | -21 | No | 8 | 12.5 | 0.01 | NP |
| Cobalt (mg/L) | MW-7 | -0.0005857 | -18 | -21 | No | 8 | 0 | 0.01 | NP |
| Copper (mg/L) | MW-1 | -0.001729 | -15 | -21 | No | 8 | 25 | 0.01 | NP |
| Copper (mg/L) | MW-4 (bg) | 0 | 5 | 21 | No | 8 | 75 | 0.01 | NP |
| Copper (mg/L) | MW-5 | -0.000912 | -21 | -21 | No | 8 | 50 | 0.01 | NP |
| **Copper (mg/L)** | **MW-7** | **-0.0009757** | **-22** | **-21** | **Yes** | **8** | **12.5** | **0.01** | **NP** |
| Iron (mg/L) | MW-1 | -1.097 | -19 | -21 | No | 8 | 25 | 0.01 | NP |
| Iron (mg/L) | MW-4 (bg) | -0.2721 | -12 | -21 | No | 8 | 0 | 0.01 | NP |
| Iron (mg/L) | MW-5 | -0.08082 | -5 | -21 | No | 8 | 0 | 0.01 | NP |
| **Iron (mg/L)** | **MW-6** | **-0.5298** | **-22** | **-21** | **Yes** | **8** | **12.5** | **0.01** | **NP** |
| Iron (mg/L) | MW-7 | -0.04372 | -10 | -21 | No | 8 | 12.5 | 0.01 | NP |
| Lead (mg/L) | MW-1 | -0.0003853 | -18 | -21 | No | 8 | 50 | 0.01 | NP |
| **Lead (mg/L)** | **MW-4 (bg)** | **-0.0002659** | **-23** | **-21** | **Yes** | **8** | **37.5** | **0.01** | **NP** |
| Lead (mg/L) | MW-6 | 0 | -1 | -21 | No | 8 | 75 | 0.01 | NP |
| Magnesium (mg/L) | MW-1 | 0.3076 | 2 | 21 | No | 8 | 0 | 0.01 | NP |
| Magnesium (mg/L) | MW-4 (bg) | 2.819 | 12 | 21 | No | 8 | 0 | 0.01 | NP |
| Magnesium (mg/L) | MW-5 | 0.8275 | 6 | 21 | No | 8 | 0 | 0.01 | NP |
| Magnesium (mg/L) | MW-6 | 1.169 | 18 | 21 | No | 8 | 0 | 0.01 | NP |
| Magnesium (mg/L) | MW-7 | -1.382 | -8 | -21 | No | 8 | 0 | 0.01 | NP |
| Manganese (mg/L) | MW-1 | -0.3144 | -20 | -21 | No | 8 | 12.5 | 0.01 | NP |
| Manganese (mg/L) | MW-4 (bg) | 0.03253 | 14 | 21 | No | 8 | 0 | 0.01 | NP |
| Manganese (mg/L) | MW-5 | -0.6535 | -16 | -21 | No | 8 | 0 | 0.01 | NP |

# Trend Test

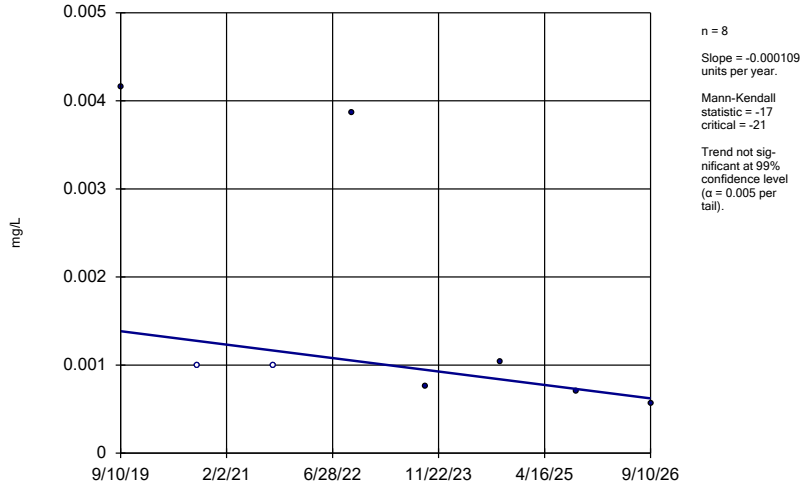
Wisdom Station CCR LF  Client: Corn Belt Power Cooperative  Data: Cornbelt_AM_2026_AWQR  Printed 10/26/2026, 11:42 AM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Alpha | Method |
|---|---|---|---|---|---|---|---|---|---|
| Manganese (mg/L) | MW-6 | -0.3734 | -20 | -21 | No | 8 | 0 | 0.01 | NP |
| **Manganese (mg/L)** | **MW-7** | **-0.1948** | **-22** | **-21** | **Yes** | **8** | **0** | **0.01** | **NP** |
| Molybdenum (mg/L) | MW-4 (bg) | 0.001376 | 10 | 12 | No | 5 | 0 | 0.01 | NP |
| Molybdenum (mg/L) | MW-5 | 0.0002276 | 0 | 12 | No | 5 | 0 | 0.01 | NP |
| Molybdenum (mg/L) | MW-6 | 0.0006605 | 0 | 12 | No | 5 | 0 | 0.01 | NP |
| Molybdenum (mg/L) | MW-7 | -0.01484 | -6 | -12 | No | 5 | 0 | 0.01 | NP |
| Selenium (mg/L) | MW-7 | -0.000335 | -10 | -21 | No | 8 | 62.5 | 0.01 | NP |
| Sulfate (mg/L) | MW-1 | 0.002012 | 0 | 21 | No | 8 | 0 | 0.01 | NP |
| Sulfate (mg/L) | MW-4 (bg) | 7.316 | 14 | 21 | No | 8 | 0 | 0.01 | NP |
| Sulfate (mg/L) | MW-5 | 4.535 | 12 | 21 | No | 8 | 0 | 0.01 | NP |
| Sulfate (mg/L) | MW-6 | 4.898 | 6 | 21 | No | 8 | 0 | 0.01 | NP |
| Sulfate (mg/L) | MW-7 | -23.76 | -12 | -21 | No | 8 | 0 | 0.01 | NP |
| Zinc (mg/L) | MW-1 | -0.00566 | -13 | -21 | No | 8 | 37.5 | 0.01 | NP |
| Zinc (mg/L) | MW-4 (bg) | -0.005015 | -4 | -21 | No | 8 | 12.5 | 0.01 | NP |
| Zinc (mg/L) | MW-5 | -0.01409 | -18 | -21 | No | 8 | 50 | 0.01 | NP |
| Zinc (mg/L) | MW-6 | -0.02706 | -19 | -21 | No | 8 | 25 | 0.01 | NP |
| Zinc (mg/L) | MW-7 | 0 | 0 | 21 | No | 8 | 62.5 | 0.01 | NP |

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-1




n = 8

Slope = -0.000109 units per year.

Mann-Kendall statistic = -17
critical = -21

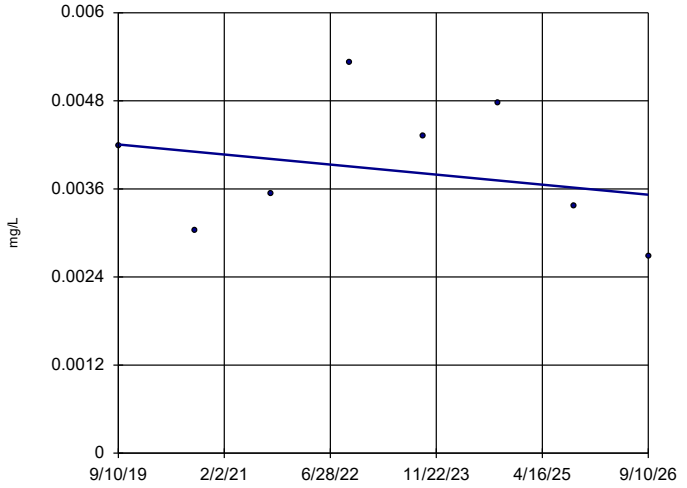
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 10/26/2026 11:38 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-4 (bg)




n = 8

Slope = -0.00009767 units per year.

Mann-Kendall statistic = -4
critical = -21

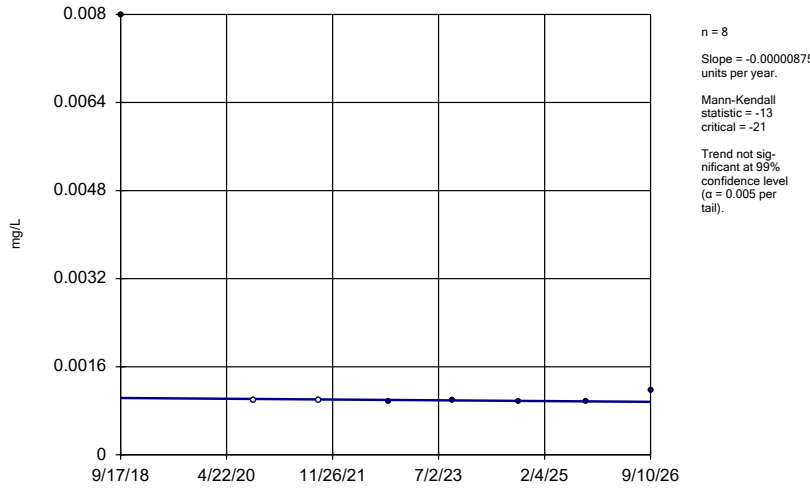
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 10/26/2026 11:38 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-5




n = 8

Slope = -0.000008753 units per year.

Mann-Kendall statistic = -13
critical = -21

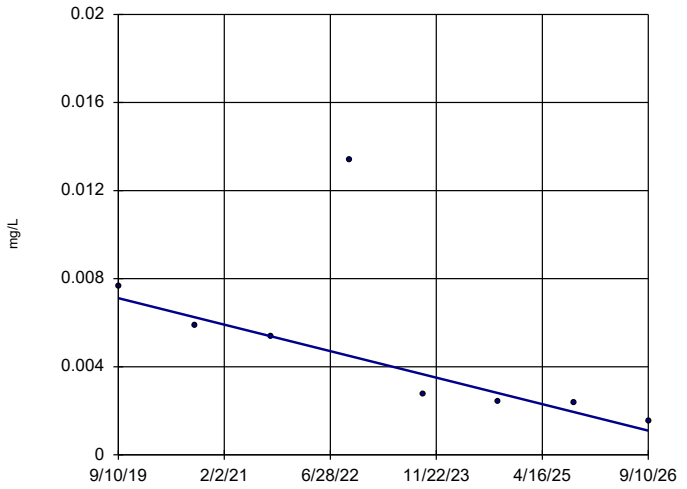
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 10/26/2026 11:38 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-6




n = 8

Slope = -0.000859 units per year.

Mann-Kendall statistic = -22
critical = -21

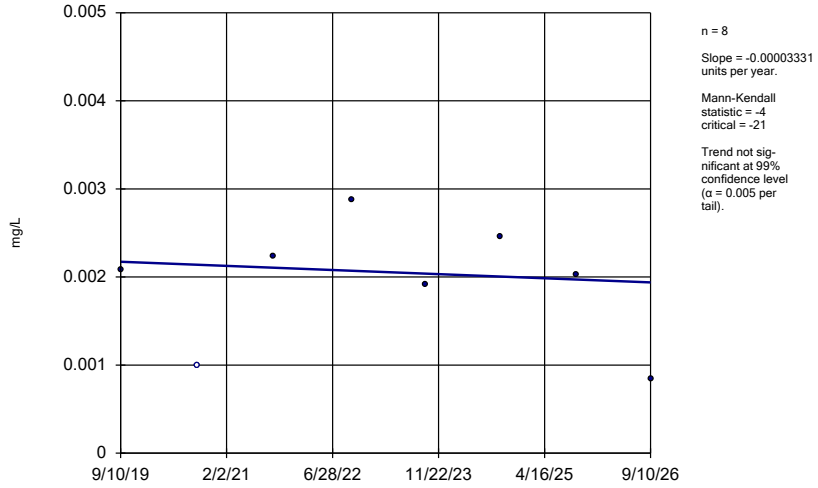
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 10/26/2026 11:38 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-7




n = 8

Slope = -0.00003331 units per year.

Mann-Kendall statistic = -4
critical = -21

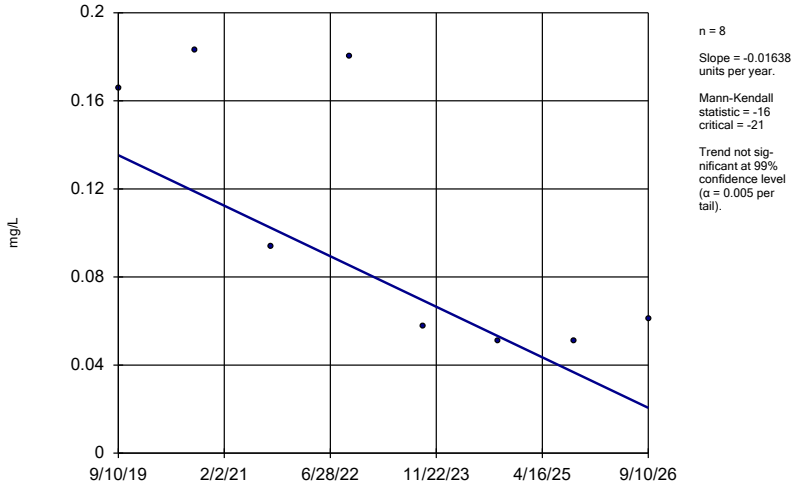
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 10/26/2026 11:38 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-1




n = 8

Slope = -0.01638 units per year.

Mann-Kendall statistic = -16
critical = -21

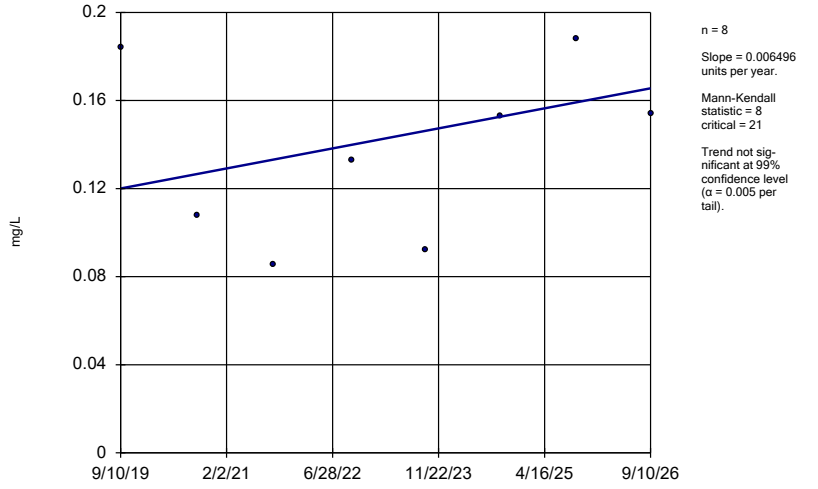
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 10/26/2026 11:38 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-4 (bg)




n = 8

Slope = 0.006496 units per year.

Mann-Kendall statistic = 8
critical = 21

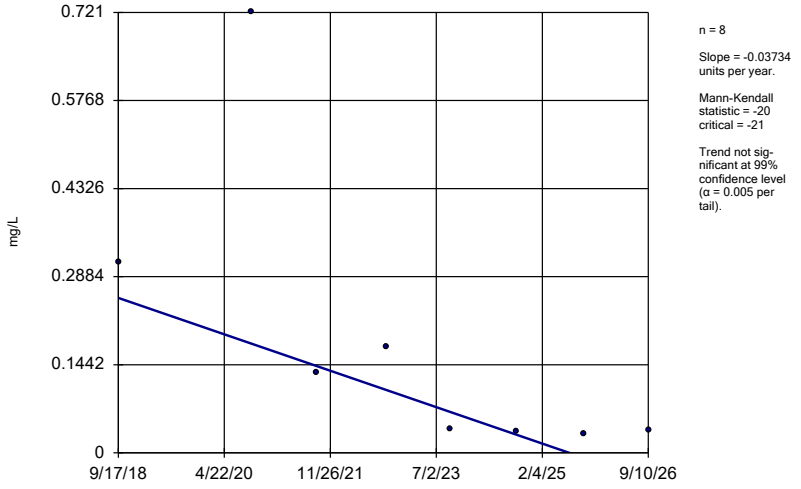
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 10/26/2026 11:38 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-5




n = 8

Slope = -0.03734 units per year.

Mann-Kendall statistic = -20
critical = -21

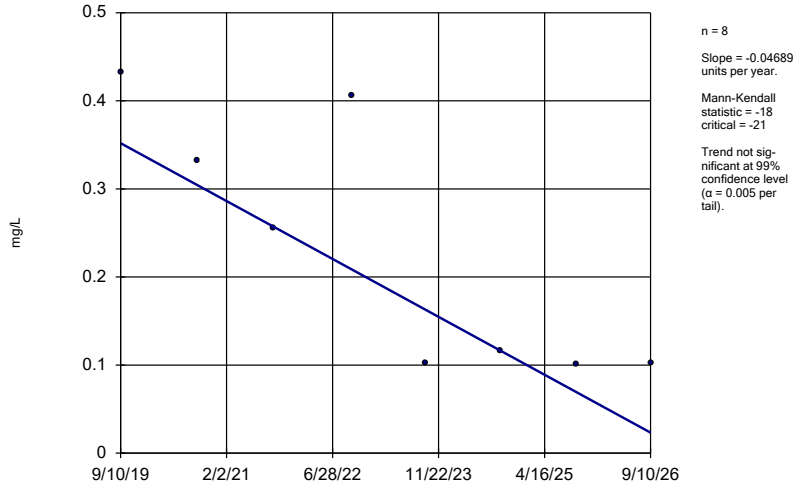
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-6




n = 8

Slope = -0.04689 units per year.

Mann-Kendall statistic = -18
critical = -21

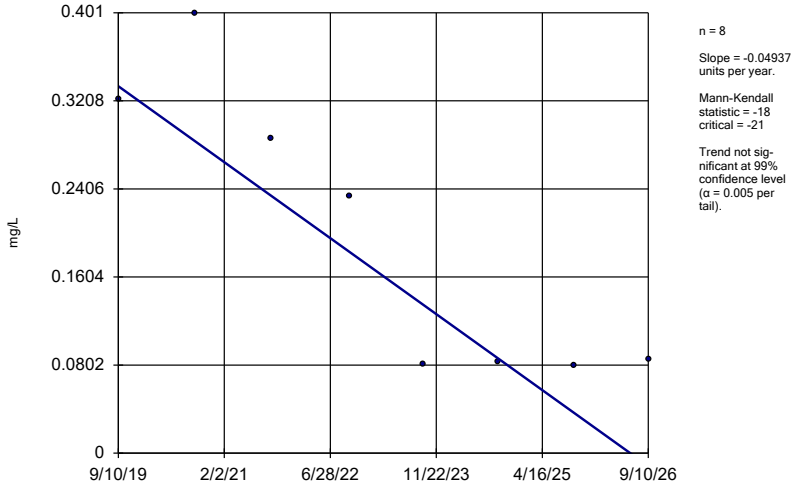
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-7




n = 8

Slope = -0.04937 units per year.

Mann-Kendall statistic = -18
critical = -21

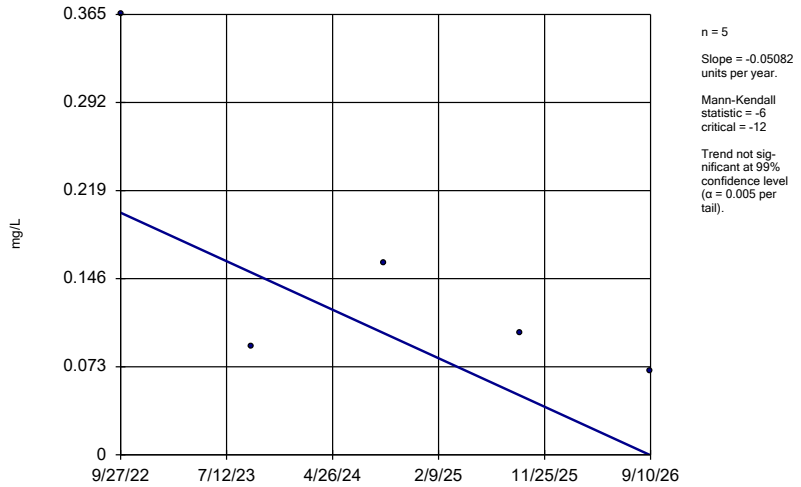
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-1




n = 5

Slope = -0.05082 units per year.

Mann-Kendall statistic = -6
critical = -12

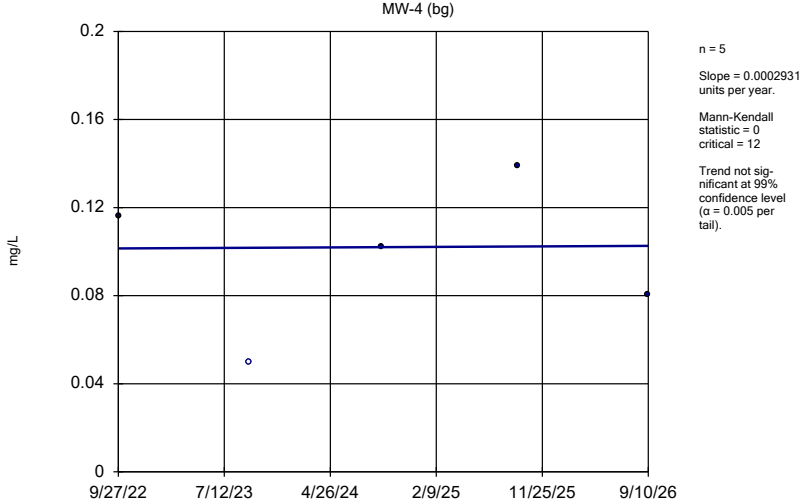
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-4 (bg)




n = 5

Slope = 0.0002931 units per year.

Mann-Kendall statistic = 0
critical = 12

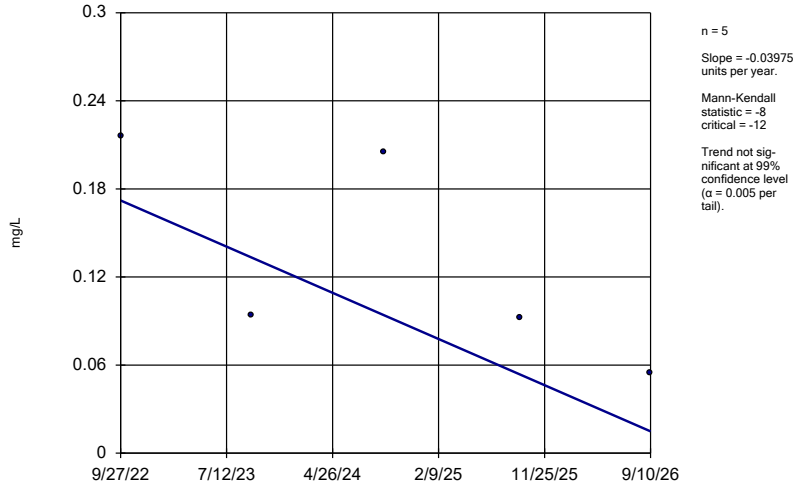
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-5




n = 5

Slope = -0.03975 units per year.

Mann-Kendall statistic = -8
critical = -12

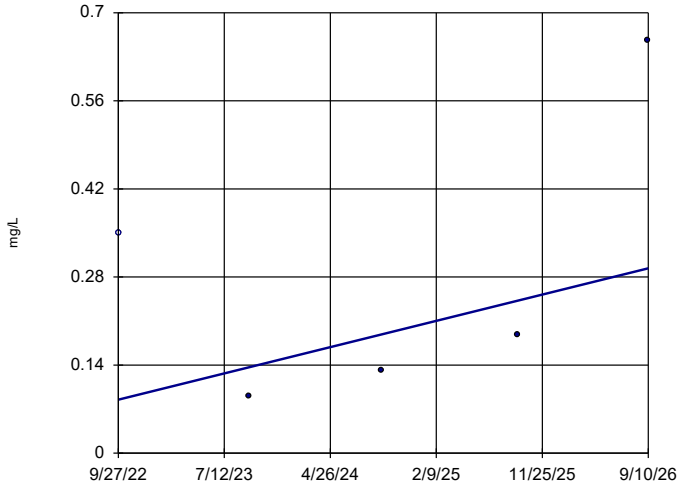
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-6




n = 5

Slope = 0.05274 units per year.

Mann-Kendall statistic = 4
critical = 12

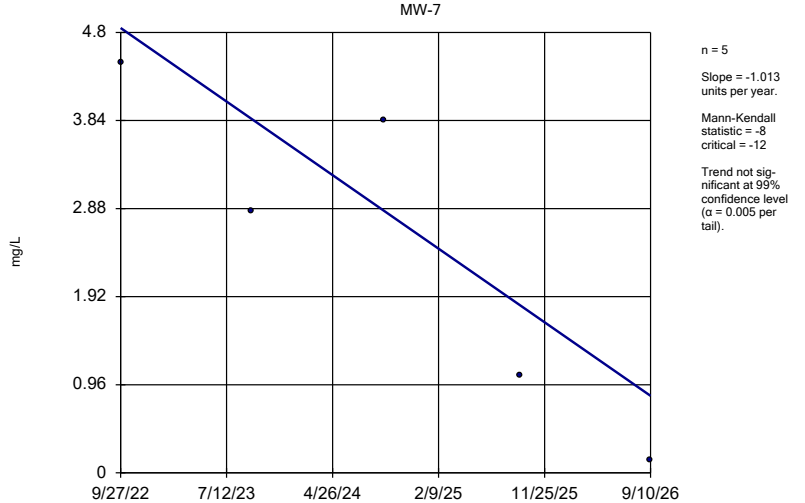
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-7




n = 5

Slope = -1.013 units per year.

Mann-Kendall statistic = -8
critical = -12

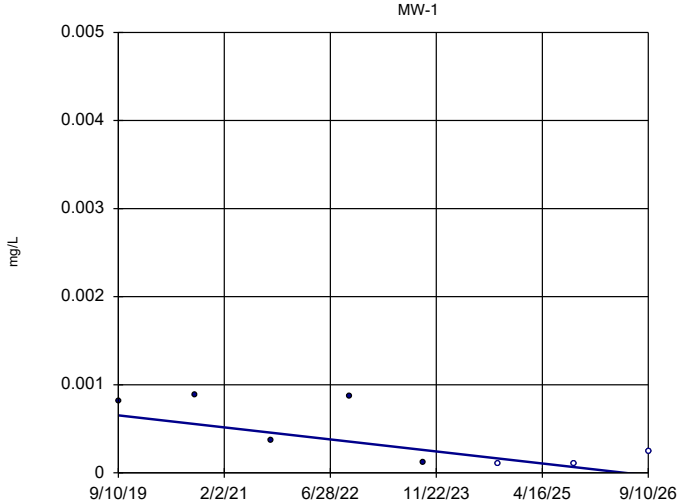
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-1




n = 8

Slope = -0.00009745 units per year.

Mann-Kendall statistic = -15
critical = -21

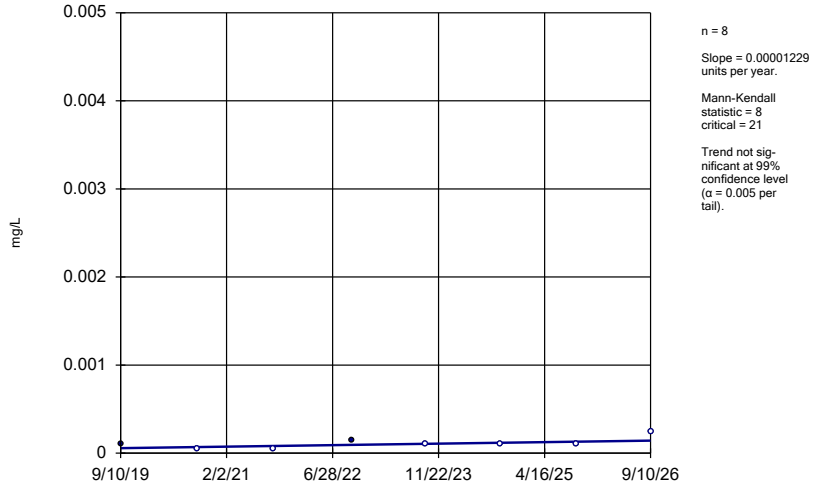
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA
Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-4 (bg)




n = 8

Slope = 0.00001229 units per year.

Mann-Kendall statistic = 8
critical = 21

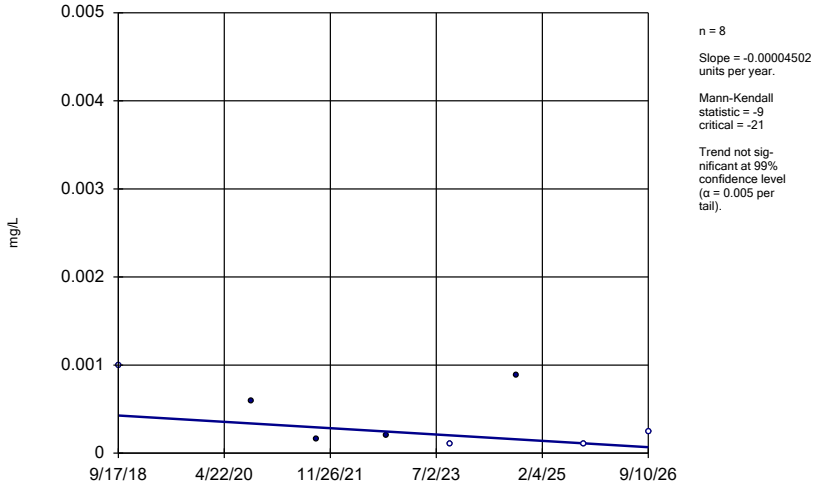
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-5




n = 8

Slope = -0.00004502 units per year.

Mann-Kendall statistic = -9
critical = -21

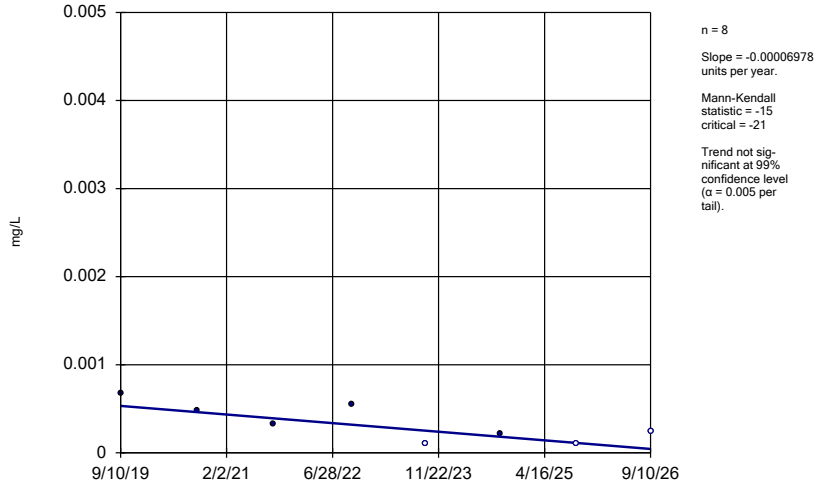
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-6




n = 8

Slope = -0.00006978 units per year.

Mann-Kendall statistic = -15
critical = -21

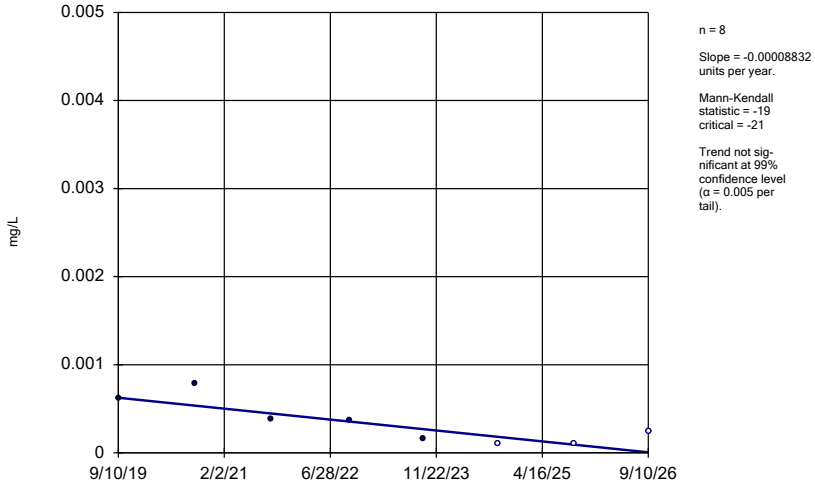
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-7




n = 8

Slope = -0.00008832 units per year.

Mann-Kendall statistic = -19
critical = -21

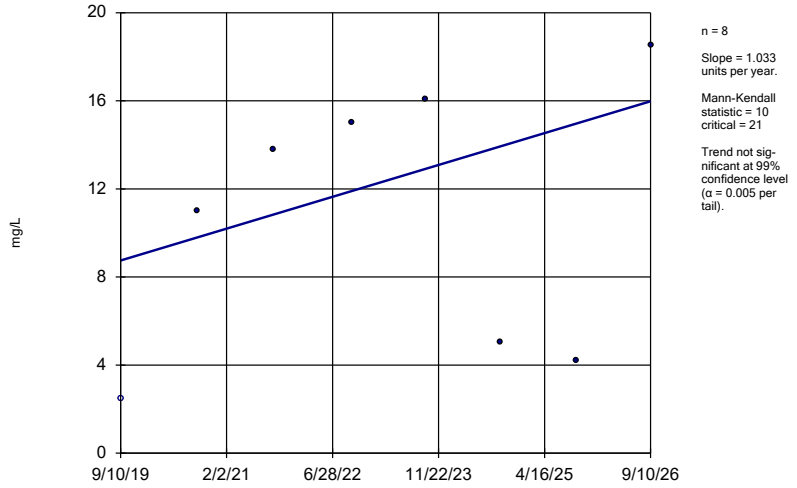
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-1




n = 8

Slope = 1.033 units per year.

Mann-Kendall statistic = 10 critical = 21

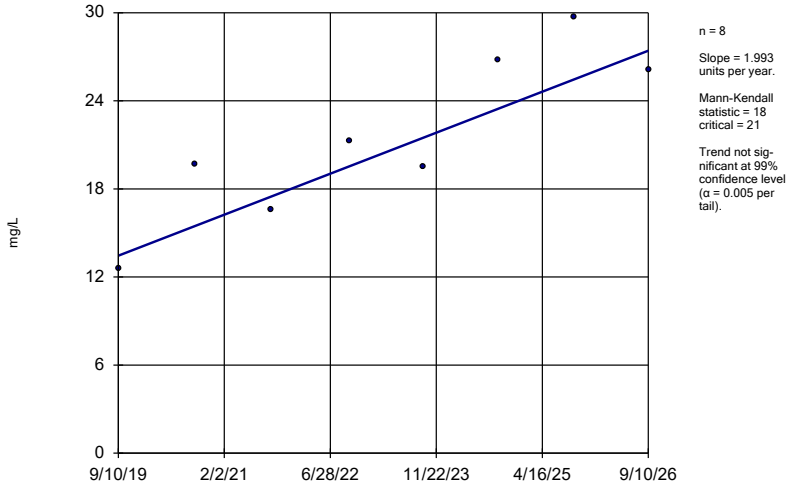
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-4 (bg)




n = 8

Slope = 1.993 units per year.

Mann-Kendall statistic = 18 critical = 21

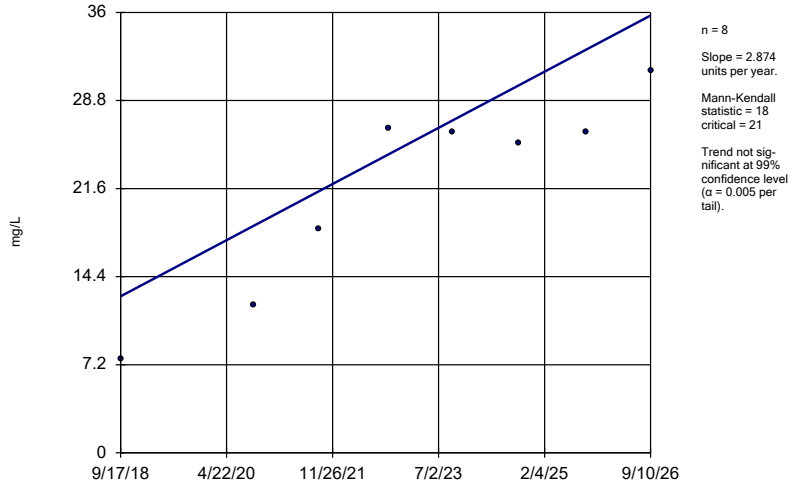
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-5




n = 8

Slope = 2.874 units per year.

Mann-Kendall statistic = 18 critical = 21

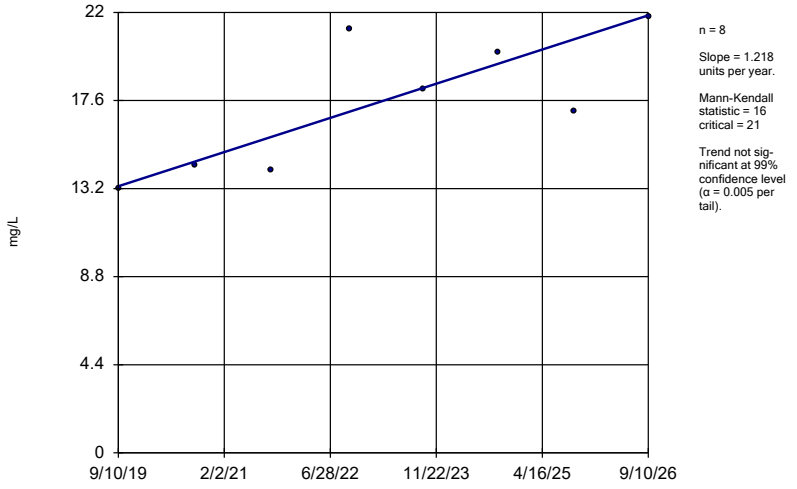
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-6




n = 8

Slope = 1.218 units per year.

Mann-Kendall statistic = 16 critical = 21

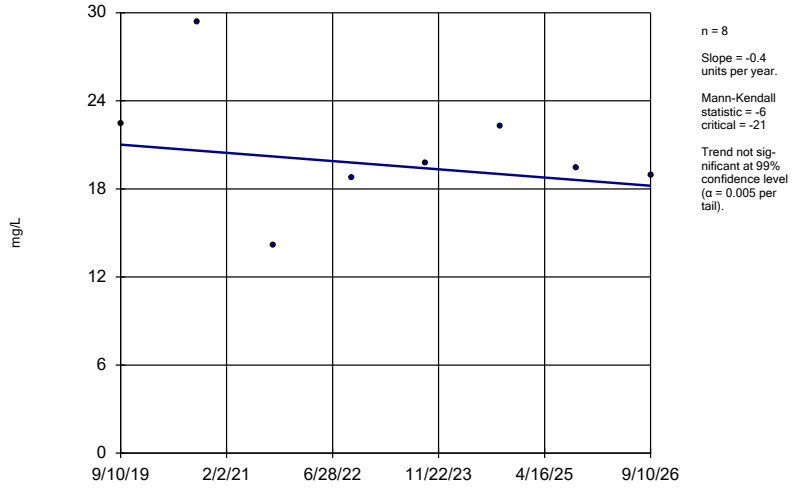
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-7




n = 8

Slope = -0.4 units per year.

Mann-Kendall statistic = -6 critical = -21

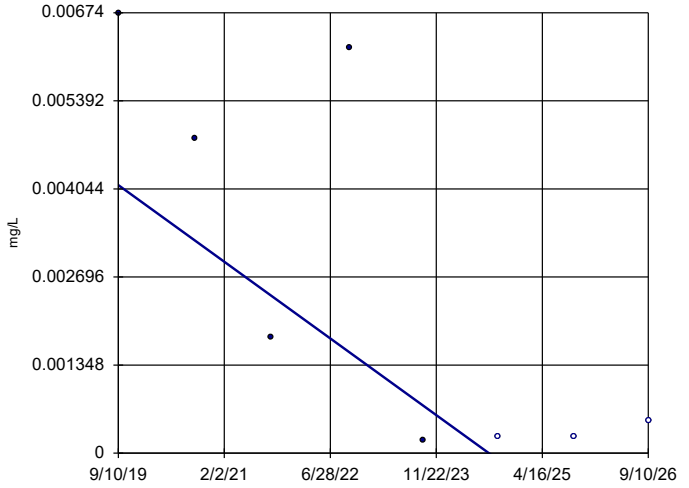
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-1




n = 8

Slope = -0.0008376 units per year.

Mann-Kendall statistic = -13 critical = -21

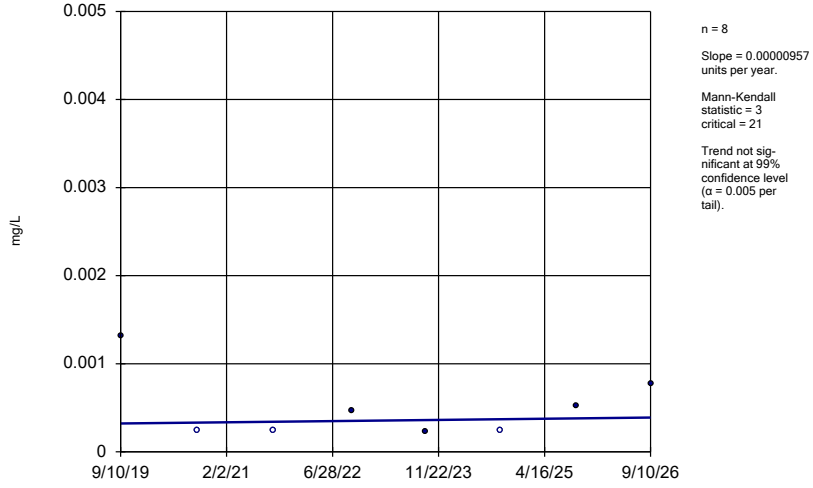
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-4 (bg)




n = 8

Slope = 0.00000957 units per year.

Mann-Kendall statistic = 3 critical = 21

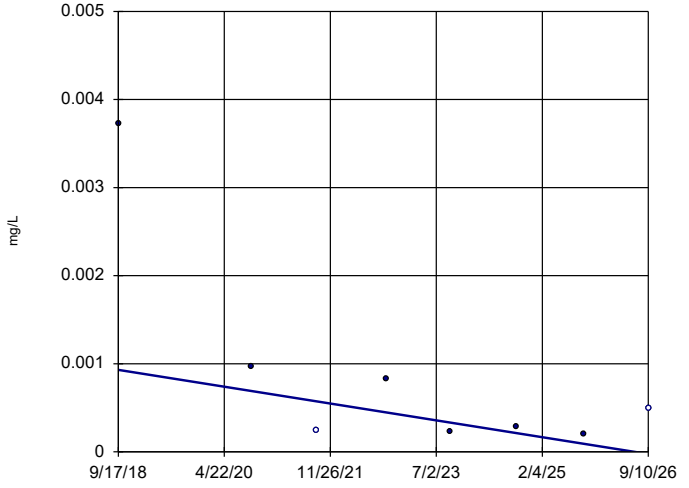
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-5




n = 8

Slope = -0.0001197 units per year.

Mann-Kendall statistic = -14 critical = -21

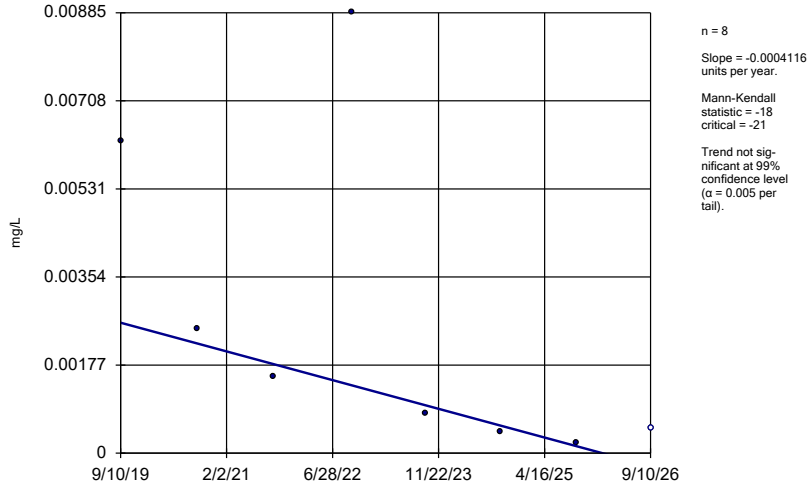
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA
Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-6




n = 8

Slope = -0.0004116 units per year.

Mann-Kendall statistic = -18
critical = -21

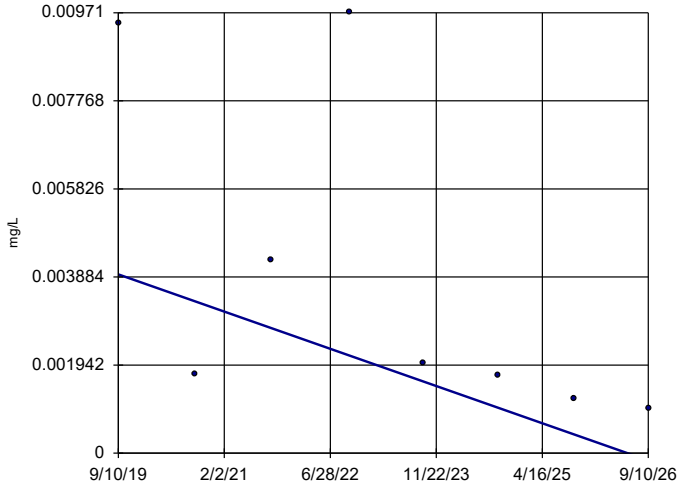
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-7




n = 8

Slope = -0.0005857 units per year.

Mann-Kendall statistic = -18
critical = -21

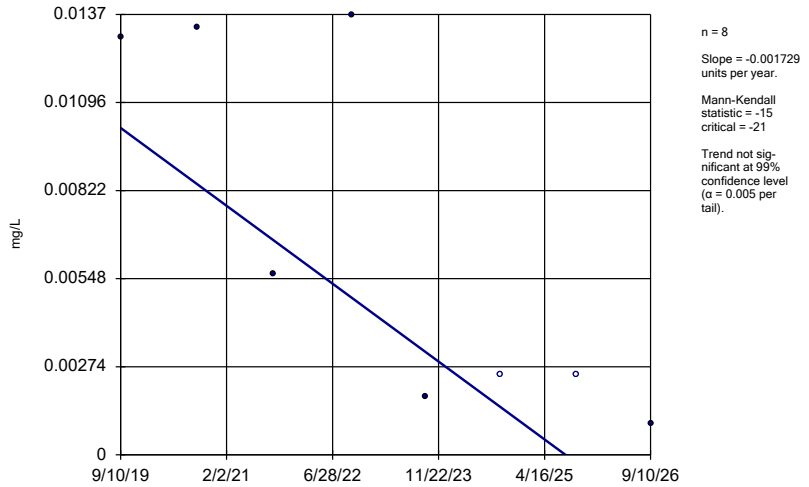
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-1




n = 8

Slope = -0.001729 units per year.

Mann-Kendall statistic = -15
critical = -21

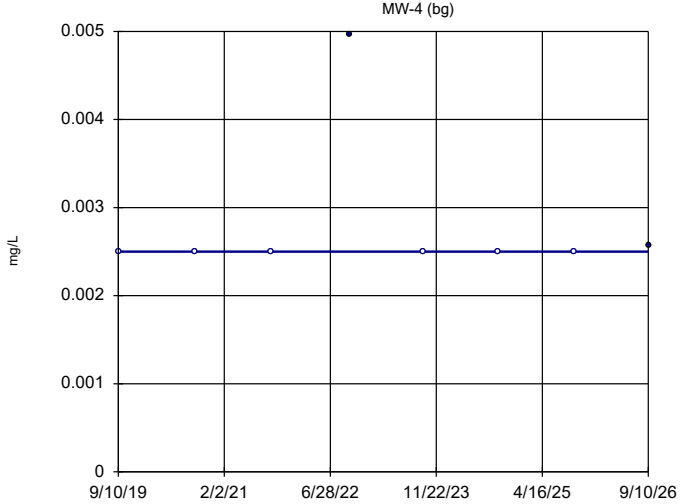
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Copper Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA
Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-4 (bg)




n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 5
critical = 21

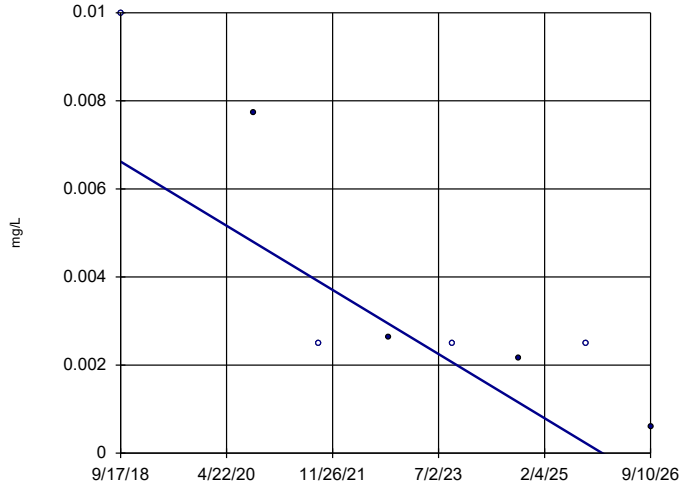
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Copper Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA
Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-5




n = 8

Slope = -0.000912 units per year.

Mann-Kendall statistic = -21
critical = -21

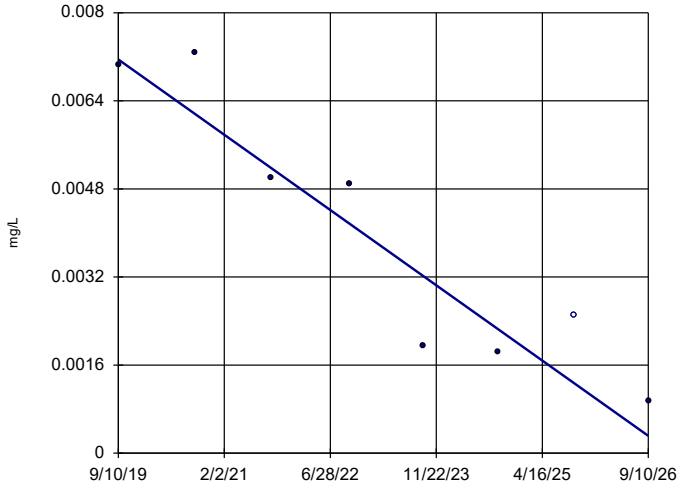
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Copper Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-7




n = 8

Slope = -0.0009757 units per year.

Mann-Kendall statistic = -22
critical = -21

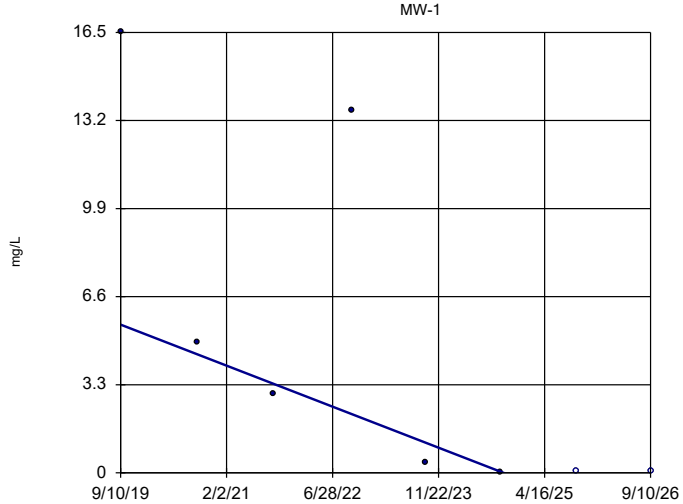
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Copper Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-1




n = 8

Slope = -1.097 units per year.

Mann-Kendall statistic = -19
critical = -21

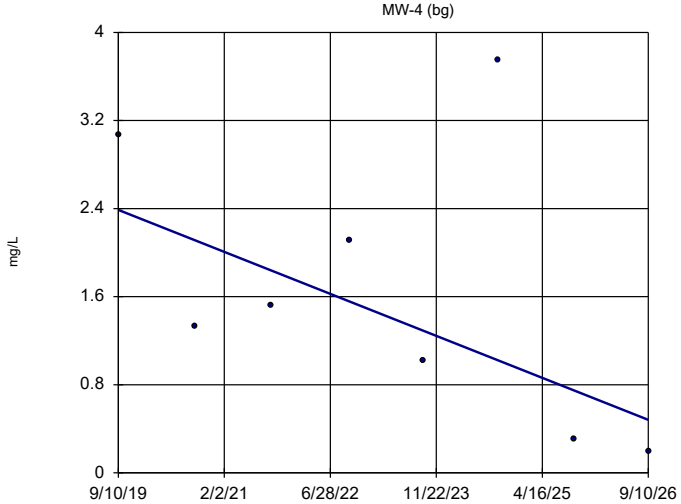
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Iron Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-4 (bg)




n = 8

Slope = -0.2721 units per year.

Mann-Kendall statistic = -12
critical = -21

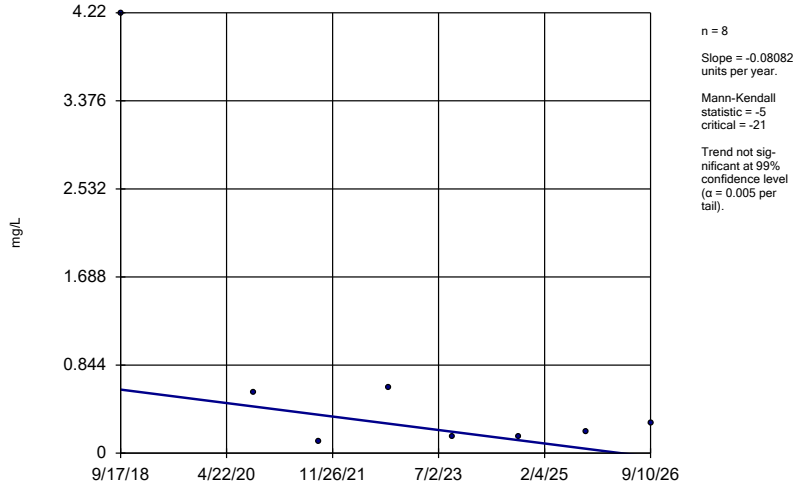
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Iron Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-5




n = 8

Slope = -0.08082 units per year.

Mann-Kendall statistic = -5 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Iron Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall

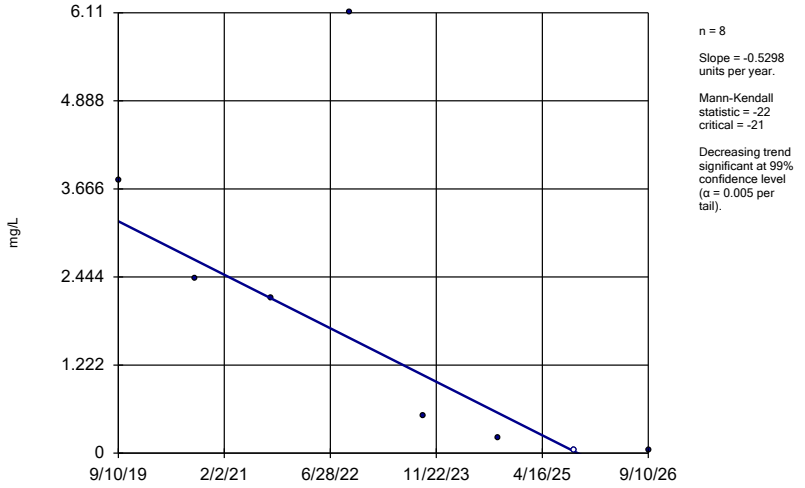
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA

Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-6




n = 8

Slope = -0.5298 units per year.

Mann-Kendall statistic = -22 critical = -21

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Iron Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall

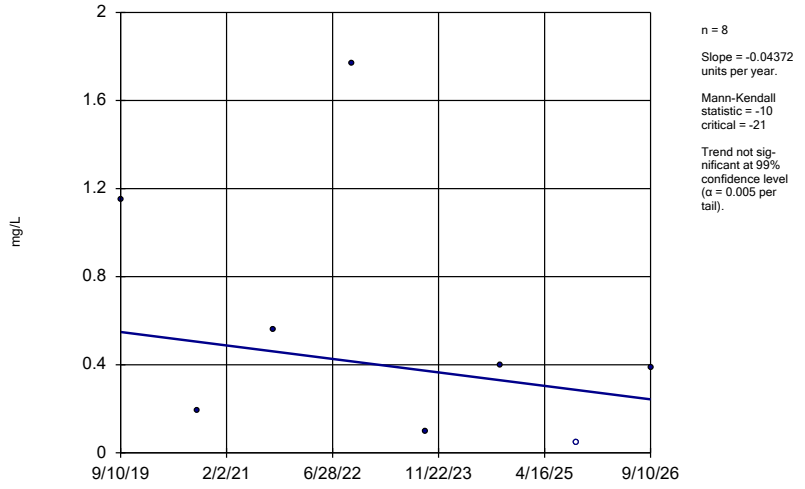
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-7




n = 8

Slope = -0.04372 units per year.

Mann-Kendall statistic = -10 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Iron Analysis Run 10/26/2026 11:39 AM View: 2026AWQR-MannKendall

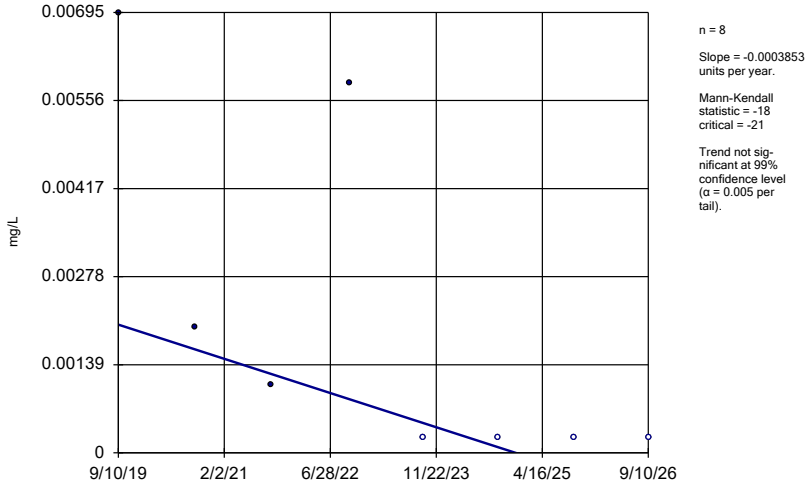
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

Sanitas™ v.10.1.08 Software licensed to SCS Engineers. EPA

Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-1




n = 8

Slope = -0.0003853 units per year.

Mann-Kendall statistic = -18 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

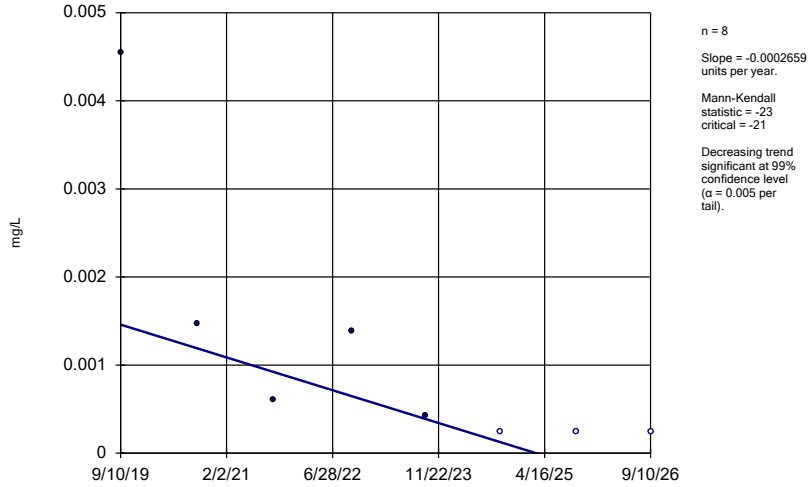
Constituent: Lead Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall

Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-4 (bg)




n = 8

Slope = -0.0002659 units per year.

Mann-Kendall statistic = -23
critical = -21

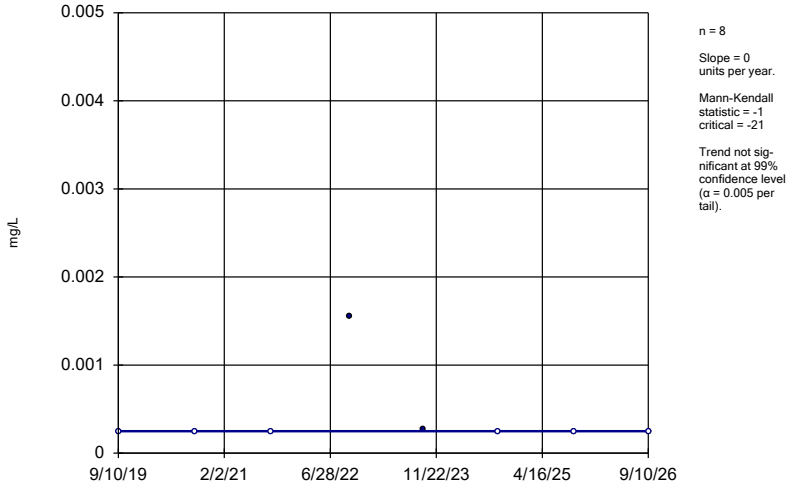
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-6




n = 8

Slope = 0 units per year.

Mann-Kendall statistic = -1
critical = -21

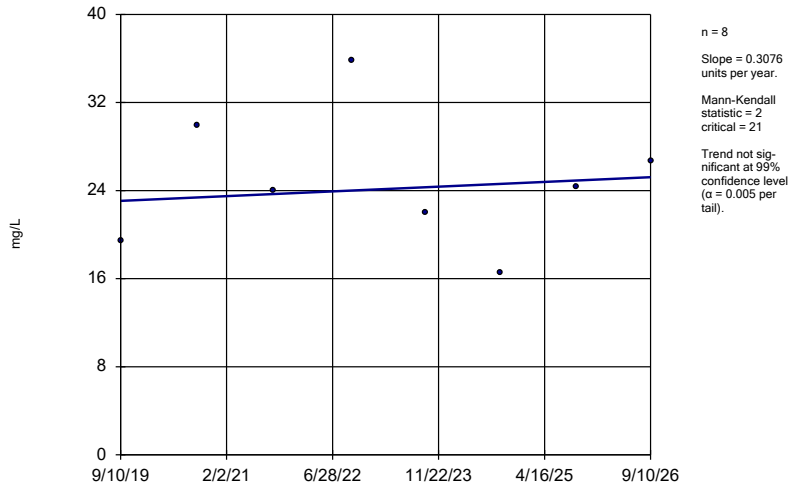
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-1




n = 8

Slope = 0.3076 units per year.

Mann-Kendall statistic = 2
critical = 21

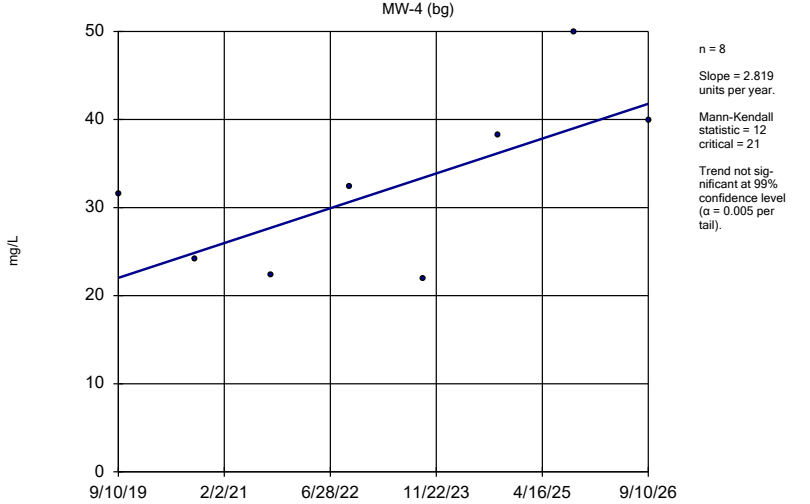
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Magnesium Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-4 (bg)




n = 8

Slope = 2.819 units per year.

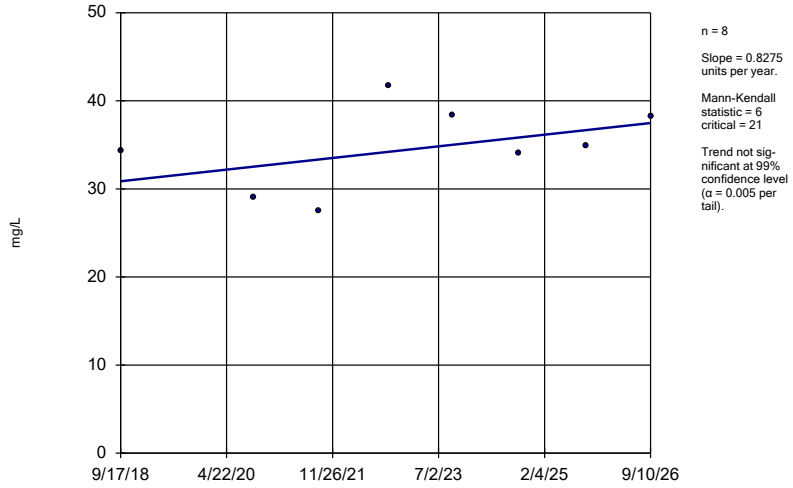
Mann-Kendall statistic = 12
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Magnesium Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

## Sen's Slope Estimator

MW-5




n = 8

Slope = 0.8275 units per year.

Mann-Kendall statistic = 6 critical = 21

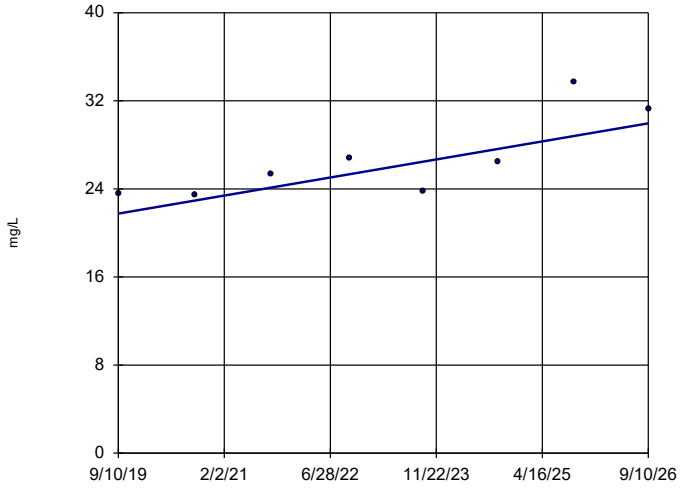
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Magnesium Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-6




n = 8

Slope = 1.169 units per year.

Mann-Kendall statistic = 18 critical = 21

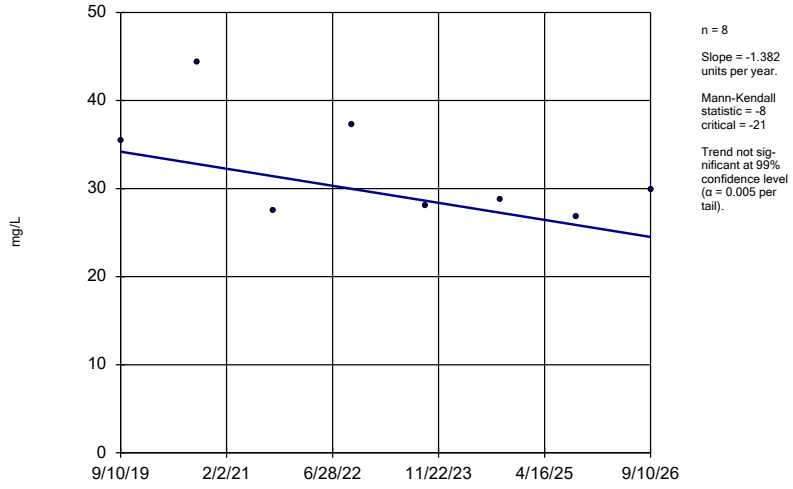
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Magnesium Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-7




n = 8

Slope = -1.382 units per year.

Mann-Kendall statistic = -8 critical = -21

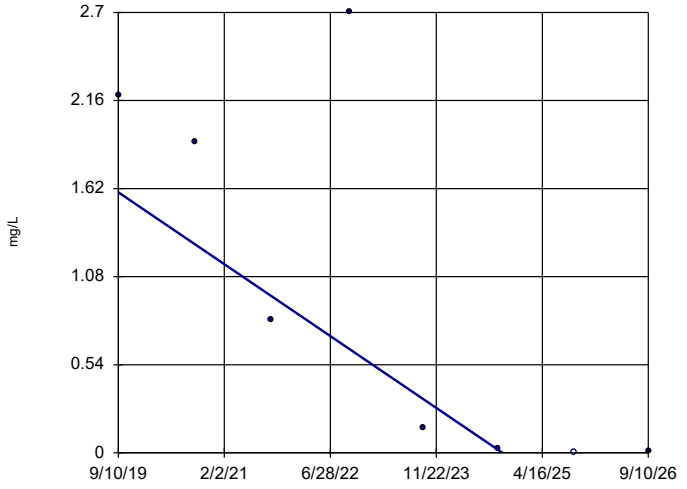
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Magnesium Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-1




n = 8

Slope = -0.3144 units per year.

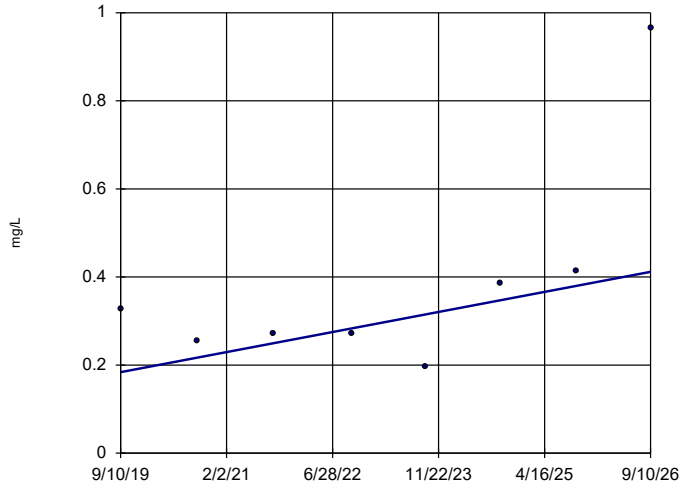
Mann-Kendall statistic = -20 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Manganese Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

## Sen's Slope Estimator

MW-4 (bg)




n = 8

Slope = 0.03253 units per year.

Mann-Kendall statistic = 14 critical = 21

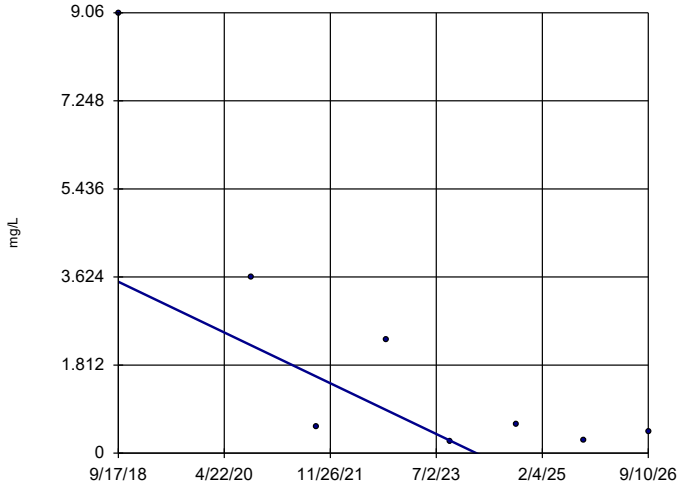
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Manganese Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-5




n = 8

Slope = -0.6535 units per year.

Mann-Kendall statistic = -16 critical = -21

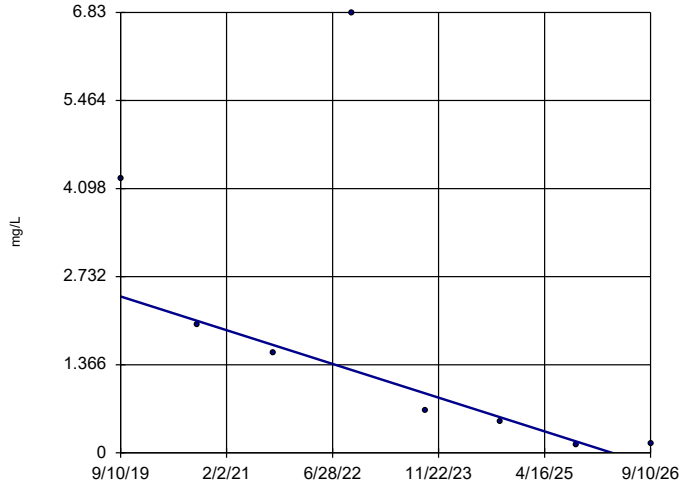
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Manganese Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-6




n = 8

Slope = -0.3734 units per year.

Mann-Kendall statistic = -20 critical = -21

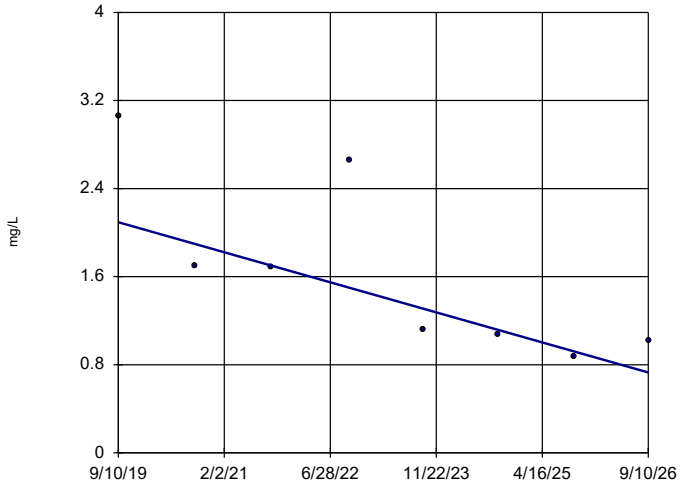
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Manganese Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-7




n = 8

Slope = -0.1948 units per year.

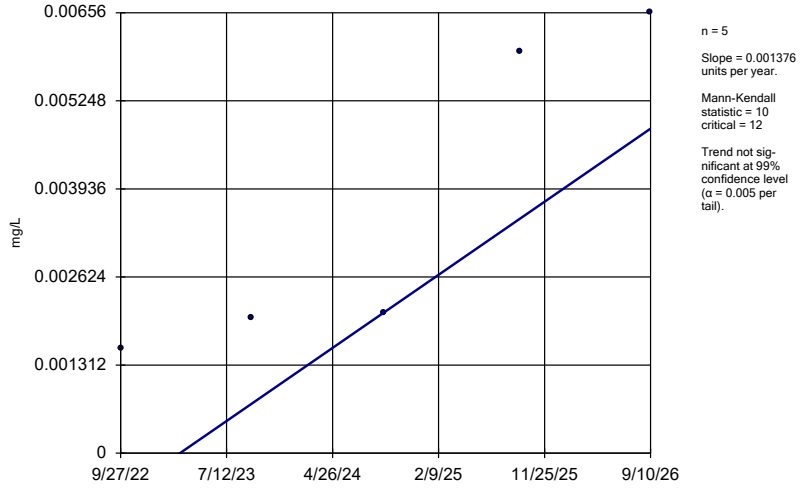
Mann-Kendall statistic = -22 critical = -21

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Manganese Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

## Sen's Slope Estimator

MW-4 (bg)




n = 5

Slope = 0.001376 units per year.

Mann-Kendall statistic = 10 critical = 12

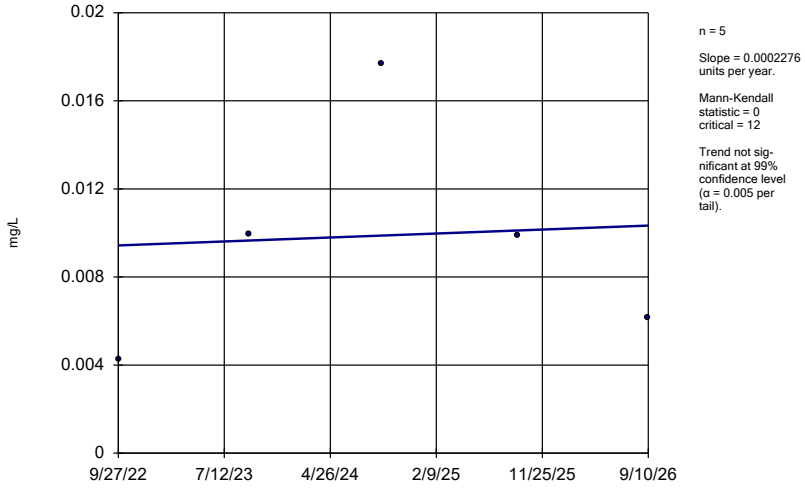
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Molybdenum Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-5




n = 5

Slope = 0.0002276 units per year.

Mann-Kendall statistic = 0 critical = 12

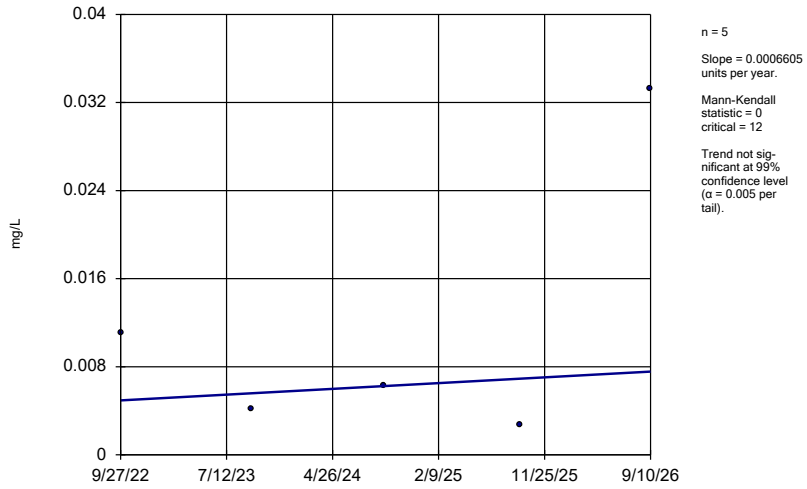
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Molybdenum Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-6




n = 5

Slope = 0.0006605 units per year.

Mann-Kendall statistic = 0 critical = 12

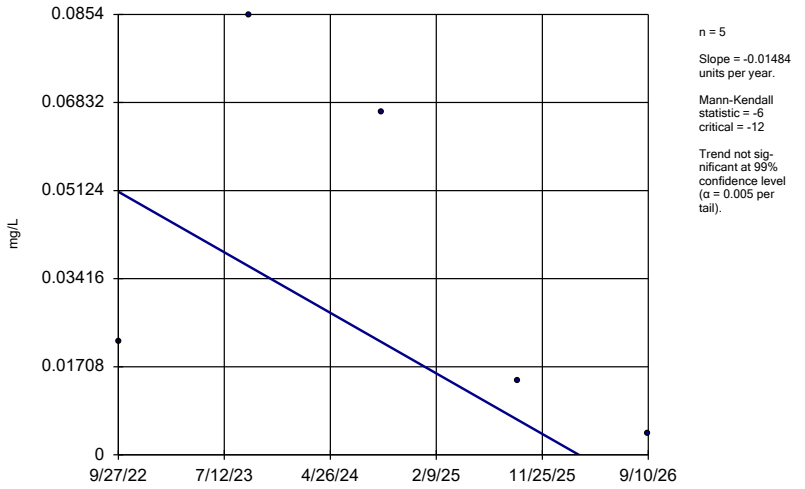
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Molybdenum Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-7




n = 5

Slope = -0.01484 units per year.

Mann-Kendall statistic = -6 critical = -12

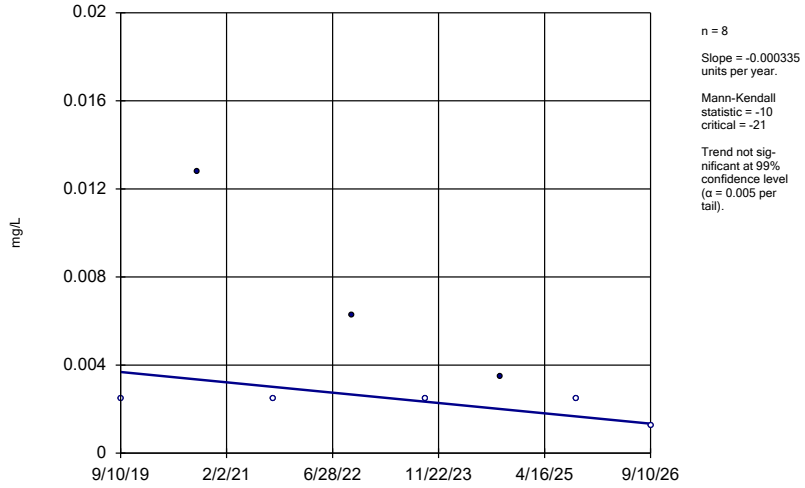
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Molybdenum Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-7




n = 8

Slope = -0.000335 units per year.

Mann-Kendall statistic = -10
critical = -21

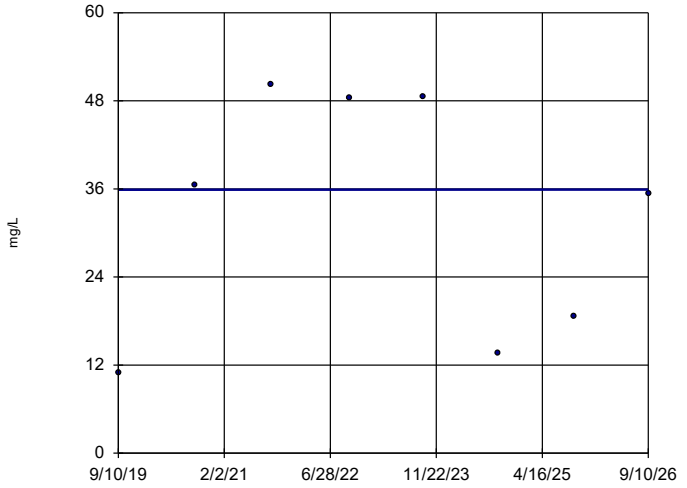
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-1




n = 8

Slope = 0.002012 units per year.

Mann-Kendall statistic = 0
critical = 21

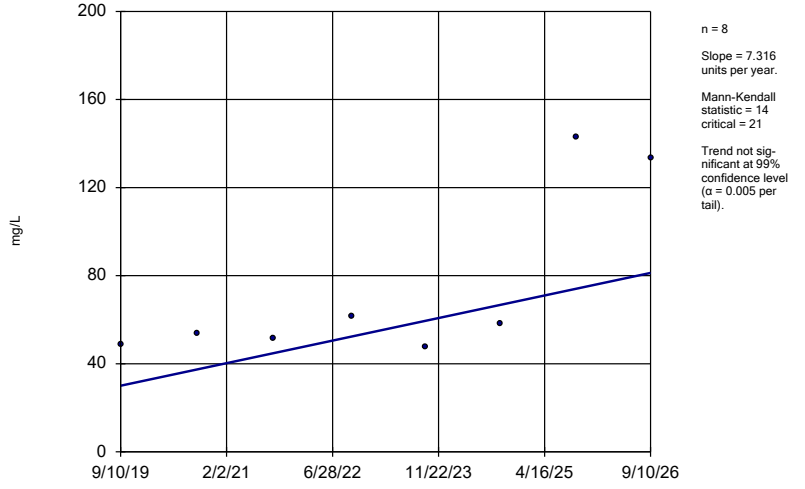
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-4 (bg)




n = 8

Slope = 7.316 units per year.

Mann-Kendall statistic = 14
critical = 21

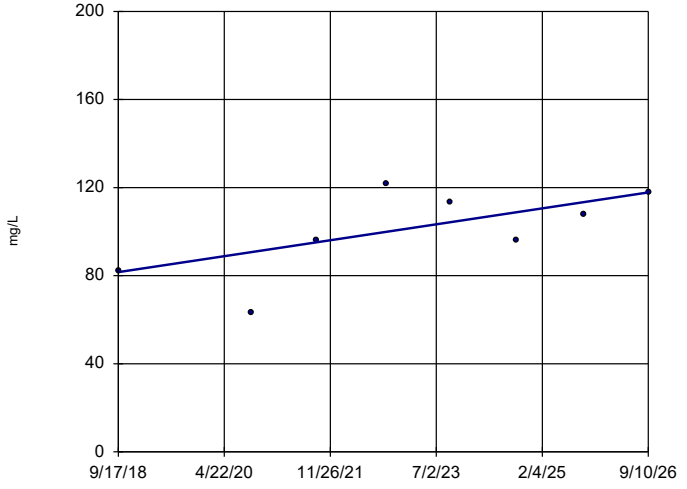
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-5




n = 8

Slope = 4.535 units per year.

Mann-Kendall statistic = 12
critical = 21

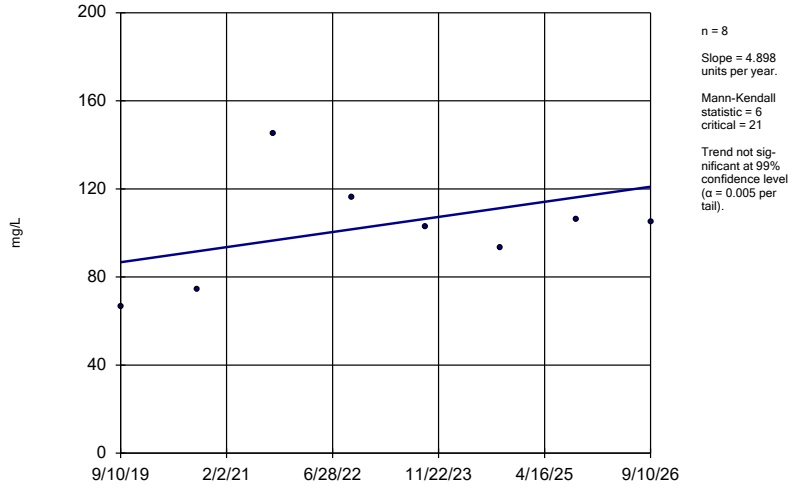
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-6




n = 8

Slope = 4.898 units per year.

Mann-Kendall statistic = 6 critical = 21

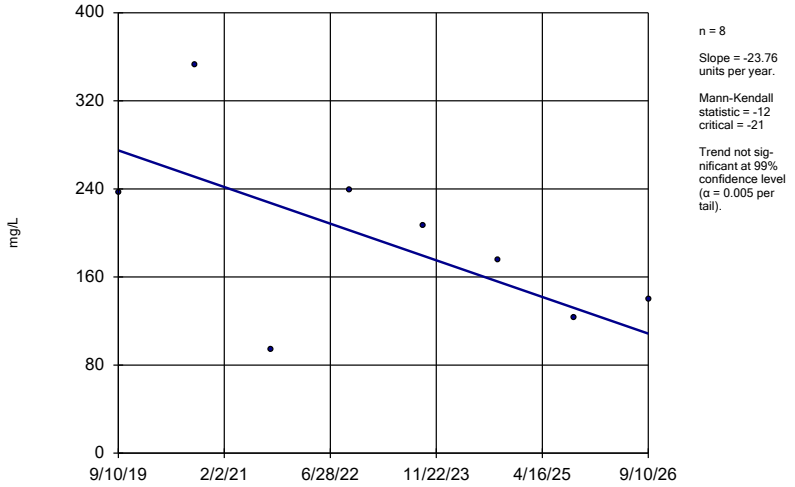
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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## Sen's Slope Estimator

MW-7




n = 8

Slope = -23.76 units per year.

Mann-Kendall statistic = -12 critical = -21

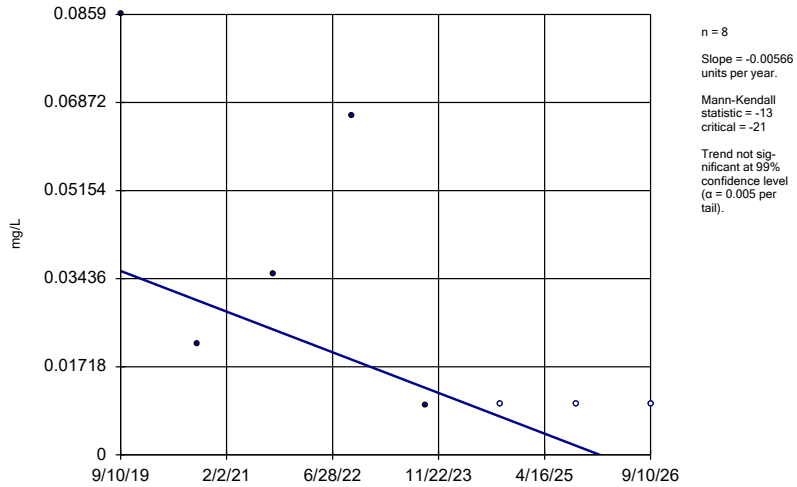
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-1




n = 8

Slope = -0.00566 units per year.

Mann-Kendall statistic = -13 critical = -21

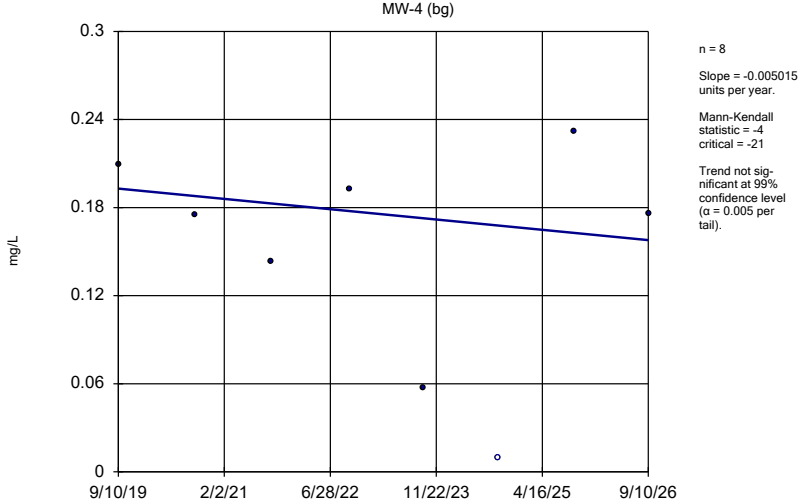
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Zinc Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-4 (bg)




n = 8

Slope = -0.005015 units per year.

Mann-Kendall statistic = -4 critical = -21

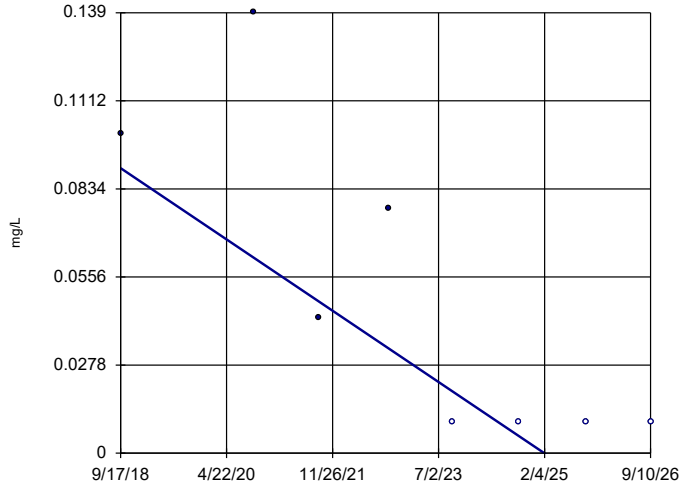
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Zinc Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-5




n = 8

Slope = -0.01409 units per year.

Mann-Kendall statistic = -18
critical = -21

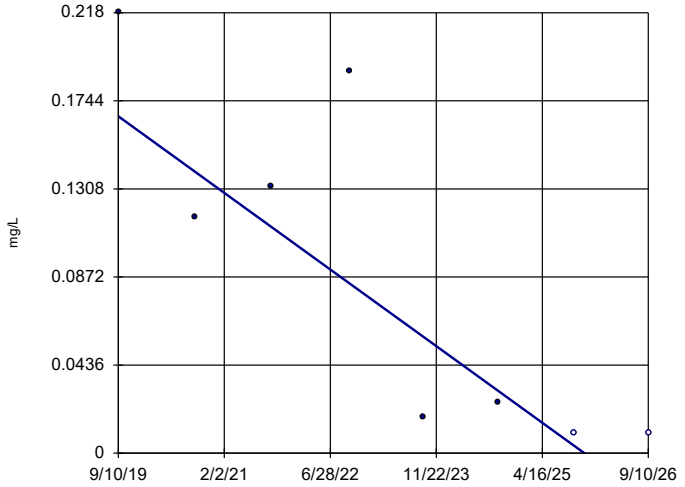
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Zinc Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-6




n = 8

Slope = -0.02706 units per year.

Mann-Kendall statistic = -19
critical = -21

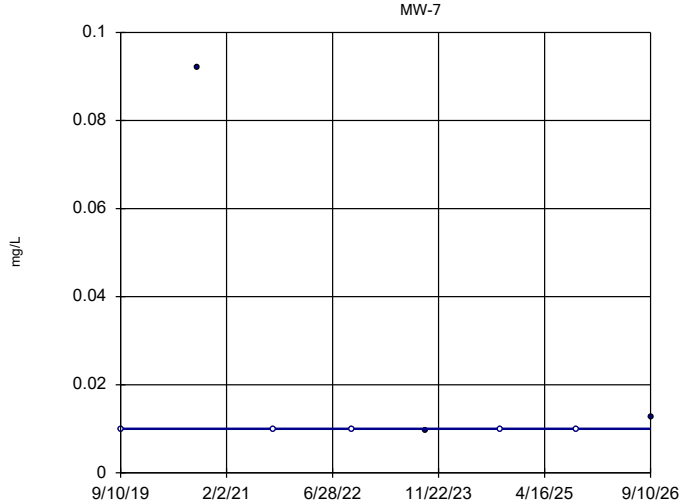
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Zinc Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

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Hollow symbols indicate censored values.

## Sen's Slope Estimator

MW-7




n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Zinc Analysis Run 10/26/2026 11:40 AM View: 2026AWQR-MannKendall
Wisdom Station CCR LF Client: Corn Belt Power Cooperative Data: Cornbelt_AM_2026_AWQR

# Appendix E

# Mann-Kendall Trend Table

| Monitoring Well | Constituent Name | Calculated Statistic | | |
|---|---|---|---|---|
| | | Decreasing Trend | Stable Trend | Increasing Trend |
| MW-1 | Arsenic | -17 | | |
| | Barium | -16 | | |
| | Boron | | -6 | |
| | Cadmium | -15 | | |
| | Chloride | | 10 | |
| | Cobalt | -13 | | |
| | Copper | -15 | | |
| | Iron | -19 | | |
| | Lead | -18 | | |
| | Magnesium | | 2 | |
| | Manganese | -20 | | |
| | Sulfate | | 0 | |
| | Zinc | -13 | | |
| MW-4 | Arsenic | | -4 | |
| | Barium | | 8 | |
| | Boron | | 0 | |
| | Cadmium | | 8 | |
| | Chloride | | | 18 |
| | Cobalt | | 3 | |
| | Copper | | 5 | |
| | Iron | | -12 | |
| | Lead | -23 | | |
| | Magnesium | | 12 | |
| | Manganese | | | 14 |
| | Molybdenum | | | 10 |
| | Sulfate | | | 14 |
| | Zinc | | -4 | |
| MW-5 | Arsenic | -13 | | |
| | Barium | -20 | | |
| | Boron | -8 | | |
| | Cadmium | | -9 | |
| | Chloride | | | 18 |
| | Cobalt | -14 | | |
| | Copper | -21 | | |
| | Iron | | -5 | |
| | Magnesium | | 6 | |
| | Manganese | -16 | | |
| | Molybdenum | | 0 | |
| | Sulfate | | 12 | |
| | Zinc | -18 | | |
| MW-6 | Arsenic | -22 | | |
| | Barium | -18 | | |
| | Boron | | 4 | |
| | Cadmium | -15 | | |
| | Chloride | | | 16 |
| | Cobalt | -18 | | |
| | Iron | -22 | | |
| | Lead | | -1 | |
| | Magnesium | | | 18 |
| | Manganese | -20 | | |
| | Molybdenum | | 0 | |
| | Sulfate | | 6 | |
| | Zinc | -19 | | |

| Monitoring Well | Constituent Name | Calculated Statistic | | |
|---|---|---|---|---|
| | | Decreasing Trend | Stable Trend | Increasing Trend |
| MW-7 | Arsenic | | -4 | |
| | Barium | -18 | | |
| | Boron | -8 | | |
| | Cadmium | -19 | | |
| | Chloride | | -6 | |
| | Cobalt | -18 | | |
| | Copper | -22 | | |
| | Iron | | -10 | |
| | Magnesium | | -8 | |
| | Manganese | -22 | | |
| | Molybdenum | | -6 | |
| | Selenium | | -10 | |
| | Sulfate | | -12 | |
| | Zinc | | 0 | |