2025 Annual Groundwater Monitoring and Corrective Action Report

Prairie Creek Generating Station
Cedar Rapids, Iowa

Prepared for:

Alliant Energy

SCS ENGINEERS

25225074.00 | January 30, 2026

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OVERVIEW OF CURRENT STATUS

Prairie Creek Generating Station (PCS)
2025 Annual Report

In accordance with §257.90(e)(6), this section at the beginning of the annual report provides an overview of the current status of groundwater monitoring and corrective action programs for the coal combustion residual (CCR) unit. The groundwater monitoring system at PCS monitors the closure area for 10 former CCR units. Supporting information is provided in the text of the annual report.

Category	Rule Requirement	Site Status
Monitoring Status – Start of Year	(i) At the start of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in §257.95;	Assessment
Monitoring Status – End of Year	(ii) At the end of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in §257.95;	Assessment
Statistically Significant Increases (SSIs)	(iii) If it was determined that there was a statistically significant increase over background for one or more constituents listed in Appendix III to this part pursuant to §257.94(e):	

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Category	Rule Requirement	Site Status
SSIs (cont.)	(A) Identify those constituents listed in Appendix III to this part and the names of the monitoring wells associated with such an increase; and	SSIs initially determined on January 15, 2018, based on October 2017 monitoring results. In 2025, SSIs for semiannual events for compliance wells at the waste boundary included the following; see **Table 5A** and **5B** for complete results. <u>October 2024</u> Boron: MW-303, MW-304, MW-305, MW-306, MW-307, MW-308 Field pH: MW-307, MW-308 Sulfate: MW-304, MW-305, MW-306, MW-308 Total Dissolved Solids: MW-305 <u>April 2025</u> Boron: MW-303, MW-304, MW-305, MW-306, MW-307, MW-308 Field pH: MW-306, MW-307, MW-308 Sulfate: MW-303, MW-304, MW-305, MW-306, MW-308
	(B) Provide the date when the assessment monitoring program was initiated for the CCR unit.	July 16, 2018
Statistically Significant Levels (SSLs) Above Groundwater Protection Standard (GPS)	(iv) If it was determined that there was a SSL above the GPS for one or more constituents listed in Appendix IV to this part pursuant to §257.95(g) include all of the following:	
	(A) Identify those constituents listed in Appendix IV to this part and the names of the monitoring wells associated with such an increase;	Arsenic: Initially determined to be at SSLs above GPS on January 14, 2019, at MW-303, MW-304, and MW-305. In 2025, concentrations determined to be at SSLs above the GPS at compliance wells as follows: <u>October 2024</u> MW-303, MW-304, MW-308

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Category	Rule Requirement	Site Status
SSLs Above GPS (cont.)		April 2025 MW-303, MW-304, MW-308 Molybdenum: Initially determined to be at SSLs above GPS on January 14, 2019, at MW-306. In 2025, concentrations determined to be at SSLs above the GPS at compliance wells as follows: October 2024 MW-306 April 2025 MW-306 Lithium: Initially determined to be at SSLs above the GPS on February 12, 2025. In 2025, concentrations determined to be at SSLs above the GPS at compliance wells as follows: October 2024 MW-308 April 2025: none
	(B) Provide the date when the assessment of corrective measures was initiated for the CCR unit;	April 15, 2019
	(C) Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit; and	Selection of remedy in progress. A public meeting date has not been set.
	(D) Provide the date when the assessment of corrective measures was completed for the CCR unit.	September 12, 2019 – Original ACM August 9, 2021 – Addendum No. 1 to ACM
Selection of Remedy	(v) Whether a remedy was selected pursuant to §257.97 during the current annual reporting period, and if so, the date of remedy selection; and	Selection of remedy is in progress.

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Category	Rule Requirement	Site Status
Corrective Action	(vi) Whether remedial activities were initiated or are ongoing pursuant to §257.98 during the current annual reporting period.	Not applicable – Selection of remedy is in progress.

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1.0 INTRODUCTION

This 2025 Annual Groundwater Monitoring and Corrective Action Report was prepared to support compliance with the groundwater monitoring requirements of the Coal Combustion Residuals (CCR) Rule [40 CFR 257.50-107]. Specifically, this report was prepared to fulfill the requirements of 40 CFR 257.90(e). The applicable sections of the Rule are provided below in *italics*, followed by applicable information relative to the 2025 Annual Groundwater Monitoring and Corrective Action Report for the CCR Units. The Prairie Creek Generating Station (PCS) site location is shown on Figure 1.

This report covers the period of groundwater monitoring from January 1, 2025, through December 31, 2025.

The groundwater monitoring system at PCS monitors the closure area for 10 former CCR units. All CCR units at PCS were closed in 2018. CCR was consolidated and capped in accordance with §257.102(d), and closure certification was completed in December 2018.

The monitoring system is designed to detect monitored constituents at the waste boundary of the facility as required by 40 CFR 257.91(d). The groundwater monitoring system currently consists of two upgradient background wells, six downgradient compliance monitoring wells at the waste boundary, two supplemental background wells, and five downgradient delineation wells installed to characterize site conditions and evaluate the nature and extent of groundwater impacts (Figure 2 and Table 1). An additional upgradient monitoring well was installed to monitor water level only.

2.0 BACKGROUND

To provide context for the annual report, the following background information is provided in this section of the report, prior to the annual report requirement sections:

- Geologic and hydrogeologic setting
- CCR Rule monitoring system

2.1 GEOLOGIC AND HYDROGEOLOGIC SETTING

2.1.1 Regional Information

The geologic formation beneath PCS that meets the definition of the "uppermost aquifer," as defined by section 257.53 of the CCR Rule, is the surficial alluvial aquifer. A summary of regional hydrogeologic units in east-central Iowa is provided in Appendix A. The alluvial aquifer comprises Cedar River valley sand, gravel, silt, and clay deposits. This deposit is present along the Cedar River valley and is used for municipal supply by the City of Cedar Rapids, approximately 4.5 miles upstream of PCS. A map of the regional surficial aquifers in east-central Iowa is included in Appendix A.

The alluvial aquifer is underlain by Devonian and Silurian limestone and dolomite bedrock. A bedrock geology map and cross sections of the area are provided in Appendix A. The Devonian and Silurian bedrock are also aquifer units and are likely hydraulically connected to the alluvial aquifer above. The Silurian limestone is several hundred feet thick at the site and is underlain by an Ordovician confining unit.

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2.1.2 Site Information

Monitoring wells MW-301 through MW-310 were installed to intersect the surficial alluvium aquifer at the site. The unconsolidated materials at these well locations are generally sand and silt with minor clay and gravel. The total boring depths were between 15.5 and 30.5 feet and bedrock was not encountered in any monitoring well boring. Boring logs and well construction forms for MW-301 through MW-310 are included in **Appendix B**.

Assessment piezometers MW-301A, MW-306A, MW-309A, and MW-310A were installed in June and July 2020. Unconsolidated materials were also observed in the deeper piezometer borings, and bedrock was not encountered. The boring for upgradient piezometer MW-301A encountered a thick lean clay layer and the well is screened within the clay. The other three piezometers are screened in sandy materials. The total boring depths were between 45 and 60 feet. Boring logs and well construction forms for the four deeper piezometers are included in **Appendix B**.

Sidegradient supplemental background monitoring well MW-312 and groundwater elevation-only well MW-311 were installed in May 2022. The unconsolidated materials at these well locations are generally sand and silt. Wells are screened predominantly in sand. Total boring depths are 16 to 20 feet. Boring logs and well construction forms for MW-311 and MW-312 are included in **Appendix B**.

The sampling event summary and groundwater elevation data for the CCR monitoring wells are included in **Tables 2** and **3**. Water table elevations and groundwater flow patterns for the April and October 2025 monitoring events are shown on **Figures 3** and **4**, respectively. Both water table maps show groundwater flow moving north toward Prairie Creek, which is a tributary of the Cedar River.

Estimated horizontal gradients and flow velocities are provided in **Table 4A**. Vertical hydraulic gradients for the well nests are provided in **Table 4B**. For both the April and October events, the vertical gradients indicate downward flow for well pairs MW-301/MW-301A and MW-309/MW-309A, and upward flow at well pairs MW-306/MW-306A and MW-310/MW-310A.

2.2 CCR RULE MONITORING SYSTEM

The current groundwater monitoring system established in accordance with the CCR Rule consists of two upgradient (background) monitoring wells, six downgradient compliance monitoring wells, two supplemental background monitoring wells, and five additional downgradient monitoring wells and piezometers to assist with the assessment monitoring and selection of remedy process. The background wells are MW-301 and MW-302, and the six downgradient wells at the waste boundary include MW-303, MW-304, MW-305, MW-306, MW-307, and MW-308. An additional monitoring well, MW-311, was installed to provide information on water level elevations only and is not part of the compliance monitoring network. The supplemental background wells include MW-301A and MW-312. Monitoring well MW-301A is a piezometer installed in a nest with MW-301 and is screened in a lean clay. Monitoring well MW-312 was installed as a sidegradient, supplemental background well to provide groundwater quality information in the Prairie Creek valley.

The shallow downgradient delineation monitoring wells include MW-309 and MW-310. The deeper downgradient piezometers include MW-306A, MW-309A, and MW-310A. The upgradient piezometer, MW-301A, was also installed to assist with the selection of remedy process.

The CCR Rule wells are installed in the alluvial aquifer, which is the uppermost aquifer unit. Shallow monitoring well depths range from approximately 15 to 32 feet, measured from the top of the well

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casing. The piezometer depths range from approximately 47 to 62 feet, measured from top of well casing. Upgradient piezometer MW-301A is installed in a clay till unit below the alluvial aquifer. This well is not used in the statistical evaluation of background conditions because it is not installed in the same hydrostratigraphic unit as the downgradient wells.

3.0 § 257.90(E) ANNUAL REPORT REQUIREMENTS

Annual groundwater monitoring and corrective action report. *For existing CCR landfills and existing CCR surface impoundments, no later than January 31, 2018, and annually thereafter, the owner or operator must prepare an annual groundwater monitoring and corrective action report. For new CCR landfills, new CCR surface impoundments, and all lateral expansions of CCR units, the owner or operator must prepare the initial annual groundwater monitoring and corrective action report no later than January 31 of the year following the calendar year a groundwater monitoring system has been established for such CCR unit as required by this subpart, and annually thereafter. For CCR management units, the owner or operator must prepare the initial annual groundwater monitoring and corrective action report no later than January 31, 2029, and annually thereafter. For the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. For purposes of this section, the owner or operator has prepared the annual report when the report is placed in the facility's operating record as required by § 257.105(h)(1). At a minimum, the annual groundwater monitoring and corrective action report must contain the following information, to the extent available:*

3.1 §257.90(E)(1) SITE MAP

A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit;

A map showing the site location is provided on **Figure 1**. A map with an aerial image showing the closure area, former CCR units, and all background (or upgradient) and downgradient monitoring wells with identification numbers for the groundwater monitoring program is provided as **Figure 2**.

3.2 §257.90(E)(2) MONITORING SYSTEM CHANGES

Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken;

Groundwater monitoring wells MW-313, MW-314, MW-315, MW-316, and MW-317 were installed in December 2025 in support of the CCR routine groundwater monitoring, on-going assessment, and future corrective actions. These wells may be utilized in the future as part of the monitoring network after they are sampled and evaluated.

3.3 §257.90(E)(3) SUMMARY OF SAMPLING EVENTS

In addition to all the monitoring data obtained under §§ 257.90 through 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs;

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Two groundwater sampling events were completed in 2025. Semiannual groundwater monitoring events were completed in April and October 2025. A summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection or assessment monitoring program is included in **Table 2**.

The validation and evaluation of the October 2024 monitoring event data was completed and transmitted to Interstate Power and Light (IPL) on February 12, 2025. The validation and evaluation of the April 2025 assessment monitoring event data was completed and transmitted to IPL on August 19, 2025. The validation and evaluation of the October 2025 monitoring event data was in progress at the end of 2025 and will be transmitted to IPL in 2026; therefore, the October 2025 monitoring results will be included in the 2026 annual report. The October 2025 groundwater elevation data are included in this report.

In the October 2024 and April 2025 semiannual events, groundwater samples collected from the background wells and the compliance wells installed at the waste boundary event were analyzed for Appendix III and Appendix IV constituents. Samples collected from the delineation wells were analyzed for select Appendix IV parameters. Iron was included in the monitoring program in 2025 as a supplemental groundwater quality parameter to support the selection of remedy process.

Analytical results for the October 2024 and April 2025 sampling events are shown in **Tables 5A** and **5B**. Field parameter results for the October 2024 and April 2025 sampling events are provided in **Table 6**. The results of the analytical laboratory analyses are provided in the October 2024 and April 2025 laboratory reports in **Appendix C**. Historical results for each monitoring well through April 2025 are summarized in **Appendix D**.

3.4 § 257.90(E)(4) MONITORING TRANSITION NARRATIVE

A narrative discussion of any transition between monitoring programs (e.g., the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels);

There was no monitoring program transition in 2025.

The PCS monitoring program transitioned to assessment monitoring beginning in April 2018, and assessment monitoring continued through 2025. An Assessment of Corrective Measures (ACM) was initiated for the PCS CCR units in April 2019 and completed in September 2019. An addendum to the ACM was submitted August 9, 2021. The ACM was initiated in response to the detection of arsenic and molybdenum at statistically significant levels (SSLs) exceeding the GPS. Assessment monitoring continued during the ACM and will continue during the selection of remedy.

In accordance with the Unified Guidance for Statistical Analysis of Groundwater Monitoring Data at Resource Conservation and Recovery Act (RCRA) Facilities (U.S. EPA, 2009), the comparison of assessment monitoring results to the GPS was based on the lower confidence limit (LCL) for the arithmetic mean. The LCL evaluation was completed for each Appendix IV parameter that has been detected at a concentration exceeding the GPS in at least one sample result since assessment monitoring was initiated, which includes arsenic, molybdenum, and lithium. The LCLs were calculated with Sanitas™ using the most recent eight monitoring events at each well. The LCL evaluations completed for the evaluation of the October 2024 and April 2025 monitoring events are provided in **Appendix E**.

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Based on the LCL evaluations completed following the October 2024 events, SSLs above the GPS were identified for the following parameters and wells:

- Arsenic:
  - Compliance wells MW-303, MW-304, and MW-308
  - Delineation wells MW-309 and MW-310

- Lithium:
  - Compliance well MW-308

- Molybdenum:
  - Compliance well MW-306

SSLs identified in the evaluation following the April 2025 event included the same parameters and wells, except that lithium was not determined to be at an SSL above the GPS.

The SSLs for arsenic at MW-303, MW-304, MW-308, MW-309, and MW-310 and for molybdenum at MW-306 are consistent with previous SSL determinations. The SSL for lithium in October 2024 was first at the site, and will be incorporated into the ACM and selection of remedy process. The statistical analyses are provided in **Appendix E**.

The comparison of Appendix III and Appendix IV parameter results to background concentrations was completed in accordance with 40 CFR 257.93(f)(3) using a prediction interval or tolerance interval procedure, in which an interval for each constituent is established from the distribution of the background data, and the level of each constituent in each compliance well is compared to the upper prediction limit (UPL) or upper tolerance limit (UTL). The UPLs and UTLs are shown in **Tables 5A** and **5B**. As part of the evaluation of the April 2025 monitoring results the interwell UPLs and UTLs were calculated using background well data collected through October 2024. The updated UPLs and UPLs technical memorandum is included in the 2025 annual report in **Appendix F**.

3.5 § 257.90(E)(5) OTHER REQUIREMENTS

Other information required to be included in the annual report as specified in §§ 257.90 through 257.98.

Additional potentially applicable requirements for the annual report, and the location of the requirement within the Rule, are provided in the following sections. For each cited section of the Rule, the portion referencing the annual report requirement is provided below in *italics*, followed by applicable information relative to the 2025 Annual Groundwater Monitoring and Corrective Action Report.

3.5.1 § 257.90(e) General Requirements

For the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year.

Status of Groundwater Monitoring and Corrective Action Program. The groundwater monitoring and corrective action program is currently in the selection of remedy process, with assessment monitoring continuing.

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Summary of Key Actions Completed.

- Completed a 2024 Annual Groundwater Monitoring and Corrective Action Report (January 31, 2025).
- Completed statistical evaluation for the October 2024 monitoring event and prepared groundwater monitoring results letter (February 12, 2025).
- Prepared and submitted permit applications for aquifer pumping test and observation wells installation to Linn County and the City of Cedar Rapids.
- Prepared and submitted permit applications for additional groundwater monitoring wells to Linn County and the City of Cedar Rapids.
- Completed two semiannual groundwater sampling and analysis events (April and October 2025).
- Completed statistical evaluation for the April 2025 monitoring event and prepared groundwater monitoring results letter (August 19, 2025).
- Prepared semiannual progress reports for the Selection of Remedy process (March and September 2025).
- Completed direct-push Geoprobe boring soil investigation at 16 locations to evaluate the soil and presence of non-CCR buried municipal solid waste that had previously been identified in the vicinity of MW-306.
- Results of the soil boring investigation did not yield a suitable location for an extraction well near MW-306. Therefore, postponed the installation of pumping test extraction wells and observation wells and initiated review of non-pumping groundwater corrective actions on the off-site property near MW-306/MW-306A.
- Evaluated injection chemistries for potential in-situ treatment of molybdenum in the vicinity of MW-306.
- Installed five groundwater monitoring wells along the closure area boundary, upgradient of the current monitoring network in December 2025. Conductivity testing and documentation of these well installations were ongoing as of the end of the reporting period.
- Continued work on the selection of remedy in accordance with § 257.97.

Description of Any Problems Encountered.

- Encountered municipal solid waste at 15 of the 16 soil boring locations, suspending drilling of the one pumping test extraction well and two observation wells.

Discussion of Actions to Resolve the Problems.

- IPL is evaluating other options for treatment of molybdenum in the area of well MW-306, given the presence of municipal solid waste in the vicinity of the well. The ACM will be

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amended to incorporate any changes to the feasibility of active extraction as a corrective measure prior to finalizing the selection of remedy.

Projection of Key Activities for the Upcoming Year (2026).

- Complete two semiannual assessment monitoring events (April and October 2026).
- Complete statistical evaluation and determination of any SSLs exceeding the GPS and prepare groundwater monitoring results letters for the October 2025 and April 2026 monitoring events.
- Pending the evaluation of other options to treat molybdenum in the vicinity of monitoring well MW-306, other remedial options may be evaluated.
- Conductivity testing and documentation of additional monitoring wells installed in December 2025 between the closure area and the compliance well network.
- Prepare ACM Addendum No. 2, which will include a summary of the work done to assess potential corrective measures since the previous Addendum was prepared in August 2021, including ash borings, ash leach testing, creek and hand-auger soil borings, creek piezometer data, evaluation of municipal solid waste delineation soil borings, and relevant data from additional monitoring wells installed in 2025. The addendum will also address the SSL for lithium at MW-308, which was identified for the first time in 2025.
- Continue work on the selection of remedy in accordance with § 257.97.

3.5.2 § 257.94(d) Alternative Detection Monitoring Frequency

The owner or operator must include the demonstration providing the basis for the alternative monitoring frequency and the certification by a qualified professional engineer in the annual groundwater monitoring and corrective action report required by § 257.90(e).

Not applicable. The PCS closure area is no longer in the detection monitoring program.

3.5.3 § 257.94(e)(2) Alternative Source Demonstration for Detection Monitoring

The owner or operator must also include the demonstration in the annual groundwater monitoring and corrective action report required by § 257.90(e), in addition to the certification by a qualified professional engineer.

Not applicable. The PCS closure area is no longer in the detection monitoring program.

3.5.4 § 257.95(c) Alternative Assessment Monitoring Frequency

The owner or operator must include the demonstration providing the basis for the alternative monitoring frequency and the certification by a qualified professional engineer in the annual groundwater monitoring and corrective action report required by § 257.90(e).

Not applicable. Assessment monitoring has been initiated at the site but no alternative assessment monitoring frequency is proposed at this time.

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3.5.5 § 257.95(d)(3) Assessment Monitoring Results and Standards

Include the recorded concentrations required by paragraph (d)(1) of this section, identify the background concentrations established under § 257.94(b), and identify the groundwater protection standards established under paragraph (d)(2) of this section in the annual groundwater monitoring and corrective action report required by § 257.90(e).

The 2025 assessment monitoring results, background UPLs or UTLs, and GPSs established for PCS are provided in **Tables 5A** and **5B**. The laboratory reports are provided in **Appendix C**. Historical monitoring results are summarized in **Appendix D**.

Supplemental groundwater quality parameters were included in the monitoring program in 2025 to support the selection of remedy process. The results for the supplemental parameters are included in **Tables 5A** and **5B** and in the laboratory reports in **Appendix C**.

3.5.6 § 257.95(d)(3)(ii) Alternative Source Demonstration for Assessment Monitoring

The owner or operator must also include the demonstration in the annual groundwater monitoring and corrective action report required by § 257.90(e), in addition to the certification by a qualified professional engineer.

Not applicable. No alternative source demonstration for assessment monitoring was completed in 2025.

3.5.7 § 257.96(a) Extension of Time for Corrective Measures Assessment

The assessment of corrective measures must be completed within 90 days, unless the owner or operator demonstrates the need for additional time to complete the assessment of corrective measure due to site-specific conditions or circumstances. The owner or operator must obtain a certification from a qualified professional engineer attesting that the demonstration is accurate. The 90-day deadline to complete the assessment of corrective measures may be extended for longer than 60 days. The owner or operator must also include the demonstration in the annual groundwater monitoring and corrective action report required by § 257.90(e), in addition to the certification by a qualified professional engineer.

Not applicable. The ACM was initiated on April 15, 2019. The July 10, 2019 certification, demonstrating the need for a 90-day deadline extension, was provided in the 2019 Annual Groundwater Monitoring and Corrective Action Report. The ACM was completed on September 19, 2019, and ACM Addendum No.1 was completed on August 9, 2021.

3.6 §257.90(E)(6) OVERVIEW

A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit.

The specific requirements for the overview under §257.90(e)(6) are listed, and the information is provided at the beginning of this report, before the Table of Contents.

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4.0 REFERENCE

U.S. Environmental Protection Agency (U. S. EPA), 2009, Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, EPA 530-R-09-007, March 2009.

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Table 1. Groundwater Monitoring Well Network
Prairie Creek Generating Station
SCS Engineers Project #25225074.00

Monitoring Well	Location in Monitoring Network	Role in Monitoring Network
MW-301	Upgradient	Background
MW-301A	Upgradient, deeper	Water Level Only
MW-302	Upgradient	Background
MW-303	Downgradient	Compliance
MW-304	Downgradient	Compliance
MW-305	Downgradient	Compliance
MW-306	Downgradient	Compliance
MW-306A	Downgradient, deeper	Delineation
MW-307	Downgradient	Compliance
MW-308	Downgradient	Compliance
MW-309	Downgradient	Delineation
MW-309A	Downgradient, deeper	Delineation
MW-310	Downgradient	Delineation
MW-310A	Downgradient, deeper	Delineation
MW-311	Upgradient	Water Level Only
MW-312	Sidegradient	Supplemental Background

Last revision by: RM Date: 11/24/2025
Checked by: NLB Date: 11/25/2025

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Table 2. CCR Rule Groundwater Samples Summary
Prairie Creek Generating Station
SCS Engineers Project #25225074.00

Sample Dates	Background Wells		Compliance Wells						Delineation Wells					Supplemental Background Well	Groundwater Elevation Only	
	MW-301	MW-302	MW-303	MW-304	MW-305	MW-306	MW-307	MW-308	MW-306A	MW-309	MW-309A	MW-310	MW-310A	MW-312	MW-301A	MW-311
April 15-17, 2025	A	A	A	A	A	A	A	A	A-NE	A-NE	A-NE	A-NE	A-NE	A	--	--
October 1-6, 2025	A	A	A	A	A	A	A	A	A-NE	A-NE	A-NE	A-NE	A-NE	A	--	--
Total Samples	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0

Abbreviations:
A = Assessment Monitoring Program
A-NE = Assessment monitoring for nature and extent. Wells sampled for arsenic, lithium, molybdenum, iron, and field parameters.

Last revision by: RM Date: 12/2/2025
Checked by: NLB Date: 12/18/2025

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Table 3. Water Level Summary
IPL - Prairie Creek / SCS Engineers Project #25225074.00

Ground Water Elevation in feet above mean sea level (amsl)																
Well Number	**MW-301**	**MW-301A (1)**	**MW-302**	**MW-303**	**MW-304**	**MW-305**	**MW-306**	**MW-306A**	**MW-307**	**MW-308**	**MW-309**	**MW-309A**	**MW-310**	**MW-310A**	**MW-311 (1)**	**MW-312**
Top of Casing Elevation (feet amsl)	732.55	732.07	722.68	709.46	709.66	709.61	712.54	711.50	721.16	719.67	711.80	710.54	711.93	710.68	724.36	711.60
Measurement Date																
December 20, 2016	716.05	NI	715.80	703.36	703.42	703.46	703.32	NI	NI	NI	NI	NI	NI	NI	NI	NI
January 23, 2017	716.05	NI	716.18	704.64	704.56	704.59	704.49	NI	NI	NI	NI	NI	NI	NI	NI	NI
February 23, 2017	715.87	NI	715.96	704.46	704.65	704.67	704.59	NI	NI	NI	NI	NI	NI	NI	NI	NI
March 28, 2017	715.80	NI	715.86	703.81	703.99	704.09	703.99	NI	NI	NI	NI	NI	NI	NI	NI	NI
April 27, 2017	716.70	NI	716.48	705.07	705.08	705.04	704.98	NI	NI	NI	NI	NI	NI	NI	NI	NI
May 25, 2017	717.08	NI	716.68	705.37	705.37	705.29	705.34	NI	NI	NI	NI	NI	NI	NI	NI	NI
June 28, 2017	716.10	NI	715.63	703.96	704.16	704.11	703.94	NI	NI	NI	NI	NI	NI	NI	NI	NI
August 17, 2017	715.35	NI	714.88	702.83	702.96	702.91	702.74	NI	NI	NI	NI	NI	NI	NI	NI	NI
October 17, 2017	714.36	NI	714.33	702.95	703.17	703.21	703.16	NI	NI	NI	NI	NI	NI	NI	NI	NI
May 8, 2018	713.95	NI	713.94	705.36	705.54	705.61	705.51	NI	NI	NI	NI	NI	NI	NI	NI	NI
August 6, 2018	714.30	NI	714.24	702.64	702.62	702.56	702.68	NI	NI	NI	NI	NI	NI	NI	NI	NI
October 9, 2018	715.74	NI	717.13	707.86	707.81	707.73	707.88	NI	NI	NI	NI	NI	NI	NI	NI	NI
March 11, 2019	NM	NI	NM	NM	704.24	704.05	NM	NI	NI	NI	NI	NI	NI	NI	NI	NI
April 22-23, 2019	716.44	NI	716.10	703.83	703.93	703.93	704.23	NI	709.86	706.19	NI	NI	NI	NI	NI	NI
October 28-29, 2019	715.86	NI	715.68	704.10	704.15	704.17	704.40	NI	708.57	706.31	703.84	NI	703.71	NI	NI	NI
January 9, 2020	NM	NI	NM	NM	NM	NM	NM	NI	NM	NM	703.10	NI	702.81	NI	NI	NI
April 27, 2020	715.80	NI	715.58	703.10	702.84	703.02	703.35	NI	NM	NM	702.84	NI	702.53	NI	NI	NI
May 27, 2020	NM	NI	NM	NM	NM	NM	NM	NI	708.14	705.64	NM	NI	NM	NI	NI	NI
September 14, 2020	715.30	694.12	715.57	703.70	703.74	703.74	703.84	704.03	708.75	706.13	703.28	703.63	702.83	703.43	NI	NI
October 19-21, 2020	714.77	704.32	714.16	702.16	702.13	702.02	702.26	702.43	706.56	703.87	701.97	702.17	701.78	702.00	NI	NI
April 26-27, 2021	715.84	716.76	715.36	702.75	702.80	702.66	702.75	703.63	706.38	705.05	702.68	702.92	702.11	702.69	NI	NI
July 14, 2021	NM	NM	NM	NM	NM	NM	NM	NM	NM	703.38	NM	NM	NM	NM	NI	NI
October 20-22, 2021	713.44	707.07	713.09	701.84	701.80	701.75	702.02	702.31	706.29	703.21	701.70	701.60	701.48	701.76	NI	NI
February 22, 2022	NM	NM	NM	NM	NM	NM	NM	NM	NM	702.84	NM	NM	NM	NM	NI	NI
April 25-27, 2022	714.50	707.77	715.27	703.85	703.82	703.76	704.02	704.16	708.27	705.45	703.56	702.93	703.33	703.68	NI	NI
May 25, 2022	714.57	703.71	714.12	702.96	702.95	702.88	703.23	703.47	707.55	704.83	702.86	703.08	702.60	702.92	709.86	703.52
July 15, 2022	714.26	707.97	713.81	703.17	703.27	703.23	703.53	703.72	709.27	705.26	703.04	703.30	702.82	703.19	710.01	703.80
October 10-12, 2022	722.08	706.76	712.56	701.93	701.86	701.73	701.97	702.18	705.32	702.60	702.08	702.12	701.73	701.92	707.83	702.85
April 19-20, 2023	714.10	708.02	713.90	702.37	702.43	702.36	702.74	703.03	707.21	703.97	702.30	702.61	702.04	702.44	NM	701.96
November 6-7, 2023	712.29	681.93	711.86	701.55	701.54	701.38	701.68	701.92	704.67	702.18	701.59	701.70	701.34	701.51	707.38	702.24
April 15-18, 2024	712.62	706.69	712.69	702.14	702.08	701.96	702.25	702.48	706.22	703.51	702.06	702.27	701.73	702.05	709.09	702.65
October 1-3, 2024	713.08	706.89	712.40	701.81	701.76	701.63	701.99	702.22	705.64	703.06	701.76	702.00	701.50	701.74	708.61	702.48
April 15-17, 2025	713.54	707.34	713.38	702.54	702.47	702.33	702.71	702.94	705.92	704.28	702.43	701.77	702.18	702.50	709.83	703.13
October 1-6, 2025	713.53	707.90	709.79	702.31	702.27	702.26	702.54	702.85	705.76	702.39	702.32	702.24	702.08	703.49	709.44	702.95

Created by: MDB Date: 5/1/2017
Last rev. by: RM Date: 10/14/2025
Checked by: LH Date: 10/14/2025

I:\25225074.00\Deliverables\2025 - Annual CCR Report\Tables\[Table 3 - PCS GW Elevation Summary through 2025.xls]levels

02/27/2026 - Classification: Internal - ECRM13684604

Table 4A. Horizontal Gradients and Flow Velocities
Prairie Creek Generating Station
SCS Engineers Project #25225074.00

	Flow Path A - Northwest				
Sampling Dates	**h1 (ft)**	**h2 (ft)**	**Δl (ft)**	**Δh/Δl (ft/ft)**	**V (ft/d)**
April 15-17, 2025	704.00	702.18	322	0.006	0.8
October 1-6, 2025	704.00	702.08	322	0.006	0.9

Wells	**K Value (cm/sec)**	**K Value (ft/d)**
MW-301	N/A	N/A
MW-301A	N/A	N/A
MW-302	N/A	N/A
MW-303	1.2E-02	34
MW-304	1.3E-02	36
MW-305	1.6E-01	439
MW-306	5.0E-02	141
MW-306A	1.2E-02	35
MW-307	1.8E-02	50
MW-308	5.3E-03	15
MW-309	5.0E-02	142
MW-309A	1.1E-01	303
MW-310	1.7E-02	47
MW-310A	5.1E-02	145
MW-311	1.3E-03	4
MW-312	2.0E-02	55
Geometric Mean	2.1E-02	59

Assumed Porosity, n
0.40

Groundwater flow velocity equation: $V = [K*(\Delta h/\Delta l)] / n$

Notes:
1. Geometric mean hydraulic conductivity calculation does not include K values for upgradient wells MW-301, MW-301A, or MW-302 because they are not considered to be representative of conditions downgradient from the closure area.

2. See Figures 3 and 4 for velocity calculation flow path locations.

ft = feet
ft/d = feet per day
K = hydraulic conductivity
n = effective porosity
V = groundwater flow velocity
h1, h2 = point interpreted groundwater elevation at locations 1 and 2
Δl = distance between location 1 and 2
Δh/Δl = hydraulic gradient

Last revision by: NLB Date: 1/19/2026
Checked by: LH Date: 1/19/2026

02/27/2026 - Classification: Internal - ECRM13684604

Table 4B. Summary of Vertical Hydraulic Gradients
Prairie Creek Station / SCS Engineers Project #25225074.00

				April 2025					October 2025				
Well Nest Location	**Well Type**	**Top of Screen Elevation (ft amsl)**	**Bottom of Screen Elevation (ft amsl)**	**Groundwater Elevation (h) (ft amsl)**	**Reference Point (L)[1] (ft amsl)**	**Delta h[2] (ft)**	**Delta L[3] (ft)**	**Vertical Hydraulic Gradient (ft/ft)**	**Groundwater Elevation (h) (ft amsl)**	**Reference Point (L)[1] (ft amsl)**	**Delta h[2] (ft)**	**Delta L[3] (ft)**	**Vertical Hydraulic Gradient (ft/ft)**
MW-301	WT	717.5	707.5	713.54	710.5	6.20	35.14	0.18	713.53	710.5	5.63	35.13	0.16
MW-301A	P	680.9	675.9	707.34	678.4				707.90	678.4			
MW-306	WT	685.6	690.6	702.71	688.1	-0.23	50.51	-0.005	702.54	688.1	-0.31	50.34	-0.01
MW-306A	P	654.7	649.7	702.94	652.2				702.85	652.2			
MW-309	WT	703.1	693.1	702.43	697.8	0.66	36.7	0.02	702.32	697.7	0.08	36.6	0.002
MW-309A	P	668.2	663.2	701.77	665.7				702.24	665.7			
MW-310	WT	703.1	693.1	702.18	697.6	-0.32	36.5	-0.01	702.08	697.6	-1.41	36.4	-0.04
MW-310A	P	668.2	663.2	702.50	665.7				703.49	665.7			
							Average	0.05				Average	0.03

Footnotes:

[1] For water table monitoring wells, the reference point (L) is the midpoint between water table elevation and the bottom of the well screen elevation if the water table intersects the well screen. For water table wells with a saturated screen (water table elevation above the top of screen elevation), the Reference Point (L) is the midpoint between the top and bottom of well screen elevations. For piezometers, reference point (L) is the elevation in the middle of the screen.
[2] Delta h is the difference between water table elevation and potentiometric surface elevation.
[3] Delta L is the difference between water table elevation and the elevation of the mid-point of the piezometer screen.

Notes:
1. Vertical gradient = Delta h/Delta L
2. A negative vertical hydraulic gradient indicates upward flow
3. WT = water table well
4. P = piezometer well
5. ft amsl = feet above mean sea level

Updated by: NLB Date: 11/14/2025
Checked by: LH Date: 12/11/2025

I:\25225074.00\Deliverables\2025 - Annual CCR Report\Tables\[Table 4B_Vertical Hydraulic Gradients_PCS 2025.xlsx]GW Field Data

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Table 5A. Groundwater Analytical Results Summary - October 2024
Prairie Creek Generating Station / SCS Engineers Project #25225074.00

				Background Wells		Compliance Wells						Delineation Wells					Supplemental Background Wells	
Parameter Name	**UPL Method**	**UPL**	**GPS**	**MW-301**	**MW-302**	**MW-303**	**MW-304**	**MW-305**	**MW-306**	**MW-307**	**MW-308**	**MW-306A**	**MW-309**	**MW-309A**	**MW-310**	**MW-310A**	**MW-301A**	**MW-312**
				10/1/2024	10/3/2024	10/2/2024	10/2/2024	10/2/2024	10/2/2024	10/1/2024	10/1/2024	10/2/2024	10/2/2024	10/2/2024	10/3/2024	10/3/2024	10/3/2024	10/2/2024
Groundwater Elevation, ft amsl				713.08	712.40	701.81	701.76	701.63	701.99	705.64	703.06	702.22	701.76	702.00	701.50	701.74	706.89	702.48
Appendix III																		
Boron, µg/L	P	63.3		<76	<76	1,400	1100	1,200	1,900	960	6,500	--	--	--	--	--	90 J	310
Calcium, mg/L	P	184		180	130	130	150	150	92	25	110	--	--	--	--	--	73	95
Chloride, mg/L	P	32.6		110	95	17	14	20	22	<2.3	6.0	--	--	--	--	--	3.8 J	67
Fluoride, mg/L	NP	0.28		<0.38	<0.38	0.39 J	0.70 J	<0.38	<0.38	<0.38	<0.38	--	--	--	--	--	<0.38	<0.38
Field pH, Std. Units	P	7.42		6.49	6.38	6.78	6.68	6.79	7.28	8.88	8.85	7.12	7.14	7.01	7.03	7.20	6.92	6.66
Sulfate, mg/L	P	131		96	80	130	220	270	150	45	260	--	--	--	--	--	<2.1	18
Total Dissolved Solids, mg/L	P	810		780	600	640	750	780	510	140	550	--	--	--	--	--	280	430
Appendix IV	**UTL Method**	**UTL**	**GPS**															
Antimony, µg/L	NP	1.10	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	<1.0	<1.0
Arsenic, µg/L	NP	9	10	0.72 J	4.4	36	23	12	<0.53	6.7	44	<0.53	27	0.88 J	25	<0.53	5.8	5.8
Barium, µg/L	P	333	2,000	250	250	120	120	140	81	59	72	--	--	--	--	--	130	140
Beryllium, µg/L	NP	0.27	4	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	--	--	--	--	--	<0.33	<0.33
Cadmium, µg/L	NP	0.38	5	<0.10	0.24	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--	--	--	--	--	<0.10	<0.10
Chromium, µg/L	P	7.52	100	5.0	2.1 J	<1.2	<1.2	<1.2	<1.2	<1.2	<6.0	--	--	--	--	--	<1.2	<1.2
Cobalt, µg/L	P	6.12	6.12	<0.17	4.2	0.25 J	0.94	0.60	<0.17	<0.17	<0.17	--	--	--	--	--	0.73	<0.17
Fluoride, mg/L	NP	0.28	4	<0.38	<0.38	0.39 J	0.70 J	<0.38	<0.38	<0.38	<0.38	--	--	--	--	--	<0.38	<0.38
Lead, µg/L	P	1.16	15	<0.26	0.26 J	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	--	--	--	--	--	<0.26	<0.26
Lithium, µg/L	P	18.2	40	14	8.5 J	20	22	21	2.7 J	14	59	6.4 J	19	6.6 J	19	4.4 J	<2.5	6.3 J
Mercury, µg/L	DQ	DQ	2	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	--	--	--	--	--	<0.11	<0.11
Molybdenum, µg/L	NP	1.3	100	<1.3	<1.3	13	26	45	120	8.2	76	18	19	7.5	41	14	1.8 J	5.3
Selenium, µg/L	P	2.9	50	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	4.5 J	<1.4	--	--	--	--	--	<1.4	<1.4
Thallium, µg/L	NP	0.50	2	0.84 J	0.96 J	0.70 J	0.60 J	0.60 J	<0.57	<0.57	<0.57	--	--	--	--	--	<0.57	0.64 J
Radium 226/228 Combined, pCi/L	P	2.91	5	0.245	1.48	1.47	1.54	1.05	1.17	1.03	0.412	--	--	--	--	--	0.966	1.04
Additional Parameters Monitored for Selection of Remedy																		
Iron, µg/L	UPL or GPS not applicable			<36	5,700	3,300	1,700	190	2,900	<36	<36	--	--	--	--	--	11,000	6,900

4.4	Blue highlighted cell indicates the compliance well result exceeds the UPL (background) and the LOQ.
30.8	Yellow highlighted cell indicates the compliance well result exceeds the GPS.
17	Grayscale indicates additional parameters sampled for selection of remedy and evaluation of monitored natural attenuation (MNA).

See Page 2 for notes and abbreviations.

02/27/2026 - Classification: Internal - ECRM13684604

Table 5A. Groundwater Analytical Results Summary - October 2024
Prairie Creek Generating Station / SCS Engineers Project #25225074.00

Abbreviations:

UPL = Upper Prediction Limit
UTL = Upper Tolerance Limit
µg/L = micrograms per liter
mg/L = milligrams per liter

GPS = Groundwater Protection Standard
LOD = Limit of Detection
LOQ = Limit of Quantitation
-- = Not Analyzed

DQ= Double Quantification
P = Parametric
NP = Nonparametric
ft amsl = Feet above mean sea level

Notes:

J = Estimated concentration at or above the LOD and below the LOQ.

1. An individual result above the UPL or GPS does not constitute an SSI above background or statistically significant level above the GPS. See the accompanying letter text for identification of statistically significant results.
2. GPS is the United States Environmental Protection Agency (U.S. EPA) Maximum Contamination Level (MCLs), if established; otherwise, the values from 40 CFR 257.95(h)(2). For constituents for which the background level is higher than the MCL or values from 40 CFR 257.95(h)(2), the GPS is the background UTL.
3. Interwell UPLs and UTLs calculated based on results from background wells MW-301 and MW-302. UPLs and UTLs updated December 2022.
4. For compliance wells, only results confirmed above the LOQ are evaluated as potential Statistically Significant Increases above background.

Created by:	RM	Date:	11/1/2022
Last revision by:	RM	Date:	11/15/2024
Checked by:	KMV	Date:	12/4/2024
Proj Mgr QA/QC:	TK	Date:	1/20/2025

02/27/2026 - Classification: Internal - ECRM13684604

Table 5B. Groundwater Analytical Results Summary - April 2025
Prairie Creek Generating Station / SCS Engineers Project #25225074.00

				Background Wells		Compliance Wells						Delineation Wells					Supplemental Background Well
Parameter Name	**UPL Method**	**UPL**	**GPS**	**MW-301**	**MW-302**	**MW-303**	**MW-304**	**MW-305**	**MW-306**	**MW-307**	**MW-308**	**MW-306A**	**MW-309**	**MW-309A**	**MW-310**	**MW-310A**	**MW-312**
				4/17/2025	4/17/2025	4/15/2025	4/15/2025	4/16/2025	4/16/2025	4/16/2025	4/15/2025	4/16/2025	4/16/2025	4/16/2025	4/16/2025	4/16/2025	4/15/2025
Groundwater Elevation, ft amsl				713.54	713.38	702.54	702.47	702.33	702.71	705.92	704.28	702.94	702.43	701.77	702.18	702.50	703.13
Appendix III																	
Boron, µg/L	NP	110		130	100	1,400	1200	1,200	2,300	1,200	6,300	--	--	--	--	--	300
Calcium, mg/L	P	200		180	160	130	130	160	99	28	84	--	--	--	--	--	89
Chloride, mg/L	P	32.6		99	160	18	12	22	20	10	6.1	--	--	--	--	--	66
Fluoride, mg/L	NP	0.380		<0.38	<0.38	0.38 J	0.53 J	<0.38	<0.38	<0.38	<0.38	--	--	--	--	--	<0.38
Field pH, Std. Units	P	7.34		6.76	6.70	6.96	7.01	6.83	7.39	8.92	9.09	7.17	7.10	7.11	7.13	7.28	6.83
Sulfate, mg/L	P	127		92	77	130	240	280	160	41	250	--	--	--	--	--	38
Total Dissolved Solids, mg/L	P	846		750	750	660	770	790	530	170	560	--	--	--	--	--	460
Appendix IV	**UTL Method**	**UTL**	**GPS**														
Antimony, µg/L	NP	1.20	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6 J	1.8 J	--	--	--	--	--	<1.0
Arsenic, µg/L	P	6.81	10	0.70 J	0.60 J	25	18	10	0.58 J	6.5	40	<0.53	20	0.79 J	18	<0.53	9.5
Barium, µg/L	NP	291	2,000	260	240	110	110	140	94	65	73	--	--	--	--	--	160
Beryllium, µg/L	NP	0.330	4	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	--	--	--	--	--	<0.33
Cadmium, µg/L	NP	0.380	5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--	--	--	--	--	<0.10
Chromium, µg/L	NP	9.90	100	4.8 J	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	--	--	--	--	--	<1.8
Cobalt, µg/L	P	6.03	6.03	<0.17	<0.17	0.30 J	0.67	0.50	<0.17	<0.17	<0.17	--	--	--	--	--	<0.17
Fluoride, mg/L	NP	0.380	4	<0.38	<0.38	0.38 J	0.53 J	<0.38	<0.38	<0.38	<0.38	--	--	--	--	--	<0.38
Lead, µg/L	NP	1.90	15	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	--	--	--	--	--	<0.33
Lithium, µg/L	P	18.7	40	14	8.4 J	15	14	17	<2.9	11	44	6.1 J	16	5.4 J	16	4.2 J	4.3 J
Mercury, µg/L	DQ	DQ	2	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	--	--	--	--	--	<0.11
Molybdenum, µg/L	NP	2.50	100	<1.3	<1.3	11	29	37	140	11	87	21	15	9.5	30	16	5.3
Selenium, µg/L	P	2.82	50	<1.4	1.5 J	<1.4	<1.4	<1.4	<1.4	12	1.5 J	--	--	--	--	--	<1.4
Thallium, µg/L	NP	0.960	2	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	--	--	--	--	--	<0.57
Radium 226/228 Combined, pCi/L	P	2.77	5	0.391	1.06	0.744	0.791	0.707	0.520	0.477	0.486	--	--	--	--	--	0.977
Additional Parameters Monitored for Selection of Remedy																	
Iron, µg/L	UPL, UTL, or GPS not applicable			55 J	79 J	4,000	2,200	130	3,300	<50	<50	--	--	--	--	--	10,000

4.4	Blue highlighted cell indicates the compliance well result exceeds the UPL (background) and the LOQ.
30.8	Yellow highlighted cell indicates the compliance well result exceeds the GPS.
17	Grayscale indicates additional parameters sampled for selection of remedy and evaluation of monitored natural attenuation (MNA).

See Page 2 for notes and abbreviations.

02/27/2026 - Classification: Internal - ECRM13684604

Table 5B. Groundwater Analytical Results Summary - April 2025
Prairie Creek Generating Station / SCS Engineers Project #25225074.00

Abbreviations:

UPL = Upper Prediction Limit
UTL = Upper Tolerance Limit
GPS = Groundwater Protection Standard
µg/L = micrograms per liter
mg/L = milligrams per liter
LOD = Limit of Detection
LOQ = Limit of Quantitation
DQ= Double Quantification
-- = Not Analyzed
pCi/L = picocuries per liter
P = Parametric
NP = Nonparametric
ft amsl = Feet above mean sea level
Std. Units = Standard Units

Notes:

J = Estimated concentration at or above the LOD and below the LOQ.

1. An individual result above the UPL or GPS does not constitute an SSI above background or statistically significant level above the GPS. See the accompanying letter text for identification of statistically significant results.
2. GPS is the United States Environmental Protection Agency (U.S. EPA) Maximum Contamination Level (MCLs), if established; otherwise, the values from 40 CFR 257.95(h)(2). For constituents for which the background level is higher than the MCL or values from 40 CFR 257.95(h)(2), the GPS is the background UTL.
3. Interwell UPLs and UTLs calculated based on results from background wells MW-301 and MW-302. UPLs and UTLs updated in August 2025.
4. For compliance wells, only results confirmed above the LOQ are evaluated as potential Statistically Significant Increases above background.
5. MW-301A was switched from a supplemental background well to a water level-only monitoring point prior to the April 2025 sampling event.

Created by: RM Date: 11/1/2022
Last revision by: RM Date: 8/7/2025
Checked by: NLB Date: 8/7/2025

02/27/2026 - Classification: Internal - ECRM13684604

Table 6. Groundwater Field Data Summary
Prairie Creek Generating Station / SCS Engineers Project #25225074.00

Well	Sample Date	Groundwater Elevation (feet)	Field Temperature (deg C)	Field pH (Std. Units)	Oxygen, Dissolved (mg/L)	Field Specific Conductance (umhos/cm)	Field Oxidation Potential (mV)	Turbidity (NTU)
MW-301	10/1/2024	713.08	13.7	6.49	4.42	1535	162.6	6.28
	4/17/2025	713.54	11.0	6.76	4.32	1317	302.8	3.75
MW-301A	10/3/2024	706.89	17.7	6.92	4.22	704	80.8	32.07
MW-302	10/1/2024	712.40	15.2	6.38	1.61	1217	145.4	6.84
	4/17/2025	713.38	7.7	6.70	3.32	1331	290.6	4.88
MW-303	10/2/2024	701.81	16.1	6.78	0.22	1239	-64.4	7.97
	4/15/2025	702.54	8.6	6.96	-0.15	1057	-113.4	2.08
MW-304	10/2/2024	701.76	16.1	6.68	0.22	1353	-18.3	6.37
	4/15/2025	702.47	8.6	7.01	-0.11	1157	22.9	2.06
MW-305	10/2/2024	701.63	16.5	6.79	0.24	1434	28.6	6.55
	4/16/2025	702.33	7.6	6.83	0.11	1197	344.9	4.98
MW-306	10/2/2024	701.99	12.7	7.28	1.46	984	-82.5	10.47
	4/16/2025	702.71	15.0	7.39	1.49	901	-37.5	7.75
MW-306A	10/2/2024	702.22	14.3	7.12	3.13	1427	-7.1	8.89
	4/16/2025	702.94	13.3	7.17	0.02	1222	137.2	7.09
MW-307	10/1/2024	705.64	21.4	8.88	0.52	239.2	71.5	5.77
	4/16/2025	705.92	12.3	8.92	-0.13	274	278.7	4.08
MW-308	10/1/2024	703.06	15.9	8.85	0.26	902	-138.8	7.96
	4/15/2025	704.28	13.7	9.09	0.01	753	33.7	2.44
MW-309	10/2/2024	701.76	19.7	7.14	0.31	1240	-95.9	7.10
	4/16/2025	702.43	12.9	7.10	-0.12	1071	-52.8	3.87
MW-309A	10/2/2024	702.00	17.0	7.01	1.94	1046	-78.3	9.06
	4/16/2025	701.77	15.4	7.11	0.13	853	-97	5.19
MW-310	10/3/2024	701.50	17.6	7.03	0.25	1480	-48.3	8.05
	4/16/2025	702.18	13.7	7.13	1.34	1117	-65.2	10.36
MW-310A	10/3/2024	701.74	15.5	7.20	0.27	1316	-52.2	6.39
	4/16/2025	702.50	14.6	7.28	0.13	1119	-122.1	4.87
MW-312	10/2/2024	702.48	25.4	6.66	0.99	937	-60.9	8.08
	4/15/2025	703.13	18.2	6.83	-0.06	806	-112.6	13.39

Abbreviations:
deg C = Degrees Celsius
Std. Units = Standard Units
mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
mV = millivolts
NTU = Nephelometric Turbidity Units

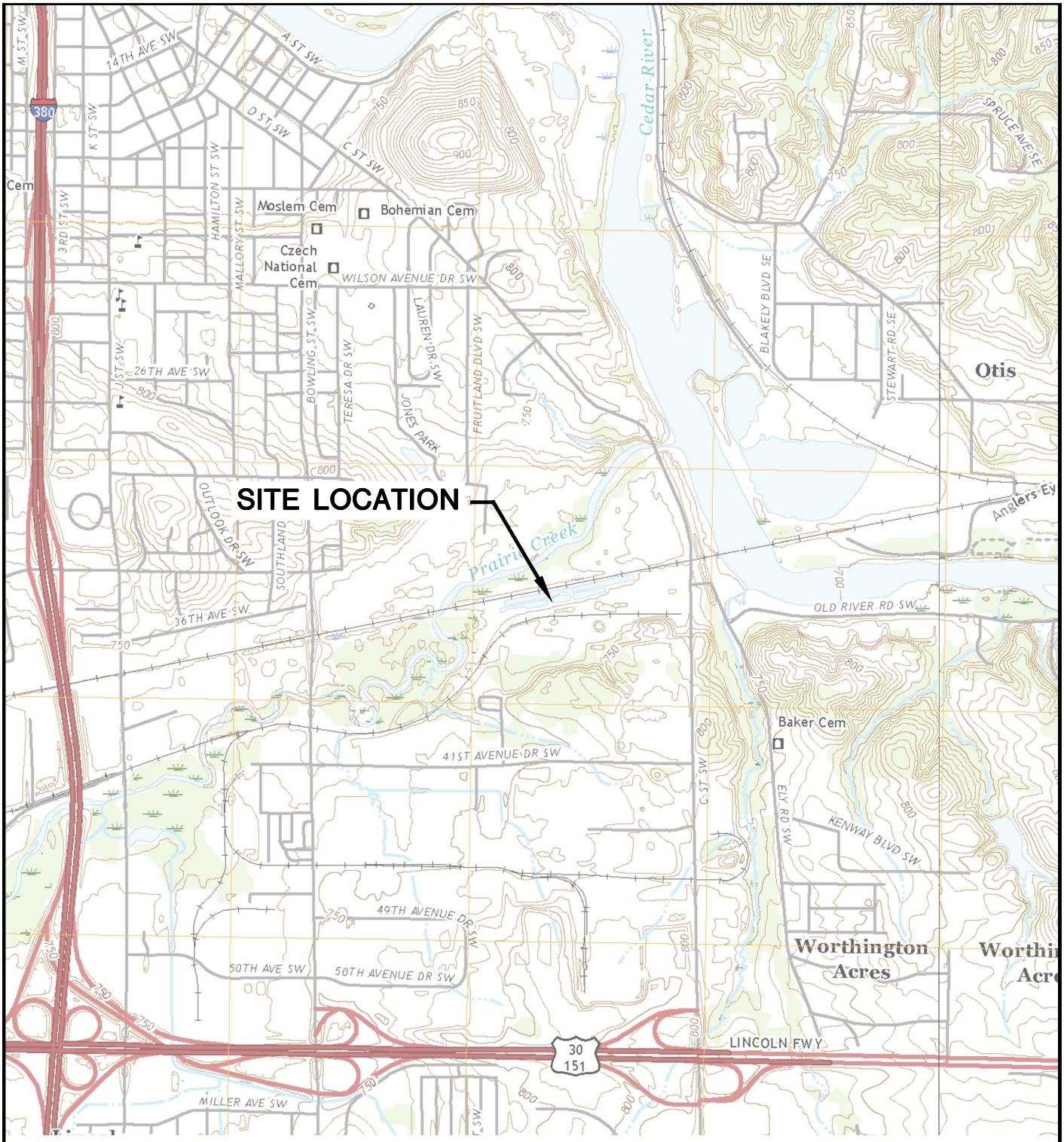
Last revision by: NLB Date: 10/30/2025
Checked by: LH Date: 11/19/2025

02/27/2026 - Classification: Internal - ECRM13684604

Figures

1 Site Location Map
2 Site Plan and Monitoring Well Locations
3 Water Table Map – April 2025
4 Water Table Map – October 2025

02/27/2026 - Classification: Internal - ECRM13684604



N

CEDAR RAPIDS SOUTH QUADRANGLE
IOWA–LINN CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
2018
SCALE: 1" = 2,000'

CLIENT	ALLIANT ENERGY 4902 N. BILTMORE LANE, #1000 MADISON, WI 53718	SITE	ALLIANT ENERGY PRAIRIE CREEK GENERATING STATION CEDAR RAPIDS, IA

SITE LOCATION MAP

PROJECT NO.	25219074.00	DRAWN BY:	BSS
DRAWN:	11/18/2019	CHECKED BY:	MDB
REVISED:	01/14/2020	APPROVED BY:	TK 01/30/2020

ENGINEER

SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718–6751
PHONE: (608) 224–2830

FIGURE
1

I:\25219074.00\Drawings\CCR 2019 Annual Report\Site Location Map.dwg, 1/30/2020 3:28:29 PM

02/27/2026 - Classification: Internal - ECRM13684604

LEGEND

- MONITORING WELL
- BACKGROUND MONITORING WELL
- PIEZOMETER
- CCR UNITS
- APPROXIMATE CLOSURE AREA (SEE NOTE 1)
- APPROXIMATE PROPERTY LINE

PRAIRIE CREEK

MW-310

MW-310A

MW-306A

MW-306

MW-309

MW-309A

MW-305

MW-304

MW-303

MW-312

MW-308

MW-307

FORMER POND 1

FORMER POND 2

FORMER BOTTOM ASH PILE

FORMER POND 3

FORMER POND 4

FORMER POND 5

FORMER POND 6

FORMER POND 7

FORMER POND 8 (DISCHARGE POND)

FORMER POND 12 (FINAL COAL PILE RUNOFF POND

FORMER HYDRATED FLY ASH (C STONE) STORAGE PILE

FORMER BENEFICIAL USE STORAGE AREA

MW-311

POND 10 (COAL PILE RUNOFF POND)

POND 9

POND 11

POND 14 (COAL PILE RUNOFF POND)

POND 13 (COAL PILE RUNOFF POND)

COAL PILE

CEDAR RIVER (600' EAST)

PRAIRIE CREEK GENERATING STATION

MW-302

MW-301A

MW-301

200 0 200

SCALE: 1" = 200'

N

NOTES:

1. MONITORING WELL AND OTHER SAMPLE LOCATIONS ARE APPROXIMATE.
2. COORDINATE SYSTEM IS NAD83 IOWA STATE PLANE NORTH ZONE.
3. AERIAL PHOTOGRAPH IMPORTED FROM BING MAPS USING AUTOCAD GEOLOCATION TOOL.
4. MONITORING WELL INSTALLATION SUMMARY
   a. MONITORING WELLS MW-301 AND MW-302 WERE INSTALLED ON OCTOBER 31, 2016, BY CASCADE DRILLING, AND WERE SURVEYED BY FRENCH-RENEKER-ASSOCIATES ON JANUARY 5, 2017.
   b. MONITORING WELLS MW-303, MW-304 AND MW-305 WERE INSTALLED BETWEEN DECEMBER 5 AND 6, 2016, AND WERE SURVEYED BY FRENCH-RENEKER-ASSOCIATES ON JANUARY 5, 2017.
   c. MW-306 WAS INSTALLED BY CASCADE DRILLING BETWEEN OCTOBER 31 AND DECEMBER 6, 2016, AND WERE SURVEYED BY SCS ENGINEERS ON DECEMBER 13, 2018.
   d. MONITORING WELLS MW-307 AND MW-308 WERE INSTALLED BY CASCADE DRILLING ON NOVEMBER 27, 2018.
   e. MONITORING WELLS MW-309 AND MW-310 WERE INSTALLED BY ROBERTS ENVIRONMENTAL DRILLING ON AUGUST 5-6, 2019, WERE SURVEYED BY FRENCH-RENEKER ASSOCIATES OF FAIRFIELD, IOWA ON SEPTEMBER 5, 2019.
   f. MONITORING WELLS MW-301A AND MW-306A INSTALLED BY CASCADE DRILLING ON JUNE 22-24, 2020, WERE SURVEYED BY MOHN SURVEYING OF LANSING, IOWA ON SEPTEMBER 23, 2020.
   g. MONITORING WELLS MW-309A AND MW-310A WERE INSTALLED BY CASCADE DRILLING ON JULY 23, 2020, AND WERE SURVEYED BY MOHN SURVEYING OF LANSING, IOWA ON SEPTEMBER 23, 2020.
   h. MONITORING WELLS MW-311 AND MW-312 WERE INSTALLED ON MAY 9, 2022, BY TERRACON OF CEDAR RAPIDS, AND WERE SURVEYED BY MOHN SURVEYING INC. OF LANSING, IOWA ON JUNE 28, 2022.
5. SITE-SPECIFIC NOTES: PCS PONDS 1-8, THE BOTTOM ASH PILE, AND THE BENEFICIAL USE STORAGE AREA WERE CLOSED IN DECEMBER 2018. LIMITS ARE APPROXIMATE.

PROJECT NO.	25225074.00	DRAWN BY:	SB
DRAWN:	05/28/2025	CHECKED BY:	NLB, 12/12/2025
REVISED:	11/03/2025	APPROVED BY:	TK, 1/29/2026

ENGINEER: SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718-6751
PHONE: (608) 224-2830

CLIENT: ALLIANT ENERGY
4902 N. BILTMORE LANE, #1000
MADISON, WI 53718

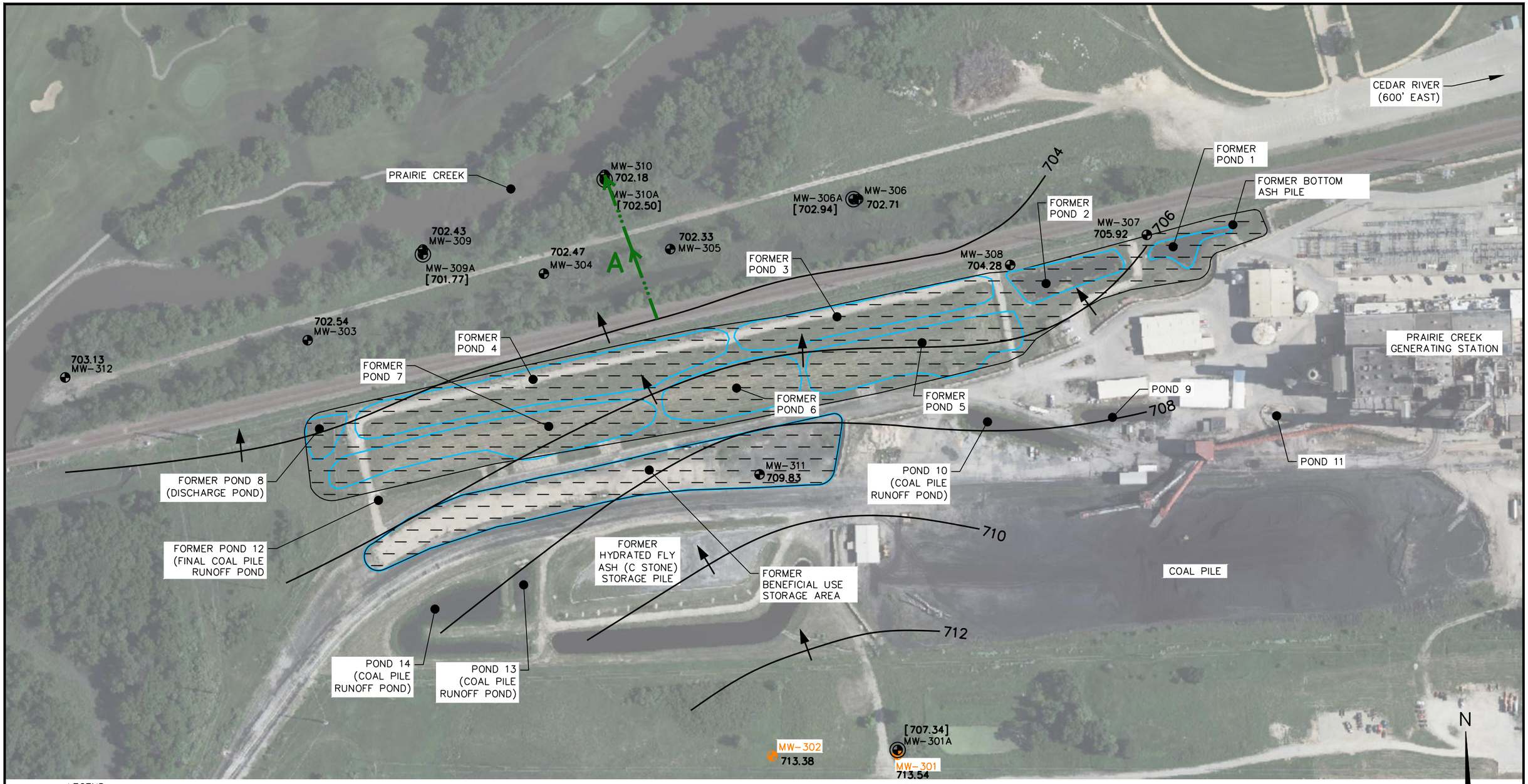
SITE: ALLIANT ENERGY
PRAIRIE CREEK GENERATING STATION
CEDAR RAPIDS, IA

SITE PLAN AND MONITORING WELL LOCATIONS

FIGURE 2

I:\Client\Alliant_PROJECT SITES\Prairie Creek\CAD Master References PCS\Water Table Maps\02_Site Plan Master.dwg, 12/12/2025 1:49:53 PM

02/27/2026 - Classification: Internal - ECRM13684604



LEGEND

- MONITORING WELL
- BACKGROUND MONITORING WELL
- PIEZOMETER
- CCR UNITS
- APPROXIMATE CLOSURE AREA
- 713.54 — WATER TABLE ELEVATION (APRIL 15–17, 2025)
- [707.34] — PIEZOMETER WELL PIEZOMETRIC SURFACE ELEVATION (NOT CONTOURED)
- WATER TABLE CONTOUR (DASHED WHERE INFERRED) (1-FOOT CONTOUR INTERVAL)
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- VELOCITY FLOW PATH (SEE TABLE 4A)

NOTES:

1. SEE FIGURE 2 FOR BASE MAP NOTES.
2. WATER TABLE CONTOURS ARE ESTIMATED BASED ON DATA OBTAINED ON APRIL 15–17, 2025.
3. AERIAL PHOTOGRAPH IMPORTED FROM BING MAPS USING AUTOCAD GEOLOCATION TOOL.

200 0 200

SCALE: 1" = 200'

PROJECT NO.	25225074.00	DRAWN BY:	SB/AR/RVG
DRAWN:	05/28/2025	CHECKED BY:	NLB 01/19/2026
REVISED:	01/19/2026	APPROVED BY:	TK, 01/29/2026

ENGINEER: SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718-6751
PHONE: (608) 224-2830

CLIENT: ALLIANT ENERGY
4902 N. BILTMORE LANE, #1000
MADISON, WI 53718

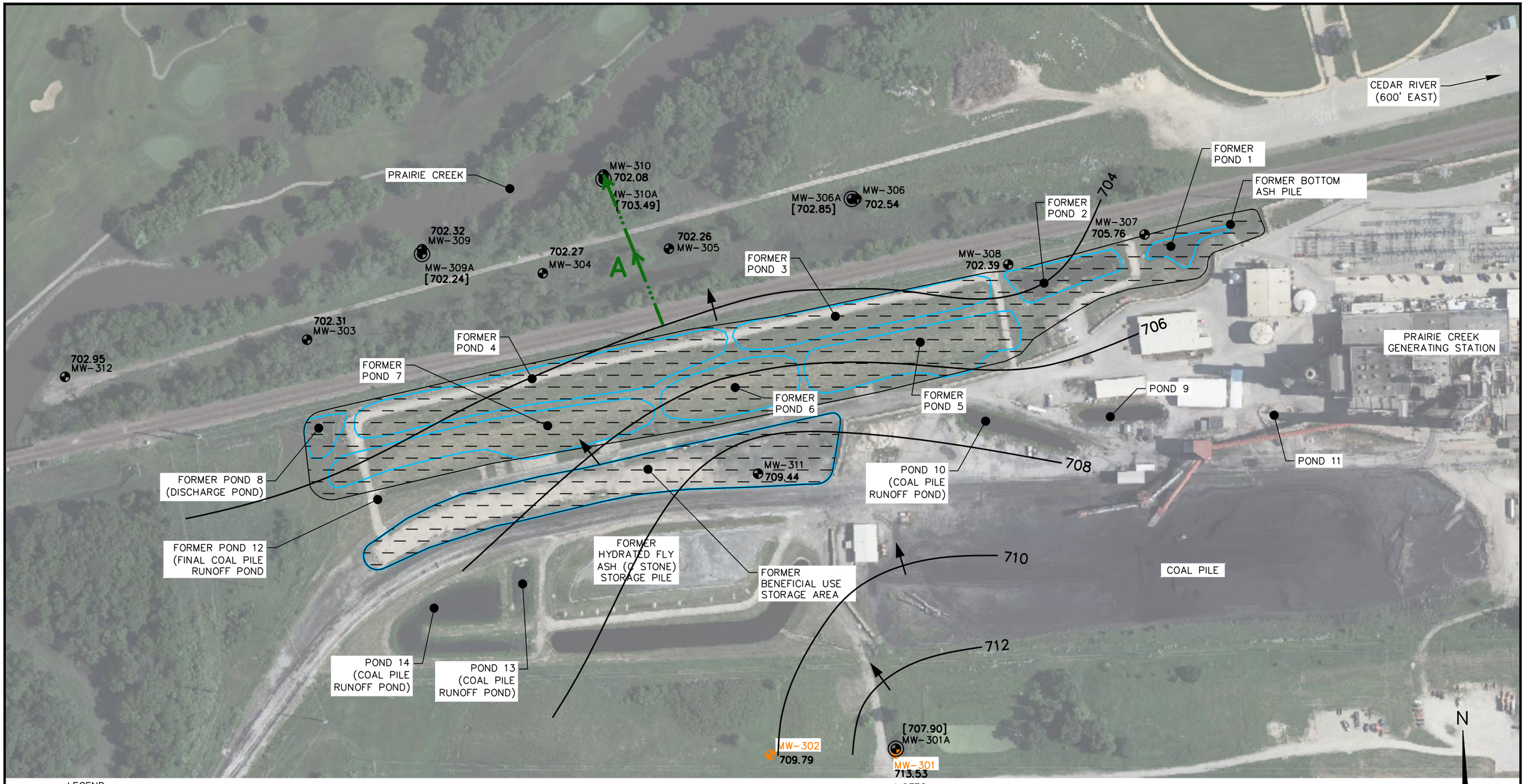
SITE: ALLIANT ENERGY
PRAIRIE CREEK GENERATING STATION
CEDAR RAPIDS, IA

WATER TABLE ELEVATION CONTOUR MAP
APRIL 15–17, 2025

FIGURE 3

I:\Client\Alliant_PROJECT SITES\Prairie Creek\CAD Master References PCS\Water Table Maps\Alliant PCS April 2025 WTBL Map.dwg, 1/19/2026 2:38:17 PM

02/27/2026 - Classification: Internal - ECRM13684604



LEGEND

- MONITORING WELL
- BACKGROUND MONITORING WELL
- PIEZOMETER
- CCR UNITS
- APPROXIMATE CLOSURE AREA
- 709.79 — WATER TABLE ELEVATION (OCTOBER 01–06, 2025)
- [707.90] — PIEZOMETER WELL PIEZOMETRIC SURFACE ELEVATION (NOT CONTOURED)
- WATER TABLE CONTOUR (DASHED WHERE INFERRED) (1-FOOT CONTOUR INTERVAL)
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- FLOW PATH FOR VELOCITY CALCULATION (SEE TABLE 4A)

NOTES:

1. SEE FIGURE 2 FOR BASE MAP NOTES.
2. WATER TABLE CONTOURS ARE ESTIMATED BASED ON DATA OBTAINED ON OCTOBER 01–06, 2025.
3. AERIAL PHOTOGRAPH IMPORTED FROM BING MAPS USING AUTOCAD GEOLOCATION TOOL.

200 0 200

SCALE: 1" = 200'

PROJECT NO.	25225074.00	DRAWN BY:	SB/AR/RVG
DRAWN:	11/05/2025	CHECKED BY:	NLB 01/19/2026
REVISED:	01/19/2026	APPROVED BY:	TK 01/29/2026

ENGINEER: SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718-6751
PHONE: (608) 224-2830

CLIENT: ALLIANT ENERGY
4902 N. BILTMORE LANE, #1000
MADISON, WI 53718

SITE: ALLIANT ENERGY
PRAIRIE CREEK GENERATING STATION
CEDAR RAPIDS, IA

WATER TABLE ELEVATION CONTOUR MAP
OCTOBER 01–06, 2025

FIGURE 4

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02/27/2026 - Classification: Internal - ECRM13684604

Appendix A

Regional Hydrogeologic Information

02/27/2026 - Classification: Internal - ECRM13684604

Table PC-2. Regional Hydrogeologic Stratigraphy
Prairie Creek Generating Station / SCS Engineers Project #25215053.01

Age of Rocks	Hydrogeologic Unit	General Thickness (feet)	Name of Rock Unit*	Type of Rock
Quaternary (0-1 million years old)	Surficial Aquifers • Alluvial • Buried-Channel • Drift	0 to 400	Undifferentiated	• Sand, gravel, silt, and clay • Sand, gravel, silt, and clay • Till (sandy, pebbly clay), sand, and silt
Pennsylvanian (280 to 310 million years old)	Aquiclude, locally contains waterbearing sandstone	0 to 70	Undifferentiated	• Shale, sandstone, limestone, and coal
Mississippian (310 to 345 million years old	Mississippian Aquifer	0 to 220	Meramecian Series Osagean Series Kinderhookian Series	• Limestone and sandstone • Dolomite, limestone, and shale • Limestone, dolomite, and siltstone
Devonian (345 to 400 million years old)	Devonian Aquiclude	0 to 350	Yellow Spring Group Lime Creek Group	• Shale, dolomite, and siltstone • Dolomite and shale
	Devonian Aquifer	0 to 400	Cedar Valley Limestone Wapsipinicon Limestone	• Limestone and dolomite • Dolomite, limestone, and shale
Silurian (400 to 425 million years old)	Silurian Aquifer	0 to 450	Gower Dolomite Hopkinton Dolomite Kankakee Limestone Edgewood Dolomite	• Dolomite, with some chert and limestone
Ordovician (425 to 500 million years old)	Aquiclude	300 to 600	Maquoketa Shale Galena Dolomite Decorah Formation Platteville Formation	• Dolomite and shale • Dolomite and chert • Limestone and shale • Limestone and shale
	Cambrian-Ordovician aquifer	400 to 650	St. Peter sandstone Prairie du Chien Formation Jordan Sandstone St. Lawrence Dolomite	• Sandstone • Dolomite, sandstone, and shale • Sandstone • Dolomite
Cambrian (500 to 600 million years old)	Cambrian confining beds	90 to 290	Franconia Sandstone	• Shale, siltstone, and sandstone
	Dresbach Aquifer	157 to 1644	Dresbach Group Galesville Sandstone Eau Claire Sandstone Mt. Simon Sandstone	• Sandstone • Sandstone, shale, and dolomite • Sandstone
Precambrian (600 million to more than 2 billion years old)	Precambrian rocks	Unknown	Crystalline rocks, undifferentiated	• Sandstone, igneous and metamorphic rocks

*This nomenclature and classification of rock units in this report are those of the Iowa Geological Survey and do not necessarily coincide with those accepted by the U.S. Geological Survey.

Source: "Water Resources of East-Central Iowa," Iowa Geologic Survey Water Atlas No. 6.

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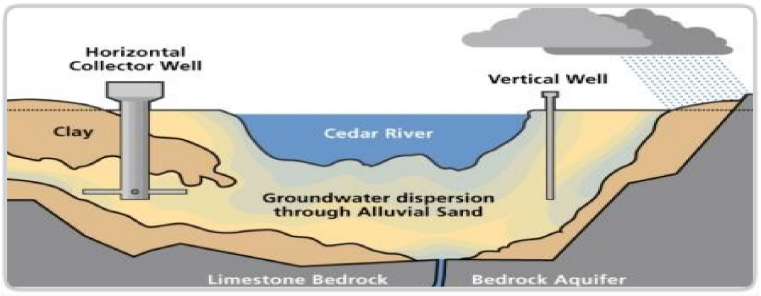
02/27/2026 - Classification: Internal - ECRM13684604

Resident Resources

Parks & Recreation
Utilities
Energy Management
Garbage & Recycling
Utility Bills
Water
About Us
Backflow Prevention
Outages/Main Breaks
Our Treatment Process
Water Quality
Our Watershed
Water Quality Report
Best Tasting Water
Water Engineering
In the Home
Drought
Water Conservation
Utility Bills
5 in 1 Dam
Sewer Maintenance
Water Pollution Control
Sewer
Storm Water
City Buses
Rental Services
Neighborhood Services
Streets Services
Housing Services
CleanUpCR
iGreenCR
Library
Public Safety
City Services
Get Involved
Americans with Disabilities Act

Our Watershed



SHARE

Where Does Our Water Come From?

The City of Cedar Rapids obtains its drinking water supplies from shallow vertical and collector wells constructed in the sand and gravel deposits along the Cedar River. Those deposits form an underground water-bearing layer called an alluvial aquifer. Because of continuous pumping of the City's wells, most of the water in the aquifer is pulled from the river. The rest of the water is supplied as water percolates up from a deeper bedrock aquifer or down from the top of the ground.

Our drinking water from those wells benefits from natural filtration through the riverbank. This natural sand filtration has proven beneficial, pre-treating the water before it ever reaches the City's two treatment plants (both conventional lime-softening facilities).

Watershed Monitoring

In order to most effectively manage our water resources, the Cedar Rapids Water Division has worked with state and federal agencies to complete a source water assessment, identifying potential contamination sources in the Cedar River watershed. The results of that assessment, paired with a continuous monitoring program, help us better understand our watershed. We have confirmed that some contaminants, including nitrate, herbicides and bacteria, enter the Cedar River watershed upstream from our wells. The watershed of the Cedar River upstream from Cedar Rapids is over 6,500 square miles and extends into southern Minnesota. Monitoring of these contaminants will continue to ensure a strong watershed protection program.

If you are interested in reviewing our source water assessment or any monitoring results, please contact the CRWD at 319-286-5910.

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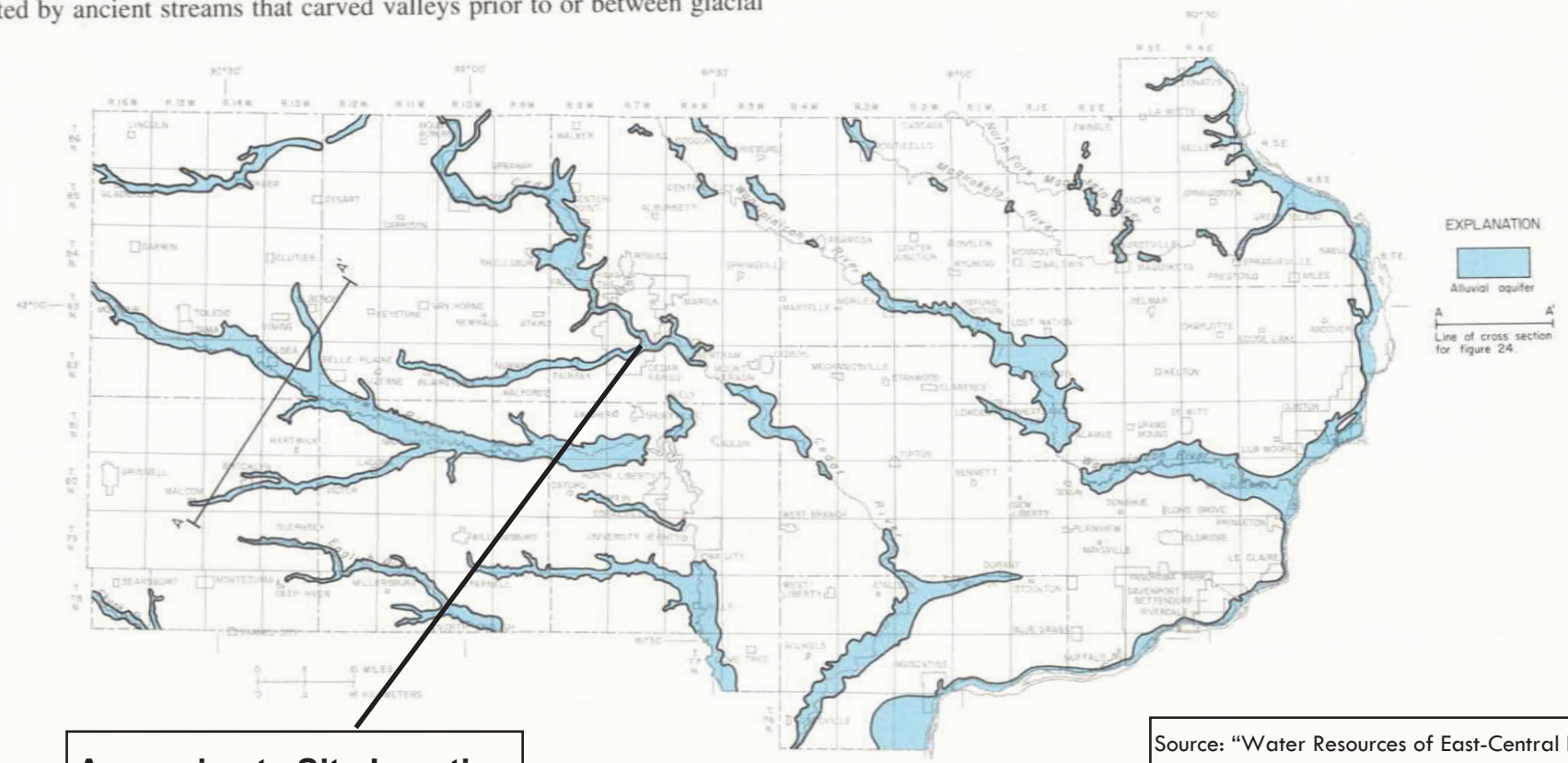
Surficial Aquifers

The surficial aquifers are located within the unconsolidated materials above the bedrock surface. They are subdivided into alluvial, buried-channel, and drift aquifers.

The alluvial aquifers are deposits located along present-day watercourses. They consist of sands and gravels interbedded with less-permeable silts and clays and lie beneath the flood plains of larger rivers and creeks. In the eastern half of the report area, the Iowa, Cedar, Wapsipinicon, and Maquoketa Rivers as well as Buffalo Creek alternately flow through narrow bedrock gorges and wide flood plains (fig. 22). Thus the alluvial aquifers occur irregularly in the valleys of these rivers.

The buried-channel aquifers (fig. 23) are the unconsolidated material deposited by ancient streams that carved valleys prior to or between glacial advances. Many of these ancient valleys were scoured deeply into the bedrock and are much wider than the valleys of present streams (fig. 24). Buried channels may be easily recognized on the bedrock topography map (fig. 25), but are only poorly expressed in the modern landscape. While they are not generally expressed as primary features of present topography, they exert noticeable influences on modern drainage. Prairie Creek near Cedar Rapids, Deep Creek near Preston, and the lower stretches of the Cedar, Wapsipinicon, and Maquoketa Rivers follow the courses of buried channels. See figures 22 and 23. In addition, most of the irregularly occurring alluvial aquifers in the eastern half of the report area are located where modern stream valleys intersect buried bedrock channels.



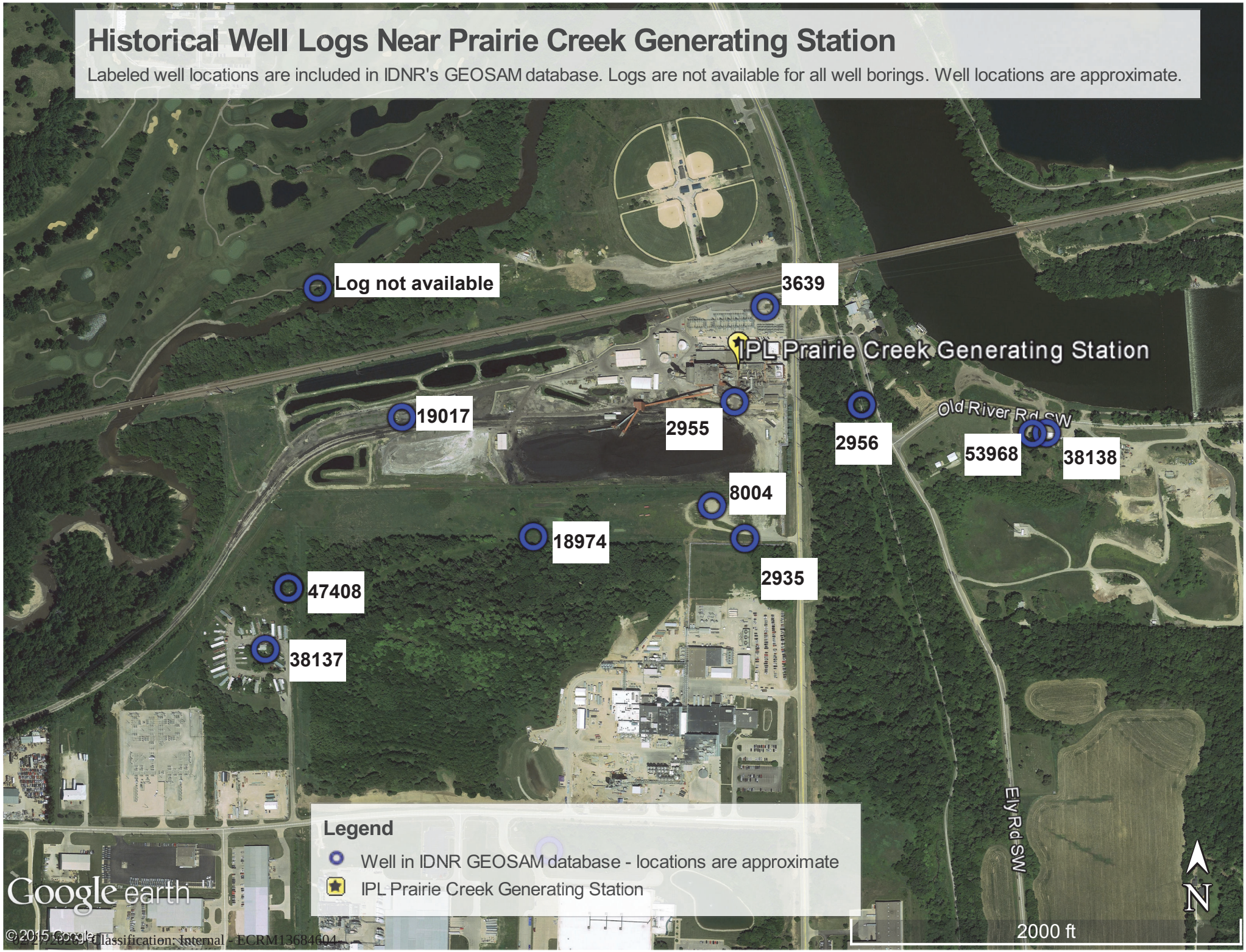
Source: "Water Resources of East-Central Iowa," Iowa Geologic Survey Water Atlas No. 6.

Figure 22.—Areal distribution of alluvial aquifers in east-central Iowa

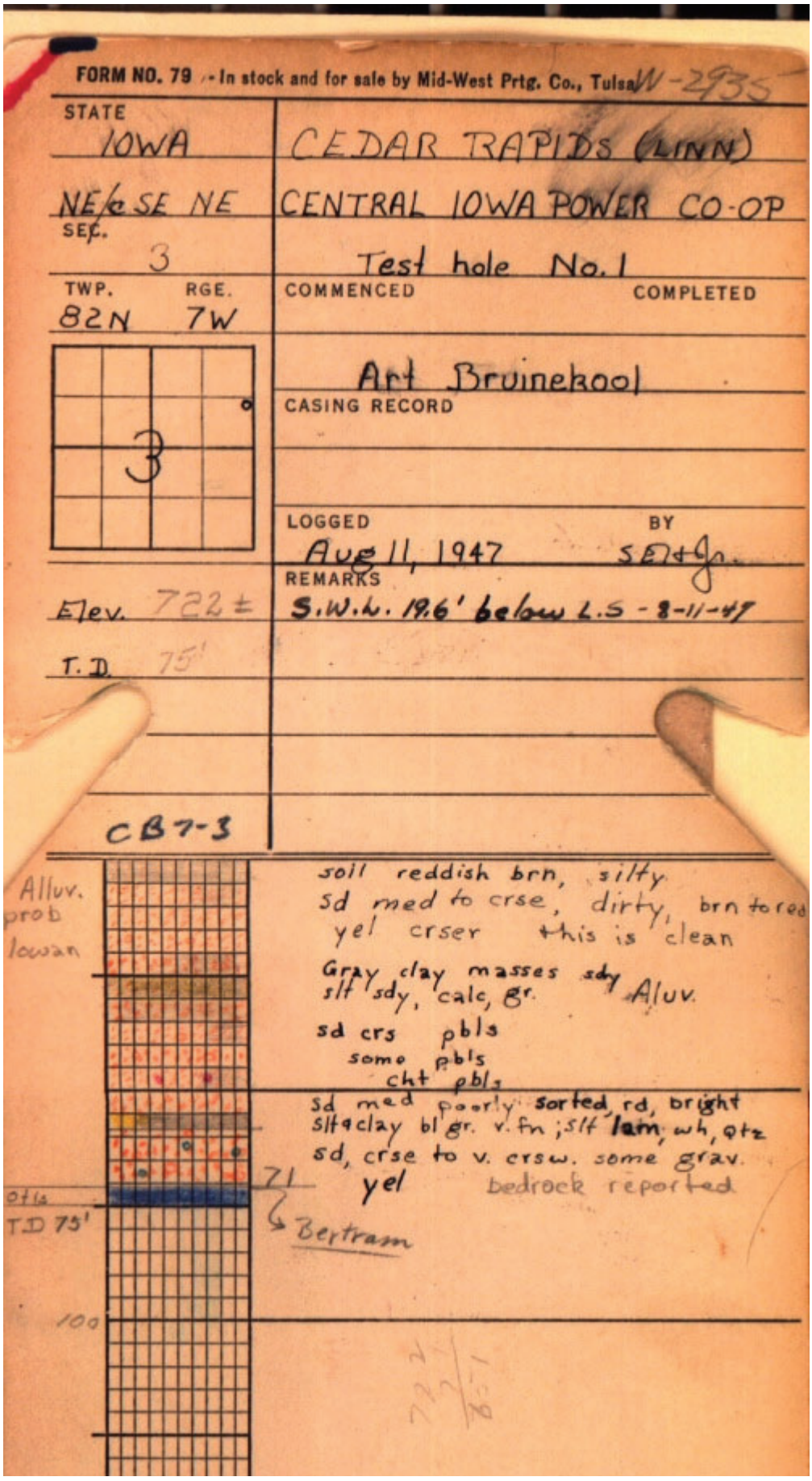
02/27/2026 - Classification: Internal - ECRM13684604

Historical Well Logs Near Prairie Creek Generating Station

Labeled well locations are included in IDNR's GEOSAM database. Logs are not available for all well borings. Well locations are approximate.



Classification: Internal - ECRM13684604



FORM NO. 79 - In stock and for sale by Mid-West Prtg. Co., Tulsa W-2935

STATE
IOWA

CEDAR RAPIDS (LINN)

NE¼ SE NE
SEC.
3

CENTRAL IOWA POWER CO-OP

Test hole No. 1

TWP. 82N RGE. 7W

COMMENCED COMPLETED

Art Bruinekool

CASING RECORD

LOGGED BY
Aug 11, 1947 SEJ+JP.

REMARKS
S.W.L. 19.6' below L.S - 8-11-47

Elev. 722 ±

T.D. 75'

CB 7-3

Alluv. prob Iowan

soil reddish brn, silty
sd med to crse, dirty, brn to red
yel crser this is clean

Gray clay masses sdy slt sdy, calc, gr. Aluv.

sd crs pbls
some pbls
cht pbls

sd med poorly sorted rd, bright
slt & clay bl gr. v. fn; slt lam, wh, qtz
sd, crse to v. crsw. some grav.
yel bedrock reported

71

Bertram

Otis

T.D 75'

100

02/27/2026 - Classification: Internal - ECRM13684604

General | Construction | Logs | Stratigraphy | Water | Storage

Identification

Date Received	
Owner Name	Hide-A-Way Manor
Alt Name	
WNumber	38137
PWTS ID	
Storet ID	
SDWIS ID	2411834
USGS ID	
Project	SOURCE WATER PROTECTION
Operator	Unknown

Location

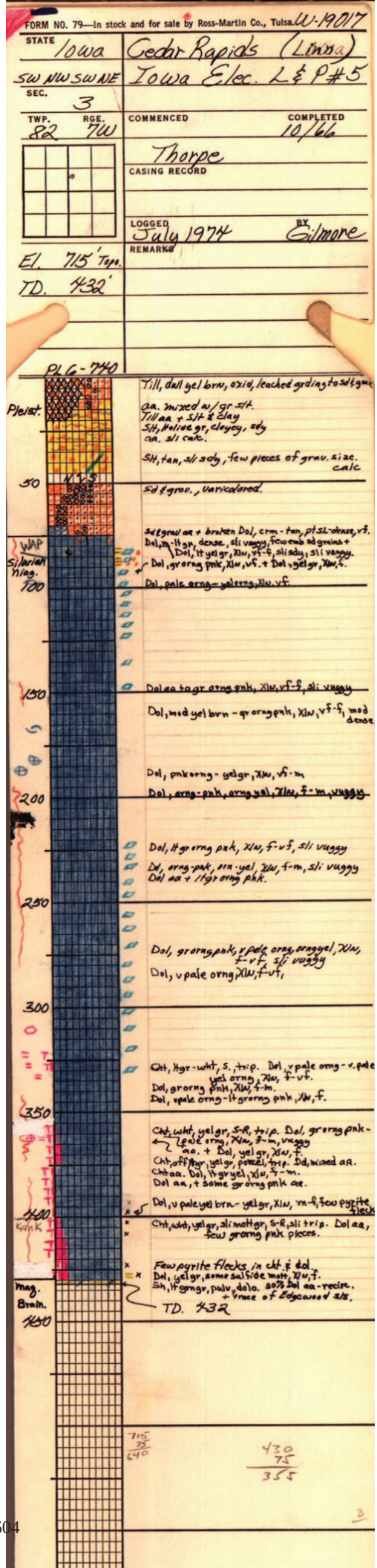
State	Iowa
County	Linn
Quadrangle	Cedar Rapids South, Iowa
Township	T82N
Range	R7W
Section	3
Quarter	SW NE NE
Latitude	41.9401300000
Longitude	-91.6478370000
Accuracy	GPS +/- 20 m.
UTM X	612089
UTM Y	4644013

Site

Site Type	Drilled hole
Well Status	Active
Field Located	
Elevation	741 ft
Elevation Accuracy	Digital Elevation Model Accurate to 5 ft
Landscape Position	Valley

Drilling

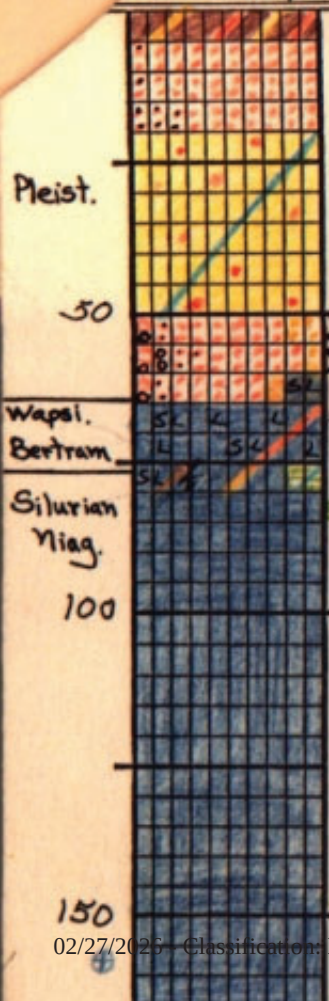
Drilling Company	Unknown
Drilling Date	
Drill Method	Unknown
Bedrock Depth	
Well Depth	142 ft
Total Depth	142 ft
Well Types	Public Access
Aquifers	Silurian



02/27/2026 - Classification: Internal - ECRM13684604

FORM NO. 79—In stock and for sale by Ross-Martin Co., Tulsa. W-18974

STATE Iowa	Cedar Rapids (Linn)
SE NE SW NE	Central Iowa Power #4
SEC. 3	
TWP. 82 RGE. 7W	COMMENCED 8-22-66 COMPLETED 9-14-66
3°	Thorpe Well Co.
	CASING RECORD 42" csg 0'-5', 32" csg +1'-23', 24" csg +1'7"-69'7", 16" csg +2'10"-90'
	LOGGED 10-22-71 BY Gilmore
EL. 722'	REMARKS Cable tools
TD. 439'	SWL-40'-58', PL-113.9'
	Yield-600 gpm
PL6-717	



Fill, pale yel brn, sdy, slty, calc.
Sd, yel brn, med, sli clayey

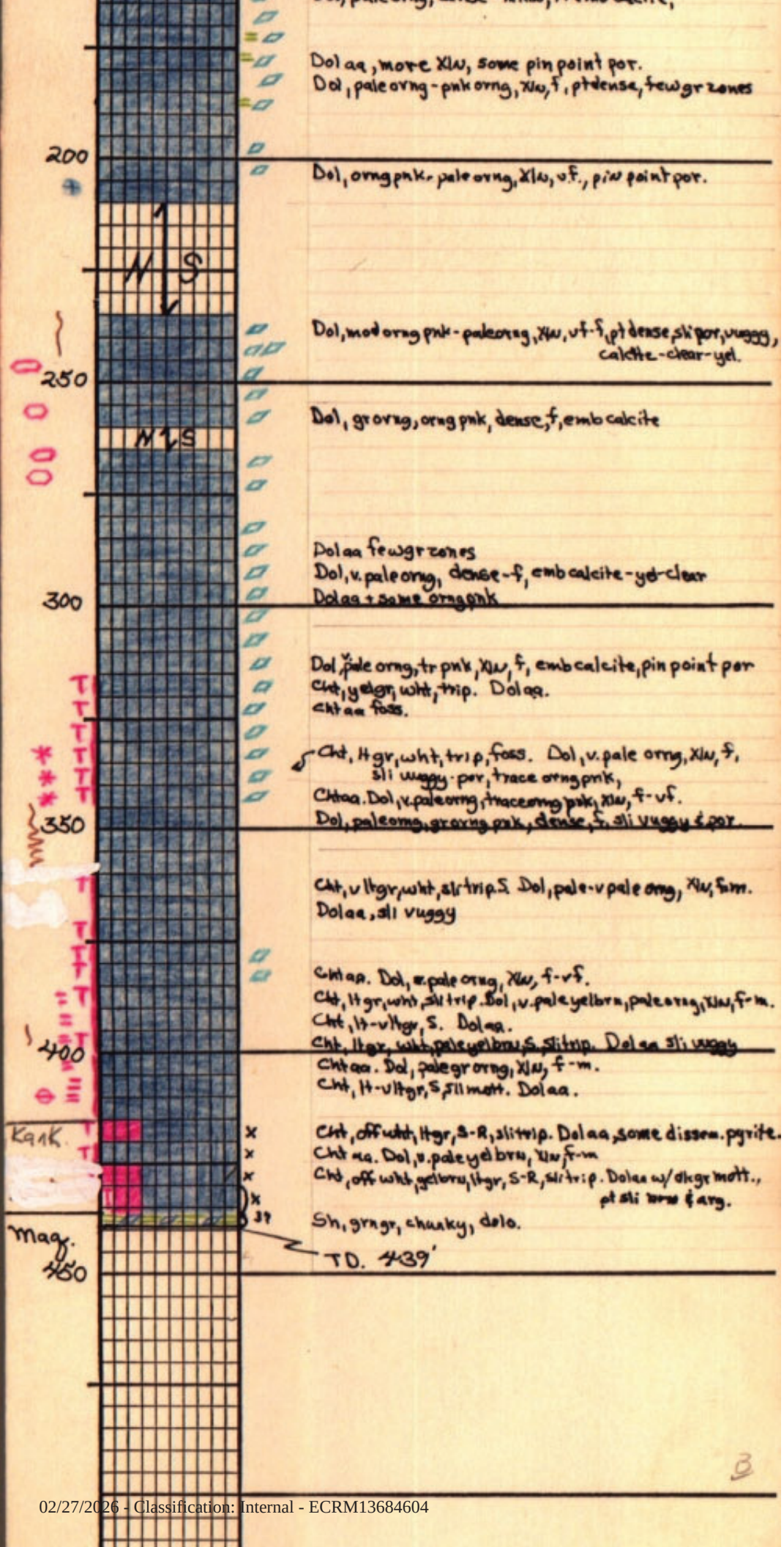
Sd, yel brn, m-crs, sli clayey
Silt, chalky yel, calc, few emb sd grains, calc.

Sd & Gravel, 95% qtz, clean

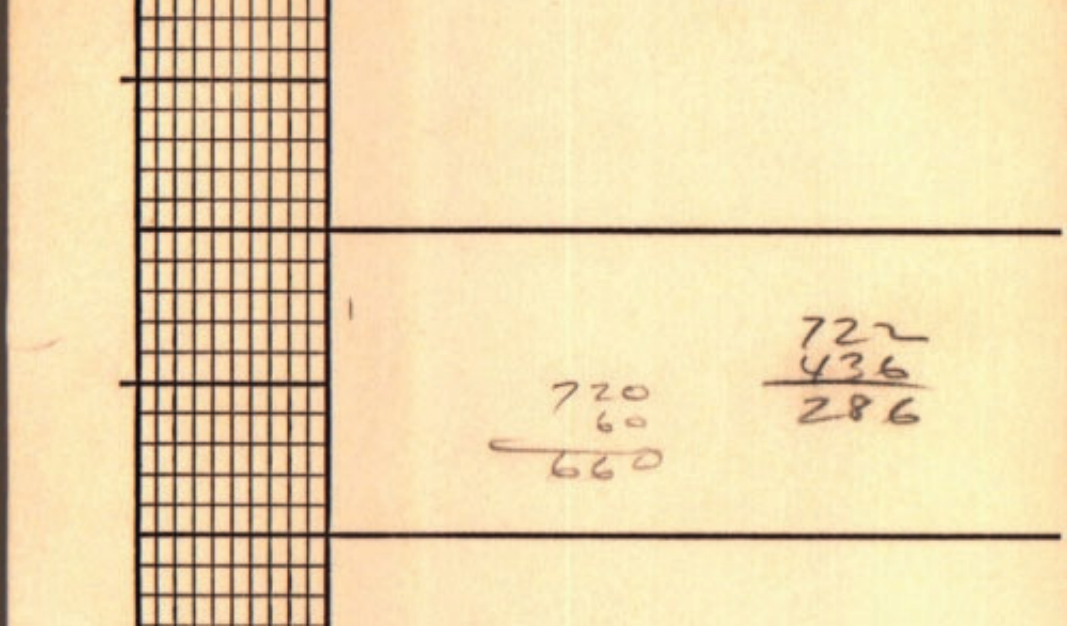
Sd & gr aa + Dol, pale yel org, SL-L, oxid.
Dol, brn gr-m gr, SL-L, vuggy, tr emb sd, hard
Dol aa - lt gr-lt brn gr
Dol aa, sli diver & grdng to crs sltgrd. Dol, pale-v pale
Dol yel brn, XLN, vf, tr emb sd. Sh, gr grn, chunky calc.
Dol v. pale yel brn, yel gr, XLN, vf-crs.
aa & Dol, pale org, dense
Dol, pale org, dense-f, few vugs, few dk gr zones.

Dol, pale org, dense - m XLN, tr emb calcite

02/27/2026 - Classification: Internal - ECRM13684604



02/27/2026 - Classification: Internal - ECRM13684604



02/27/2026 - Classification: Internal - ECRM13684604

FORM NO. 79—In stock and for sale by Ross-Martin Co., Tulsa. W-8004

STATE: IOWA

CEDAR RAPIDS (LINN)

NW NESENE
APP. C ~~NE SE~~

CENTRAL IOWA POWER COOP #3

SEC. 3 ~~NWNESENE~~

(REA)

TWP. 82N RGE. 7W

COMMENCED AUG. 21 – COMPLETED SEPT. 14, 1956

HOEG & AMES

CASING RECORD
77' OF 20" CASING

99' OF 12" CASING (CEMENTED)

LOGGED FEB. 25, 1957 BY NORTHUP

EL 722'

REMARKS SWL 38.67'

TD 434

PL 144.9' @

SWL 39.12'

3/57

PWL 145± @ 476 gpm

EK8-1

PLEIS.

LOESS YEL., NON CALC.
TILL YELLOW, OXIDIZED, LEACHED

50

TILL YELLOW, UNOXIDIZED, UNLEACHED

TILL SLI. MISSD - A-a, BECOMING GR.
GRAVEL f. A-a; SD. LT. GR. CHSE Tuf - A-a

GRAVEL f. A-a.
GRAVELLY SD. GR. + YEL. CHSE. A-a

77'

WAPSI.

Bert.

LS. LT. GR, BF; LITHY Dolo.

LS. LT. GR, LITHY Dolo.

93

Dol. Chm. A. T. f. CALC.; LS. GR.

99

Dol. Chm. f.; SLI. GR.

Dol. Chm. f. SAC.

SILURIAN

100

NIAG.

Dol. chm. f.

Dol. GR. SLI. MUCKY

Dol. Chm. + BF f.

Dol. Chm. f.

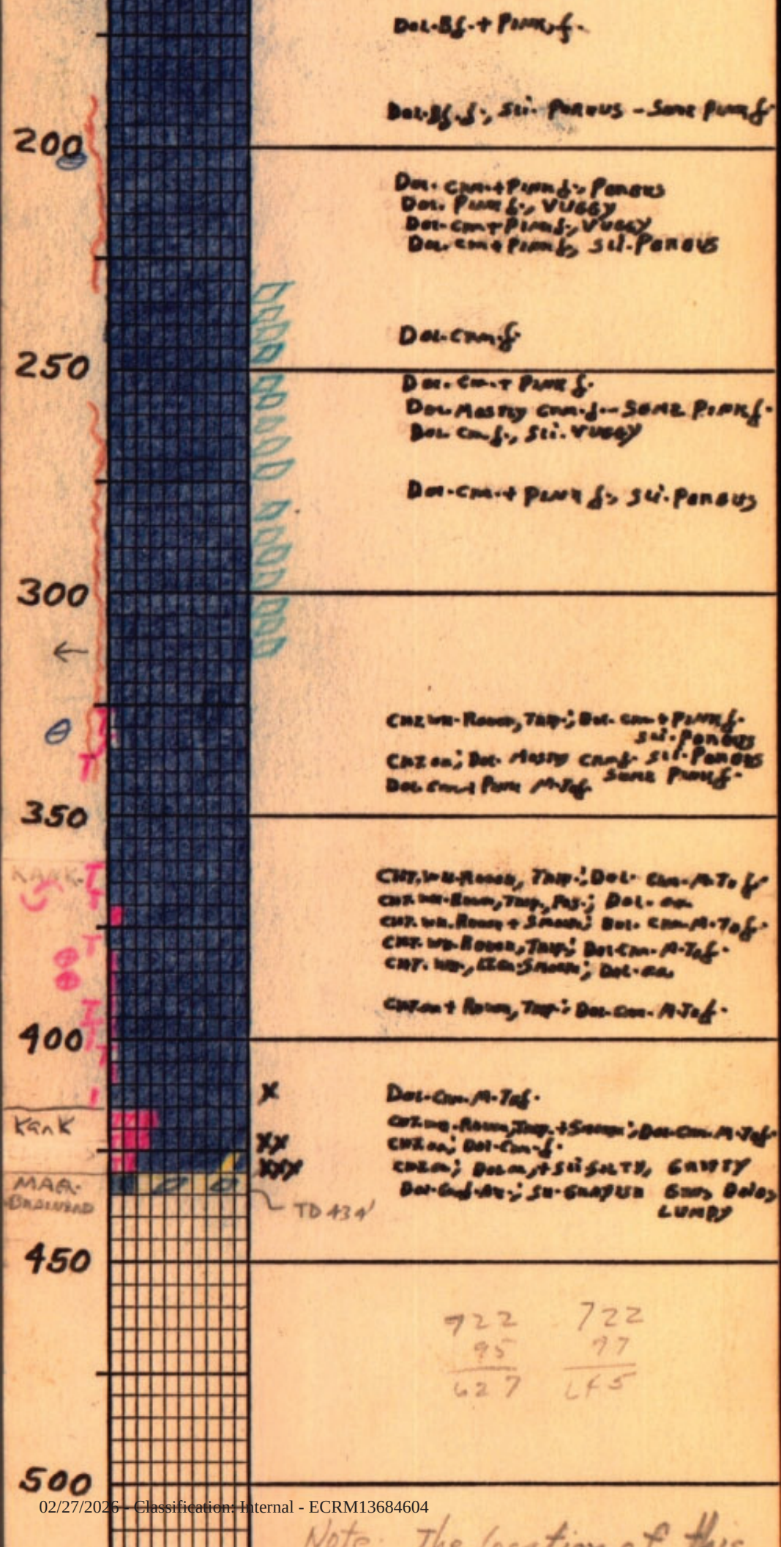
Dol. Chm. + PINK f.

150

Dol. Chm. + PINK A. Tuf.

Dol. Chm. + PINK f.

02/27/2026 Classification: Internal - ECRM13684604



02/27/2026 - Classification: Internal - ECRM13684604

well should be checked. The map provided by the Company indicates the plant is in the

NE¼ sec. 3-82-7W

Elev. should be checked also.

A set of geophysical logs was ran 3-23-76. Caliper and radiation logs gave indications of major cavities from 200-220', and 300-320', Those

logs are on file with the Carbonate Hydrology Project data.

3-24-76
Bunker

LB

722
430
292

02/27/2026 - Classification: Internal - ECRM13684604

FORM NO. 79 - In stock and for sale by Mid-West Prtg. Co., Tulsa

N - 3639

STATE: IOWA

Cedar Rapids (Linn)

SE-NE-NE

SEC. 3

TWP. 82N RGE. 7W

Central Iowa Power Co-op #1

(No 2 TH)

R.E.A.

COMMENCED: May 5-1949

COMPLETED: June 1, 1949

Hoes & Ames - Ed Martin

CASING RECORD

110' of 12" Casing Cemented in 20" hole - Open 12" hole below

LOGGED BY: M. Parker RW.

REMARKS

EL. 722'

TD 434'

Pump setting 290'.

2nd Prod. Test after 1st acid.

SWL. 24.50'

PWL 250± @ 248 gpm

CE10-6

for 1½ hrs. when rate ~~was increased to 250 gpm~~ well started pumping air

Silt, lt tan. fn. sd, rd, emb. calc.
do.
Dol. yel-tan. fn-xln. sdy, silty.
do.
Dol. buff, spkld tan. f sdy, silty, spkling
Dol. lt to med gray, c fn to subl/th.
Dol. do. emb. calcite in part.
Dol. gray, mottled. v. fn - subl.
Dol. gray & tan. fn. xln. sdy, org. lt-dk grn sdy frags.
Dol. gray c tan. fn in act xln. spkl. silty, sdy
Dol. gray, tan, & greenish, fn-med. sdy, org.
Ls, bf-gr, mot, sl. frag. tr grn. shale

630 Dol. yel-pk, f-m sac por.

722
92
630

Sd, A, clr. v. small qtz. X's

Dol, yel, f sac, less por.

Dol, yel-pk, f sac, dens, little por; Sh yel grn unc. vug. fos.

Cht, wh-bf, G-S; Dol, pk brn f dns, vug por

200

Dol, pk-bf, f, vug fos.

Dol, crm f vug fos.

Dol, pk + pch, f, vug. crm

Cht, wh-bf, T-G; Dol, crm v.f.

300

pk-crm f-m

722
350
372

372

Dol, gr bf.

400

Cht, wh G, S, T

722
415
307

Cht, some bf.

Dol, mot w blk pyr.; Sh, gr amor.

Dol, crm, m.

Sh, grn, earth; Dol, grn f

722
425
297

→ Driller reports Shale at 432' - TD 434'. When measured hole was found to be 5' deeper than shown on samples.

722
426
297

02/27/2026 - Classification: Internal - ECRM13684604

FORM NO. 79 - In stock and for sale by Mid-West Prtg. Co., Tulsa W-2956

STATE: Iowa

CEDAR RAPIDS (LINN)

NW-SW-NW

Central Iowa Power Co-op #3 ('47)

SEC. 2

TWP. 82N RGE. 7W

COMMENCED August 13, 1947 COMPLETED

Pella Tank & Pipe Co. Brumbaugh

CASING RECORD

cased with 5-3/16" casing (removed)

LOGGED Aug. 25, 1947 BY M. Parker

REMARKS

El. 715

No water level data

T.D. 55'

Test hole abandoned

CB8-1

0 Top soil dk. brn. silty sdy.
Sd. fn-med R-a dirty clay tan v. sdy.
Sd med-crse R-a. dirty.
Sd. a.a. some gravel
Clay H. gray silty sdy v. silty calc
a.a.
50 Clay H. gray-tan v. v. sdy.
clay a.a. & sd. fn-med a-r.
Sd. med-crse a-r-dirty some gravel

T.D. = 55'

715
55
660

02/27/2026 - Classification: Internal - ECRM13684604

FORM NO. 79 - In stock and for sale by Mid-West Prtg. Co., Tulsa W-2955

STATE: Iowa

CEDAR RAPIDS (LINN)

NE-SE-NE

Central Iowa Power Coop. Testhole #2

SEC. 3

TWP. 82N RGE. 7W

COMMENCED

COMPLETED

Art Brunekool

CASING RECORD

5 3/16" casing to bedrock

LOGGED BY

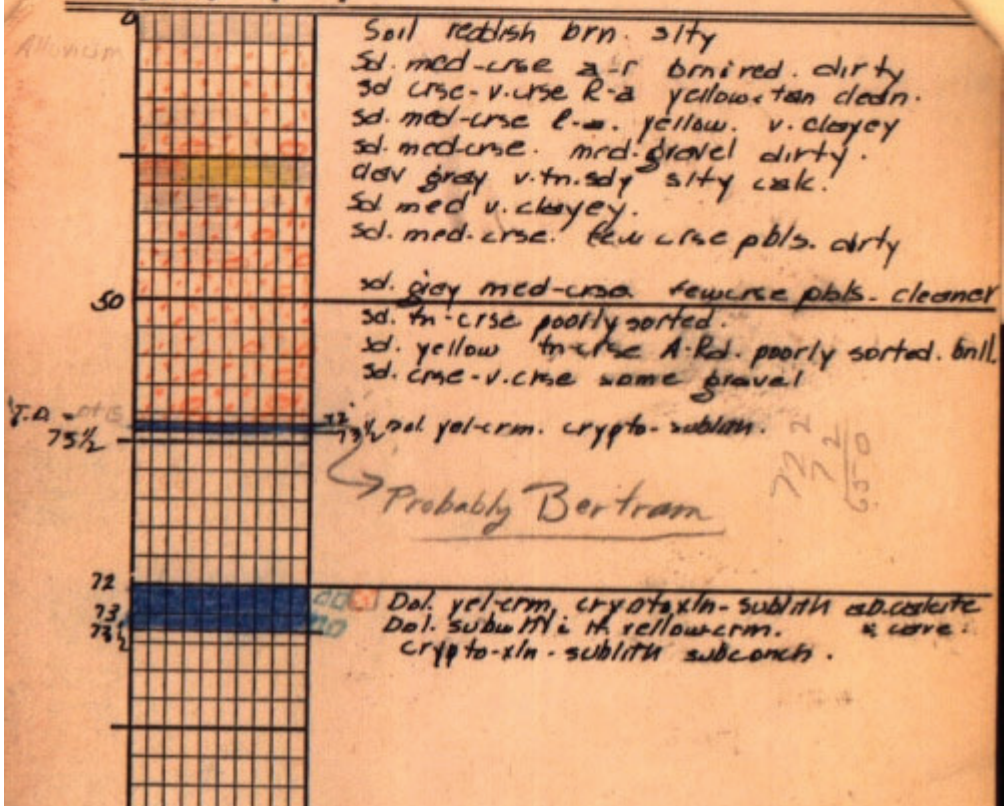
Aug 13, 1947 M Parker

REMARKS

El. 722±

T.D. 73½

CD7-9



02/27/2026 - Classification: Internal - ECRM13684604

General | Construction | Logs | Stratigraphy | Water | Storage

Identification

Date Received	
Owner Name	New Shack Tavern, The
Alt Name	
WNumber	38138
PWTS ID	
Storet ID	
SDWIS ID	2409013
USGS ID	
Project	SOURCE WATER PROTECTION
Operator	Unknown

Location

State	Iowa
County	Linn
Quadrangle	Cedar Rapids South, Iowa
Township	T82N
Range	R7W
Section	2
Quarter	NW SW NE
Latitude	41.9431790000
Longitude	-91.6330300000
Accuracy	GPS
UTM X	613311
UTM Y	4644371

Site

Site Type	Drilled hole
Well Status	Not Used
Field Located	
Elevation	728 ft
Elevation Accuracy	Digital Elevation Model Accurate to 5 ft
Landscape Position	Valley

Drilling

Drilling Company	Unknown
Drilling Date	
Drill Method	Unknown
Bedrock Depth	
Well Depth	120 ft
Total Depth	120 ft
Well Types	Public Access
Aquifers	Silurian

General | Construction | Logs | Stratigraphy | Water | Storage

Identification

Date Received	
Owner Name	New Shack Tavern, The
Alt Name	
WNumber	53968
PWTS ID	
Storet ID	
SDWIS ID	2413414
USGS ID	
Project	SOURCE WATER PROTECTION
Operator	Unknown

Location

State	Iowa
County	Linn
Quadrangle	Cedar Rapids South, Iowa
Township	T82N
Range	R7W
Section	2
Quarter	NW SW NE
Latitude	41.9431730000
Longitude	-91.6332960000
Accuracy	GPS +/- 20 m.
UTM X	613289
UTM Y	4644370

Site

Site Type	Drilled hole
Well Status	Not Used
Field Located	
Elevation	731 ft
Elevation Accuracy	Digital Elevation Model Accurate to 5 ft
Landscape Position	Valley

Drilling

Drilling Company	Unknown
Drilling Date	
Drill Method	Unknown
Bedrock Depth	
Well Depth	40 ft
Total Depth	40 ft
Well Types	Public Access
Aquifers	Alluvium

02/27/2026 - Classification: Internal - ECRM13684604

Iowa Department of Natural Resources Geological Survey Bureau
109 Trowbridge Hall Iowa City, Ia. 52242-1319 PH (319) 335-1575

WELL RECORD 47408

Permit No. _____

Site identification

Property Owner Kloubec Aquaculture Well Number _____

Address 3800 est SW C.R.

Tenant _____

Well Depth 335 ft Date Completed 7 / 25 / 96

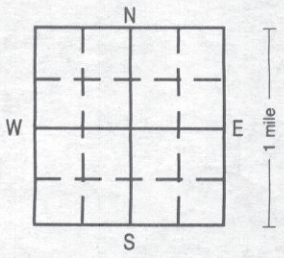
Location

County Linn

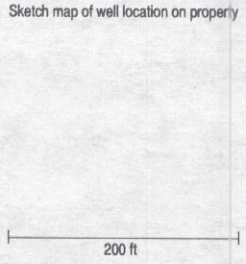
____mi. N/S and ____mi. E/W of intersection of _____ and _____

____1/4 of the ____1/4 of the ____1/4 of Sec 3 TWP 82 RNG 7 E/W

Show exact location of well in section grid with a dot (●).



Sketch map of well location on property



☐ upland ☒ hillside ☐ valley Elevation (if known) _____

Formation log

From	To	Color	Hardness	Formation description
0	38	Yellow		Clay
38	78			Limestone
78	170			Devonian
170	335			Silurian

use additional sheets as needed

Remarks (including depth of lost drilling fluids, materials, or tools)

Well use

☐ Domestic ☐ Municipal ☐ Industrial
☒ Livestock ☐ Public Supply ☐ Monitoring
☐ Test Well ☐ Irrigation ☐ Other _____ (explain)

Drill method

☒ rotary ☐ auger ☐ cable other _____

Hole size

14 inch from 0 ft to 20 ft
8 inch from 20 ft to 100 ft

hole size continued
6 inch from 100 ft to 335 ft
____ inch from ____ ft to ____ ft

Record all depth measurements from ground level (GL). Use (+) for above GL measurements.

Casing

Drive shoe (yes / no) Pitless adaptor (yes / no)

Size (ID/OD)	Type / Wt	Depth top	Depth bottom	Amount (length)
6 SDR 21	PVC	+1	100	101
~~5 100#~~				
4½ SCH 40 PVC		95	215	120

Perforated or slotted casing? (yes / no)

Perforated / slotted from 175 ft to 215 ft
Perforated / slotted from ____ ft to ____ ft

Casing grouted? (yes / no)

Type	Depth Top	Depth Bottom	Amount
Bensel	0	20	2 SACKS
Bentonite Pellets	20	100	

Well screen? (yes / no)

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material

Bottom capped (yes / no) with _____
Seals / Packers (yes / no) kind _____ depth _____ ft
Gravel packed (yes / no) from _____ ft to _____ ft
type _____ amount _____

Well developed? (yes / no)

Explain A.R

Pump installed? (yes / no) Date ____ / ____ / ____

Installer's name ~~Rob~~ Dave
Type of pump Sub Depth to intake 200 ft
Pump diameter 4 Rated capacity 70 GPM

Water information

Aquifer: ☐ sand/gravel ☒ limestone ☐ sandstone
Main water-supply zone from 175 ft to 335 ft
Final water level (static water level) 110 ft (below / above) GL.
Pumping water level 180 ft below GL; ☐ tape ☐ airline ☐ E-line Est
At yield of 100 GPM; ☐ orifice ☐ volumetric ☒ estimate Date 7/25

Water quality test? (yes / no) Date tested ____ / ____ / ____

Tested by _____
Test results _____

Contractor Gingerich Well & Pump

Address 1321 Locust Ave, Kalona
Driller Kirk Gingerich Certification no. 40046

02/27/2026 - Classification: Internal - ECRM13684604

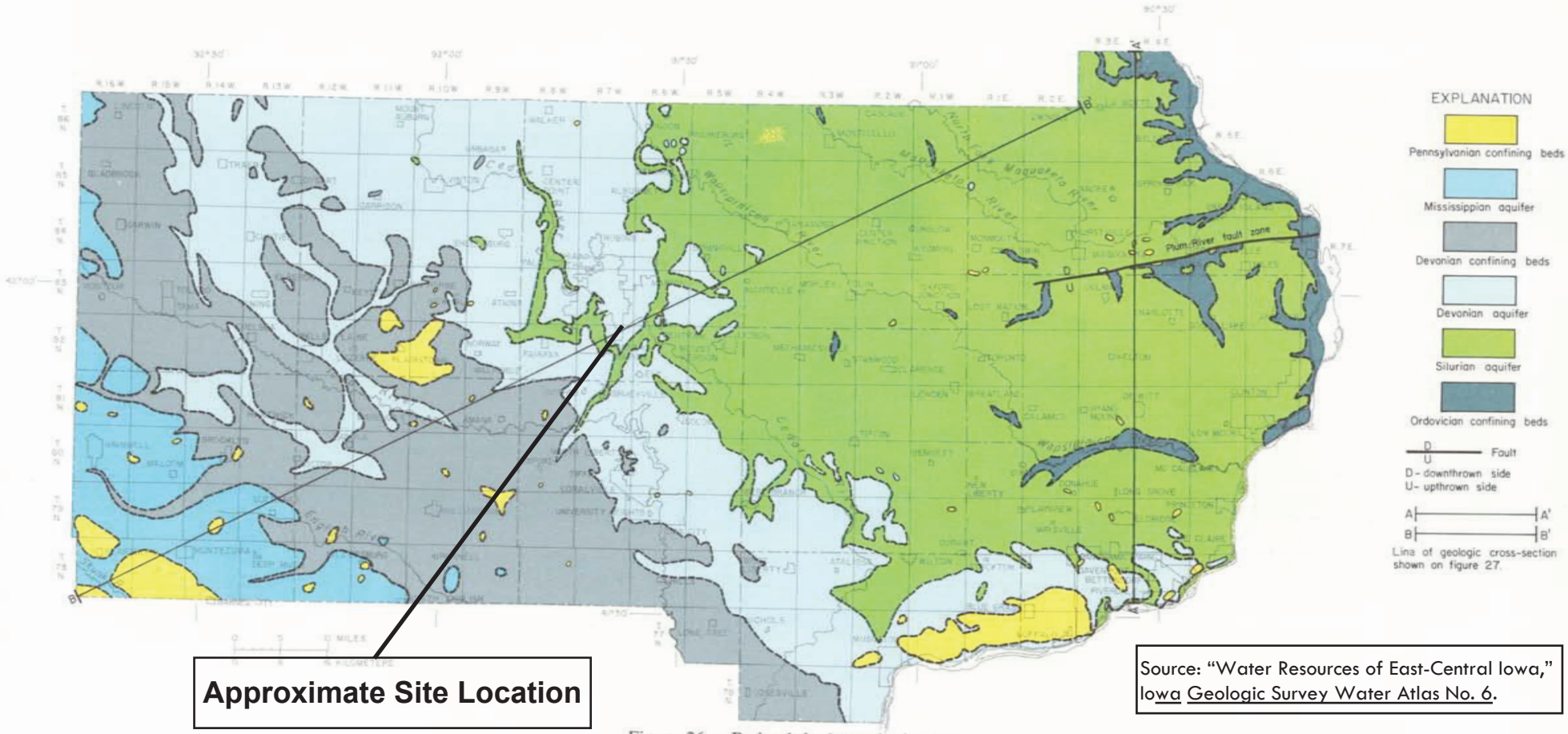
white copy - **Iowa DNR, Geological Survey Bureau** blue copy - **Well Contractor** pink copy - **Customer** yellow copy - **County Health Officer**

Bedrock Aquifers

The bedrock hydrogeologic map (fig. 26) shows the aquifers and confining beds that make up the bedrock surface in east-central Iowa. Pennsylvanian confining beds are the bedrock in the extreme southwest corner of the area, in southeast Muscatine County and southwest Scott County, and in other small outlying localities. The Mississippian aquifer is found beneath the surficial deposits in most of the southwest part of the region. The Devonian confining beds comprise the bedrock surface in an area about 25 miles wide extending from the northwest corner to the south-central part of the report area. They have been partly or completely removed in parts of the Belle Plaine and Poweshiek buried bedrock channels.

The Devonian aquifer is the bedrock in a broad belt that parallels the northeast side of the Devonian confining beds. This belt is from 12 to 25 miles wide and extends from northern Benton and Linn Counties to the southern border of Muscatine County. The Devonian and Silurian aquifers are separated by an irregular zone of relatively thin shale occurring near the base of the Devonian and represented by a single line on figure 26.

The Silurian aquifer comprises the bedrock surface over most of the eastern half of the area. In the extreme northeastern border area the Ordovician confining beds are found at the bedrock surface. They also appear in several buried bedrock channels where the Silurian aquifer has been removed locally by erosion.



Source: "Water Resources of East-Central Iowa," Iowa Geologic Survey Water Atlas No. 6.

Figure 26.—Bedrock hydrogeologic map

02/27/2026 - Classification: Internal - ECRM13684604

The Cambrian-Ordovician aquifer and the underlying Dresbach aquifer are not at the bedrock surface in east-central Iowa. These aquifers are shallowest in the northeastern part of the area; they slope southwest and become progressively deeper in the subsurface. Figure 27 shows that all the rock units are approximately parallel to each other and dip (slope) toward the southwest.

A major structural feature, the Plum River fault zone, extends approximately 30 miles through southern Jackson County and northwest Clinton County. This structure continues eastward approximately 40 miles into northwest Illinois, where it was originally recognized and mapped (Kolata and Buschbach, 1976). As much as 400 feet of vertical displacement has been inferred by the Illinois State Geological Survey in the vicinity of Savannah, Illinois, and similar displacements may occur in Iowa between Preston and Maquoketa. In the vicinity of Preston, an uplifted area south of the fault zone is indicated by the anomalous presence of the Ordovician confining beds at the land surface. Preliminary results from an ongoing research drilling program in the Devonian and Silurian aquifers have indicated a possible extension of the structure as far west as southern Linn County, Iowa. The Plum River fault zone is probably quiescent, as no evidence of geologically recent movement along the fault has been found.

The fault zone has cut the various bedrock aquifers and confining beds, and faulting has placed them adjacent to rock units of dissimilar hydrologic characteristics (fig. 27). Depending on the local displacement or associated fracturing, the fault may serve either as a barrier to or a conduit for ground water movement. Where an aquifer is placed against a confining bed the fault may serve as an impediment to ground-water movement. Where two different aquifers are placed against one another by the fault there may be continuity between the two aquifers.

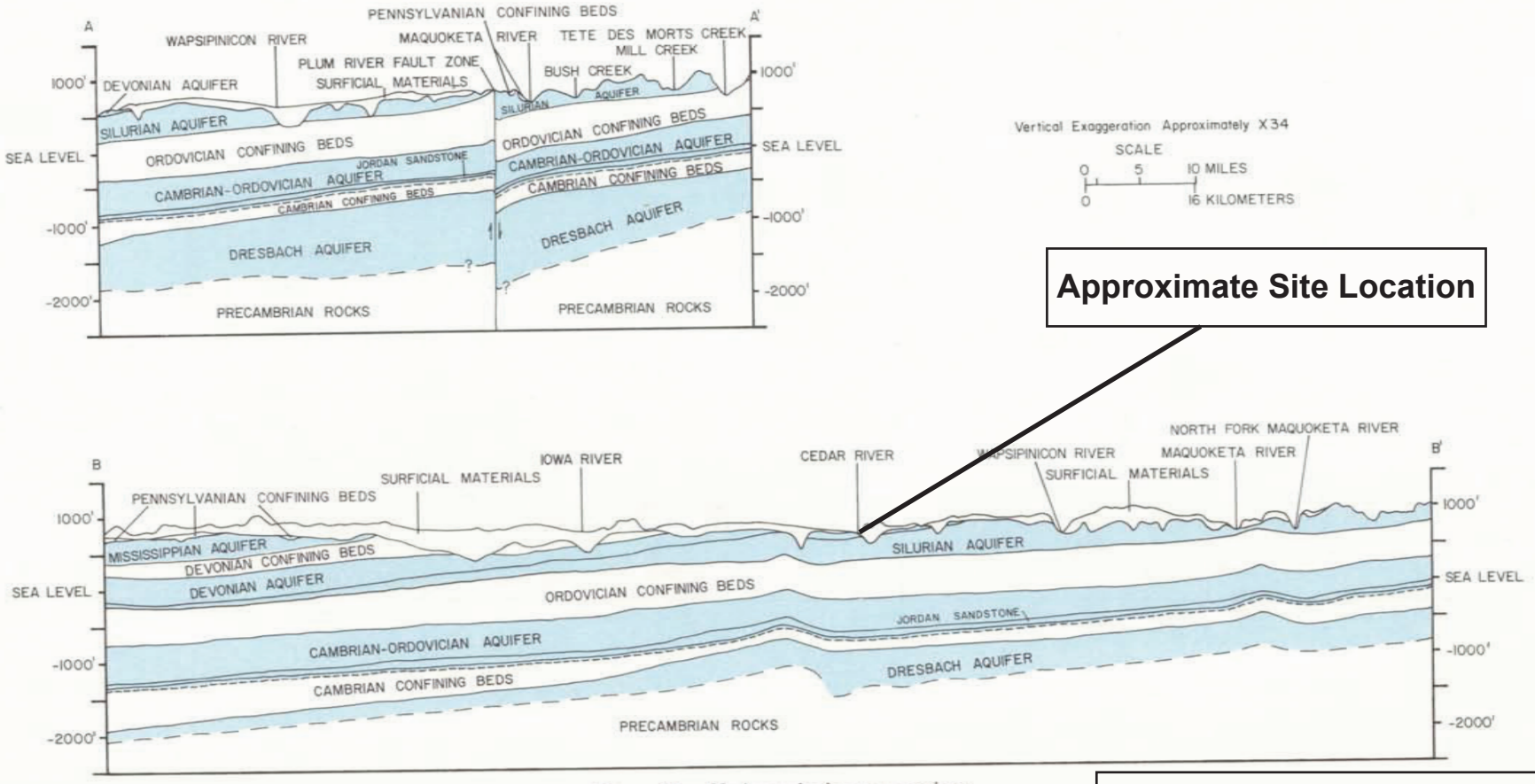


Figure 27.—Hydrogeologic cross sections

Source: "Water Resources of East-Central Iowa," Iowa Geologic Survey Water Atlas No. 6.

02/27/2026 - Classification: Internal - ECRM13684604

Appendix B

Boring Logs and Well Construction Documentation

02/27/2026 - Classification: Internal - ECRM13684604

SCS ENGINEERS
Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
IPL - Prairie Creek Generating Station SCS#: 25215135.60		MW-301

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mike Mueller Cascade Drilling	10/31/2016	10/31/2016	HSA

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-301	Feet	730.0 Feet	8.5 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,447,401 N, 5,426,409 E S/C/N
SW 1/4 of NE 1/4 of Section 3, T 82 N, R 7 W
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Linn	Cedar Rapids

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				TOPSOIL.										
S1	19	3 4 4 6	1–5	SILT WITH SAND, very dark grayish brown (10YR 3/2).	ML			0.5		M				
S2	24	2 7 6 9	6–7	LEAN CLAY WITH SAND, dark grayish brown (10YR 4/2).	CL			0.3		M				
S3	22	3 3 4 6	8–9	POORLY GRADED SAND WITH SILT, dark yellowish brown (10YR 3/4), medium grained.	SP			0.4		M				
S4	23	3 4 4 5	10–12	SANDY SILT, dark yellowish brown (10YR 3/4).	ML			0.3		M				
S5	12	4 9 11 12	13–16	POORLY GRADED GRAVEL, dark yellowish brown (10YR 3/4), coarse grained.	GP			0.3		W				water at 12.5 ft bgs.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm SCS Engineers
2830 Dairy Drive Madison, WI 53711
Tel: (608) 224-2830
Fax:

02/27/2026 - Classification: Internal - ECRM13684604

SCS ENGINEERS
Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW-301

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
S6	17	5 11 11 11	17	POORLY GRADED GRAVEL, dark yellowish brown (10YR 3/4), coarse grained. *(continued)*	GP			0.3		W				
S7	17	5 8 9 9	18 19					0.2		W				
S8	23	2 2 1 4	20 21 22 23					0.2		W				
				End of boring at 23.5 ft bgs.										

02/27/2026 - Classification: Internal - ECRM13684604

Print Form

IOWA DEPARTMENT OF NATURAL RESOURCES

MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Prairie Creek Generating Station Permit No.:

Well or Piezometer No: MW-301

Dates Started: 10/31/16 Date Completed: 10/31/16

A. SURVEYED LOCATIONS AND ELEVATIONS

Locations (± 0.5 ft):

Specify corner of site: SE of parcel 19031-51001-00000

Distance & direction along boundary: 145' W

Distance & direction from boundary to wall: 76' N

Elevations (± 0.01 ft MSL):

Ground Surface: 729.95

Top of protective casing: 732.97

Top of well casing: 732.55

Benchmark elevation:

Benchmark description:

B. SOIL BORING INFORMATION

Name & Address of Construction Company:
Cascade Drilling, LP
301 Alderson St
Schofield, WI 54476

Name of Driller: Mike Mueller

Drilling Method: HSA

Drilling Fluid: NA

Bore Hole Diameter: 8.5 inch

Soil Sampling Method: Spoon

Depth of Boring: 23.5 ft

C. MONITORING WELL INSTALLATION

Casing material: PVC sch 40

Length of casing: 12.5 ft

Outside casing diameter: 2.38"

Inside casing diameter: 2"

Casing joint type: threaded

Casing/screen joint type: threaded

Screen material: PVC

Screen opening size: 0.010"

Screen length: 10 ft

Depth of well: 22.5 ft

Filter Pack:

Material: Red Flint

Grain size: #40

Volume: 300 lbs

Seal (minimum 3 ft length above filter pack):

Material: 3/8 inch bentonite chips

Placement method: Gravity

Volume: 200 lbs

Backfill (if different from seal):

Material:

Placement method:

Volume:

Surface seal design:

Material of protective casing: Steel 6 inch

Material of grout between protective casing and well casing: sand

Protective cap:

Material: Steel, vented

Vented: ☑ Yes ☐ No Locking: ☐ Yes ☐ No

Well Cap:

Material: PVC

Vented: ☐ Yes ☑ No

D. GROUNDWATER MEASURMENT (± 0.01 ft below top of inner well casing)

Water level: 16.27 Stabilization Time: ~5 min

Well development method: Pump and surge block

Average depth of frostline:

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 ½x11 inch map showing locations of all monitoring wells and piezometers.

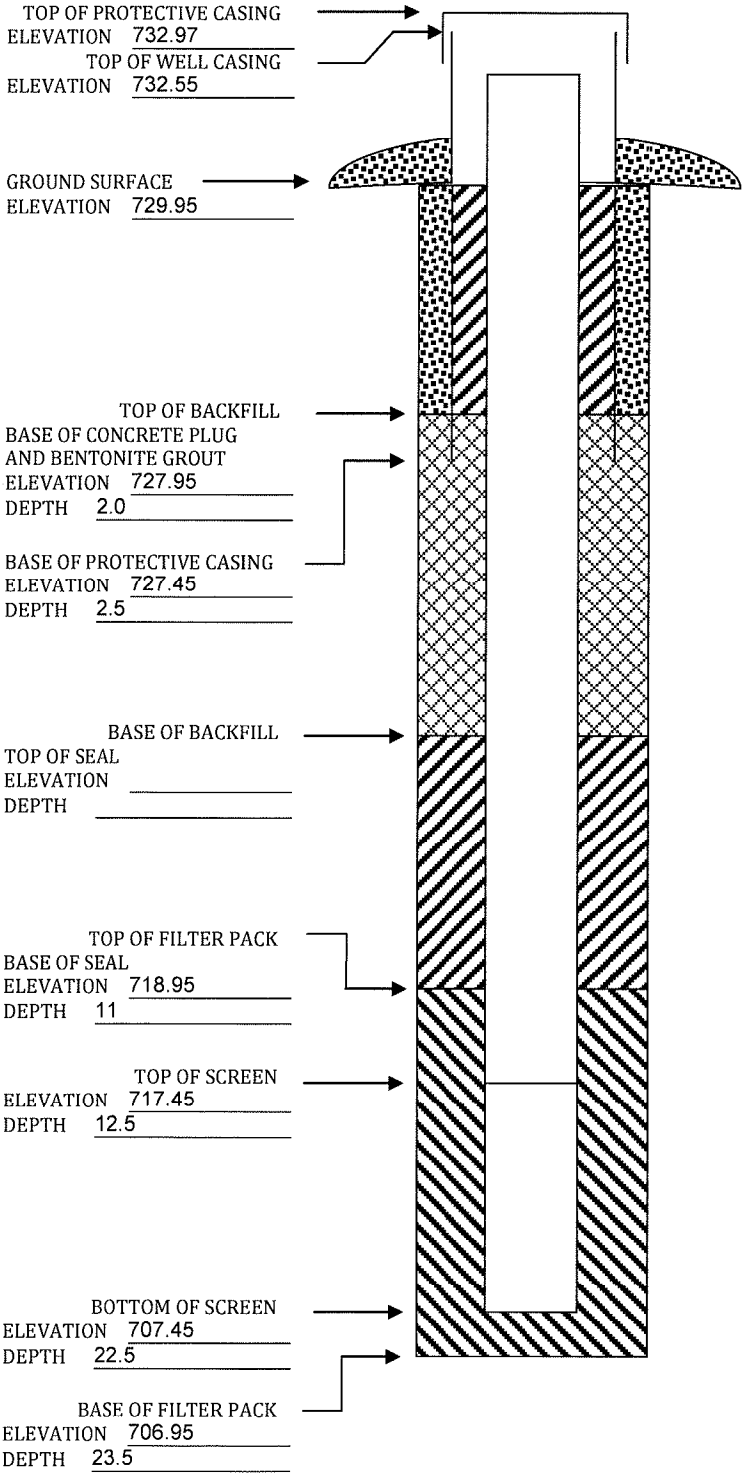
Please mail completed for to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E 9th St, Des Moines IA 50319-0034.

Questions? Call or Email: Nina Koger, Environmental Engineer Sr., 515-281-8986, Nina.Koger@dnr.iowa.gov

02/27/2026 - Classification: Internal - ECRM13684604

ELEVATIONS: ± 0.01 ft MSL
DEPTHS: ± 0.1 ft FROM GROUND SURFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL.)



02/27/2026 - Classification: Internal - ECRM13684604

SCS ENGINEERS
Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Prairie Creek Generating Station SCS#: 25220057		MW301A

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Roy Buckenberger Cascade	6/23/2020	6/23/2020	vibratory

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW301A	Feet	Feet	6.0 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S / C / N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Linn	Cedar Rapids, Iowa

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			1	Topsoil. 10YR3/4.	ML									
1	36		2	Silt with trace fine sand. 10YR3/4.					1.0	M				
			3											
			4											
			5											
			6		ML									
			7											
2	36		8						1.0	W				
			9											
			10	No Return.										
			11											
			12											
	0		13											
			14											
			15											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel:
Zach Watson	SCS Engineers 2830 Dairy Dr., Madison, WI, 53718	Fax:

02/27/2026 - Classification: Internal - ECRM13684604

Boring Number MW301A

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			16	Silty Sand. Fine Sand. Well Graded. 10YR3/4.										
			17											
3	60		18		SM					W				
			19											
			20	Tan and Rust colored Silty Sand. 2.5Y4/3 and 10YR3/4.										
			21											
			22											
4	60		23		SM					W				
			24											
			25	Silty Gravel. 2.5Y2.5/1										
			26		GM									
			27	Lean Clay. Stiff and uniform. No coarse material. Grey. 5Y4/1.										
5	60		28						1.3	W				
			29											
			30											
			31											
			32											
6	60		33		CL				1.0	W				
			34											
			35											
			36											
			37											
7	60		38						1.5	W				
			39											
			40											

02/27/2026 - Classification: Internal - ECRM13684604

Boring Number MW301A

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			41	Lean Clay. Stiff and uniform. No coarse material. Grey. 5Y4/1. *(continued)*										
			42											
8	60		43						1.0	W				
			44											
			45											
			46											
			47		CL									
9	60		48						1.0	W				
			49											
			50											
			51											
10	48		52						1.5	W				
			53											
			54											

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: Prairie Creek Generating Station | Permit No.:
Well or Piezometer No.: MW301A | Dates Started: 6/23/2020 | Date Completed: 6/24/2020

A. SURVEYED LOCATION AND ELEVATION OF POINT (+0.5 ft.)

Specify corner of site: SE of parcel 19031-51001-00 | Distance and direction along boundary: 145' W
Distance and direction from boundary to surface monitoring well: 80' N
Elevation (+0.01 ft. MSL):
Ground Surface: 729.40 | Top of protective casing: 732.45
Top of well casing: 732.07 | Benchmark elevation:
Benchmark description: On-site benchmark. NAVD_88 datum elevations.

B. SOIL BORING INFORMATION

Construction Company Name: Cascade Drilling
Address: 301 Alderson St. | City, State, Zip Code: Schofield, WI, 54476
Name of driller: Mike Mueller
Drilling method: Rotosonic | Drilling fluid: Water | Bore Hole diameter: 6 inches
Soil sampling method: 5 foot sections | Depth of boring: 54 feet

C. MONITORING WELL INSTALLATION

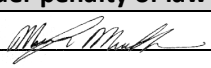
Casing material: PVC | Placement method: Tremie Pipe
Length of casing: 56 feet | Volume: 7.5 cubic feet
Outside casing diameter: 2.4 inches | Backfill (if different from seal): None
Inside casing diameter: 2.0 inches | Material:
Casing joint type: Threaded | Placement method:
Casing/screen joint type: | Volume:
Screen material: PVC | Surface seal design: Cememt
Screen opening size: 0.01 inches | Material of protective casing: Steel
Material of grout between
Screen length: 5 feet | protective casing and well casing: Bentonite and Filter Sand
Depth of Well: 53 feet below ground surface | Protective cap:
Filter Pack: Red Flint Filter Pack Sand | Material: Aluminium
Material: Sand | Vented?: ☒ Y ☐ N | Locking?: ☒ Y ☐ N
Grain Size: | Well cap:
Volume: 1.3 cubic feet | Material: Plastic
Seal (minimum 3 ft. length above filter pack): Bentonite Grout | Vented?: ☐ Y ☒ N
Material: Bentonite Grout

D. GROUNDWATER MEASUREMENT (±0.01 foot below top of inner well casing)

Water level: 27.75 | **Stabilization time:** <5 minutes
Well development method: Surged & purged
Average depth of frost line: 4 ft

DRILLER'S CERTIFICATION

I certify under penalty of law I believe the information reported above is true, accurate, and complete.

Signature:  **Certification #:** 9362 **Date:** 6-24-2020

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 ½ inch x 11 inch map showing locations of all monitoring wells and piezometers.

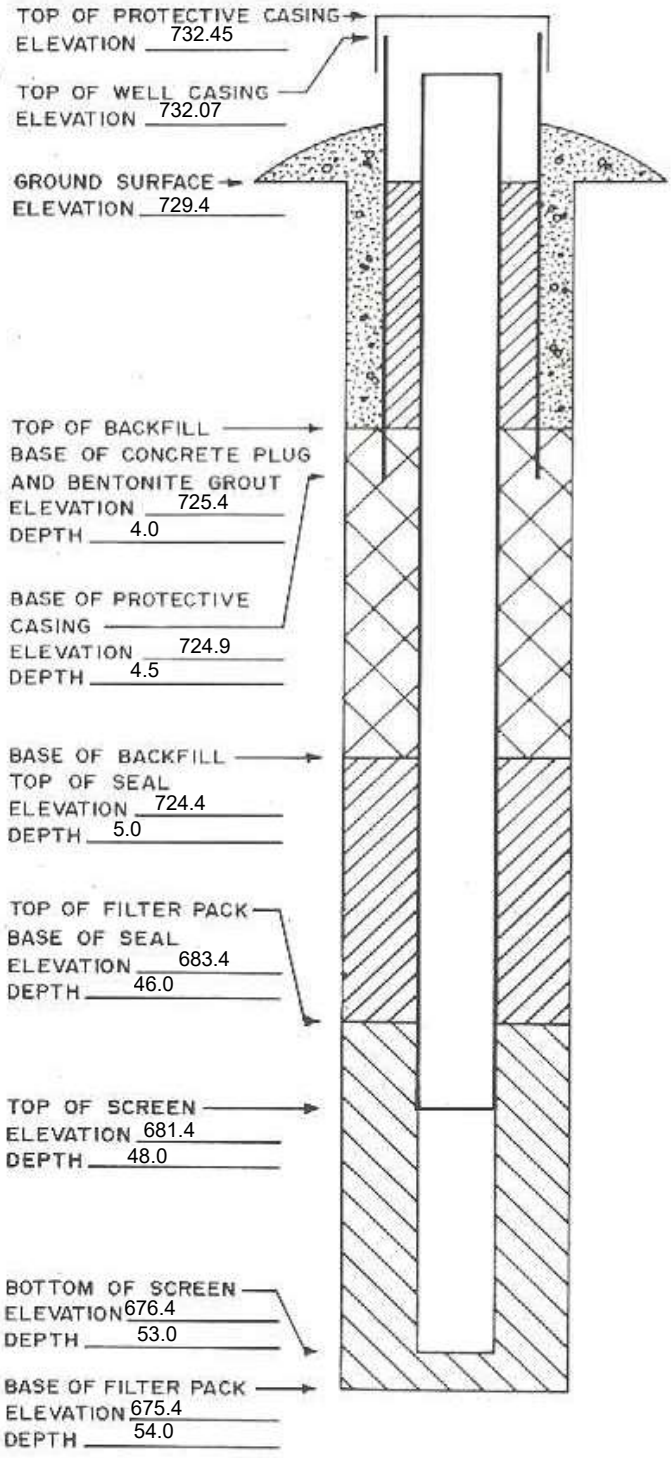
Please mail completed form to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E. 9th St, Des Moines, IA 50319.
Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

02/27/2026 - Classification: Internal - ECRM13684604

ELEVATIONS: ± 0.01 FT. MSL

DEPTHS: ± 0.1 FT. FROM GROUND SERFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL).



02/27/2026 - Classification: Internal - ECRM13684604

SCS ENGINEERS
Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
IPL - Prairie Creek Generating Station SCS#: 25215135.60		MW-302

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mike Mueller Cascade Drilling	10/31/2016	10/31/2016	HSA

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-302	Feet	720.3 Feet	8.5 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,447,399 N, 5,426,146 E S/C/N
SW 1/4 of NE 1/4 of Section 3, T 82 N, R 7 W
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Linn	Cedar Rapids

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	TOPSOIL.										
			2	SILT WITH SAND, very dark grayish brown (10YR 3/2).										
			3		ML									
S1	5	1 4 8 9	4					0.5		M				water at 4.0 ft bgs.
			5	SILTY SAND, greenish gray (5GY6/1).	SM									
S2	14	2 3 3 7	6	POORLY GRADED SAND, greenish gray (5GY 6/1), coarse grained.				1.0		W				
			7											
			8	Same as above except, dark yellowish brown (10YR 3/4).										
S3	12	1 2 2 2	9					0.7		W				
			10											
S4	24	2 3 4 6	11		SP			0.5		W				
			12											
			13											
S5	14	1 2 2 2	14					0.5		W				
			15											
			16											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel: (608) 224-2830
	SCS Engineers 2830 Dairy Drive Madison, WI 53711	Fax:

02/27/2026 - Classification: Internal - ECRM13684604

SCS ENGINEERS
Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW-302 Page 2 of 2

Sample										Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S6	23	2 3 4 4		SILT, greenish gray (5GY 6/1).	ML			0.3		W				
			17	End of boring at 17 ft bgs.										

02/27/2026 - Classification: Internal - ECRM13684604

Print Form

IOWA DEPARTMENT OF NATURAL RESOURCES

MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Prairie Creek Generating Station Permit No.:

Well or Piezometer No: MW-302

Dates Started: 10/31/16 Date Completed: 10/31/16

A. SURVEYED LOCATIONS AND ELEVATIONS

Locations (± 0.5 ft):

Specify corner of site: SE of parcel19031-51001-00000

Distance & direction along boundary: 462' W

Distance & direction from boundary to wall: 79' N

Elevations (± 0.01 ft MSL):

Ground Surface: 720.29

Top of protective casing: 723.27

Top of well casing: 722.68

Benchmark elevation:

Benchmark description:

B. SOIL BORING INFORMATION

Name & Address of Construction Company:
Cascade Drilling, LP
301 Alderson St
Schofield, WI 54476

Name of Driller: Mike Mueller

Drilling Method: HSA

Drilling Fluid: NA

Bore Hole Diameter: 8.5 inch

Soil Sampling Method: Spoon

Depth of Boring: 23.5 ft

C. MONITORING WELL INSTALLATION

Casing material: PVC sch 40

Length of casing: 5 ft

Outside casing diameter: 2.38"

Inside casing diameter: 2"

Casing joint type: threaded

Casing/screen joint type: threaded

Screen material: PVC

Screen opening size: 0.010"

Screen length: 10 ft

Depth of well: 15 ft

Filter Pack:

Material: Red Flint

Grain size: #40

Volume: 300 lbs

Seal (minimum 3 ft length above filter pack):

Material: 3/8 inch bentonite chips

Placement method: Gravity

Volume: 50 lbs

Backfill (if different from seal):

Material:

Placement method:

Volume:

Surface seal design:

Material of protective casing: Steel 6 inch

Material of grout between protective casing and well casing: sand

Protective cap:

Material: Steel, vented

Vented: ☑ Yes ☐ No Locking: ☐ Yes ☐ No

Well Cap:

Material: PVC

Vented: ☐ Yes ☑ No

D. GROUNDWATER MEASURMENT (± 0.01 ft below top of inner well casing)

Water level: 6.39 Stabilization Time: ~5 min

Well development method: Pump and surge block

Average depth of frostline:

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 ½x11 inch map showing locations of all monitoring wells and piezometers.

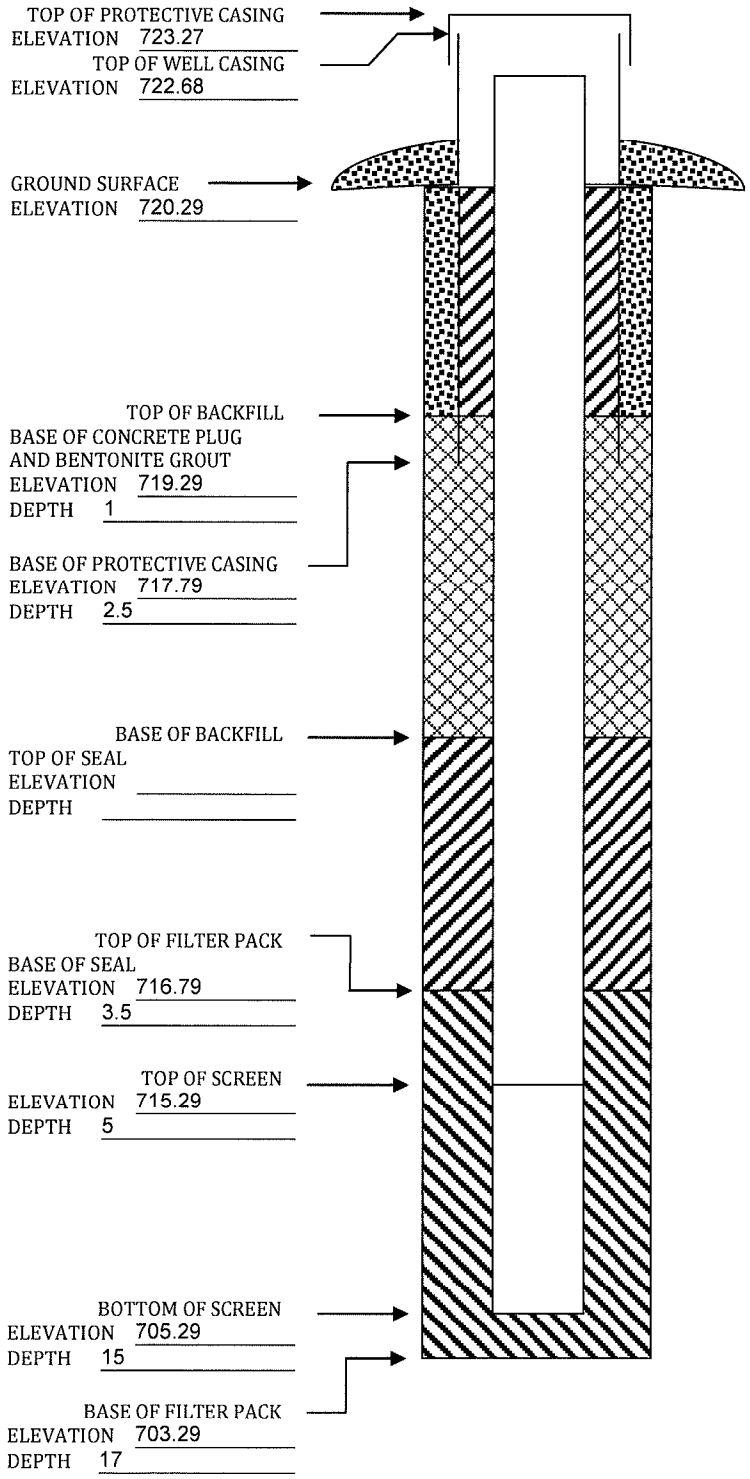
Please mail completed for to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E 9th St, Des Moines IA 50319-0034.

Questions? Call or Email: Nina Koger, Environmental Engineer Sr., 515-281-8986, Nina.Koger@dnr.iowa.gov

02/27/2026 - Classification: Internal - ECRM13684604

ELEVATIONS: ± 0.01 ft MSL
DEPTHS: ± 0.1 ft FROM GROUND SURFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL.)



02/27/2026 - Classification: Internal - ECRM13684604

SCS ENGINEERS
Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
IPL - Prairie Creek Generating Station SCS#: 25215135.60		MW-303

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mike Mueller Cascade Drilling	12/6/2016	12/6/2016	HSA

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-303	Feet	707.0 Feet	8.5 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,448,275 N, 5,425,166 E S/C/N
NW 1/4 of NE 1/4 of Section 3, T 82 N, R 7 W
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Linn	Cedar Rapids

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	SILT, very dark grayish brown (10YR 3/2).	ML									
S1	20	20 20 27 34	2 3 4					0.2		M				
			5	POORLY GRADED SAND, very dark grayish brown (10YR 3/2), coarse grained.	SP									
S2	12	2 17 20 21	6 7					0.2		W				saturation @ 5ft.
S3	16	7 8 8 6	8 9 10					0.2		W				
S4	17	4 3 3 3	11 12					0.2		W				
S5	17	1 1 2 3	13 14 15	Same as above except, brown (10YR 5/3), trace fine gravel.						W				
				End of boring at 15.5 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm SCS Engineers
2830 Dairy Drive Madison, WI 53711
Tel: (608) 224-2830
Fax:

02/27/2026 - Classification: Internal - ECRM13684604

Print Form

IOWA DEPARTMENT OF NATURAL RESOURCES

MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Prairie Creek Generating Station Permit No.:

Well or Piezometer No: MW-303

Dates Started: 12/6/16 Date Completed: 12/6/16

A. SURVEYED LOCATIONS AND ELEVATIONS

Locations (± 0.5 ft):

Specify corner of site: NE of parcel 19032-01001-00000

Distance & direction along boundary: 2,348' NW

Distance & direction from boundary to wall: 1,477' S

Elevations (± 0.01 ft MSL):

Ground Surface: 706.95

Top of protective casing: 709.85

Top of well casing: 709.46

Benchmark elevation:

Benchmark description:

B. SOIL BORING INFORMATION

Name & Address of Construction Company:
Cascade Drilling, LP
301 Alderson St
Schofield, WI 54476

Name of Driller: Mike Mueller

Drilling Method: HSA

Drilling Fluid: NA

Bore Hole Diameter: 8.5 inch

Soil Sampling Method: Spoon

Depth of Boring: 15.5 ft

C. MONITORING WELL INSTALLATION

Casing material: PVC sch 40

Length of casing: 4.5 ft

Outside casing diameter: 2.38"

Inside casing diameter: 2"

Casing joint type: threaded

Casing/screen joint type: threaded

Screen material: PVC

Screen opening size: 0.010"

Screen length: 10 ft

Depth of well: 14.5 ft

Filter Pack:

Material: Red Flint

Grain size: #40

Volume: 300 lbs

Seal (minimum 3 ft length above filter pack):

Material: 3/8 inch bentonite chips

Placement method: Gravity

Volume: 50 lbs

Backfill (if different from seal):

Material:

Placement method:

Volume:

Surface seal design:

Material of protective casing: Steel 6 inch

Material of grout between protective casing and well casing: sand

Protective cap:

Material: Steel, vented

Vented: ☒ Yes ☐ No Locking: ☐ Yes ☐ No

Well Cap:

Material: PVC

Vented: ☐ Yes ☒ No

D. GROUNDWATER MEASURMENT (± 0.01 ft below top of inner well casing)

Water level: 5.81 Stabilization Time: ~ 5 min

Well development method: Pump and surge block

Average depth of frostline:

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 ½x11 inch map showing locations of all monitoring wells and piezometers.

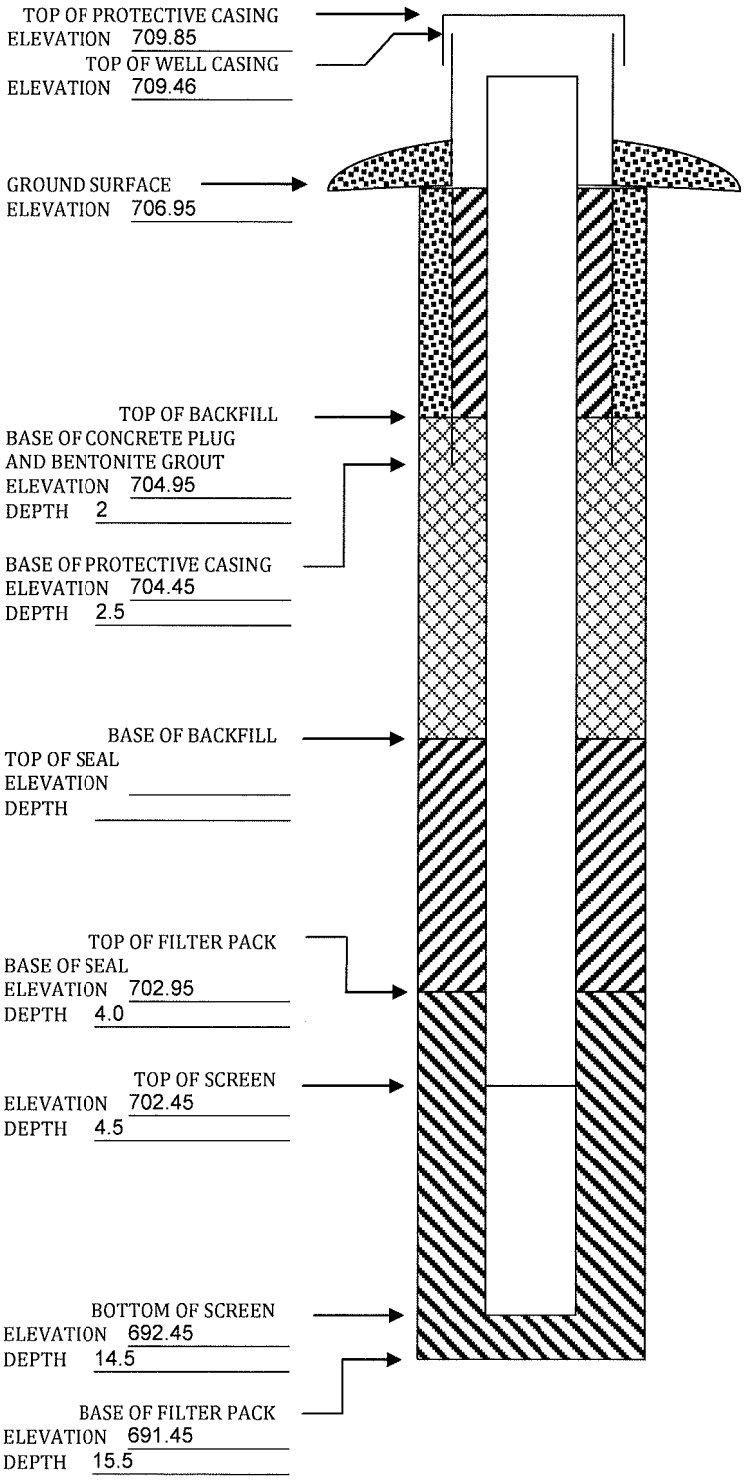
Please mail completed for to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E 9th St, Des Moines IA 50319-0034.

Questions? Call or Email: Nina Koger, Environmental Engineer Sr., 515-281-8986, Nina.Koger@dnr.iowa.gov

02/27/2026 - Classification: Internal - ECRM13684604

ELEVATIONS: ± 0.01 ft MSL
DEPTHS: ± 0.1 ft FROM GROUND SURFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL.)



02/27/2026 - Classification: Internal - ECRM13684604

SCS ENGINEERS
Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
IPL - Prairie Creek Generating Station SCS#: 25215135.60		MW-304

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mike Mueller Cascade Drilling	12/6/2016	12/6/2016	HSA

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-304	Feet	707.1 Feet	8.5 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,448,415 N, 5,425,664 E S/C/N
NW 1/4 of NE 1/4 of Section 3, T 82 N, R 7 W
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Linn	Cedar Rapids

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S1	6	50/0.2	1–4	SILT, very dark grayish brown (10YR 3/2),	ML			0.2		M				water in borehole at 3 ft bgs.
S2	5	6 5 7 7	5–7					0.3		W				saturation @ 5ft.
S3	5	3 4 6 9	8–9	POORLY GRADED SAND, very dark grayish brown, medium to coarse grained.	SP					W				
S4	12	1 2 2 2	10–12							W				
S5	23	4 6 6 8	13–14							W				
			15	SILTY CLAY, gray.	CL									
				End of boring at 15.5 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm SCS Engineers
2830 Dairy Drive Madison, WI 53711
Tel: (608) 224-2830
Fax:

02/27/2026 - Classification: Internal - ECRM13684604

Print Form

IOWA DEPARTMENT OF NATURAL RESOURCES

MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Prairie Creek Generating Station Permit No.:

Well or Piezometer No: MW-304

Dates Started: 12/6/16 Date Completed: 12/6/16

A. SURVEYED LOCATIONS AND ELEVATIONS

Locations (± 0.5 ft):

Specify corner of site: NE of parcel 19032-01001-00000

Distance & direction along boundary: 1878' NW

Distance & direction from boundary to wall: 1,317' S

Elevations (± 0.01 ft MSL):

Ground Surface: 707.07

Top of protective casing: 710.12

Top of well casing: 709.66

Benchmark elevation:

Benchmark description:

B. SOIL BORING INFORMATION

Name & Address of Construction Company:
Cascade Drilling, LP
301 Alderson St
Schofield, WI 54476

Name of Driller: Mike Mueller

Drilling Method: HSA

Drilling Fluid: NA

Bore Hole Diameter: 8.5 inch

Soil Sampling Method: Spoon

Depth of Boring: 15.5 ft

C. MONITORING WELL INSTALLATION

Casing material: PVC sch 40

Length of casing: 4.5 ft

Outside casing diameter: 2.38"

Inside casing diameter: 2"

Casing joint type: threaded

Casing/screen joint type: threaded

Screen material: PVC

Screen opening size: 0.010"

Screen length: 10 ft

Depth of well: 14.5 ft

Filter Pack:

Material: Red Flint

Grain size: #40

Volume: 300 lbs

Seal (minimum 3 ft length above filter pack):

Material: 3/8 inch bentonite chips

Placement method: Gravity

Volume: 50 lbs

Backfill (if different from seal):

Material:

Placement method:

Volume:

Surface seal design:

Material of protective casing: Steel 6 inch

Material of grout between protective casing and well casing: sand

Protective cap:

Material: Steel, vented

Vented: ☐ Yes ☐ No Locking: ☑ Yes ☐ No

Well Cap:

Material: PVC

Vented: ☐ Yes ☑ No

D. GROUNDWATER MEASURMENT (± 0.01 ft below top of inner well casing)

Water level: 5.89 Stabilization Time: ~ 5 min

Well development method: Bailer and surge block

Average depth of frostline:

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 ½x11 inch map showing locations of all monitoring wells and piezometers.

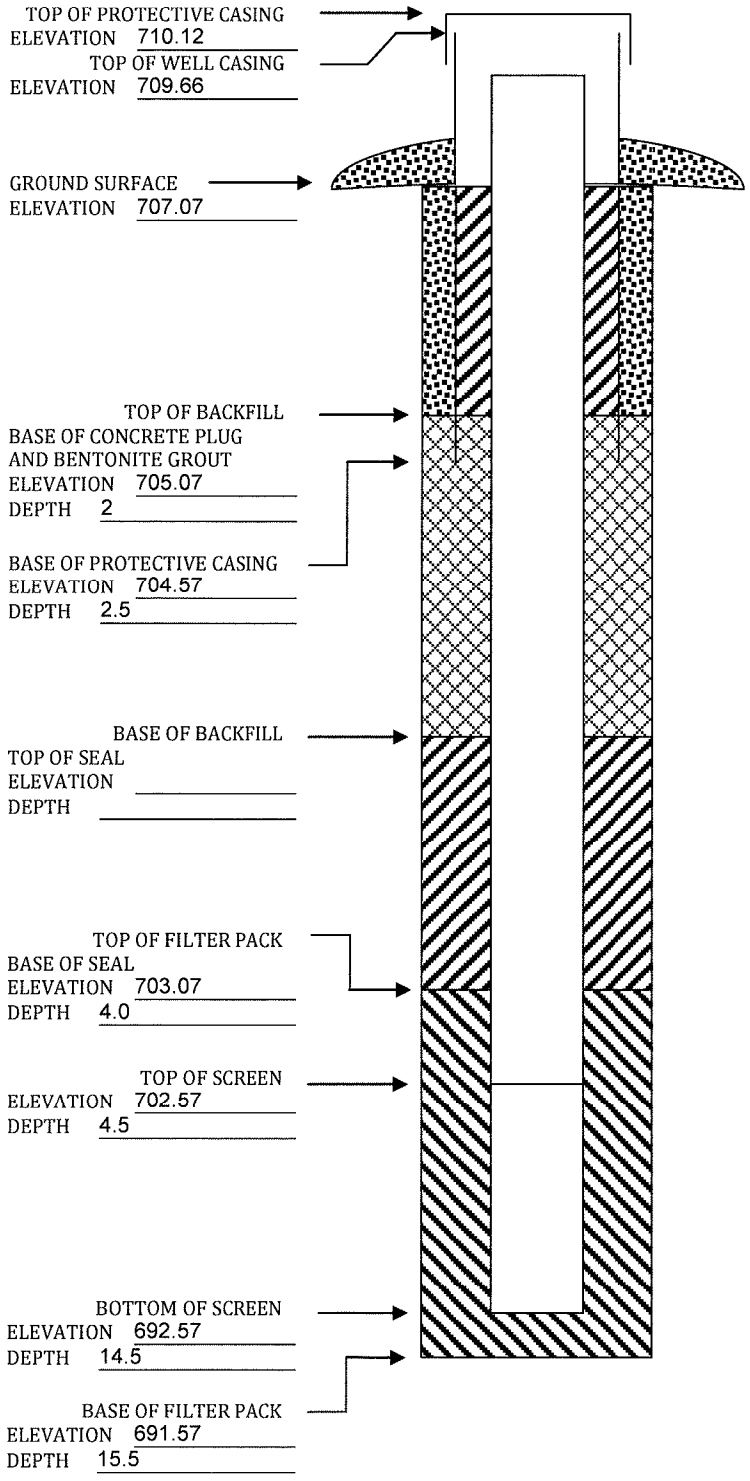
Please mail completed for to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E 9th St, Des Moines IA 50319-0034.

Questions? Call or Email: Nina Koger, Environmental Engineer Sr., 515-281-8986, Nina.Koger@dnr.iowa.gov

02/27/2026 - Classification: Internal - ECRM13684604

ELEVATIONS: ± 0.01 ft MSL
DEPTHS: ± 0.1 ft FROM GROUND SURFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL.)



02/27/2026 - Classification: Internal - ECRM13684604

SCS ENGINEERS
Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
IPL - Prairie Creek Generating Station SCS#: 25215135.60		MW-305

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mike Mueller Cascade Drilling	12/5/2016	12/5/2016	HSA

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-305	Feet	707.1 Feet	8.5 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,448,467 N, 5,425,930 E S/C/N
NW 1/4 of NE 1/4 of Section 3, T 82 N, R 7 W
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Linn	Cedar Rapids

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	SILT, very dark grayish brown (10YR 3/2), trace sand.	ML									
S1	17	1 3 5 6	2 3 4					0.2		M				water in borehole at 3 ft bgs.
			5	POORLY GRADED SAND, dark brown (10YR 3/3), coarse sand.										
S2	12	1 3 4 5	6 7					0.1		W				saturation @ 5ft.
S3	18	1 1 3 4	8 9		SP			0.9		W				
S4	14	9 13 21 19	10 11 12					0.4		W				
S5	16	14 15 23	13 14							W				
			15	LEAN CLAY, very dark gray (10YR 3/1).	CL									
				End of boring at 15.5 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm SCS Engineers
2830 Dairy Drive Madison, WI 53711
Tel: (608) 224-2830
Fax:

02/27/2026 - Classification: Internal - ECRM13684604

Print Form

IOWA DEPARTMENT OF NATURAL RESOURCES

MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Prairie Creek Generating Station Permit No.:

Well or Piezometer No: MW-305

Dates Started: 12/5/16 Date Completed: 12/5/16

A. SURVEYED LOCATIONS AND ELEVATIONS

Locations (± 0.5 ft):

Specify corner of site: NE of parcel 19032-01001-00000

Distance & direction along boundary: 1,594' NW

Distance & direction from boundary to wall: 1,274' S

Elevations (± 0.01 ft MSL):

Ground Surface: 707.11

Top of protective casing: 710.11

Top of well casing: 709.61

Benchmark elevation:

Benchmark description:

B. SOIL BORING INFORMATION

Name & Address of Construction Company:
Cascade Drilling, LP
301 Alderson St
Schofield, WI 54476

Name of Driller: Mike Mueller

Drilling Method: HSA

Drilling Fluid: NA

Bore Hole Diameter: 8.5 inch

Soil Sampling Method: Spoon

Depth of Boring: 15.5 ft

C. MONITORING WELL INSTALLATION

Casing material: PVC sch 40

Length of casing: 4.5 ft

Outside casing diameter: 2.38"

Inside casing diameter: 2"

Casing joint type: threaded

Casing/screen joint type: threaded

Screen material: PVC

Screen opening size: 0.010"

Screen length: 10 ft

Depth of well: 14.5 ft

Filter Pack:

Material: Red Flint

Grain size: #40

Volume: 250 lbs

Seal (minimum 3 ft length above filter pack):

Material: 3/8 inch bentonite chips

Placement method: Gravity

Volume: 50 lbs

Backfill (if different from seal):

Material:

Placement method:

Volume:

Surface seal design:

Material of protective casing: Steel 6 inch

Material of grout between protective casing and well casing: sand

Protective cap:

Material: Steel, vented

Vented: ☐ Yes ☐ No Locking: ☑ Yes ☐ No

Well Cap:

Material: PVC

Vented: ☐ Yes ☑ No

D. GROUNDWATER MEASURMENT (± 0.01 ft below top of inner well casing)

Water level: 5.68 Stabilization Time: ~5 min

Well development method: Bailer and surge block

Average depth of frostline:

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 ½x11 inch map showing locations of all monitoring wells and piezometers.

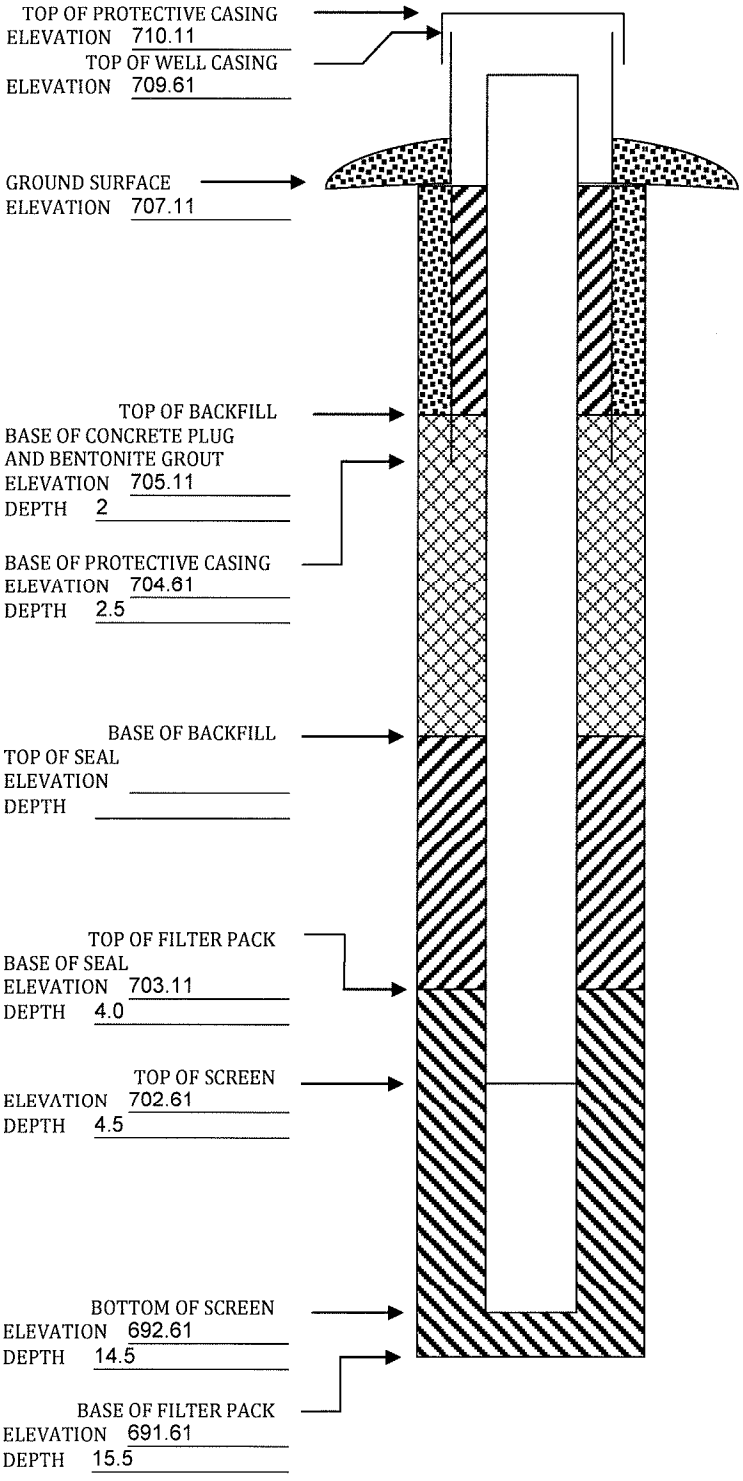
Please mail completed for to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E 9th St, Des Moines IA 50319-0034.

Questions? Call or Email: Nina Koger, Environmental Engineer Sr., 515-281-8986, Nina.Koger@dnr.iowa.gov

02/27/2026 - Classification: Internal - ECRM13684604

ELEVATIONS: ± 0.01 ft MSL
DEPTHS: ± 0.1 ft FROM GROUND SURFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL.)



02/27/2026 - Classification: Internal - ECRM13684604

SCS ENGINEERS
Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
IPL - Prairie Creek Generating Station SCS#: 25215135.60		MW-306

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mike Mueller Cascade Drilling	11/2/2016	11/2/2016	HSA

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-306	Feet	710.1 Feet	8.5 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,448,572 N, 5,426,326 E S/C/N
NW 1/4 of NE 1/4 of Section 3, T 82 N, R 7 W
Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Linn	Cedar Rapids

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	SILT, dark yellowish brown (10YR 3/4).	ML									
			2											
			3											
S1	9.5	4 5 5 5	4	POORLY GRADED SAND, very dark grayish brown (10YR 3/2), coarse grained.	SP			0.7		W				Plastic debris- water at 4 ft bgs
			5	SILT, very dark grayish brown (10YR 3/2).										
S2	14	1 1 1 1	6					0.5		W				
			7											
			8											
S3	NR	3 2 1 1	9		ML			-		-				plastic debris
			10											
S4	NR	1 1 2 3	11					-		-				
			12											
			13	POORLY GRADED SAND, very dark gray (10YR 3/1), coarse grained.										
S5	10	1 2 3 3	14		SP			0.1		W				plastic and glass debris
			15											
			16											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm SCS Engineers
2830 Dairy Drive Madison, WI 53711
Tel: (608) 224-2830
Fax:

02/27/2026 - Classification: Internal - ECRM13684604

Print Form

IOWA DEPARTMENT OF NATURAL RESOURCES

MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Prairie Creek Generating Station Permit No.:

Well or Piezometer No: MW-306

Dates Started: 11/2/16 Date Completed: 11/2/16

A. SURVEYED LOCATIONS AND ELEVATIONS

Locations (± 0.5 ft):

Specify corner of site: NE of parcel19032-01001-00000

Distance & direction along boundary: 1,203' NW

Distance & direction from boundary to wall: 1,205' S

Elevations (± 0.01 ft MSL):

Ground Surface: 710.13

Top of protective casing: 712.9

Top of well casing: 712.54

Benchmark elevation:

Benchmark description:

B. SOIL BORING INFORMATION

Name & Address of Construction Company:
Cascade Drilling, LP
301 Alderson St
Schofield, WI 54476

Name of Driller: Mike Mueller

Drilling Method: HSA

Drilling Fluid: NA

Bore Hole Diameter: 8.5 inch

Soil Sampling Method: Spoon

Depth of Boring: 30.5 ft

C. MONITORING WELL INSTALLATION

Casing material: PVC sch 40

Length of casing: 24.5 ft

Outside casing diameter: 2.38"

Inside casing diameter: 2"

Casing joint type: threaded

Casing/screen joint type: threaded

Screen material: PVC

Screen opening size: 0.010"

Screen length: 5 ft

Depth of well: 29.5 ft

Filter Pack:

Material: Red Flint

Grain size: #40

Volume: 150 lbs

Seal (minimum 3 ft length above filter pack):

Material: 3/8 inch bentonite chips

Placement method: Gravity

Volume: 500 lbs

Backfill (if different from seal):

Material:

Placement method:

Volume:

Surface seal design:

Material of protective casing: Steel 6 inch

Material of grout between protective casing and well casing: sand

Protective cap:

Material: Steel, vented

Vented: ☑ Yes ☐ No Locking: ☐ Yes ☐ No

Well Cap:

Material: PVC

Vented: ☐ Yes ☑ No

D. GROUNDWATER MEASURMENT (± 0.01 ft below top of inner well casing)

Water level: 8.75 Stabilization Time: ~ 5 min

Well development method: Bailer and surge block

Average depth of frostline:

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 ½x11 inch map showing locations of all monitoring wells and piezometers.

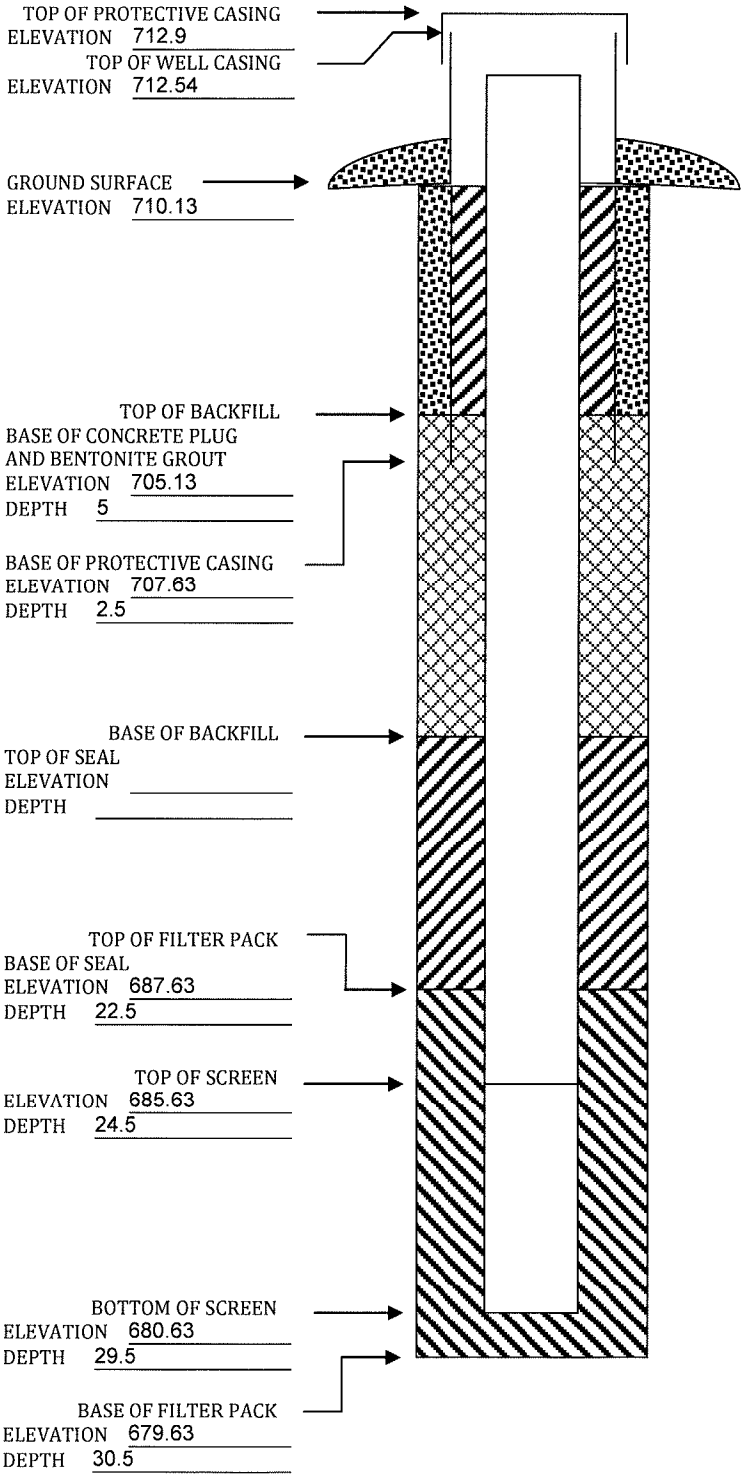
Please mail completed for to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E 9th St, Des Moines IA 50319-0034.

Questions? Call or Email: Nina Koger, Environmental Engineer Sr., 515-281-8986, Nina.Koger@dnr.iowa.gov

02/27/2026 - Classification: Internal - ECRM13684604

ELEVATIONS: ± 0.01 ft MSL
DEPTHS: ± 0.1 ft FROM GROUND SURFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL.)



02/27/2026 - Classification: Internal - ECRM13684604

SCS ENGINEERS
Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Prairie Creek Generating Station SCS#: 25220057		MW306A

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Roy Buckenberger Cascade	6/23/2020	6/23/2020	vibratory

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW306A	Feet	Feet	6.0 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S / C / N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Linn	Cedar Rapids, Iowa

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	Topsoil. Organic Material.	ML									
			1	Waste. Plastic wrapping. Soil.										
1	60		2							W				
			3	Tan/Brown soil/silt. 10YR3/4.										
			4		ML									
			5	Dark Black Sand and Silt. Well Graded. 10YR2/1.										
			6											
			7											
2	60		8		SW					W				
			9											
			10	Well Graded Sand. Light Grey. 2.5Y3/1.										
			11		SW									
			12	Silt with fine sand.										
3	60		13							W				
			14		ML									
			15											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel:
Zach Watson	SCS Engineers 2830 Dairy Dr., Madison, WI, 53718	Fax:

02/27/2026 - Classification: Internal - ECRM13684604

Boring Number MW306A

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			16	Well graded sand. 2.5Y3/1.										
4	60		17							W				
			18		SW									
			19											
			20											
			21											
			22	Silt with Sand. 5Y4/2.										
5	60		23							W				
			24		ML									
			25	Well Graded Sand.										
			26											
			27											
6	60		28							W				
			29											
			30		SW									
			31											
			32											
7	60		33							W				
			34											
			35	Finer sand than above.										
			36											
			37											
8	60		38		SW					W				
			39											
			40											

02/27/2026 - Classification: Internal - ECRM13684604

Boring Number MW306A

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			41	Well Graded Sand. Fine sand to gravel. Some rocks greater than 1 inch in size.										
			42											
9	60		43		SW					W				
			44											
			45	Lean Clay. Soft. 2.5Y3/2. Sand Lens at 54 feet.										
			46											
			47											
10	60		48						0.5	W				
			49											
			50											
			51		CL									
			52											
11	60		53						2.0	W				
			54											
			55						2.5					
			56											
			57	Well Graded Sand. Fine to Coarse grained. Few fines.										
12	60		58							W				
			59		SW									
			60											
			61											

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: Prairie Creek Generating Station | Permit No.:
Well or Piezometer No.: MW306A | Dates Started: 6/23/2020 | Date Completed: 6/24/2020

A. SURVEYED LOCATION AND ELEVATION OF POINT (+0.5 ft.)

Specify corner of site: NE of parcel 19032-01001-0 | Distance and direction along boundary: 1,210' W
Distance and direction from boundary to surface monitoring well: 1,205' S
Elevation (+0.01 ft. MSL)
Ground Surface: 708.9 | Top of protective casing: 712.50
Top of well casing: 711.50 | Benchmark elevation:
Benchmark description: On-site benchmark, NAVD_88 datum.

B. SOIL BORING INFORMATION

Construction Company Name: Cascade Drilling
Address: 301 Alderson St. | City, State, Zip Code: Schofield, WI, 54476
Name of driller: Mike Mueller
Drilling method: Rotosonic | Drilling fluid: Water | Bore Hole diameter: 6 inches
Soil sampling method: 5 foot sections | Depth of boring: 61 feet

C. MONITORING WELL INSTALLATION

Casing material: PVC | Placement method: Tremie Pipe
Length of casing: 63 feet | Volume: 8.5 cubic feet
Outside casing diameter: 2.4 inches | Backfill (if different from seal): None
Inside casing diameter: 2.0 inches | Material:
Casing joint type: Threaded | Placement method:
Casing/screen joint type: | Volume:
Screen material: PVC | Surface seal design: Cememt
Screen opening size: 0.01 inches | Material of protective casing: Steel
Material of grout between
Screen length: 5 feet | protective casing and well casing: Bentonite and FIlter Sand
Depth of Well: 60 feet below ground surface | Protective cap:
Filter Pack: Red Flint Filter Pack Sand | Material: Aluminium
Material: Sand | Vented?: ☒ Y ☐ N | Locking?: ☒ Y ☐ N
Grain Size: | Well cap:
Volume: 1.3 cubic feet | Material: Plastic
Seal (minimum 3 ft. length above filter pack): Bentonite Grout | Vented?: ☐ Y ☒ N
Material: Bentonite Grout

D. GROUNDWATER MEASUREMENT (±0.01 foot below top of inner well casing)

Water level: 9.07 | **Stabilization time**: <5 minutes
Well development method: Surged and purged
Average depth of frost line: 4 ft

DRILLER'S CERTIFICATION

I certify under penalty of law I believe the information reported above is true, accurate, and complete.

Signature | **Certification #**: 9362 | **Date**: 6-24-2020

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 ½ inch x 11 inch map showing locations of all monitoring wells and piezometers.

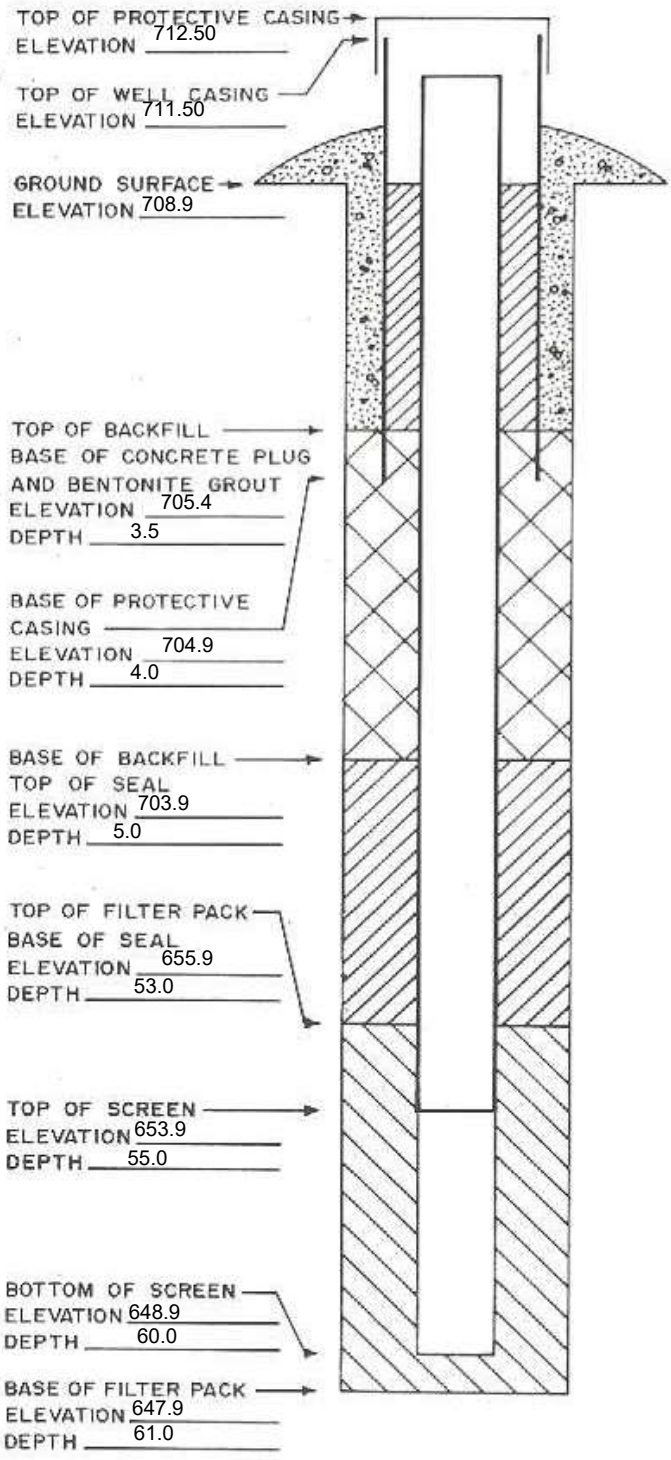
Please mail completed form to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E. 9th St, Des Moines, IA 50319.
Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

02/27/2026 - Classification: Internal - ECRM13684604

ELEVATIONS: ± 0.01 FT. MSL

DEPTHS: ± 0.1 FT. FROM GROUND SERFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL).



02/27/2026 - Classification: Internal - ECRM13684604

SCS ENGINEERS
Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Prairie Creek Generating Station SCS#: 25218184		MW-307

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mike Mueller Cascade Drilling, LP	11/27/2018	11/27/2018	sonic

Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
MW-307	708.5 Feet	718.9 Feet	6.5 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,448,497 N, 5,426,934 E S/C/N
NE 1/4 of NE 1/4 of Section 3, T 83 N, R 7 W
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Linn	Cedar Rapids

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S1			1–5	Topsoil and clay, black, (10YR 2/1), (Fill).						M				
			5–6	Black ash? (Fill).										
S2			6–7	LEAN CLAY, black (10YR 2/1), (Fill).	CL					M				
			7–8	SILT, dark gray/black, (5YR 3/1).	ML									
S3			9–10	LEAN CLAY, dark gray, (5YR 2.5/2).						M				
S4			11–13		CL					M				
S5			14–15	SILTY SAND, coarse sand, light brown, (2.5YR 3/1).	SM					W				

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm SCS Engineers
3900 kilroy Airport Way Long Beach, CA 90806 Tel: Fax:

02/27/2026 - Classification: Internal - ECRM13684604

Boring Number MW-307 Page 2 of 2

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
S6			16	SILTY SAND, fine to medium, light brown, (2.5YR 4/4).	SM					W				
			17											
				SILTY SAND, medium to coarse, light brown, (2.5YR 5/4).										
			18											
S7			19		SM					W				
			20											
			21	End of boring at 21 feet below ground surface.										

02/27/2026 - Classification: Internal - ECRM13684604

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL Prairie Creek Generating Station — Permit No.: PPW18-0051

Well or Piezometer No.: MW-307 — Dates Started: 11/27/2018 — Date Completed: 11/27/2018

A. SURVEYED LOCATION AND ELEVATION OF POINT (+0.5 ft.)

Specify corner of site: NE — Distance and direction along boundary: 1,140 W

Distance and direction from boundary to surface monitoring well: 5 S

Elevation (+0.01 ft. MSL)

Ground Surface: 718.89 — Top of protective casing: 721.35

Top of well casing: 721.16 — Benchmark elevation: 718.58

Benchmark description: CP #5

B. SOIL BORING INFORMATION

Construction Company Name: Cascade Drilling LP

Address: 301 Anderson St — City, State, Zip Code: Schofield, WI 54476

Name of driller: Mike Mueller

Drilling method: Sonic — Drilling fluid: NA — Bore Hole diameter: 6.5"

Soil sampling method: Sonic soil core — Depth of boring: 21

C. MONITORING WELL INSTALLATION

Casing material: PVC Sch. 40 — Placement method: Gravity

Length of casing: 13.3' — Volume: 1.8 cu. ft

Outside casing diameter: 2.38" — Backfill (if different from seal): NA

Inside casing diameter: 2" — Material:

Casing joint type: Threaded — Placement method:

Casing/screen joint type: Threaded — Volume:

Screen material: PVC Sch. 40 — Surface seal design:

Screen opening size: 0.01" — Material of protective casing: 6 inch Steel

Material of grout between protective casing and well casing: Bent. chips below grade

Screen length: 10 ft

Depth of Well: 21'

Protective cap:

Filter Pack:

Material: Steel

Material: Red Flint Sand — Vented?: ☒ Y ☐ N — Locking?: ☒ Y ☐ N

Grain Size: #40

Well cap:

Volume: 2.5 cu. ft

Material: PVC

Seal (minimum 3 ft. length above filter pack):

Vented?: ☒ Y ☐ N

Material: 3/8" Bentonite Chips

D. GROUNDWATER MEASUREMENT (+0.01 foot below top of inner well casing)

Water level: 13.12' — Stabilization time: <5 minutes

Well development method: Surged and pumped until water ran clear, removed ~400 gallons.

Average depth of frost line: 4'

DRILLER'S CERTIFICATION

I certify under penalty of law I believe the information reported above is true, accurate, and complete.

Signature: [signature] — Certification #: 9362 — Date: 11/27/18

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 ½ inch x 11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed form to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E. 9th St, Des Moines, IA 50319.

Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

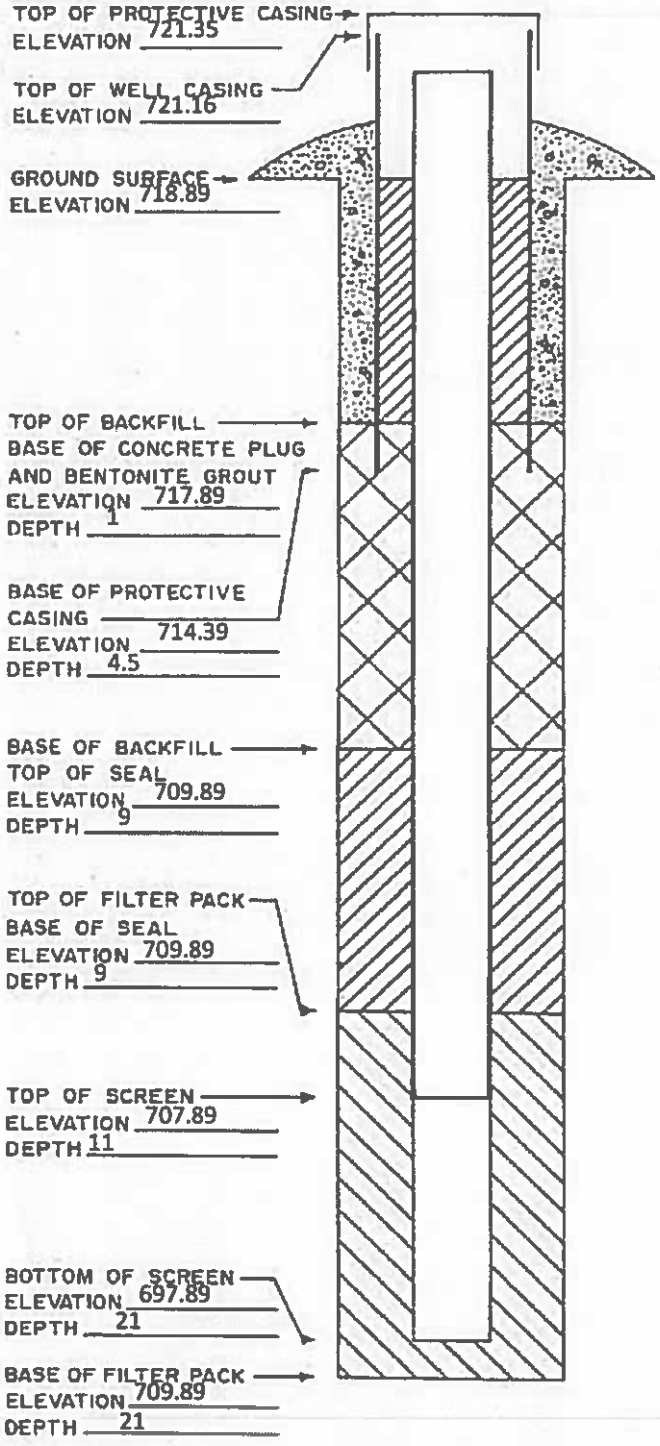
09/2017 cmc — DNR Form 542-1277

02/27/2026 - Classification: Internal - ECRM13684604

ELEVATIONS: ± 0.01 FT. MSL

DEPTHS: ± 0.1 FT. FROM GROUND SERFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL).



02/27/2026 - Classification: Internal - ECRM13684604

SCS ENGINEERS
Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Prairie Creek Generating Station SCS#: 25218184		MW-308

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mike Mueller Cascade Drilling, LP	11/27/2018	11/27/2018	sonic

Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
MW-308	711.5 Feet	717.5 Feet	6.5 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,448,434 N, 5,426,646 E S/C/N
NE 1/4 of NE 1/4 of Section 3, T 83 N, R 7 W
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ S Feet ☐ E ☐ W Feet

Facility ID	County	Civil Town/City/ or Village
	Linn	Cedar Rapids

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P200	RQD/ Comments
			0	Topsoil, black.										
			1	LEAN CLAY, black, (2.5YR 2.5/1), (Fill).										
S1			2		CL					M				
			3											
S2			4	LEAN CLAY, brown, (2.5YR 4/4), (Fill).	CL				1.5	M				
			5											
S3			6	Ash, black, (2.5YR 3/1), (Fill).						M				
S4			7							M				
			8	LEAN CLAY with silt, gray, (5YR 5/1).										
S5			9		CL					M				
			10	SANDY SILT, dark gray, (5YR 2.5/1).										
S6			11							W				
			12		ML									
			13											
S7			14	Same as above but (5YR 2.5/2).						W				
			15											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm SCS Engineers
3900 kilroy Airport Way Long Beach, CA 90806
Tel:
Fax:

02/27/2026 - Classification: Internal - ECRM13684604

Boring Number MW-308 Page 2 of 2

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			16	SANDY SILT, dark gray, (5YR 2.5/1). *(continued)*										
S8			17	Same as above but (5YR 2.5/1).	ML					W				
			18											
			19											
			20	SILTY SAND, coarse, (5YR 4/2).										
S9			21		SM					W				
				End of boring at 21 feet below ground surface.										

02/27/2026 - Classification: Internal - ECRM13684604

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL Prairie Creek Generating Station — Permit No.: PPW18-0051

Well or Piezometer No.: MW-308 — Dates Started: 11/27/2018 — Date Completed: 11/27/2018

A. SURVEYED LOCATION AND ELEVATION OF POINT (+0.5 ft.)

Specify corner of site: NE — Distance and direction along boundary: 950' W

Distance and direction from boundary to surface monitoring well: 5 S

Elevation (+0.01 ft. MSL)

Ground Surface: 717.46 — Top of protective casing: 719.98

Top of well casing: 719.67 — Benchmark elevation: 718.58

Benchmark description: CP #5

B. SOIL BORING INFORMATION

Construction Company Name: Cascade Drilling LP

Address: 301 Anderson St — City, State, Zip Code: Schofield, WI 54476

Name of driller: Mike Mueller

Drilling method: Sonic — Drilling fluid: NA — Bore Hole diameter: 6.5"

Soil sampling method: Sonic soil core — Depth of boring: 21

C. MONITORING WELL INSTALLATION

Casing material: PVC Sch. 40 — Placement method: Gravity

Length of casing: 13.2' — Volume: 1.8 cu. ft

Outside casing diameter: 2.38" — Backfill (if different from seal): NA

Inside casing diameter: 2" — Material:

Casing joint type: Threaded — Placement method:

Casing/screen joint type: Threaded — Volume:

Screen material: PVC Sch. 40 — Surface seal design:

Screen opening size: 0.01" — Material of protective casing: 6 inch Steel

Material of grout between protective casing and well casing: Bent. chips below grade

Screen length: 10 ft

Depth of Well: 21' — Protective cap:

Filter Pack: — Material: Steel

Material: Red Flint Sand — Vented?: ☒ Y ☐ N — Locking?: ☒ Y ☐ N

Grain Size: #40 — Well cap:

Volume: 2.5 cu. ft — Material: PVC

Seal (minimum 3 ft. length above filter pack): — Vented?: ☒ Y ☐ N

Material: 3/8" Bentonite Chips

D. GROUNDWATER MEASUREMENT (+0.01 foot below top of inner well casing)

Water level: 14.49' — Stabilization time: <5 minutes

Well development method: Surged and pumped until water ran clear, removed ~475 gallons.

Average depth of frost line: 4'

DRILLER'S CERTIFICATION

I certify under penalty of law I believe the information reported above is true, accurate, and complete.

Signature: [signature] — Certification #: 9362 — Date: 11/27/18

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 ½ inch x 11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed form to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E. 9th St, Des Moines, IA 50319.

Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

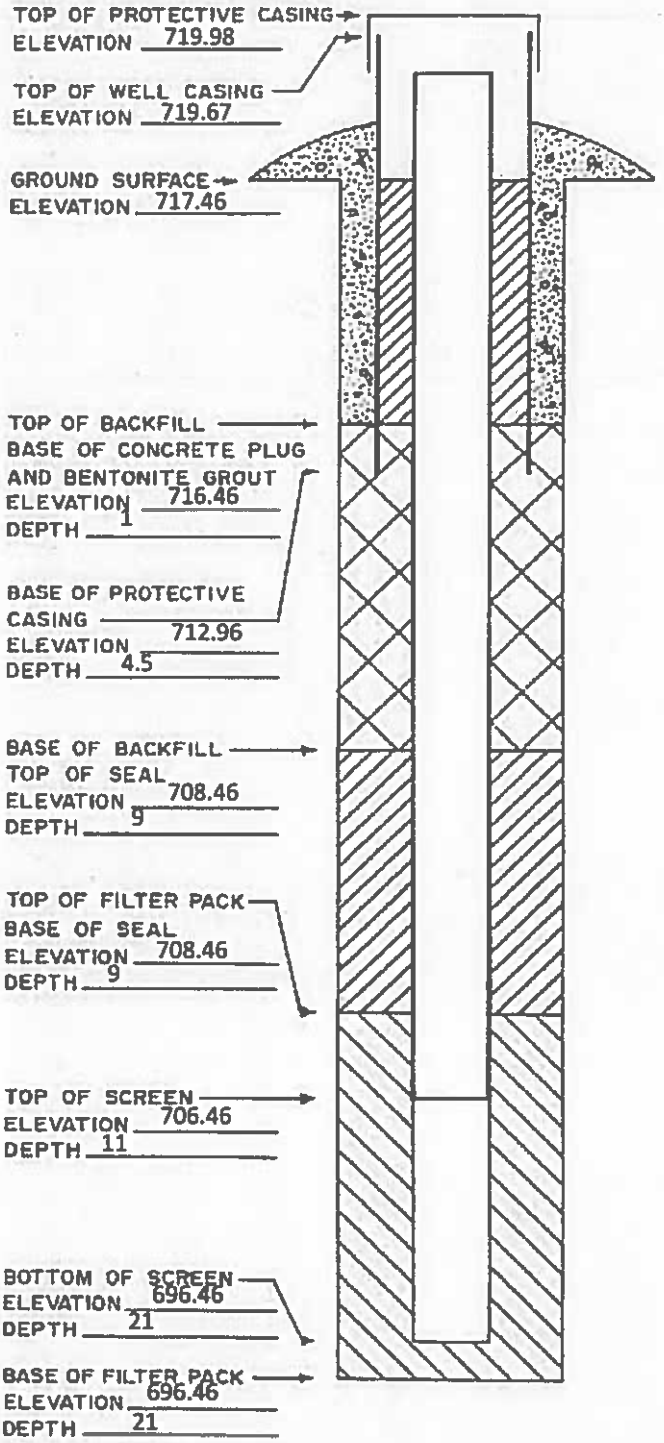
09/2017 cmc — DNR Form 542-1277

02/27/2026 - Classification: Internal - ECRM13684604

ELEVATIONS: ± 0.01 FT. MSL

DEPTHS: ± 0.1 FT. FROM GROUND SERFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL).



02/27/2026 - Classification: Internal - ECRM13684604

SCS ENGINEERS
Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
IPL - Prairie Creek Generating Station SCS#: 25218218.00		MW-309

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Jeff Crank Roberts Environmental Drilling, Inc.	8/5/2019	8/5/2019	4 1/4" hollow stem auger

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-309	Feet MSL	708.1 Feet MSL	8.5 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,448,466 N, 5,425,409 E S/C/N
NW 1/4 of NE 1/4 of Section 3, T 82 N, R 7 W
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Linn	Cedar Rapids

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S1	8	1 3 3 4	1	SILT, dark brown, (10YR 2/1), with sand, trace gravel.	ML					M				
			2											
S2	18	3 3 2 3	3	SILTY SAND.	SM					M				
			4											
S3	12	1 1 1 2	5	SILT, with sand, brown, (10YR 3/2), soft.	ML					W				
			6											
S4	12	2 2 1 2	7	SILTY SAND, mottled grey, tan, and brown.						W				
			8	Variable color - grey, rust, and tan.	SM									
S5	20	0 1 2 1	9	Coarser sand.						W				
			10											
S6	12	0 0 1 1	11	POORLY GRADED SAND, coarse, some fine and medium sand.						W				
			12											
S7	12	1 1 3 3	13	With organic material.	SP					W				
			14											
			15											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Firm SCS Engineers Tel: Fax:

02/27/2026 - Classification: Internal - ECRM13684604

SCS ENGINEERS
Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW-309 Page 2 of 2

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S8	12	1 2 4 5	16		SP					W				
			17	End of Boring.										Blind drilled from 16' to 17'

02/27/2026 - Classification: Internal - ECRM13684604

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Prairie Creek Generating Station Permit No.:

Well or Piezometer No.: MW-309 Dates Started: 8/5/2019 Date Completed: 8/6/2019

A. SURVEYED LOCATION AND ELEVATION OF POINT (+0.5 ft.)

Specify corner of site: NW Distance and direction along boundary: 320 E

Distance and direction from boundary to surface monitoring well: 300 N

Elevation (+0.01 ft. MSL):

Ground Surface: 708.11 Top of protective casing: 712.16

Top of well casing: 711.80 Benchmark elevation:

Benchmark description:

B. SOIL BORING INFORMATION

Construction Company Name: Roberts Environmental Drilling Inc.

Address: 1107 South Mulberry Street City, State, Zip Code: Millstadt, IL, 62260

Name of driller: Jeff Crank

Drilling method: 4 1/4" HSA Drilling fluid: Bore Hole diameter: 8.5"

Soil sampling method: Split Spoon Depth of boring: 17'

C. MONITORING WELL INSTALLATION

Casing material: PVC

Length of casing: 19'

Outside casing diameter: 2.4"

Inside casing diameter: 2.0"

Casing joint type: Threaded

Casing/screen joint type: Threaded

Screen material: PVC

Screen opening size: 0.01'

Screen length: 10'

Depth of Well: 15'

Filter Pack:

Material: Filter Sand

Grain Size: #5

Volume: 18.9 cubic feet

Seal (minimum 3 ft. length above filter pack):

Material: Bentonite Chips 3/8"

Placement method: Gravity

Volume: 4.4 cubic feet

Backfill (if different from seal):

Material:

Placement method:

Volume:

Surface seal design: Concrete

Material of protective casing: Steel

Material of grout between protective casing and well casing: Bentonite/Filter Sand

Protective cap:

Material: Steel

Vented?: ☒ Y ☐ N Locking?: ☒ Y ☐ N

Well cap:

Material: Plastic

Vented?: ☐ Y ☒ N

D. GROUNDWATER MEASUREMENT (±0.01 foot below top of inner well casing)

Water level: 9.84' **Stabilization time**: <12 hr

Well development method:

Average depth of frost line: 4 ft

DRILLER'S CERTIFICATION

I certify under penalty of law I believe the information reported above is true, accurate, and complete.

Signature: Jeff Crank **Certification #**: 8515 **Date**: 10-3-19

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 ½ inch x 11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed form to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E. 9th St, Des Moines, IA 50319.

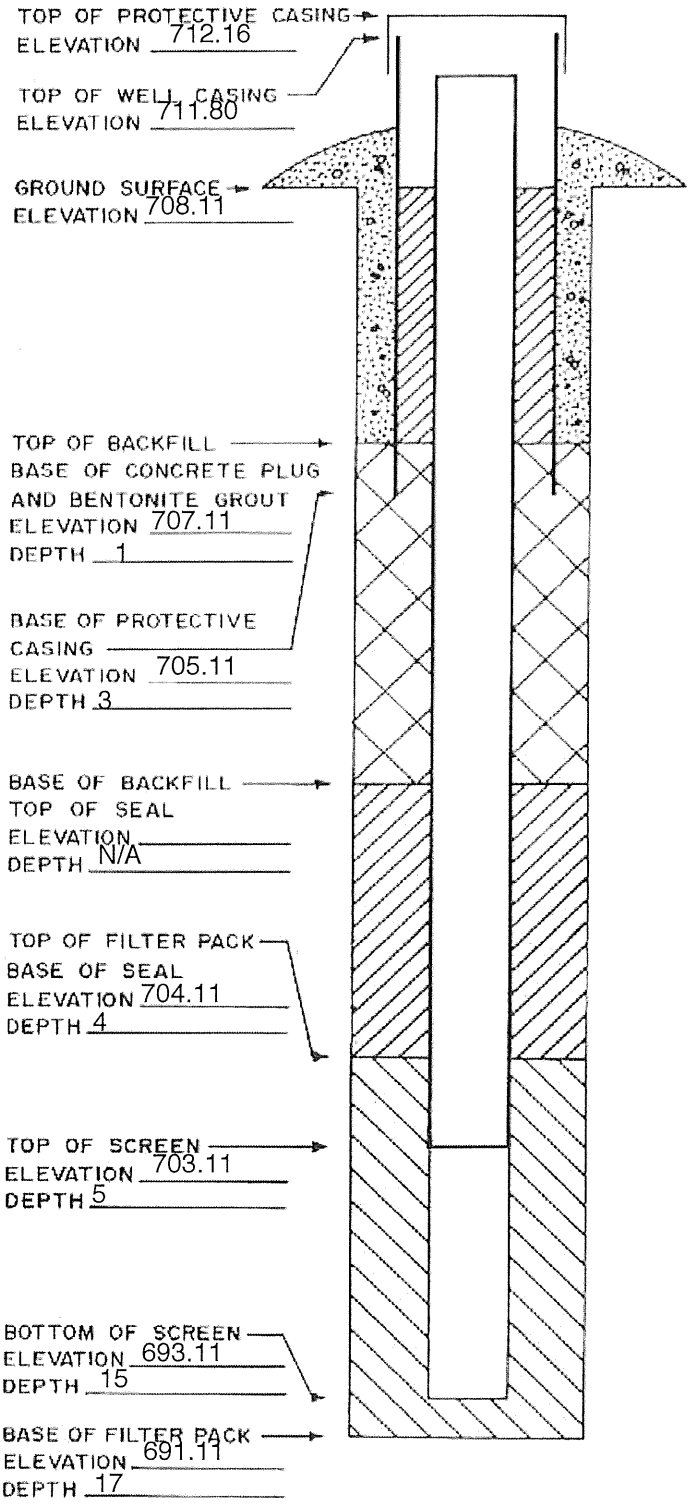
Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

02/27/2020 - Classification: Internal - ECRM13684604

ELEVATIONS: ± 0.01 FT. MSL

DEPTHS: ± 0.1 FT. FROM GROUND SERFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL).



02/27/2026 - Classification: Internal - ECRM13684604

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
Prairie Creek Generating Station		MW309

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number

1. Can this well be purged dry? ☐ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped ~~slowly~~ surged	☑ 50
Other _____	☐

3. Time spent developing well 96 min.

4. Depth of well (from top of well casisng) 18.89 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing 25.3 gal.

7. Volume of water removed from well 160.0 gal.

8. Volume of water added (if any) ___.__ gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☐ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 10.09 ft.	10.09 ft.
Date	b. 08/14/2019 (m m d d y y y y)	08/14/2019
Time	c. 9:20 ☑ a.m. ☐ p.m.	10:46 ☑ a.m. ☐ p.m.
12. Sediment in well bottom	___.__ inches	___.__ inches
13. Water clarity	Clear ☐ 10 Turbid ☑ 15 (Describe)	Clear ☑ 20 Turbid ☐ 25 (Describe)
14. Total suspended solids	_____.__ mg/l	_____.__ mg/l
15. COD	_____.__ mg/l	_____.__ mg/l

Fill in if drilling fluids were used and well is at solid waste facility:

16. Well developed by: Name (first, last) and Firm
First Name: Zach Last Name: Watson
Firm: SCS Engineers

17. Additional comments on development:

5 gal / 3 min = pump rate

27.1 gal / 1.5

Name and Address of Facility Contact /Owner/Responsible Party
First Name: _____ Last Name: _____
Facility/Firm: Alliant Energy Prairie Creek
Street: 3300 C St. SW
City/State/Zip: Cedar Rapids, IA 52404

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Zach Watson
Print Name: ZACH WATSON
Firm: SCS Engineers

NOTE: See instructions for more information including a list of county codes and well type codes.

02/27/2026 - Classification: Internal - ECRM13684604

SCS ENGINEERS
Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Prairie Creek Generating Station SCS#: 25220057		MW309A

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Roy Buckenberger Cascade	7/23/2020	7/23/2020	vibratory

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW309A	Feet	Feet	6.0 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S / C / N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Linn	Cedar Rapids, Iowa

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	60		1–5	Topsoil. Organic material, roots, trace coarse material. 10YR2/1.	ML					M				
2	60		5–10	Silty Sand. Fine to medium grained sand. Well Graded. 10YR3/4.	SM					W				
3	60		10–15	Well graded Gravel with sand. Four inch lens of silt with sand. 7.5YR2/1. Well Graded sand with gravel towards base (14-15 feet).	GW					W				

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel:
Zach Watson	SCS Engineers 2830 Dairy Dr., Madison, WI, 53718	Fax:

02/27/2026 - Classification: Internal - ECRM13684604

Boring Number MW309A

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			16	Silty Sand. Fine to coarse sand with a few lenses of silt with sand. 2.5Y3/2.										
			17											
4	60		18							W				
			19											
			20		SM									
			21											
			22											
5	60		23							W				
			24											
			25	Well graded Sand. Fine to coarse grained sand. 2.5Y3/2.										
			26											
			27											
6	60		28							W				
			29											
			30											
			31											
			32											
7	60		33		SW					W				
			34											
			35											
			36											
			37											
8	60		38							W				
			39											
			40											

02/27/2026 - Classification: Internal - ECRM13684604

Boring Number MW309A

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
9	60		41 42 43 44 45 46	Well graded Sand. Fine to coarse grained sand. 2.5Y3/2. *(continued)*	SW					W				

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: Prairie Creek Generating Station | Permit No.:
Well or Piezometer No.: MW309A | Dates Started: 7/23/2020 | Date Completed: 7/23/2020

A. SURVEYED LOCATION AND ELEVATION OF POINT (+0.5 ft.)

Specify corner of site: NW of parcel 19031-7600-2 | Distance and direction along boundary: 320' E
Distance and direction from boundary to surface monitoring well: 295' N
Elevation (+0.01 ft. MSL):
Ground Surface: 708.0 | Top of protective casing: 711.05
Top of well casing: 710.54 | Benchmark elevation:
Benchmark description: On-site benchmark, NAVD_88 datum.

B. SOIL BORING INFORMATION

Construction Company Name: Cascade Drilling
Address: 301 Alderson St. | City, State, Zip Code: Schofield, WI, 54476
Name of driller: Mike Mueller
Drilling method: Rotosonic | Drilling fluid: Water | Bore Hole diameter: 6 inches
Soil sampling method: 5 foot sections | Depth of boring: 46 feet

C. MONITORING WELL INSTALLATION

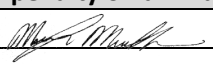
Casing material: PVC | Placement method: Gravity
Length of casing: 47.5 feet | Volume: 5.9 cubic feet
Outside casing diameter: 2.4 inches | Backfill (if different from seal): None
Inside casing diameter: 2.0 inches | Material:
Casing joint type: Threaded | Placement method:
Casing/screen joint type: | Volume:
Screen material: PVC | Surface seal design: Cement
Screen opening size: 0.01 inches | Material of protective casing: Steel
Material of grout between protective casing and well casing: Bentonite and Filter Sand
Screen length: 5 feet
Depth of Well: 45 feet below ground surface | Protective cap:
Filter Pack: Red Flint Filter Pack Sand | Material: Aluminium
Material: Sand | Vented?: ☒ Y ☐ N | Locking?: ☒ Y ☐ N
Grain Size: | Well cap:
Volume: 1.4 cubic feet | Material: Rubber
Seal (minimum 3 ft. length above filter pack): Bentonite Chips | Vented?: ☐ Y ☒ N
Material: Bentonite Chips

D. GROUNDWATER MEASUREMENT (±0.01 foot below top of inner well casing)

Water level: 8.37 | **Stabilization time:** < 5 minutes
Well development method: Surged and purged
Average depth of frost line: 4 ft

DRILLER'S CERTIFICATION

I certify under penalty of law I believe the information reported above is true, accurate, and complete.

Signature:  **Certification #:** 9362 **Date:** 7-23-2020

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 ½ inch x 11 inch map showing locations of all monitoring wells and piezometers.

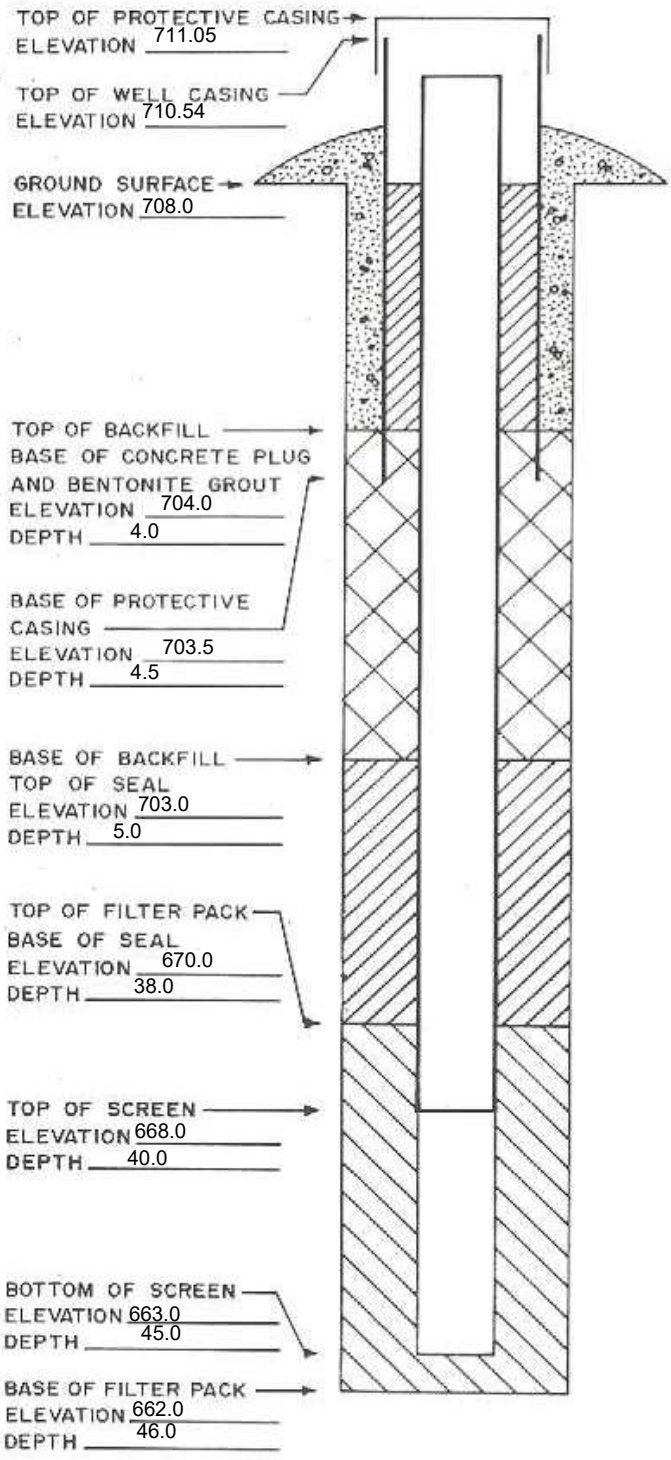
Please mail completed form to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E. 9th St, Des Moines, IA 50319.
Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

02/27/2026 - Classification: Internal - ECRM13684604

ELEVATIONS: ± 0.01 FT. MSL

DEPTHS: ± 0.1 FT. FROM GROUND SERFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL).



02/27/2026 - Classification: Internal - ECRM13684604

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
IPL - Prairie Creek Generating Station SCS#: 25218218.00		MW-310

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Jeff Crank Roberts Environmental Drilling, Inc.	8/6/2019	8/6/2019	4 1/4" hollow stem auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-310	Feet MSL	708.09 Feet MSL	8.5 in.

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,448,623 N, 5,425,792 E S/C/N
NW 1/4 of NE 1/4 of Section 3, T 82 N, R 7 W
Lat ° ' "
Long ° ' "
Local Grid Location
Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Linn		Cedar Rapids

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S1	12	1 2 2 4	1	SILTY SAND, brown, (10YR 2/1), (topsoil).	SM					M				
S2	2	6 6 4 4	3							M				
S3	10	4 4 2 3	5	LEAN CLAY, brown, (10YR 2/1), some lenses of silty sand, organic material.	CL					M				
S4	6	3 1 1 2	7							M				
S5	20	3 2 1 1	9	SILTY SAND, coarse.	SM					W				
S6	18	3 2 1 1	11							W				
S7	12	1 1 2 2	13							W				
			14	SILTY GRAVEL, with sand.	GM									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: Firm SCS Engineers 2830 Dairy Drive Madison, WI 53718 Tel: 608-224-2830 Fax:

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

02/27/2026 - Classification: Internal - ECRM13684604

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW-310 Use only as an attachment to Form 4400-122.

Sample										Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S8	12	1 5 4 3	16		GM					W				
			17	End of Boring.										Blind drilled from 16' to 17'

02/27/2026 - Classification: Internal - ECRM13684604

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Prairie Creek Generating Station Permit No.:
Well or Piezometer No.: MW-310 Dates Started: 8/6/2019 Date Completed: 8/6/2019

A. SURVEYED LOCATION AND ELEVATION OF POINT (+0.5 ft.)

Specify corner of site: NW Distance and direction along boundary: 600 E
Distance and direction from boundary to surface monitoring well: 350 N
Elevation (+0.01 ft. MSL):
Ground Surface: 708.09 Top of protective casing: 712.29
Top of well casing: 711.93 Benchmark elevation:
Benchmark description:

B. SOIL BORING INFORMATION

Construction Company Name: Roberts Environmental Drilling Inc.
Address: 1107 South Mulberry Street City, State, Zip Code: Millstadt, IL, 62260
Name of driller: Jeff Crank
Drilling method: 4 1/4" HSA Drilling fluid: Bore Hole diameter: 8.5"
Soil sampling method: Split Spoon Depth of boring: 17'

C. MONITORING WELL INSTALLATION

Casing material: PVC
Length of casing: 19'
Outside casing diameter: 2.4"
Inside casing diameter: 2.0"
Casing joint type: Threaded
Casing/screen joint type: Threaded
Screen material: PVC
Screen opening size: 0.01'
Screen length: 10'
Depth of Well: 15'
Filter Pack:
Material: Filter Sand
Grain Size: #5
Volume: 18.9 cubic feet
Seal (minimum 3 ft. length above filter pack):
Material: Bentonite Chips 3/8"

Placement method: Gravity
Volume: 4.4 cubic feet
Backfill (if different from seal):
Material:
Placement method:
Volume:
Surface seal design: Concrete
Material of protective casing: Steel
Material of grout between protective casing and well casing: Bentonite/Filter Sand
Protective cap:
Material: Steel
Vented?: [X] Y [ ] N Locking?: [X] Y [ ] N
Well cap:
Material: Plastic
Vented?: [ ] Y [X] N

D. GROUNDWATER MEASUREMENT (±0.01 foot below top of inner well casing)

Water level: 10.21' **Stabilization time:** <3 hr
Well development method:
Average depth of frost line: 4 ft

DRILLER'S CERTIFICATION

I certify under penalty of law I believe the information reported above is true, accurate, and complete.

Signature: Jeff Crank **Certification #:** 8515 **Date:** 10-3-19

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 ½ inch x 11 inch map showing locations of all monitoring wells and piezometers.

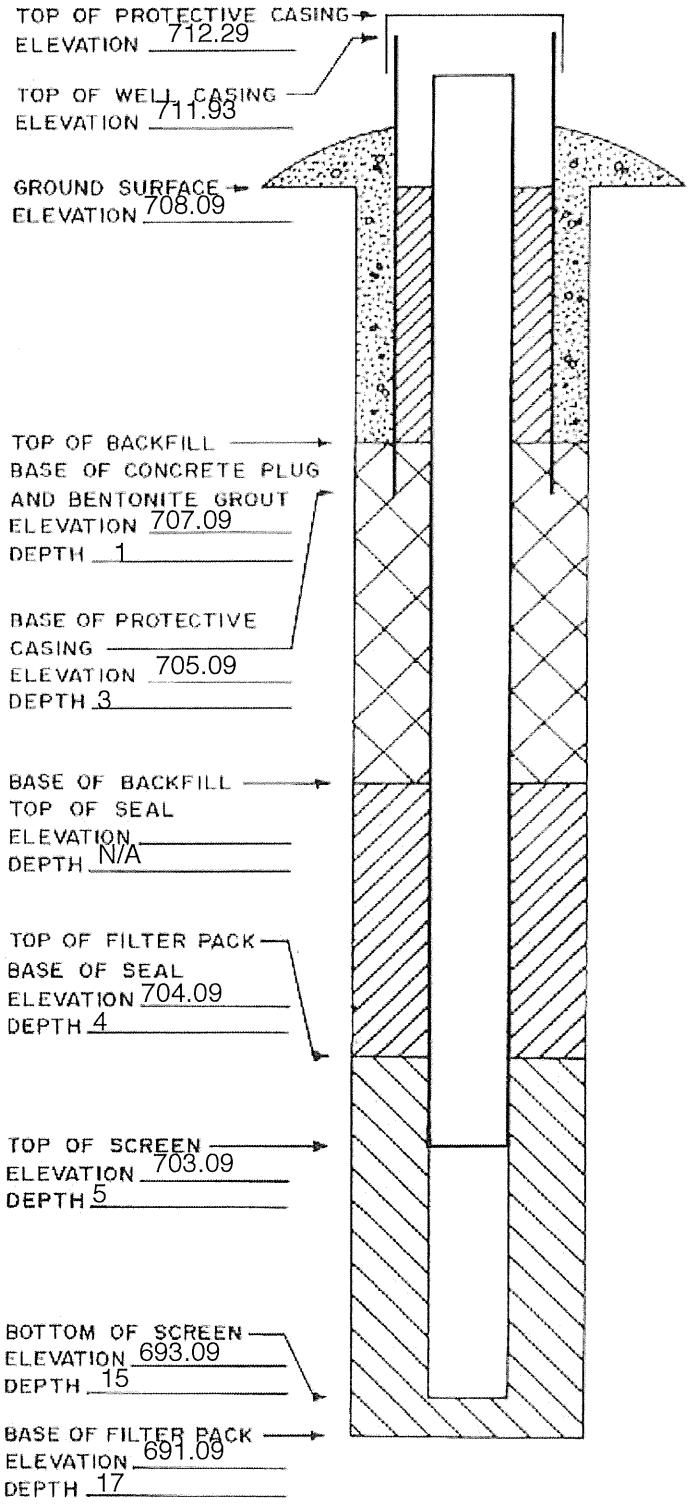
Please mail completed form to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E. 9th St, Des Moines, IA 50319.
Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

02/27/2020 Classification: Internal - ECRM13684604

ELEVATIONS: ± 0.01 FT. MSL

DEPTHS: ± 0.1 FT. FROM GROUND SERFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL).



02/27/2026 - Classification: Internal - ECRM13684604

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
Prairie Creek Generating Station		MW310
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well ID Number**
	__	______ / ___

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped ~~slowly~~ & surged	☒ 50
Other _____	☐ __

3. Time spent developing well 130 min.

4. Depth of well (from top of well casisng) 18.98 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing 24.8 gal.

7. Volume of water removed from well 950 gal.

8. Volume of water added (if any) ___.__ gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☒ No

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	10.39 ft.	10.39 ft.
Date b. (m m d d y y y y)	08/14/2019	08/14/2019
Time c.	8:20 ☒ a.m. ☐ p.m.	10:30 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	___.__ mg/l	___.__ mg/l
15. COD	___.__ mg/l	___.__ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Zach Last Name: Watson
Firm: SCS Engineers

17. Additional comments on development:

~~246 gal in well~~

5 gal / 6 min = pump rate

23.3
1.5
24.8

Name and Address of Facility Contact /Owner/Responsible Party
First Name: _____ Last Name: _____
Facility/Firm: Alliant Energy Prairie Creek
Street: 3300 C St. SW
City/State/Zip: Cedar Rapids 52404

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Zach Watson
Print Name: Zach Watson
Firm: SCS Engineers

NOTE: See instructions for more information including a list of county codes and well type codes.

3265 3306

02/27/2026 - Classification: Internal - ECRM13684604

SCS ENGINEERS
Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Prairie Creek Generating Station SCS#: 25220057		MW310A

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Roy Buckenberger Cascade	7/23/2020	7/23/2020	vibratory

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW310A	Feet	Feet	6.0 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S / C / N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Linn	Cedar Rapids, Iowa

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			1	Topsoil. Organic material, roots and plant material.	ML									
1	60		2	Lean Clay. Soft, trace coarse material. 2.5Y3/2.						M				
			3											
			4											
			5		CL									
			6											
			7											
2	60		8						0.5	W				
			9	Fine to Coarse Sand. Well Graded Sand. 2.5Y3/1.										
			10											
			11											
			12		SW									
3	60		13							W				
			14											
			15											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel:
Zach Watson	SCS Engineers 2830 Dairy Dr., Madison, WI 53718	Fax:

02/27/2026 - Classification: Internal - ECRM13684604

Boring Number MW310A

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			16	Lean Clay. trace coarse material (Fine Sand). 5Y4/1.										
			17											
4	60		18		CL				1.5	W				
			19											
			20											
			21	Well graded sand with silt and gravel. 5Y4/2.										
			22											
5	60		23							W				
			24											
			25											
			26											
			27		SW-SM									
6	60		28							W				
			29											
			30											
			31											
			32											
7	60		33							W				
				Silt with gravel.	ML									
			34	Well graded sand with silt and gravel. 5Y4/2.										
			35											
			36											
			37		SW-SM									
8	60		38							W				
			39											
			40											

Boring Number MW310A

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			41	Well graded sand with silt and gravel. 5Y4/2. *(continued)*										
			42											
9	60		43		SW-SM					W				
			44											
			45											
			46											

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: Prairie Creek Generating Station | Permit No.:

Well or Piezometer No.: MW310A | Dates Started: 7/23/2020 | Date Completed: 7/23/2020

A. SURVEYED LOCATION AND ELEVATION OF POINT (+0.5 ft.)

Specify corner of site: NW of parcel 19031-7600-2 | Distance and direction along boundary: 600' E

Distance and direction from boundary to surface monitoring well: 345' N

Elevation (+0.01 ft. MSL)

Ground Surface: 708.2 | Top of protective casing: 711.01

Top of well casing: 710.68 | Benchmark elevation:

Benchmark description: On-site benchmark, NAVD_88 datum.

B. SOIL BORING INFORMATION

Construction Company Name: Cascade Drilling

Address: 301 Alderson St. | City, State, Zip Code: Schofield, WI, 54476

Name of driller: Mike Mueller

Drilling method: Rotosonic | Drilling fluid: Water | Bore Hole diameter: 6 inches

Soil sampling method: 5 foot sections | Depth of boring: 46 feet

C. MONITORING WELL INSTALLATION

Casing material: PVC | Placement method: Gravity

Length of casing: 47.5 feet | Volume: 5.9 cubic feet

Outside casing diameter: 2.4 inches | Backfill (if different from seal): None

Inside casing diameter: 2.0 inches | Material:

Casing joint type: Threaded | Placement method:

Casing/screen joint type: | Volume:

Screen material: PVC | Surface seal design: Cement

Screen opening size: 0.01 inches | Material of protective casing: Steel

Material of grout between protective casing and well casing: Bentonite and Filter Sand

Screen length: 5 feet

Depth of Well: 45 feet below ground surface | Protective cap:

Filter Pack: Red Flint Filter Pack Sand | Material: Aluminium

Material: Sand | Vented?: ☒ Y ☐ N | Locking?: ☒ Y ☐ N

Grain Size: | Well cap:

Volume: 1.4 cubic feet | Material: Rubber

Seal (minimum 3 ft. length above filter pack): Bentonite Chips | Vented?: ☐ Y ☒ N

Material: Bentonite Chips

D. GROUNDWATER MEASUREMENT (±0.01 foot below top of inner well casing)

Water level: 8.68 | **Stabilization time**: < 5 minutes

Well development method: Surged and purged

Average depth of frost line: 4 ft

DRILLER'S CERTIFICATION

I certify under penalty of law I believe the information reported above is true, accurate, and complete.

Signature | **Certification #**: 9362 | **Date**: 7-23-2020

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 ½ inch x 11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed form to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E. 9th St, Des Moines, IA 50319.

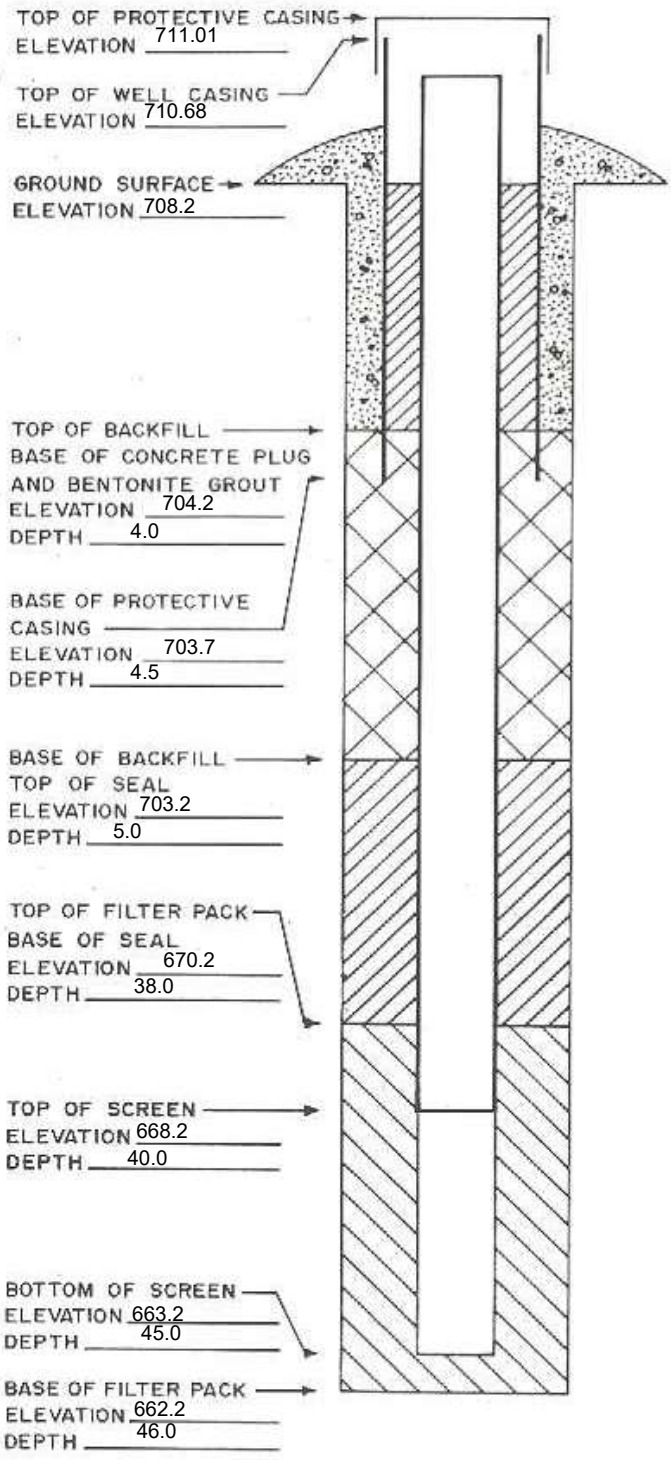
Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

02/27/2026 - Classification: Internal - ECRM13684604

ELEVATIONS: ± 0.01 FT. MSL

DEPTHS: ± 0.1 FT. FROM GROUND SERFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL).



02/27/2026 - Classification: Internal - ECRM13684604

SCS ENGINEERS
Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Prairie Creek Generating Station SCS#: 25222074.00		MW-311

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Duncan List Terracon	5/9/2022	5/9/2022	hollow stem auger

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-311	10.84 Feet MSL	721.6 Feet MSL	8.25" in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 3,447,992 N, 5,426,118 E S / C / N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Linn	Cedar Rapids

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1–15	Hydrovaced through gravel, sand, and silt, black to gray.	SP-SM									
S1	12	3 5 5 5	8–9	POORLY GRADED SAND, fine to coarse grained, gray to black.	SP									
S2	12	3 5 5 5	10–11	SILT, black with roots.	ML									
S3	14	2 3 3 5	13–14	POORLY GRADED SAND, fine to coarse grained, gray with trace silt. Same as above but transitions to brown at 14 feet below ground surface (bgs).	SP									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm SCS Engineers
3900 Kilroy Airport Way Long Beach, CA 90806
Tel:
Fax:

02/27/2026 - Classification: Internal - ECRM13684604

Boring Number MW-311 Page 2 of 2

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S4	6	3 4 5 5	16	POORLY GRADED SAND, fine to coarse grained, gray with trace silt. *(continued)* POORLY GRADED SAND, fine to coarse grained, brown.	SP									
S5	20	2 3 4 4	17	SILTY SAND, brown.	SM									
			18	POORLY GRADED SAND, fine to coarse grained, brown. Same as above but with gravel and light brwon.	SP									
S6	20	4 3 2 3	19											
			20	End of Boring at 20' below ground surface.										

02/27/2026 - Classification: Internal - ECRM13684604

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: Prairie Creek Generating Station | Permit No.: PPW22-0010

Well or Piezometer No.: MW-311 | Dates Started: 5/9/2022 | Date Completed: 5/9/2022

A. SURVEYED LOCATION AND ELEVATION OF POINT (+0.5 ft.)

Specify corner of site: NW | Distance and direction along boundary: 188' S

Distance and direction from boundary to surface monitoring well: 870' E

Elevation (+0.01 ft. MSL)

Ground Surface: 721.55 | Top of protective casing: 724.71

Top of well casing: 724.36 | Benchmark elevation:

Benchmark description:

B. SOIL BORING INFORMATION

Construction Company Name: Terracon

Address: 2640 12th St SW | City, State, Zip Code: Cedar Rapids, IA 52404

Name of driller: Duncan List

Drilling method: Auger | Drilling fluid: None | Bore Hole diameter: 8"

Soil sampling method: Split Spoon | Depth of boring: 20'

C. MONITORING WELL INSTALLATION

Casing material: Schedule 40 PVC | Placement method: Gravity

Length of casing: 6' | Volume: 8 bags

Outside casing diameter: 2.37 | **Backfill** (if different from seal):

Inside casing diameter: 2.01 | Material: NA

Casing joint type: Thread | Placement method: NA

Casing/screen joint type: Thread | Volume: NA

Screen material: Schedule 40 PVC | **Surface seal design:**

Screen opening size: 0.010 | Material of protective casing: Steel

Material of grout between protective casing and well casing: Bentonite chips

Screen length: 10'

Depth of Well: 16' | **Protective cap:**

Filter Pack: | Material: Steel

Material: Filter Sand | Vented?: ☒ Y ☐ N | Locking?: ☒ Y ☐ N

Grain Size: 16/30 | **Well cap:**

Volume: 9 cu. ft. | Material: Plastic

Seal (minimum 3 ft. length above filter pack): | Vented?: ☐ Y ☒ N

Material: 3/8' Bentonite Chips

D. GROUNDWATER MEASUREMENT (±0.01 foot below top of inner well casing)

Water level: 14.50' | **Stabilization time:** < 1 hr

Well development method: surged and pumped

Average depth of frost line: 4'

DRILLER'S CERTIFICATION

I certify under penalty of law I believe the information reported above is true, accurate, and complete.

Signature: [signature] | **Certification #:** 11183 | **Date:** 8/24/22

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 ½ inch x 11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed form to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E. 9th St, Des Moines, IA 50319.

Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

09/2017 cmc

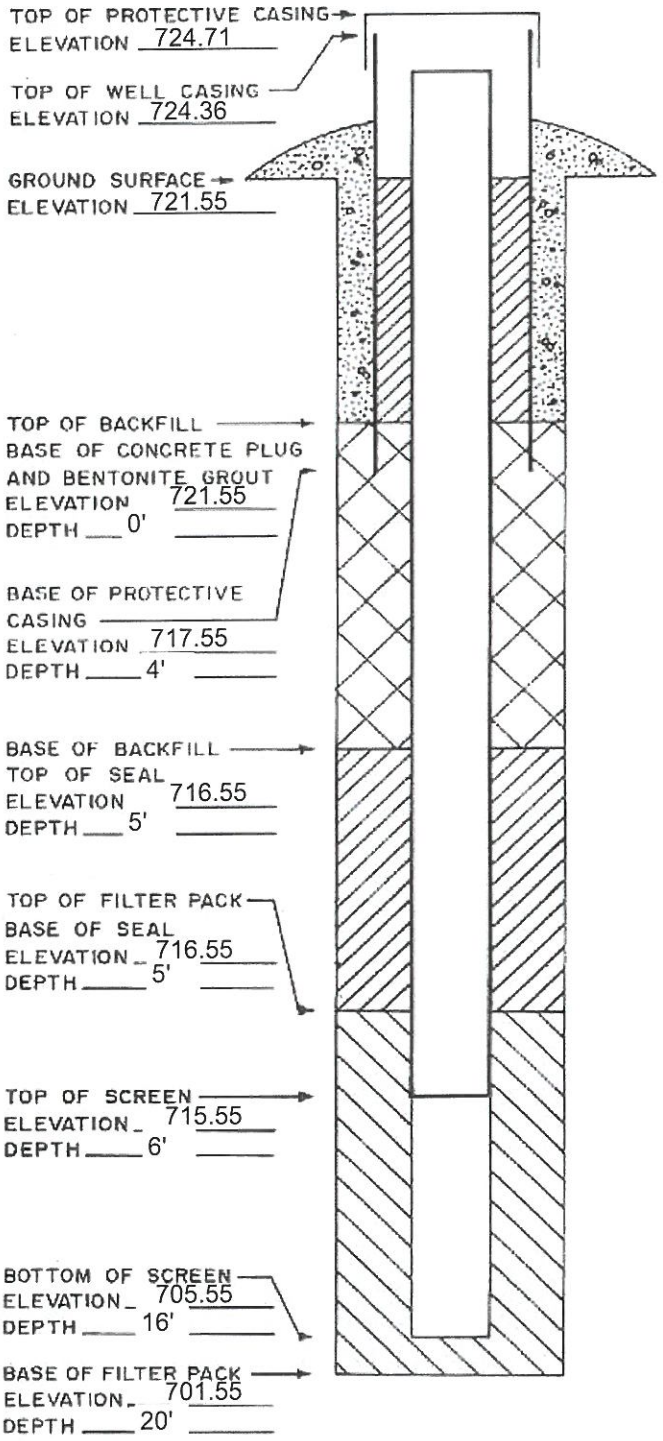
DNR Form 542-1277

02/27/2026 - Classification: Internal - ECRM13684604

ELEVATIONS: ± 0.01 FT. MSL

DEPTHS: ± 0.1 FT. FROM GROUND SERFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL).



02/27/2026 - Classification: Internal - ECRM13684604

SCS ENGINEERS
Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Prairie Creek Generating Station SCS#: 25222074.00		MW-312

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Duncan List Terracon	5/9/2022	5/9/2022	hollow stem auger

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-312	703.85 Feet MSL	709.0 Feet MSL	8.25" in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 3,448,197 N, 5,424,656 E S / C / N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Linn	Cedar Rapids

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S1	17	2 3 2 2	1	SILT WITH SAND, dark brown (topsoil).	ML									
			2	SILT, black with roots.										
S2	17	5 2 2 3	3		ML									
			4											
S3	21	2 1 1 1	5											
			6	SILTY SAND, black.	SM									
S4	20	2 1 1 0	7	POORLY GRADED SAND, fine to coarse grained, gray with a thin lense of black silt around 7.6' below ground surface.	SP									Water at 6'
			8	Same as above but mottled, medium brown to gray with trace gravel.										
S5	14	2 1 1 1	9											
			10											
S6	16	1 WH 1 1	11											
			12	No recovery.										
S7	0	WH 1 1 1	13											
			14	No recovery.										
			15											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel:
	SCS Engineers 3900 Kilroy Airport Way Long Beach, CA 90806	Fax:

02/27/2026 - Classification: Internal - ECRM13684604

Boring Number MW-312 Page 2 of 2

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S8	0		16	End of boring at 16' below ground surface.										

02/27/2026 - Classification: Internal - ECRM13684604

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: Prairie Creek Generating Station | Permit No.: PPW22-0011

Well or Piezometer No.: MW-312 | Dates Started: 5/9/2022 | Date Completed: 5/9/2022

A. SURVEYED LOCATION AND ELEVATION OF POINT (+0.5 ft.)

Specify corner of site: SW | Distance and direction along boundary: 2,092' ENE

Distance and direction from boundary to surface monitoring well: 60' NNW

Elevation (+0.01 ft. MSL)

Ground Surface: 708.95 | Top of protective casing: 711.93

Top of well casing: 711.60 | Benchmark elevation:

Benchmark description:

B. SOIL BORING INFORMATION

Construction Company Name: Terracon

Address: 2640 12th St SW | City, State, Zip Code: Cedar Rapids, IA 52404

Name of driller: Duncan List

Drilling method: Auger | Drilling fluid: None | Bore Hole diameter: 8"

Soil sampling method: Split Spoon | Depth of boring: 16'

C. MONITORING WELL INSTALLATION

Casing material: Schedule 40 PVC | Placement method: Gravity

Length of casing: 5' | Volume: 2 bags

Outside casing diameter: 2.37 | **Backfill** (if different from seal):

Inside casing diameter: 2.01 | Material: NA

Casing joint type: Thread | Placement method: NA

Casing/screen joint type: Thread | Volume: NA

Screen material: Schedule 40 PVC | **Surface seal design:**

Screen opening size: 0.010 | Material of protective casing: Steel

Material of grout between protective casing and well casing: Filter Sand

Screen length: 10'

Depth of Well: 15' | **Protective cap:**

Filter Pack: | Material: Steel

Material: Filter Sand | Vented?: ☒ Y ☐ N | Locking?: ☒ Y ☐ N

Grain Size: 16/30 | **Well cap:**

Volume: 2 bags | Material: Plastic

Seal (minimum 3 ft. length above filter pack): | Vented?: ☐ Y ☒ N

Material: 3/8' Bentonite Chips

D. GROUNDWATER MEASUREMENT (±0.01 foot below top of inner well casing)

Water level: 8.08' | **Stabilization time:** < 1 hour

Well development method: Surged and pumped

Average depth of frost line: 4'

DRILLER'S CERTIFICATION

I certify under penalty of law I believe the information reported above is true, accurate, and complete.

Signature: [signature] | **Certification #:** 11183 | **Date:** 8/29/22

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 ½ inch x 11 inch map showing locations of all monitoring wells and piezometers.

Please mail completed form to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E. 9th St, Des Moines, IA 50319.

Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

09/2017 cmc

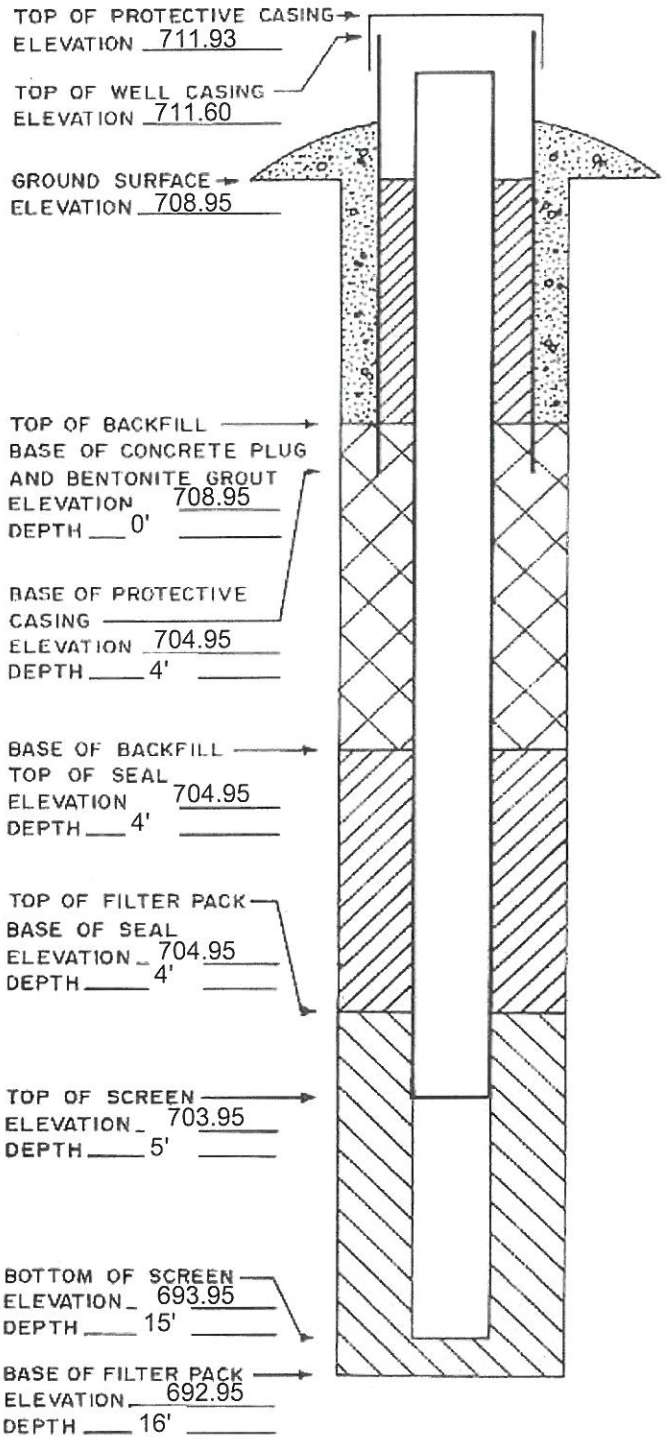
DNR Form 542-1277

02/27/2026 - Classification: Internal - ECRM13684604

ELEVATIONS: ± 0.01 FT. MSL

DEPTHS: ± 0.1 FT. FROM GROUND SERFACE

SPACE TO ATTACH ENTIRE SOIL BORING LOG
(SHOW SCREENED INTERVAL AND FILTER PACK INTERVAL).



02/27/2026 - Classification: Internal - ECRM13684604

Appendix C

Laboratory Reports

02/27/2026 - Classification: Internal - ECRM13684604

C1 October 2024 Assessment Monitoring

02/27/2026 - Classification: Internal - ECRM13684604

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Meghan Blodgett
SCS Engineers
2830 Dairy Drive
Madison, Wisconsin 53718

Generated 11/14/2024 1:29:46 PM Revision 1

JOB DESCRIPTION

Prairie Creek Generating Station 25224074

JOB NUMBER

310-292111-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

myEOL

Job Notes

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

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

Authorization

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Revision 1

Authorized for release by
Sandie Fredrick, Senior Project Manager
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Job ID: 310-292111-1 Eurofins Cedar Falls

Job Narrative
310-292111-1

Revision
The report being provided is a revision of the original report sent on 11/12/2024. The report (revision 1) is being revised due to: Updated report to include ug/L units for all metals.

Receipt
The samples were received on 10/4/2024 4:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.4º C, 1.9º C and 2.9º C.

Receipt Exceptions
Only one 1L plastic nitric received for sample MW-301A MW-301A (310-292111-2)

HPLC/IC
Method 9056A: The following samples were diluted due to the nature of the sample matrix: MW-301 (310-292111-1), MW-301A (310-292111-2), MW-302 (310-292111-3), MW-305 (310-292111-6), MW-306 (310-292111-7), MW-307 (310-292111-9), MW-308 (310-292111-10) and MW-312 (310-292111-15). Elevated reporting limits (RLs) are provided.

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

RAD
Method 904.0: Radium 228 Batch 682844 The MDC for the following sample(s) is flagged as failing; The laboratory considers the detection goal (requested limit) met when rounding to the appropriate place value. MW-308 (310-292111-10)

Methods 904.0, 9320: Radium 228 Batch 682844 The method blank (MB) exhibits activity above the requested limit (RL) for Radium 228. Associated sample(s) have activity below the RL. The data for the following samples have been reported with this narrative: MW-305 (310-292111-6), MW-306 (310-292111-7), MW-307 (310-292111-9), MW-312 (310-292111-15) and Field Blank (310-292111-16)

Methods 904.0, 9320: Radium 228 Batch 685415 The LCSD recovery was outside the QC limit. However the purpose of the DUP is to demonstrate batch precision. The precision was within control limits demonstrating no adverse effect from the discrepancy. (LCSD 160-685415/3-A)

Methods 904.0, 9320: Radium 228 batch 685414 The LCS recovered at (133%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (69-145%) per method requirements. The LCS passes, no further action is required
(LCS 160-685414/2-A)

Method 904.0: Radium-228 Prep Batch 160-686138: The replicate error ratio (RER, 1.3) of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) associated with the following samples recovered outside control limits (<1): MW-301 (310-292111-1) and MW-301A (310-292111-2). The spike recoveries for the LCS (121%) and LCSD (182%) fall outside the upper control limit (120%) indicating a possible high bias for the associated samples. The sample results fell below the RL, so the laboratory is not concerned these samples were affected by the possible bias. The samples do not have remaining sample volume to be re-extracted, so the results have been reported with this narrative.

Method PrecSep_0: Radium-228 prep batch 160-685414 Insufficient sample volume was available to perform a sample duplicate for the following samples: MW-302 (310-292111-3) and MW-303 (310-292111-4). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium-228 prep batch 160-685415 Insufficient sample volume was available to perform a sample duplicate for the following samples: <CommaMerge. A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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

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

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

Sample Summary

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-292111-1	MW-301	Water	10/01/24 13:02	10/04/24 16:30
310-292111-2	MW-301A	Water	10/03/24 11:50	10/04/24 16:30
310-292111-3	MW-302	Water	10/01/24 14:17	10/04/24 16:30
310-292111-4	MW-303	Water	10/02/24 14:15	10/04/24 16:30
310-292111-5	MW-304	Water	10/02/24 13:04	10/04/24 16:30
310-292111-6	MW-305	Water	10/02/24 11:55	10/04/24 16:30
310-292111-7	MW-306	Water	10/02/24 09:36	10/04/24 16:30
310-292111-8	MW-306A	Water	10/02/24 10:47	10/04/24 16:30
310-292111-9	MW-307	Water	10/01/24 16:04	10/04/24 16:30
310-292111-10	MW-308	Water	10/01/24 17:26	10/04/24 16:30
310-292111-11	MW-309	Water	10/02/24 16:49	10/04/24 16:30
310-292111-12	MW-309A	Water	10/02/24 17:36	10/04/24 16:30
310-292111-13	MW-310	Water	10/03/24 10:18	10/04/24 16:30
310-292111-14	MW-310A	Water	10/03/24 11:07	10/04/24 16:30
310-292111-15	MW-312	Water	10/02/24 15:23	10/04/24 16:30
310-292111-16	Field Blank	Water	10/02/24 17:50	10/04/24 16:30

Detection Summary

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-301
Lab Sample ID: 310-292111-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	110		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	96		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	0.72	J	2.0	0.53	ug/L	1		6020B	Total/NA
Barium	250		2.0	0.66	ug/L	1		6020B	Total/NA
Calcium	180		0.50	0.19	mg/L	1		6020B	Total/NA
Chromium	5.0		5.0	1.2	ug/L	1		6020B	Total/NA
Lithium	14		10	2.5	ug/L	1		6020B	Total/NA
Thallium	0.84	J	1.0	0.57	ug/L	1		6020B	Total/NA
Total Dissolved Solids	780		50	42	mg/L	1		SM 2540C	Total/NA
pH	7.1	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	713.08				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	162.6				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.42				mg/L	1		Field Sampling	Total/NA
Field pH	6.49				SU	1		Field Sampling	Total/NA
Field Conductivity	1535				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	13.7				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	6.28				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-301A
Lab Sample ID: 310-292111-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.8	J	5.0	2.3	mg/L	5		9056A	Total/NA
Arsenic	5.8		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	130		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	90	J	100	76	ug/L	1		6020B	Total/NA
Calcium	73		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	0.73		0.50	0.17	ug/L	1		6020B	Total/NA
Iron	11000		100	36	ug/L	1		6020B	Total/NA
Molybdenum	1.8	J	2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	280		50	42	mg/L	1		SM 2540C	Total/NA
pH	7.0	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	706.89				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	80.8				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.22				mg/L	1		Field Sampling	Total/NA
Field pH	6.92				SU	1		Field Sampling	Total/NA
Field Conductivity	704				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	17.7				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	32.07				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-302
Lab Sample ID: 310-292111-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	95		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	80		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	4.4		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	250		2.0	0.66	ug/L	1		6020B	Total/NA
Cadmium	0.24		0.20	0.10	ug/L	1		6020B	Total/NA
Calcium	130		0.50	0.19	mg/L	1		6020B	Total/NA
Chromium	2.1	J	5.0	1.2	ug/L	1		6020B	Total/NA
Cobalt	4.2		0.50	0.17	ug/L	1		6020B	Total/NA
Iron	5700		100	36	ug/L	1		6020B	Total/NA
Lead	0.26	J	0.50	0.26	ug/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-302 (Continued) — Lab Sample ID: 310-292111-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	8.5	J	10	2.5	ug/L	1		6020B	Total/NA
Thallium	0.96	J	1.0	0.57	ug/L	1		6020B	Total/NA
Total Dissolved Solids	600		50	42	mg/L	1		SM 2540C	Total/NA
pH	7.0	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	712.40				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	145.4				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.61				mg/L	1		Field Sampling	Total/NA
Field pH	6.38				SU	1		Field Sampling	Total/NA
Field Conductivity	1217				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	15.2				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	6.84				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-303 — Lab Sample ID: 310-292111-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	17		5.0	2.3	mg/L	5		9056A	Total/NA
Fluoride	0.39	J	1.0	0.38	mg/L	5		9056A	Total/NA
Sulfate	130		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	36		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	120		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	1400		100	76	ug/L	1		6020B	Total/NA
Calcium	130		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	0.25	J	0.50	0.17	ug/L	1		6020B	Total/NA
Iron	3300		100	36	ug/L	1		6020B	Total/NA
Lithium	20		10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	13		2.0	1.3	ug/L	1		6020B	Total/NA
Thallium	0.70	J	1.0	0.57	ug/L	1		6020B	Total/NA
Total Dissolved Solids	640		50	42	mg/L	1		SM 2540C	Total/NA
pH	7.1	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	701.81				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-64.4				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.22				mg/L	1		Field Sampling	Total/NA
Field pH	6.78				SU	1		Field Sampling	Total/NA
Field Conductivity	1239				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	16.1				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	7.97				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-304 — Lab Sample ID: 310-292111-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14		5.0	2.3	mg/L	5		9056A	Total/NA
Fluoride	0.70	J	1.0	0.38	mg/L	5		9056A	Total/NA
Sulfate	220		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	23		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	120		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	1100		100	76	ug/L	1		6020B	Total/NA
Calcium	150		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	0.94		0.50	0.17	ug/L	1		6020B	Total/NA
Iron	1700		100	36	ug/L	1		6020B	Total/NA
Lithium	22		10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	26		2.0	1.3	ug/L	1		6020B	Total/NA
Thallium	0.60	J	1.0	0.57	ug/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-304 (Continued) — Lab Sample ID: 310-292111-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	750		50	42	mg/L	1		SM 2540C	Total/NA
pH	7.0	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	701.76				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-18.3				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.22				mg/L	1		Field Sampling	Total/NA
Field pH	6.68				SU	1		Field Sampling	Total/NA
Field Conductivity	1353				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	16.1				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	6.37				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-305 — Lab Sample ID: 310-292111-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	270		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	12		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	140		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	1200		100	76	ug/L	1		6020B	Total/NA
Calcium	150		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	0.60		0.50	0.17	ug/L	1		6020B	Total/NA
Iron	190		100	36	ug/L	1		6020B	Total/NA
Lithium	21		10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	45		2.0	1.3	ug/L	1		6020B	Total/NA
Thallium	0.60	J	1.0	0.57	ug/L	1		6020B	Total/NA
Total Dissolved Solids	780		50	42	mg/L	1		SM 2540C	Total/NA
pH	7.2	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	701.63				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	28.6				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.24				mg/L	1		Field Sampling	Total/NA
Field pH	6.79				SU	1		Field Sampling	Total/NA
Field Conductivity	1434				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	16.5				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	6.55				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-306 — Lab Sample ID: 310-292111-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	22		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	150		5.0	2.1	mg/L	5		9056A	Total/NA
Barium	81		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	1900		100	76	ug/L	1		6020B	Total/NA
Calcium	92		0.50	0.19	mg/L	1		6020B	Total/NA
Iron	2900		100	36	ug/L	1		6020B	Total/NA
Lithium	2.7	J	10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	120		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	510		50	42	mg/L	1		SM 2540C	Total/NA
pH	7.6	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	701.99				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-82.5				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.46				mg/L	1		Field Sampling	Total/NA
Field pH	7.28				SU	1		Field Sampling	Total/NA
Field Conductivity	984				umhos/cm	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-306 (Continued) — Lab Sample ID: 310-292111-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field Temperature	12.7				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	10.47				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-306A — Lab Sample ID: 310-292111-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	6.4	J	10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	18		2.0	1.3	ug/L	1		6020B	Total/NA
Groundwater Elevation	702.22				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-7.1				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.13				mg/L	1		Field Sampling	Total/NA
Field pH	7.12				SU	1		Field Sampling	Total/NA
Field Conductivity	1427				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	14.3				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	8.89				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-307 — Lab Sample ID: 310-292111-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	45		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	6.7		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	59		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	960		100	76	ug/L	1		6020B	Total/NA
Calcium	25		0.50	0.19	mg/L	1		6020B	Total/NA
Lithium	14		10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	8.2		2.0	1.3	ug/L	1		6020B	Total/NA
Selenium	4.5	J	5.0	1.4	ug/L	1		6020B	Total/NA
Total Dissolved Solids	140		50	42	mg/L	1		SM 2540C	Total/NA
pH	9.0	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	705.64				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	71.5				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.52				mg/L	1		Field Sampling	Total/NA
Field pH	8.88				SU	1		Field Sampling	Total/NA
Field Conductivity	239.2				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	21.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	5.77				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-308 — Lab Sample ID: 310-292111-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.0		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	260		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	44		10	2.7	ug/L	5		6020B	Total/NA
Barium	72		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	6500		500	380	ug/L	5		6020B	Total/NA
Calcium	110		0.50	0.19	mg/L	1		6020B	Total/NA
Lithium	59		10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	76		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	550		50	42	mg/L	1		SM 2540C	Total/NA
pH	9.0	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	703.06				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-138.8				mV	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-308 (Continued) — Lab Sample ID: 310-292111-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved	0.26				mg/L	1		Field Sampling	Total/NA
Field pH	8.85				SU	1		Field Sampling	Total/NA
Field Conductivity	902				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	15.9				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	7.96				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-309 — Lab Sample ID: 310-292111-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	27		2.0	0.53	ug/L	1		6020B	Total/NA
Lithium	19		10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	19		2.0	1.3	ug/L	1		6020B	Total/NA
Groundwater Elevation	701.76				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-95.9				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.31				mg/L	1		Field Sampling	Total/NA
Field pH	7.14				SU	1		Field Sampling	Total/NA
Field Conductivity	1240				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	19.7				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	7.10				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-309A — Lab Sample ID: 310-292111-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.88	J	2.0	0.53	ug/L	1		6020B	Total/NA
Lithium	6.6	J	10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	7.5		2.0	1.3	ug/L	1		6020B	Total/NA
Groundwater Elevation	702.00				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-78.3				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.94				mg/L	1		Field Sampling	Total/NA
Field pH	7.01				SU	1		Field Sampling	Total/NA
Field Conductivity	1046				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	17.0				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	9.06				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-310 — Lab Sample ID: 310-292111-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	25		2.0	0.53	ug/L	1		6020B	Total/NA
Lithium	19		10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	41		2.0	1.3	ug/L	1		6020B	Total/NA
Groundwater Elevation	701.50				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-48.3				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.25				mg/L	1		Field Sampling	Total/NA
Field pH	7.03				SU	1		Field Sampling	Total/NA
Field Conductivity	1480				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	17.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	8.05				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-310A — Lab Sample ID: 310-292111-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	4.4	J	10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	14		2.0	1.3	ug/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-310A (Continued) — Lab Sample ID: 310-292111-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Groundwater Elevation	701.74				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-52.2				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.27				mg/L	1		Field Sampling	Total/NA
Field pH	7.20				SU	1		Field Sampling	Total/NA
Field Conductivity	1316				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	15.5				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	6.39				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-312 — Lab Sample ID: 310-292111-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	67		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	18		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	5.8		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	140		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	310		100	76	ug/L	1		6020B	Total/NA
Calcium	95		0.50	0.19	mg/L	1		6020B	Total/NA
Iron	6900		100	36	ug/L	1		6020B	Total/NA
Lithium	6.3	J	10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	5.3		2.0	1.3	ug/L	1		6020B	Total/NA
Thallium	0.64	J	1.0	0.57	ug/L	1		6020B	Total/NA
Total Dissolved Solids	430		50	42	mg/L	1		SM 2540C	Total/NA
pH	6.9	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	702.48				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-60.9				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.99				mg/L	1		Field Sampling	Total/NA
Field pH	6.66				SU	1		Field Sampling	Total/NA
Field Conductivity	937				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	25.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	8.08				NTU	1		Field Sampling	Total/NA

Client Sample ID: Field Blank — Lab Sample ID: 310-292111-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	5.7	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-301
Date Collected: 10/01/24 13:02
Date Received: 10/04/24 16:30

Lab Sample ID: 310-292111-1
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**		5.0	2.3	mg/L			10/09/24 21:11	5
Fluoride	<0.38		1.0	0.38	mg/L			10/09/24 21:11	5
Sulfate	**96**		5.0	2.1	mg/L			10/09/24 21:11	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		10/09/24 09:30	10/11/24 20:08	1
Arsenic	**0.72**	**J**	2.0	0.53	ug/L		10/09/24 09:30	10/11/24 20:08	1
Barium	**250**		2.0	0.66	ug/L		10/09/24 09:30	10/11/24 20:08	1
Beryllium	<0.33		1.0	0.33	ug/L		10/09/24 09:30	10/14/24 12:46	1
Boron	<76		100	76	ug/L		10/09/24 09:30	10/11/24 20:08	1
Cadmium	<0.10		0.20	0.10	ug/L		10/09/24 09:30	10/11/24 20:08	1
Calcium	**180**		0.50	0.19	mg/L		10/09/24 09:30	10/11/24 20:08	1
Chromium	**5.0**		5.0	1.2	ug/L		10/09/24 09:30	10/11/24 20:08	1
Cobalt	<0.17		0.50	0.17	ug/L		10/09/24 09:30	10/11/24 20:08	1
Iron	<36		100	36	ug/L		10/09/24 09:30	10/11/24 20:08	1
Lead	<0.26		0.50	0.26	ug/L		10/09/24 09:30	10/11/24 20:08	1
Lithium	**14**		10	2.5	ug/L		10/09/24 09:30	10/14/24 12:46	1
Molybdenum	<1.3		2.0	1.3	ug/L		10/09/24 09:30	10/11/24 20:08	1
Selenium	<1.4		5.0	1.4	ug/L		10/09/24 09:30	10/11/24 20:08	1
Thallium	**0.84**	**J**	1.0	0.57	ug/L		10/09/24 09:30	10/14/24 12:46	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		10/12/24 10:55	10/14/24 10:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**780**		50	42	mg/L			10/07/24 20:05	1
pH (SM 4500 H+ B)	**7.1**	**HF**	1.0	1.0	SU			10/04/24 17:31	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	**0.245**		0.116	0.119	1.00	0.129	pCi/L	10/09/24 08:05	10/31/24 07:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*66.2*		*30 - 110*	*10/09/24 08:05*	*10/31/24 07:53*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	-0.0726	U *	0.358	0.358	1.00	0.687	pCi/L	10/31/24 08:12	11/08/24 11:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*85.3*		*30 - 110*	*10/31/24 08:12*	*11/08/24 11:56*	*1*
Y Carrier	*75.1*		*30 - 110*	*10/31/24 08:12*	*11/08/24 11:56*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-301
Lab Sample ID: 310-292111-1
Date Collected: 10/01/24 13:02
Matrix: Water
Date Received: 10/04/24 16:30

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.245	U	0.376	0.377	5.00	0.687	pCi/L		11/12/24 07:40	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	713.08				ft			10/01/24 13:02	1
Oxidation Reduction Potential	162.6				mV			10/01/24 13:02	1
Oxygen, Dissolved	4.42				mg/L			10/01/24 13:02	1
Field pH	6.49				SU			10/01/24 13:02	1
Field Conductivity	1535				umhos/cm			10/01/24 13:02	1
Field Temperature	13.7				Degrees C			10/01/24 13:02	1
Field Turbidity	6.28				NTU			10/01/24 13:02	1

Client Sample ID: MW-301A
Date Collected: 10/03/24 11:50
Date Received: 10/04/24 16:30

Lab Sample ID: 310-292111-2
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.8**	**J**	5.0	2.3	mg/L			10/09/24 21:50	5
Fluoride	<0.38		1.0	0.38	mg/L			10/09/24 21:50	5
Sulfate	<2.1		5.0	2.1	mg/L			10/09/24 21:50	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		10/09/24 09:30	10/11/24 20:10	1
Arsenic	**5.8**		2.0	0.53	ug/L		10/09/24 09:30	10/11/24 20:10	1
Barium	**130**		2.0	0.66	ug/L		10/09/24 09:30	10/11/24 20:10	1
Beryllium	<0.33		1.0	0.33	ug/L		10/09/24 09:30	10/14/24 12:48	1
Boron	**90**	**J**	100	76	ug/L		10/09/24 09:30	10/11/24 20:10	1
Cadmium	<0.10		0.20	0.10	ug/L		10/09/24 09:30	10/11/24 20:10	1
Calcium	**73**		0.50	0.19	mg/L		10/09/24 09:30	10/11/24 20:10	1
Chromium	<1.2		5.0	1.2	ug/L		10/09/24 09:30	10/11/24 20:10	1
Cobalt	**0.73**		0.50	0.17	ug/L		10/09/24 09:30	10/11/24 20:10	1
Iron	**11000**		100	36	ug/L		10/09/24 09:30	10/11/24 20:10	1
Lead	<0.26		0.50	0.26	ug/L		10/09/24 09:30	10/11/24 20:10	1
Lithium	<2.5		10	2.5	ug/L		10/09/24 09:30	10/14/24 12:48	1
Molybdenum	**1.8**	**J**	2.0	1.3	ug/L		10/09/24 09:30	10/11/24 20:10	1
Selenium	<1.4		5.0	1.4	ug/L		10/09/24 09:30	10/11/24 20:10	1
Thallium	<0.57		1.0	0.57	ug/L		10/09/24 09:30	10/14/24 12:48	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		10/12/24 10:55	10/14/24 11:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**280**		50	42	mg/L			10/08/24 16:50	1
pH (SM 4500 H+ B)	**7.0**	**HF**	1.0	1.0	SU			10/04/24 17:51	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	**0.300**		0.126	0.128	1.00	0.135	pCi/L	10/09/24 08:05	10/31/24 07:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*71.9*		*30 - 110*	*10/09/24 08:05*	*10/31/24 07:53*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	0.666	U G *	0.986	0.988	1.00	1.66	pCi/L	10/31/24 08:12	11/08/24 11:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*69.7*		*30 - 110*	*10/31/24 08:12*	*11/08/24 11:56*	*1*
Y Carrier	*77.4*		*30 - 110*	*10/31/24 08:12*	*11/08/24 11:56*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-301A
Lab Sample ID: 310-292111-2
Date Collected: 10/03/24 11:50
Matrix: Water
Date Received: 10/04/24 16:30

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.966	U	0.994	0.996	5.00	1.66	pCi/L		11/12/24 07:40	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	706.89				ft			10/03/24 11:50	1
Oxidation Reduction Potential	80.8				mV			10/03/24 11:50	1
Oxygen, Dissolved	4.22				mg/L			10/03/24 11:50	1
Field pH	6.92				SU			10/03/24 11:50	1
Field Conductivity	704				umhos/cm			10/03/24 11:50	1
Field Temperature	17.7				Degrees C			10/03/24 11:50	1
Field Turbidity	32.07				NTU			10/03/24 11:50	1

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-302
Date Collected: 10/01/24 14:17
Date Received: 10/04/24 16:30

Lab Sample ID: 310-292111-3
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**95**		5.0	2.3	mg/L			10/09/24 22:28	5
Fluoride	<0.38		1.0	0.38	mg/L			10/09/24 22:28	5
Sulfate	**80**		5.0	2.1	mg/L			10/09/24 22:28	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		10/09/24 09:30	10/11/24 20:12	1
Arsenic	**4.4**		2.0	0.53	ug/L		10/09/24 09:30	10/11/24 20:12	1
Barium	**250**		2.0	0.66	ug/L		10/09/24 09:30	10/11/24 20:12	1
Beryllium	<0.33		1.0	0.33	ug/L		10/09/24 09:30	10/14/24 12:50	1
Boron	<76		100	76	ug/L		10/09/24 09:30	10/11/24 20:12	1
Cadmium	**0.24**		0.20	0.10	ug/L		10/09/24 09:30	10/11/24 20:12	1
Calcium	**130**		0.50	0.19	mg/L		10/09/24 09:30	10/11/24 20:12	1
Chromium	**2.1**	**J**	5.0	1.2	ug/L		10/09/24 09:30	10/11/24 20:12	1
Cobalt	**4.2**		0.50	0.17	ug/L		10/09/24 09:30	10/11/24 20:12	1
Iron	**5700**		100	36	ug/L		10/09/24 09:30	10/11/24 20:12	1
Lead	**0.26**	**J**	0.50	0.26	ug/L		10/09/24 09:30	10/11/24 20:12	1
Lithium	**8.5**	**J**	10	2.5	ug/L		10/09/24 09:30	10/14/24 12:50	1
Molybdenum	<1.3		2.0	1.3	ug/L		10/09/24 09:30	10/11/24 20:12	1
Selenium	<1.4		5.0	1.4	ug/L		10/09/24 09:30	10/11/24 20:12	1
Thallium	**0.96**	**J**	1.0	0.57	ug/L		10/09/24 09:30	10/14/24 12:50	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		10/12/24 10:55	10/14/24 11:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**600**		50	42	mg/L			10/07/24 20:05	1
pH (SM 4500 H+ B)	**7.0**	**HF**	1.0	1.0	SU			10/04/24 17:36	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	**0.339**		0.130	0.133	1.00	0.133	pCi/L	10/09/24 08:05	10/31/24 07:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*74.2*		*30 - 110*	*10/09/24 08:05*	*10/31/24 07:53*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	0.442	U	0.387	0.389	1.00	0.612	pCi/L	10/28/24 09:10	11/06/24 12:30	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*87.8*		*30 - 110*	*10/28/24 09:10*	*11/06/24 12:30*	*1*
Y Carrier	*87.1*		*30 - 110*	*10/28/24 09:10*	*11/06/24 12:30*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-302
Lab Sample ID: 310-292111-3
Date Collected: 10/01/24 14:17
Matrix: Water
Date Received: 10/04/24 16:30

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.48		0.529	0.540	5.00	0.664	pCi/L		11/12/24 07:40	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	712.40				ft			10/01/24 14:17	1
Oxidation Reduction Potential	145.4				mV			10/01/24 14:17	1
Oxygen, Dissolved	1.61				mg/L			10/01/24 14:17	1
Field pH	6.38				SU			10/01/24 14:17	1
Field Conductivity	1217				umhos/cm			10/01/24 14:17	1
Field Temperature	15.2				Degrees C			10/01/24 14:17	1
Field Turbidity	6.84				NTU			10/01/24 14:17	1

Client: SCS Engineers
Project/Site: Prairie Creek Generating Station 25224074

Job ID: 310-292111-1

Client Sample ID: MW-303

Date Collected: 10/02/24 14:15
Date Received: 10/04/24 16:30

Lab Sample ID: 310-292111-4

Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17		5.0	2.3	mg/L			10/09/24 22:41	5
Fluoride	0.39	J	1.0	0.38	mg/L			10/09/24 22:41	5
Sulfate	130		5.0	2.1	mg/L			10/09/24 22:41	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		10/09/24 09:30	10/11/24 20:15	1
Arsenic	36		2.0	0.53	ug/L		10/09/24 09:30	10/11/24 20:15	1
Barium	120		2.0	0.66	ug/L		10/09/24 09:30	10/11/24 20:15	1
Beryllium	<0.33		1.0	0.33	ug/L		10/09/24 09:30	10/14/24 13:01	1
Boron	1400		100	76	ug/L		10/09/24 09:30	10/11/24 20:15	1
Cadmium	<0.10		0.20	0.10	ug/L		10/09/24 09:30	10/11/24 20:15	1
Calcium	130		0.50	0.19	mg/L		10/09/24 09:30	10/11/24 20:15	1
Chromium	<1.2		5.0	1.2	ug/L		10/09/24 09:30	10/11/24 20:15	1
Cobalt	0.25	J	0.50	0.17	ug/L		10/09/24 09:30	10/11/24 20:15	1
Iron	3300		100	36	ug/L		10/09/24 09:30	10/11/24 20:15	1
Lead	<0.26		0.50	0.26	ug/L		10/09/24 09:30	10/11/24 20:15	1
Lithium	20		10	2.5	ug/L		10/09/24 09:30	10/14/24 13:01	1
Molybdenum	13		2.0	1.3	ug/L		10/09/24 09:30	10/11/24 20:15	1
Selenium	<1.4		5.0	1.4	ug/L		10/09/24 09:30	10/11/24 20:15	1
Thallium	0.70	J	1.0	0.57	ug/L		10/09/24 09:30	10/14/24 13:01	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		10/12/24 10:55	10/14/24 11:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	640		50	42	mg/L			10/07/24 20:15	1
pH (SM 4500 H+ B)	7.1	HF	1.0	1.0	SU			10/04/24 17:51	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	0.184		0.0994	0.101	1.00	0.119	pCi/L	10/09/24 08:05	10/31/24 07:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*76.0*		*30 - 110*	*10/09/24 08:05*	*10/31/24 07:54*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	1.00		0.447	0.456	1.00	0.600	pCi/L	10/28/24 09:10	11/06/24 12:30	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*88.3*		*30 - 110*	*10/28/24 09:10*	*11/06/24 12:30*	*1*
Y Carrier	*83.0*		*30 - 110*	*10/28/24 09:10*	*11/06/24 12:30*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-303
Lab Sample ID: 310-292111-4
Date Collected: 10/02/24 14:15
Matrix: Water
Date Received: 10/04/24 16:30

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.47		0.559	0.571	5.00	0.722	pCi/L		11/12/24 07:40	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	701.81				ft			10/02/24 14:15	1
Oxidation Reduction Potential	-64.4				mV			10/02/24 14:15	1
Oxygen, Dissolved	0.22				mg/L			10/02/24 14:15	1
Field pH	6.78				SU			10/02/24 14:15	1
Field Conductivity	1239				umhos/cm			10/02/24 14:15	1
Field Temperature	16.1				Degrees C			10/02/24 14:15	1
Field Turbidity	7.97				NTU			10/02/24 14:15	1

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-304
Date Collected: 10/02/24 13:04
Date Received: 10/04/24 16:30

Lab Sample ID: 310-292111-5
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		5.0	2.3	mg/L			10/09/24 22:54	5
Fluoride	0.70	J	1.0	0.38	mg/L			10/09/24 22:54	5
Sulfate	220		5.0	2.1	mg/L			10/09/24 22:54	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		10/09/24 09:30	10/11/24 20:17	1
Arsenic	23		2.0	0.53	ug/L		10/09/24 09:30	10/11/24 20:17	1
Barium	120		2.0	0.66	ug/L		10/09/24 09:30	10/11/24 20:17	1
Beryllium	<0.33		1.0	0.33	ug/L		10/09/24 09:30	10/14/24 13:04	1
Boron	1100		100	76	ug/L		10/09/24 09:30	10/11/24 20:17	1
Cadmium	<0.10		0.20	0.10	ug/L		10/09/24 09:30	10/11/24 20:17	1
Calcium	150		0.50	0.19	mg/L		10/09/24 09:30	10/11/24 20:17	1
Chromium	<1.2		5.0	1.2	ug/L		10/09/24 09:30	10/11/24 20:17	1
Cobalt	0.94		0.50	0.17	ug/L		10/09/24 09:30	10/11/24 20:17	1
Iron	1700		100	36	ug/L		10/09/24 09:30	10/11/24 20:17	1
Lead	<0.26		0.50	0.26	ug/L		10/09/24 09:30	10/11/24 20:17	1
Lithium	22		10	2.5	ug/L		10/09/24 09:30	10/14/24 13:04	1
Molybdenum	26		2.0	1.3	ug/L		10/09/24 09:30	10/11/24 20:17	1
Selenium	<1.4		5.0	1.4	ug/L		10/09/24 09:30	10/11/24 20:17	1
Thallium	0.60	J	1.0	0.57	ug/L		10/09/24 09:30	10/14/24 13:04	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		10/12/24 10:55	10/14/24 11:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	750		50	42	mg/L			10/07/24 20:15	1
pH (SM 4500 H+ B)	7.0	HF	1.0	1.0	SU			10/04/24 17:53	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	0.168		0.102	0.103	1.00	0.128	pCi/L	10/09/24 08:05	10/31/24 07:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*69.6*		*30 - 110*	*10/09/24 08:05*	*10/31/24 07:54*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	0.558	U *	0.392	0.396	1.00	0.586	pCi/L	10/28/24 09:22	11/06/24 12:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*87.0*		*30 - 110*	*10/28/24 09:22*	*11/06/24 12:32*	*1*
Y Carrier	*76.6*		*30 - 110*	*10/28/24 09:22*	*11/06/24 12:32*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-304
Lab Sample ID: 310-292111-5
Date Collected: 10/02/24 13:04
Matrix: Water
Date Received: 10/04/24 16:30

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.54		0.635	0.647	5.00	0.855	pCi/L		11/12/24 07:40	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	701.76				ft			10/02/24 13:04	1
Oxidation Reduction Potential	-18.3				mV			10/02/24 13:04	1
Oxygen, Dissolved	0.22				mg/L			10/02/24 13:04	1
Field pH	6.68				SU			10/02/24 13:04	1
Field Conductivity	1353				umhos/cm			10/02/24 13:04	1
Field Temperature	16.1				Degrees C			10/02/24 13:04	1
Field Turbidity	6.37				NTU			10/02/24 13:04	1

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-305
Date Collected: 10/02/24 11:55
Date Received: 10/04/24 16:30

Lab Sample ID: 310-292111-6
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20**		5.0	2.3	mg/L			10/09/24 23:07	5
Fluoride	<0.38		1.0	0.38	mg/L			10/09/24 23:07	5
Sulfate	**270**		5.0	2.1	mg/L			10/09/24 23:07	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		10/09/24 09:30	10/11/24 20:19	1
Arsenic	**12**		2.0	0.53	ug/L		10/09/24 09:30	10/11/24 20:19	1
Barium	**140**		2.0	0.66	ug/L		10/09/24 09:30	10/11/24 20:19	1
Beryllium	<0.33		1.0	0.33	ug/L		10/09/24 09:30	10/14/24 13:06	1
Boron	**1200**		100	76	ug/L		10/09/24 09:30	10/11/24 20:19	1
Cadmium	<0.10		0.20	0.10	ug/L		10/09/24 09:30	10/11/24 20:19	1
Calcium	**150**		0.50	0.19	mg/L		10/09/24 09:30	10/11/24 20:19	1
Chromium	<1.2		5.0	1.2	ug/L		10/09/24 09:30	10/11/24 20:19	1
Cobalt	**0.60**		0.50	0.17	ug/L		10/09/24 09:30	10/11/24 20:19	1
Iron	**190**		100	36	ug/L		10/09/24 09:30	10/11/24 20:19	1
Lead	<0.26		0.50	0.26	ug/L		10/09/24 09:30	10/11/24 20:19	1
Lithium	**21**		10	2.5	ug/L		10/09/24 09:30	10/14/24 13:06	1
Molybdenum	**45**		2.0	1.3	ug/L		10/09/24 09:30	10/11/24 20:19	1
Selenium	<1.4		5.0	1.4	ug/L		10/09/24 09:30	10/11/24 20:19	1
Thallium	**0.60**	**J**	1.0	0.57	ug/L		10/09/24 09:30	10/14/24 13:06	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		10/12/24 10:55	10/14/24 11:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**780**		50	42	mg/L			10/07/24 20:15	1
pH (SM 4500 H+ B)	**7.2**	**HF**	1.0	1.0	SU			10/04/24 17:50	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	**0.196**		0.0917	0.0934	1.00	0.0934	pCi/L	10/09/24 08:05	10/31/24 07:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*83.5*		*30 - 110*	*10/09/24 08:05*	*10/31/24 07:54*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	**0.854**		0.447	0.453	1.00	0.620	pCi/L	10/09/24 08:10	10/24/24 11:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*83.5*		*30 - 110*	*10/09/24 08:10*	*10/24/24 11:45*	*1*
Y Carrier	*75.5*		*30 - 110*	*10/09/24 08:10*	*10/24/24 11:45*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-305
Lab Sample ID: 310-292111-6
Date Collected: 10/02/24 11:55
Matrix: Water
Date Received: 10/04/24 16:30

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.05		0.456	0.463	5.00	0.620	pCi/L		11/12/24 07:40	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	701.63				ft			10/02/24 11:55	1
Oxidation Reduction Potential	28.6				mV			10/02/24 11:55	1
Oxygen, Dissolved	0.24				mg/L			10/02/24 11:55	1
Field pH	6.79				SU			10/02/24 11:55	1
Field Conductivity	1434				umhos/cm			10/02/24 11:55	1
Field Temperature	16.5				Degrees C			10/02/24 11:55	1
Field Turbidity	6.55				NTU			10/02/24 11:55	1

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-306
Date Collected: 10/02/24 09:36
Date Received: 10/04/24 16:30

Lab Sample ID: 310-292111-7
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22		5.0	2.3	mg/L			10/09/24 23:20	5
Fluoride	<0.38		1.0	0.38	mg/L			10/09/24 23:20	5
Sulfate	150		5.0	2.1	mg/L			10/09/24 23:20	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		10/09/24 09:30	10/11/24 20:21	1
Arsenic	<0.53		2.0	0.53	ug/L		10/09/24 09:30	10/11/24 20:21	1
Barium	81		2.0	0.66	ug/L		10/09/24 09:30	10/11/24 20:21	1
Beryllium	<0.33		1.0	0.33	ug/L		10/09/24 09:30	10/14/24 13:08	1
Boron	1900		100	76	ug/L		10/09/24 09:30	10/11/24 20:21	1
Cadmium	<0.10		0.20	0.10	ug/L		10/09/24 09:30	10/11/24 20:21	1
Calcium	92		0.50	0.19	mg/L		10/09/24 09:30	10/11/24 20:21	1
Chromium	<1.2		5.0	1.2	ug/L		10/09/24 09:30	10/11/24 20:21	1
Cobalt	<0.17		0.50	0.17	ug/L		10/09/24 09:30	10/11/24 20:21	1
Iron	2900		100	36	ug/L		10/09/24 09:30	10/11/24 20:21	1
Lead	<0.26		0.50	0.26	ug/L		10/09/24 09:30	10/11/24 20:21	1
Lithium	2.7	J	10	2.5	ug/L		10/09/24 09:30	10/14/24 13:08	1
Molybdenum	120		2.0	1.3	ug/L		10/09/24 09:30	10/11/24 20:21	1
Selenium	<1.4		5.0	1.4	ug/L		10/09/24 09:30	10/11/24 20:21	1
Thallium	<0.57		1.0	0.57	ug/L		10/09/24 09:30	10/14/24 13:08	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		10/12/24 10:55	10/14/24 11:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	510		50	42	mg/L			10/07/24 20:15	1
pH (SM 4500 H+ B)	7.6	HF	1.0	1.0	SU			10/04/24 17:39	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	0.183		0.0971	0.0985	1.00	0.116	pCi/L	10/09/24 08:05	10/31/24 07:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*83.2*		*30 - 110*	*10/09/24 08:05*	*10/31/24 07:54*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	0.982		0.589	0.596	1.00	0.878	pCi/L	10/09/24 08:10	10/24/24 11:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*83.2*		*30 - 110*	*10/09/24 08:10*	*10/24/24 11:45*	*1*
Y Carrier	*68.0*		*30 - 110*	*10/09/24 08:10*	*10/24/24 11:45*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-306
Lab Sample ID: 310-292111-7
Date Collected: 10/02/24 09:36
Matrix: Water
Date Received: 10/04/24 16:30

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.17		0.597	0.604	5.00	0.878	pCi/L		11/12/24 07:40	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	701.99				ft			10/02/24 09:36	1
Oxidation Reduction Potential	-82.5				mV			10/02/24 09:36	1
Oxygen, Dissolved	1.46				mg/L			10/02/24 09:36	1
Field pH	7.28				SU			10/02/24 09:36	1
Field Conductivity	984				umhos/cm			10/02/24 09:36	1
Field Temperature	12.7				Degrees C			10/02/24 09:36	1
Field Turbidity	10.47				NTU			10/02/24 09:36	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-306A
Lab Sample ID: 310-292111-8
Date Collected: 10/02/24 10:47
Matrix: Water
Date Received: 10/04/24 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.53		2.0	0.53	ug/L		10/09/24 09:30	10/11/24 20:23	1
Lithium	**6.4**	**J**	10	2.5	ug/L		10/09/24 09:30	10/14/24 13:10	1
Molybdenum	**18**		2.0	1.3	ug/L		10/09/24 09:30	10/11/24 20:23	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	**702.22**				ft			10/02/24 10:47	1
Oxidation Reduction Potential	**-7.1**				mV			10/02/24 10:47	1
Oxygen, Dissolved	**3.13**				mg/L			10/02/24 10:47	1
Field pH	**7.12**				SU			10/02/24 10:47	1
Field Conductivity	**1427**				umhos/cm			10/02/24 10:47	1
Field Temperature	**14.3**				Degrees C			10/02/24 10:47	1
Field Turbidity	**8.89**				NTU			10/02/24 10:47	1

Client: SCS Engineers
Project/Site: Prairie Creek Generating Station 25224074

Job ID: 310-292111-1

Client Sample ID: MW-307

Date Collected: 10/01/24 16:04
Date Received: 10/04/24 16:30

Lab Sample ID: 310-292111-9

Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.3		5.0	2.3	mg/L			10/09/24 23:33	5
Fluoride	<0.38		1.0	0.38	mg/L			10/09/24 23:33	5
Sulfate	**45**		5.0	2.1	mg/L			10/09/24 23:33	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		10/09/24 09:30	10/11/24 20:28	1
Arsenic	**6.7**		2.0	0.53	ug/L		10/09/24 09:30	10/11/24 20:28	1
Barium	**59**		2.0	0.66	ug/L		10/09/24 09:30	10/11/24 20:28	1
Beryllium	<0.33		1.0	0.33	ug/L		10/09/24 09:30	10/14/24 13:14	1
Boron	**960**		100	76	ug/L		10/09/24 09:30	10/11/24 20:28	1
Cadmium	<0.10		0.20	0.10	ug/L		10/09/24 09:30	10/11/24 20:28	1
Calcium	**25**		0.50	0.19	mg/L		10/09/24 09:30	10/11/24 20:28	1
Chromium	<1.2		5.0	1.2	ug/L		10/09/24 09:30	10/11/24 20:28	1
Cobalt	<0.17		0.50	0.17	ug/L		10/09/24 09:30	10/11/24 20:28	1
Iron	<36		100	36	ug/L		10/09/24 09:30	10/11/24 20:28	1
Lead	<0.26		0.50	0.26	ug/L		10/09/24 09:30	10/11/24 20:28	1
Lithium	**14**		10	2.5	ug/L		10/09/24 09:30	10/14/24 13:14	1
Molybdenum	**8.2**		2.0	1.3	ug/L		10/09/24 09:30	10/11/24 20:28	1
Selenium	**4.5**	**J**	5.0	1.4	ug/L		10/09/24 09:30	10/11/24 20:28	1
Thallium	<0.57		1.0	0.57	ug/L		10/09/24 09:30	10/14/24 13:14	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		10/12/24 10:55	10/14/24 11:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**140**		50	42	mg/L			10/07/24 20:05	1
pH (SM 4500 H+ B)	**9.0**	**HF**	1.0	1.0	SU			10/04/24 17:33	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	0.0426	U	0.0719	0.0720	1.00	0.126	pCi/L	10/09/24 08:05	10/31/24 07:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*84.3*		*30 - 110*	*10/09/24 08:05*	*10/31/24 07:59*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	**0.986**		0.484	0.492	1.00	0.656	pCi/L	10/09/24 08:10	10/24/24 11:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*84.3*		*30 - 110*	*10/09/24 08:10*	*10/24/24 11:45*	*1*
Y Carrier	*67.3*		*30 - 110*	*10/09/24 08:10*	*10/24/24 11:45*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-307
Lab Sample ID: 310-292111-9
Date Collected: 10/01/24 16:04
Matrix: Water
Date Received: 10/04/24 16:30

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.03		0.489	0.497	5.00	0.656	pCi/L		11/12/24 07:40	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	705.64				ft			10/01/24 16:04	1
Oxidation Reduction Potential	71.5				mV			10/01/24 16:04	1
Oxygen, Dissolved	0.52				mg/L			10/01/24 16:04	1
Field pH	8.88				SU			10/01/24 16:04	1
Field Conductivity	239.2				umhos/cm			10/01/24 16:04	1
Field Temperature	21.4				Degrees C			10/01/24 16:04	1
Field Turbidity	5.77				NTU			10/01/24 16:04	1

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-308
Lab Sample ID: 310-292111-10
Date Collected: 10/01/24 17:26
Matrix: Water
Date Received: 10/04/24 16:30

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.0**		5.0	2.3	mg/L			10/09/24 23:46	5
Fluoride	<0.38		1.0	0.38	mg/L			10/09/24 23:46	5
Sulfate	**260**		5.0	2.1	mg/L			10/09/24 23:46	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		10/09/24 09:30	10/11/24 20:38	1
Arsenic	**44**		10	2.7	ug/L		10/09/24 09:30	10/18/24 13:01	5
Barium	**72**		2.0	0.66	ug/L		10/09/24 09:30	10/11/24 20:38	1
Beryllium	<0.33		1.0	0.33	ug/L		10/09/24 09:30	10/14/24 13:17	1
Boron	**6500**		500	380	ug/L		10/09/24 09:30	10/18/24 13:01	5
Cadmium	<0.10		0.20	0.10	ug/L		10/09/24 09:30	10/11/24 20:38	1
Calcium	**110**		0.50	0.19	mg/L		10/09/24 09:30	10/11/24 20:38	1
Chromium	<6.0		25	6.0	ug/L		10/09/24 09:30	10/18/24 13:01	5
Cobalt	<0.17		0.50	0.17	ug/L		10/09/24 09:30	10/16/24 12:48	1
Iron	<36		100	36	ug/L		10/09/24 09:30	10/11/24 20:38	1
Lead	<0.26		0.50	0.26	ug/L		10/09/24 09:30	10/11/24 20:38	1
Lithium	**59**		10	2.5	ug/L		10/09/24 09:30	10/14/24 13:17	1
Molybdenum	**76**		2.0	1.3	ug/L		10/09/24 09:30	10/11/24 20:38	1
Selenium	<1.4		5.0	1.4	ug/L		10/09/24 09:30	10/16/24 12:48	1
Thallium	<0.57		1.0	0.57	ug/L		10/09/24 09:30	10/14/24 13:17	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		10/12/24 10:55	10/14/24 11:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**550**		50	42	mg/L			10/07/24 20:05	1
pH (SM 4500 H+ B)	**9.0**	**HF**	1.0	1.0	SU			10/08/24 09:59	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	0.0677	U	0.0962	0.0964	1.00	0.163	pCi/L	10/09/24 08:05	10/31/24 07:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*67.5*		*30 - 110*	*10/09/24 08:05*	*10/31/24 07:59*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	0.344	U G	0.620	0.620	1.00	1.06	pCi/L	10/09/24 08:10	10/24/24 11:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*67.5*		*30 - 110*	*10/09/24 08:10*	*10/24/24 11:45*	*1*
Y Carrier	*72.9*		*30 - 110*	*10/09/24 08:10*	*10/24/24 11:45*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-308
Lab Sample ID: 310-292111-10
Date Collected: 10/01/24 17:26
Matrix: Water
Date Received: 10/04/24 16:30

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.412	U	0.627	0.627	5.00	1.06	pCi/L		11/12/24 07:40	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	703.06				ft			10/01/24 17:26	1
Oxidation Reduction Potential	-138.8				mV			10/01/24 17:26	1
Oxygen, Dissolved	0.26				mg/L			10/01/24 17:26	1
Field pH	8.85				SU			10/01/24 17:26	1
Field Conductivity	902				umhos/cm			10/01/24 17:26	1
Field Temperature	15.9				Degrees C			10/01/24 17:26	1
Field Turbidity	7.96				NTU			10/01/24 17:26	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-309
Lab Sample ID: 310-292111-11
Date Collected: 10/02/24 16:49
Matrix: Water
Date Received: 10/04/24 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	27		2.0	0.53	ug/L		10/09/24 09:30	10/11/24 20:41	1
Lithium	19		10	2.5	ug/L		10/09/24 09:30	10/14/24 13:19	1
Molybdenum	19		2.0	1.3	ug/L		10/09/24 09:30	10/11/24 20:41	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	701.76				ft			10/02/24 16:49	1
Oxidation Reduction Potential	-95.9				mV			10/02/24 16:49	1
Oxygen, Dissolved	0.31				mg/L			10/02/24 16:49	1
Field pH	7.14				SU			10/02/24 16:49	1
Field Conductivity	1240				umhos/cm			10/02/24 16:49	1
Field Temperature	19.7				Degrees C			10/02/24 16:49	1
Field Turbidity	7.10				NTU			10/02/24 16:49	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-309A
Lab Sample ID: 310-292111-12
Date Collected: 10/02/24 17:36
Matrix: Water
Date Received: 10/04/24 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.88	J	2.0	0.53	ug/L		10/09/24 09:30	10/11/24 20:43	1
Lithium	6.6	J	10	2.5	ug/L		10/09/24 09:30	10/14/24 13:21	1
Molybdenum	7.5		2.0	1.3	ug/L		10/09/24 09:30	10/11/24 20:43	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	702.00				ft			10/02/24 17:36	1
Oxidation Reduction Potential	-78.3				mV			10/02/24 17:36	1
Oxygen, Dissolved	1.94				mg/L			10/02/24 17:36	1
Field pH	7.01				SU			10/02/24 17:36	1
Field Conductivity	1046				umhos/cm			10/02/24 17:36	1
Field Temperature	17.0				Degrees C			10/02/24 17:36	1
Field Turbidity	9.06				NTU			10/02/24 17:36	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-310
Lab Sample ID: 310-292111-13
Date Collected: 10/03/24 10:18
Matrix: Water
Date Received: 10/04/24 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	25		2.0	0.53	ug/L		10/09/24 09:30	10/11/24 20:45	1
Lithium	19		10	2.5	ug/L		10/09/24 09:30	10/14/24 13:32	1
Molybdenum	41		2.0	1.3	ug/L		10/09/24 09:30	10/11/24 20:45	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	701.50				ft			10/03/24 10:18	1
Oxidation Reduction Potential	-48.3				mV			10/03/24 10:18	1
Oxygen, Dissolved	0.25				mg/L			10/03/24 10:18	1
Field pH	7.03				SU			10/03/24 10:18	1
Field Conductivity	1480				umhos/cm			10/03/24 10:18	1
Field Temperature	17.6				Degrees C			10/03/24 10:18	1
Field Turbidity	8.05				NTU			10/03/24 10:18	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-310A
Lab Sample ID: 310-292111-14
Date Collected: 10/03/24 11:07
Matrix: Water
Date Received: 10/04/24 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.53		2.0	0.53	ug/L		10/09/24 09:30	10/11/24 20:47	1
Lithium	**4.4**	**J**	10	2.5	ug/L		10/09/24 09:30	10/14/24 13:34	1
Molybdenum	**14**		2.0	1.3	ug/L		10/09/24 09:30	10/11/24 20:47	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	**701.74**				ft			10/03/24 11:07	1
Oxidation Reduction Potential	**-52.2**				mV			10/03/24 11:07	1
Oxygen, Dissolved	**0.27**				mg/L			10/03/24 11:07	1
Field pH	**7.20**				SU			10/03/24 11:07	1
Field Conductivity	**1316**				umhos/cm			10/03/24 11:07	1
Field Temperature	**15.5**				Degrees C			10/03/24 11:07	1
Field Turbidity	**6.39**				NTU			10/03/24 11:07	1

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-312
Lab Sample ID: 310-292111-15
Date Collected: 10/02/24 15:23
Matrix: Water
Date Received: 10/04/24 16:30

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**67**		5.0	2.3	mg/L			10/09/24 23:58	5
Fluoride	<0.38		1.0	0.38	mg/L			10/09/24 23:58	5
Sulfate	**18**		5.0	2.1	mg/L			10/09/24 23:58	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		10/09/24 09:30	10/11/24 20:49	1
Arsenic	**5.8**		2.0	0.53	ug/L		10/09/24 09:30	10/11/24 20:49	1
Barium	**140**		2.0	0.66	ug/L		10/09/24 09:30	10/11/24 20:49	1
Beryllium	<0.33		1.0	0.33	ug/L		10/09/24 09:30	10/14/24 13:36	1
Boron	**310**		100	76	ug/L		10/09/24 09:30	10/11/24 20:49	1
Cadmium	<0.10		0.20	0.10	ug/L		10/09/24 09:30	10/11/24 20:49	1
Calcium	**95**		0.50	0.19	mg/L		10/09/24 09:30	10/11/24 20:49	1
Chromium	<1.2		5.0	1.2	ug/L		10/09/24 09:30	10/11/24 20:49	1
Cobalt	<0.17		0.50	0.17	ug/L		10/09/24 09:30	10/11/24 20:49	1
Iron	**6900**		100	36	ug/L		10/09/24 09:30	10/11/24 20:49	1
Lead	<0.26		0.50	0.26	ug/L		10/09/24 09:30	10/11/24 20:49	1
Lithium	**6.3**	**J**	10	2.5	ug/L		10/09/24 09:30	10/14/24 13:36	1
Molybdenum	**5.3**		2.0	1.3	ug/L		10/09/24 09:30	10/11/24 20:49	1
Selenium	<1.4		5.0	1.4	ug/L		10/09/24 09:30	10/11/24 20:49	1
Thallium	**0.64**	**J**	1.0	0.57	ug/L		10/09/24 09:30	10/14/24 13:36	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		10/12/24 10:55	10/14/24 11:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**430**		50	42	mg/L			10/07/24 20:15	1
pH (SM 4500 H+ B)	**6.9**	**HF**	1.0	1.0	SU			10/04/24 17:38	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	**0.181**		0.119	0.121	1.00	0.170	pCi/L	10/09/24 08:05	10/31/24 07:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*78.4*		*30 - 110*	*10/09/24 08:05*	*10/31/24 07:59*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	0.855	U	0.568	0.573	1.00	0.856	pCi/L	10/09/24 08:10	10/24/24 11:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*78.4*		*30 - 110*	*10/09/24 08:10*	*10/24/24 11:44*	*1*
Y Carrier	*64.7*		*30 - 110*	*10/09/24 08:10*	*10/24/24 11:44*	*1*

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-312
Lab Sample ID: 310-292111-15
Date Collected: 10/02/24 15:23
Matrix: Water
Date Received: 10/04/24 16:30

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.04		0.580	0.586	5.00	0.856	pCi/L		11/12/24 07:40	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	702.48				ft			10/02/24 15:23	1
Oxidation Reduction Potential	-60.9				mV			10/02/24 15:23	1
Oxygen, Dissolved	0.99				mg/L			10/02/24 15:23	1
Field pH	6.66				SU			10/02/24 15:23	1
Field Conductivity	937				umhos/cm			10/02/24 15:23	1
Field Temperature	25.4				Degrees C			10/02/24 15:23	1
Field Turbidity	8.08				NTU			10/02/24 15:23	1

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: Field Blank
Lab Sample ID: 310-292111-16
Date Collected: 10/02/24 17:50
Matrix: Water
Date Received: 10/04/24 16:30

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.45		1.0	0.45	mg/L			10/10/24 20:21	1
Fluoride	<0.075		0.20	0.075	mg/L			10/10/24 20:21	1
Sulfate	<0.42		1.0	0.42	mg/L			10/10/24 20:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		10/09/24 09:30	10/11/24 20:51	1
Arsenic	<0.53		2.0	0.53	ug/L		10/09/24 09:30	10/11/24 20:51	1
Barium	<0.66		2.0	0.66	ug/L		10/09/24 09:30	10/11/24 20:51	1
Beryllium	<0.33		1.0	0.33	ug/L		10/09/24 09:30	10/14/24 13:38	1
Boron	<76		100	76	ug/L		10/09/24 09:30	10/11/24 20:51	1
Cadmium	<0.10		0.20	0.10	ug/L		10/09/24 09:30	10/11/24 20:51	1
Calcium	<0.19		0.50	0.19	mg/L		10/09/24 09:30	10/11/24 20:51	1
Chromium	<1.2		5.0	1.2	ug/L		10/09/24 09:30	10/11/24 20:51	1
Cobalt	<0.17		0.50	0.17	ug/L		10/09/24 09:30	10/11/24 20:51	1
Iron	<36		100	36	ug/L		10/09/24 09:30	10/11/24 20:51	1
Lead	<0.26		0.50	0.26	ug/L		10/09/24 09:30	10/11/24 20:51	1
Lithium	<2.5		10	2.5	ug/L		10/09/24 09:30	10/14/24 13:38	1
Molybdenum	<1.3		2.0	1.3	ug/L		10/09/24 09:30	10/11/24 20:51	1
Selenium	<1.4		5.0	1.4	ug/L		10/09/24 09:30	10/11/24 20:51	1
Thallium	<0.57		1.0	0.57	ug/L		10/09/24 09:30	10/14/24 13:38	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		10/12/24 10:55	10/14/24 11:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	<42		50	42	mg/L			10/07/24 20:15	1
pH (SM 4500 H+ B)	**5.7**	**HF**	1.0	1.0	SU			10/04/24 17:54	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	-0.0131	U	0.0735	0.0735	1.00	0.154	pCi/L	10/09/24 08:05	10/31/24 07:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*78.4*		*30 - 110*	*10/09/24 08:05*	*10/31/24 07:59*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	0.713	U	0.486	0.490	1.00	0.731	pCi/L	10/09/24 08:10	10/24/24 11:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*78.4*		*30 - 110*	*10/09/24 08:10*	*10/24/24 11:44*	*1*
Y Carrier	*71.8*		*30 - 110*	*10/09/24 08:10*	*10/24/24 11:44*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: Field Blank
Lab Sample ID: 310-292111-16
Date Collected: 10/02/24 17:50
Matrix: Water
Date Received: 10/04/24 16:30

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.713	U	0.492	0.495	5.00	0.731	pCi/L		11/12/24 07:40	1

Definitions/Glossary

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Qualifiers

HPLC/IC

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.
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
F3	Duplicate RPD exceeds the control limit
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
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Rad

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-435976/3
Matrix: Water
Analysis Batch: 435976

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.45		1.0	0.45	mg/L			10/09/24 18:17	1
Fluoride	<0.075		0.20	0.075	mg/L			10/09/24 18:17	1
Sulfate	<0.42		1.0	0.42	mg/L			10/09/24 18:17	1

Lab Sample ID: LCS 310-435976/4
Matrix: Water
Analysis Batch: 435976

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.0		mg/L		100	90 - 110
Fluoride	2.00	2.12		mg/L		106	90 - 110
Sulfate	10.0	10.3		mg/L		103	90 - 110

Lab Sample ID: 310-292111-1 MS
Matrix: Water
Analysis Batch: 435976

Client Sample ID: MW-301
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	110		25.0	135	4	mg/L		100	80 - 120
Fluoride	<0.38		5.00	5.41		mg/L		108	80 - 120
Sulfate	96		25.0	121		mg/L		101	80 - 120

Lab Sample ID: 310-292111-1 MSD
Matrix: Water
Analysis Batch: 435976

Client Sample ID: MW-301
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	110		25.0	136	4	mg/L		105	80 - 120	1	15
Fluoride	<0.38		5.00	5.57		mg/L		111	80 - 120	3	15
Sulfate	96		25.0	122		mg/L		105	80 - 120	1	15

Lab Sample ID: MB 310-435999/3
Matrix: Water
Analysis Batch: 435999

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.45		1.0	0.45	mg/L			10/10/24 17:29	1
Fluoride	<0.075		0.20	0.075	mg/L			10/10/24 17:29	1
Sulfate	<0.42		1.0	0.42	mg/L			10/10/24 17:29	1

Lab Sample ID: LCS 310-435999/4
Matrix: Water
Analysis Batch: 435999

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	9.89		mg/L		99	90 - 110
Fluoride	2.00	2.05		mg/L		102	90 - 110
Sulfate	10.0	10.5		mg/L		105	90 - 110

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 310-292111-16 MS
Matrix: Water
Analysis Batch: 435999

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<0.45		5.00	5.06		mg/L		101	80 - 120
Fluoride	<0.075		1.00	1.06		mg/L		106	80 - 120
Sulfate	<0.42		5.00	5.78		mg/L		116	80 - 120

Lab Sample ID: 310-292111-16 MSD
Matrix: Water
Analysis Batch: 435999

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<0.45		5.00	4.99		mg/L		100	80 - 120	1	15
Fluoride	<0.075		1.00	1.06		mg/L		106	80 - 120	0	15
Sulfate	<0.42		5.00	6.02		mg/L		120	80 - 120	4	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-435581/1-A
Matrix: Water
Analysis Batch: 436085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 435581

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		10/09/24 09:30	10/11/24 19:40	1
Arsenic	<0.53		2.0	0.53	ug/L		10/09/24 09:30	10/11/24 19:40	1
Barium	<0.66		2.0	0.66	ug/L		10/09/24 09:30	10/11/24 19:40	1
Cadmium	<0.10		0.20	0.10	ug/L		10/09/24 09:30	10/11/24 19:40	1
Chromium	<1.2		5.0	1.2	ug/L		10/09/24 09:30	10/11/24 19:40	1
Cobalt	<0.17		0.50	0.17	ug/L		10/09/24 09:30	10/11/24 19:40	1
Lead	<0.26		0.50	0.26	ug/L		10/09/24 09:30	10/11/24 19:40	1
Selenium	<1.4		5.0	1.4	ug/L		10/09/24 09:30	10/11/24 19:40	1

Lab Sample ID: MB 310-435581/1-A
Matrix: Water
Analysis Batch: 436234

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 435581

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.33		1.0	0.33	ug/L		10/09/24 09:30	10/14/24 12:31	1
Boron	<76		100	76	ug/L		10/09/24 09:30	10/14/24 12:31	1
Calcium	<0.19		0.50	0.19	mg/L		10/09/24 09:30	10/14/24 12:31	1
Iron	<36		100	36	ug/L		10/09/24 09:30	10/14/24 12:31	1
Lithium	<2.5		10	2.5	ug/L		10/09/24 09:30	10/14/24 12:31	1
Molybdenum	<1.3		2.0	1.3	ug/L		10/09/24 09:30	10/14/24 12:31	1
Thallium	<0.57		1.0	0.57	ug/L		10/09/24 09:30	10/14/24 12:31	1

Lab Sample ID: LCS 310-435581/2-A
Matrix: Water
Analysis Batch: 436085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 435581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	200	225		ug/L		112	80 - 120
Barium	100	109		ug/L		109	80 - 120
Boron	200	218		ug/L		109	80 - 120

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

Lab Sample ID: LCS 310-435581/2-A
Matrix: Water
Analysis Batch: 436085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 435581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	2.00	1.87		mg/L		94	80 - 120
Chromium	100	120		ug/L		120	80 - 120
Iron	200	235		ug/L		117	80 - 120
Molybdenum	200	222		ug/L		111	80 - 120
Selenium	400	424		ug/L		106	80 - 120

Lab Sample ID: LCS 310-435581/2-A
Matrix: Water
Analysis Batch: 436234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 435581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	200	239		ug/L		119	80 - 120
Beryllium	100	108		ug/L		108	80 - 120
Cadmium	100	109		ug/L		109	80 - 120
Lead	200	226		ug/L		113	80 - 120
Lithium	200	224		ug/L		112	80 - 120
Thallium	100	84.6		ug/L		85	80 - 120

Lab Sample ID: LCS 310-435581/2-A
Matrix: Water
Analysis Batch: 436382

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 435581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	100	112		ug/L		112	80 - 120

Lab Sample ID: 310-292111-8 DU
Matrix: Water
Analysis Batch: 436085

Client Sample ID: MW-306A
Prep Type: Total/NA
Prep Batch: 435581

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<1.0		<1.0		ug/L		NC	20
Arsenic	<0.53		<0.53		ug/L		NC	20
Barium	110		112		ug/L		0.1	20
Boron	2100		2130		ug/L		1	20
Cadmium	<0.10		<0.10		ug/L		NC	20
Calcium	150000		148	F3	mg/L		200	20
Chromium	<1.2		<1.2		ug/L		NC	20
Cobalt	<0.17		<0.17		ug/L		NC	20
Iron	1900		1920		ug/L		2	20
Lead	<0.26		<0.26		ug/L		NC	20
Molybdenum	18		18.5		ug/L		1	20
Selenium	<1.4		<1.4		ug/L		NC	20

Lab Sample ID: 310-292111-8 DU
Matrix: Water
Analysis Batch: 436234

Client Sample ID: MW-306A
Prep Type: Total/NA
Prep Batch: 435581

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	<0.33		<0.33		ug/L		NC	20
Cobalt	<0.17		<0.17		ug/L		NC	20

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

Lab Sample ID: 310-292111-8 DU
Matrix: Water
Analysis Batch: 436234

Client Sample ID: MW-306A
Prep Type: Total/NA
Prep Batch: 435581

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	6.4	J	6.11	J	ug/L		4	20
Thallium	1.2		<0.57		ug/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-436039/1-A
Matrix: Water
Analysis Batch: 436171

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 436039

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		10/12/24 10:55	10/14/24 10:35	1

Lab Sample ID: LCS 310-436039/2-A
Matrix: Water
Analysis Batch: 436171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 436039

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.67	1.74		ug/L		104	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 310-435463/1
Matrix: Water
Analysis Batch: 435463

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<42		50	42	mg/L			10/07/24 20:05	1

Lab Sample ID: LCS 310-435463/2
Matrix: Water
Analysis Batch: 435463

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1050		mg/L		105	88 - 110

Lab Sample ID: MB 310-435464/1
Matrix: Water
Analysis Batch: 435464

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<42		50	42	mg/L			10/07/24 20:15	1

Lab Sample ID: LCS 310-435464/2
Matrix: Water
Analysis Batch: 435464

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1050		mg/L		105	88 - 110

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MB 310-435588/1
Matrix: Water
Analysis Batch: 435588

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<42		50	42	mg/L			10/08/24 16:50	1

Lab Sample ID: LCS 310-435588/2
Matrix: Water
Analysis Batch: 435588

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1030		mg/L		103	88 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 310-435322/1
Matrix: Water
Analysis Batch: 435322

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		100	98 - 102

Lab Sample ID: LCS 310-435322/28
Matrix: Water
Analysis Batch: 435322

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.1		SU		101	98 - 102

Lab Sample ID: 310-292111-9 DU
Matrix: Water
Analysis Batch: 435322

Client Sample ID: MW-307
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	9.0	HF	9.1		SU		0.1	20

Lab Sample ID: LCS 310-435525/1
Matrix: Water
Analysis Batch: 435525

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		100	98 - 102

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-682843/1-A
Matrix: Water
Analysis Batch: 686039

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 682843

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	0.01167	U	0.0621	0.0621	1.00	0.123	pCi/L	10/09/24 08:05	10/31/24 07:52	1

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-682843/1-A
Matrix: Water
Analysis Batch: 686039

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 682843

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Barium	79.9		30 - 110	10/09/24 08:05	10/31/24 07:52	1

Lab Sample ID: LCS 160-682843/2-A
Matrix: Water
Analysis Batch: 686039

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 682843

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium 226			9.58	9.481		1.03	1.00	0.173	pCi/L	99	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Barium	82.0		30 - 110

Lab Sample ID: 310-292111-1 DU
Matrix: Water
Analysis Batch: 686039

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 682843

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium 226	0.245			0.2183		0.0978	1.00	0.0939	pCi/L			0.12	1

Carrier	DU %Yield	DU Qualifier	Limits
Barium	82.7		30 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-682844/1-A
Matrix: Water
Analysis Batch: 684899

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 682844

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	1.168		0.515	0.526	1.00	0.688	pCi/L	10/09/24 08:10	10/24/24 11:44	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Barium	79.9		30 - 110	10/09/24 08:10	10/24/24 11:44	1
Y Carrier	74.4		30 - 110	10/09/24 08:10	10/24/24 11:44	1

Lab Sample ID: LCS 160-682844/2-A
Matrix: Water
Analysis Batch: 684900

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 682844

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium 228			8.40	9.365		1.70	1.00	1.09	pCi/L	111	75 - 125		

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-682844/2-A
Matrix: Water
Analysis Batch: 684900

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 682844

Carrier	LCS %Yield	LCS Qualifier	Limits
Barium	82.0		30 - 110
Y Carrier	75.5		30 - 110

Lab Sample ID: MB 160-685414/1-A
Matrix: Water
Analysis Batch: 687133

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685414

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	0.4201	U	0.357	0.359	1.00	0.558	pCi/L	10/28/24 09:10	11/06/24 12:10	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Barium	86.1		30 - 110	10/28/24 09:10	11/06/24 12:10	1
Y Carrier	83.4		30 - 110	10/28/24 09:10	11/06/24 12:10	1

Lab Sample ID: LCS 160-685414/2-A
Matrix: Water
Analysis Batch: 687133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685414

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium 228			8.37	11.14		1.50	1.00	0.645	pCi/L	133	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Barium	85.6		30 - 110
Y Carrier	83.0		30 - 110

Lab Sample ID: LCSD 160-685414/3-A
Matrix: Water
Analysis Batch: 687133

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 685414

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium 228			8.37	9.372		1.25	1.00	0.486	pCi/L	112	75 - 125	0.64	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Barium	94.1		30 - 110
Y Carrier	89.3		30 - 110

Lab Sample ID: MB 160-685415/1-A
Matrix: Water
Analysis Batch: 687156

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685415

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	0.2662	U	0.336	0.337	1.00	0.558	pCi/L	10/28/24 09:22	11/06/24 12:32	1

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-685415/1-A
Matrix: Water
Analysis Batch: 687156

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685415

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Barium	90.5		30 - 110	10/28/24 09:22	11/06/24 12:32	1
Y Carrier	79.3		30 - 110	10/28/24 09:22	11/06/24 12:32	1

Lab Sample ID: LCS 160-685415/2-A
Matrix: Water
Analysis Batch: 687156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685415

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium 228			8.37	9.743		1.34	1.00	0.588	pCi/L	116	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Barium	99.0		30 - 110
Y Carrier	79.6		30 - 110

Lab Sample ID: LCSD 160-685415/3-A
Matrix: Water
Analysis Batch: 687156

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 685415

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium 228			8.37	11.88	*	1.59	1.00	0.593	pCi/L	142	75 - 125	0.73	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Barium	87.0		30 - 110
Y Carrier	77.8		30 - 110

Lab Sample ID: MB 160-686138/1-A
Matrix: Water
Analysis Batch: 687504

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686138

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	0.3863	U	0.363	0.365	1.00	0.578	pCi/L	10/31/24 08:12	11/08/24 11:56	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Barium	85.1		30 - 110	10/31/24 08:12	11/08/24 11:56	1
Y Carrier	80.4		30 - 110	10/31/24 08:12	11/08/24 11:56	1

Lab Sample ID: LCS 160-686138/2-A
Matrix: Water
Analysis Batch: 687504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686138

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium 228			8.36	10.09		1.75	1.00	1.13	pCi/L	121	75 - 125		

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-686138/2-A
Matrix: Water
Analysis Batch: 687504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686138

Carrier	LCS %Yield	LCS Qualifier	Limits
Barium	84.1		30 - 110
Y Carrier	78.9		30 - 110

Lab Sample ID: LCSD 160-686138/3-A
Matrix: Water
Analysis Batch: 687504

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 686138

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium 228			8.36	15.22	*	2.21	1.00	1.02	pCi/L	182	75 - 125	1.30	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Barium	88.5		30 - 110
Y Carrier	78.9		30 - 110

QC Association Summary

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

HPLC/IC

Analysis Batch: 435976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292111-1	MW-301	Total/NA	Water	9056A	
310-292111-2	MW-301A	Total/NA	Water	9056A	
310-292111-3	MW-302	Total/NA	Water	9056A	
310-292111-4	MW-303	Total/NA	Water	9056A	
310-292111-5	MW-304	Total/NA	Water	9056A	
310-292111-6	MW-305	Total/NA	Water	9056A	
310-292111-7	MW-306	Total/NA	Water	9056A	
310-292111-9	MW-307	Total/NA	Water	9056A	
310-292111-10	MW-308	Total/NA	Water	9056A	
310-292111-15	MW-312	Total/NA	Water	9056A	
MB 310-435976/3	Method Blank	Total/NA	Water	9056A	
LCS 310-435976/4	Lab Control Sample	Total/NA	Water	9056A	
310-292111-1 MS	MW-301	Total/NA	Water	9056A	
310-292111-1 MSD	MW-301	Total/NA	Water	9056A	

Analysis Batch: 435999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292111-16	Field Blank	Total/NA	Water	9056A	
MB 310-435999/3	Method Blank	Total/NA	Water	9056A	
LCS 310-435999/4	Lab Control Sample	Total/NA	Water	9056A	
310-292111-16 MS	Field Blank	Total/NA	Water	9056A	
310-292111-16 MSD	Field Blank	Total/NA	Water	9056A	

Metals

Prep Batch: 435581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292111-1	MW-301	Total/NA	Water	3005A	
310-292111-2	MW-301A	Total/NA	Water	3005A	
310-292111-3	MW-302	Total/NA	Water	3005A	
310-292111-4	MW-303	Total/NA	Water	3005A	
310-292111-5	MW-304	Total/NA	Water	3005A	
310-292111-6	MW-305	Total/NA	Water	3005A	
310-292111-7	MW-306	Total/NA	Water	3005A	
310-292111-8	MW-306A	Total/NA	Water	3005A	
310-292111-9	MW-307	Total/NA	Water	3005A	
310-292111-10	MW-308	Total/NA	Water	3005A	
310-292111-11	MW-309	Total/NA	Water	3005A	
310-292111-12	MW-309A	Total/NA	Water	3005A	
310-292111-13	MW-310	Total/NA	Water	3005A	
310-292111-14	MW-310A	Total/NA	Water	3005A	
310-292111-15	MW-312	Total/NA	Water	3005A	
310-292111-16	Field Blank	Total/NA	Water	3005A	
MB 310-435581/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-435581/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-292111-8 DU	MW-306A	Total/NA	Water	3005A	

Prep Batch: 436039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292111-1	MW-301	Total/NA	Water	7470A	
310-292111-2	MW-301A	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 436039 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292111-3	MW-302	Total/NA	Water	7470A	
310-292111-4	MW-303	Total/NA	Water	7470A	
310-292111-5	MW-304	Total/NA	Water	7470A	
310-292111-6	MW-305	Total/NA	Water	7470A	
310-292111-7	MW-306	Total/NA	Water	7470A	
310-292111-9	MW-307	Total/NA	Water	7470A	
310-292111-10	MW-308	Total/NA	Water	7470A	
310-292111-15	MW-312	Total/NA	Water	7470A	
310-292111-16	Field Blank	Total/NA	Water	7470A	
MB 310-436039/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-436039/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 436085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292111-1	MW-301	Total/NA	Water	6020B	435581
310-292111-2	MW-301A	Total/NA	Water	6020B	435581
310-292111-3	MW-302	Total/NA	Water	6020B	435581
310-292111-4	MW-303	Total/NA	Water	6020B	435581
310-292111-5	MW-304	Total/NA	Water	6020B	435581
310-292111-6	MW-305	Total/NA	Water	6020B	435581
310-292111-7	MW-306	Total/NA	Water	6020B	435581
310-292111-8	MW-306A	Total/NA	Water	6020B	435581
310-292111-9	MW-307	Total/NA	Water	6020B	435581
310-292111-10	MW-308	Total/NA	Water	6020B	435581
310-292111-11	MW-309	Total/NA	Water	6020B	435581
310-292111-12	MW-309A	Total/NA	Water	6020B	435581
310-292111-13	MW-310	Total/NA	Water	6020B	435581
310-292111-14	MW-310A	Total/NA	Water	6020B	435581
310-292111-15	MW-312	Total/NA	Water	6020B	435581
310-292111-16	Field Blank	Total/NA	Water	6020B	435581
MB 310-435581/1-A	Method Blank	Total/NA	Water	6020B	435581
LCS 310-435581/2-A	Lab Control Sample	Total/NA	Water	6020B	435581
310-292111-8 DU	MW-306A	Total/NA	Water	6020B	435581

Analysis Batch: 436171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292111-1	MW-301	Total/NA	Water	7470A	436039
310-292111-2	MW-301A	Total/NA	Water	7470A	436039
310-292111-3	MW-302	Total/NA	Water	7470A	436039
310-292111-4	MW-303	Total/NA	Water	7470A	436039
310-292111-5	MW-304	Total/NA	Water	7470A	436039
310-292111-6	MW-305	Total/NA	Water	7470A	436039
310-292111-7	MW-306	Total/NA	Water	7470A	436039
310-292111-9	MW-307	Total/NA	Water	7470A	436039
310-292111-10	MW-308	Total/NA	Water	7470A	436039
310-292111-15	MW-312	Total/NA	Water	7470A	436039
310-292111-16	Field Blank	Total/NA	Water	7470A	436039
MB 310-436039/1-A	Method Blank	Total/NA	Water	7470A	436039
LCS 310-436039/2-A	Lab Control Sample	Total/NA	Water	7470A	436039

QC Association Summary

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Metals

Analysis Batch: 436234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292111-1	MW-301	Total/NA	Water	6020B	435581
310-292111-2	MW-301A	Total/NA	Water	6020B	435581
310-292111-3	MW-302	Total/NA	Water	6020B	435581
310-292111-4	MW-303	Total/NA	Water	6020B	435581
310-292111-5	MW-304	Total/NA	Water	6020B	435581
310-292111-6	MW-305	Total/NA	Water	6020B	435581
310-292111-7	MW-306	Total/NA	Water	6020B	435581
310-292111-8	MW-306A	Total/NA	Water	6020B	435581
310-292111-9	MW-307	Total/NA	Water	6020B	435581
310-292111-10	MW-308	Total/NA	Water	6020B	435581
310-292111-11	MW-309	Total/NA	Water	6020B	435581
310-292111-12	MW-309A	Total/NA	Water	6020B	435581
310-292111-13	MW-310	Total/NA	Water	6020B	435581
310-292111-14	MW-310A	Total/NA	Water	6020B	435581
310-292111-15	MW-312	Total/NA	Water	6020B	435581
310-292111-16	Field Blank	Total/NA	Water	6020B	435581
MB 310-435581/1-A	Method Blank	Total/NA	Water	6020B	435581
LCS 310-435581/2-A	Lab Control Sample	Total/NA	Water	6020B	435581
310-292111-8 DU	MW-306A	Total/NA	Water	6020B	435581

Analysis Batch: 436382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-435581/2-A	Lab Control Sample	Total/NA	Water	6020B	435581

Analysis Batch: 436543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292111-10	MW-308	Total/NA	Water	6020B	435581

Analysis Batch: 436802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292111-10	MW-308	Total/NA	Water	6020B	435581

General Chemistry

Analysis Batch: 435322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292111-1	MW-301	Total/NA	Water	SM 4500 H+ B	
310-292111-2	MW-301A	Total/NA	Water	SM 4500 H+ B	
310-292111-3	MW-302	Total/NA	Water	SM 4500 H+ B	
310-292111-4	MW-303	Total/NA	Water	SM 4500 H+ B	
310-292111-5	MW-304	Total/NA	Water	SM 4500 H+ B	
310-292111-6	MW-305	Total/NA	Water	SM 4500 H+ B	
310-292111-7	MW-306	Total/NA	Water	SM 4500 H+ B	
310-292111-9	MW-307	Total/NA	Water	SM 4500 H+ B	
310-292111-15	MW-312	Total/NA	Water	SM 4500 H+ B	
310-292111-16	Field Blank	Total/NA	Water	SM 4500 H+ B	
LCS 310-435322/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCS 310-435322/28	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
310-292111-9 DU	MW-307	Total/NA	Water	SM 4500 H+ B	

QC Association Summary

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

General Chemistry

Analysis Batch: 435463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292111-1	MW-301	Total/NA	Water	SM 2540C	
310-292111-3	MW-302	Total/NA	Water	SM 2540C	
310-292111-9	MW-307	Total/NA	Water	SM 2540C	
310-292111-10	MW-308	Total/NA	Water	SM 2540C	
MB 310-435463/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-435463/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 435464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292111-4	MW-303	Total/NA	Water	SM 2540C	
310-292111-5	MW-304	Total/NA	Water	SM 2540C	
310-292111-6	MW-305	Total/NA	Water	SM 2540C	
310-292111-7	MW-306	Total/NA	Water	SM 2540C	
310-292111-15	MW-312	Total/NA	Water	SM 2540C	
310-292111-16	Field Blank	Total/NA	Water	SM 2540C	
MB 310-435464/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-435464/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 435525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292111-10	MW-308	Total/NA	Water	SM 4500 H+ B	
LCS 310-435525/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 435588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292111-2	MW-301A	Total/NA	Water	SM 2540C	
MB 310-435588/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-435588/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Rad

Prep Batch: 682843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292111-1	MW-301	Total/NA	Water	PrecSep-21	
310-292111-2	MW-301A	Total/NA	Water	PrecSep-21	
310-292111-3	MW-302	Total/NA	Water	PrecSep-21	
310-292111-4	MW-303	Total/NA	Water	PrecSep-21	
310-292111-5	MW-304	Total/NA	Water	PrecSep-21	
310-292111-6	MW-305	Total/NA	Water	PrecSep-21	
310-292111-7	MW-306	Total/NA	Water	PrecSep-21	
310-292111-9	MW-307	Total/NA	Water	PrecSep-21	
310-292111-10	MW-308	Total/NA	Water	PrecSep-21	
310-292111-15	MW-312	Total/NA	Water	PrecSep-21	
310-292111-16	Field Blank	Total/NA	Water	PrecSep-21	
MB 160-682843/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-682843/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
310-292111-1 DU	MW-301	Total/NA	Water	PrecSep-21	

Prep Batch: 682844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292111-6	MW-305	Total/NA	Water	PrecSep_0	

Rad (Continued)

Prep Batch: 682844 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292111-7	MW-306	Total/NA	Water	PrecSep_0	
310-292111-9	MW-307	Total/NA	Water	PrecSep_0	
310-292111-10	MW-308	Total/NA	Water	PrecSep_0	
310-292111-15	MW-312	Total/NA	Water	PrecSep_0	
310-292111-16	Field Blank	Total/NA	Water	PrecSep_0	
MB 160-682844/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-682844/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 685414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292111-3	MW-302	Total/NA	Water	PrecSep_0	
310-292111-4	MW-303	Total/NA	Water	PrecSep_0	
MB 160-685414/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-685414/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-685414/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 685415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292111-5	MW-304	Total/NA	Water	PrecSep_0	
MB 160-685415/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-685415/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-685415/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 686138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292111-1	MW-301	Total/NA	Water	PrecSep_0	
310-292111-2	MW-301A	Total/NA	Water	PrecSep_0	
MB 160-686138/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-686138/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-686138/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Field Service / Mobile Lab

Analysis Batch: 436619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292111-1	MW-301	Total/NA	Water	Field Sampling	
310-292111-2	MW-301A	Total/NA	Water	Field Sampling	
310-292111-3	MW-302	Total/NA	Water	Field Sampling	
310-292111-4	MW-303	Total/NA	Water	Field Sampling	
310-292111-5	MW-304	Total/NA	Water	Field Sampling	
310-292111-6	MW-305	Total/NA	Water	Field Sampling	
310-292111-7	MW-306	Total/NA	Water	Field Sampling	
310-292111-8	MW-306A	Total/NA	Water	Field Sampling	
310-292111-9	MW-307	Total/NA	Water	Field Sampling	
310-292111-10	MW-308	Total/NA	Water	Field Sampling	
310-292111-11	MW-309	Total/NA	Water	Field Sampling	
310-292111-12	MW-309A	Total/NA	Water	Field Sampling	
310-292111-13	MW-310	Total/NA	Water	Field Sampling	
310-292111-14	MW-310A	Total/NA	Water	Field Sampling	
310-292111-15	MW-312	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-301
Lab Sample ID: 310-292111-1
Date Collected: 10/01/24 13:02
Matrix: Water
Date Received: 10/04/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	435976	HE7K	EET CF	10/09/24 21:11
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436085	A6US	EET CF	10/11/24 20:08
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436234	NFT2	EET CF	10/14/24 12:46
Total/NA	Prep	7470A			436039	QTZ5	EET CF	10/12/24 10:55
Total/NA	Analysis	7470A		1	436171	QTZ5	EET CF	10/14/24 10:59
Total/NA	Analysis	SM 2540C		1	435463	MDU9	EET CF	10/07/24 20:05
Total/NA	Analysis	SM 4500 H+ B		1	435322	A3GU	EET CF	10/04/24 17:31
Total/NA	Prep	PrecSep-21			682843	BCE	EET SL	10/09/24 08:05
Total/NA	Analysis	903.0		1	686039	SWS	EET SL	10/31/24 07:53
Total/NA	Prep	PrecSep_0			686138	BCE	EET SL	10/31/24 08:12
Total/NA	Analysis	904.0		1	687504	FLC	EET SL	11/08/24 11:56
Total/NA	Analysis	Ra226_Ra228 Pos		1	688140	FLC	EET SL	11/12/24 07:40
Total/NA	Analysis	Field Sampling		1	436619	BJ0R	EET CF	10/01/24 13:02

Client Sample ID: MW-301A
Lab Sample ID: 310-292111-2
Date Collected: 10/03/24 11:50
Matrix: Water
Date Received: 10/04/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	435976	HE7K	EET CF	10/09/24 21:50
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436085	A6US	EET CF	10/11/24 20:10
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436234	NFT2	EET CF	10/14/24 12:48
Total/NA	Prep	7470A			436039	QTZ5	EET CF	10/12/24 10:55
Total/NA	Analysis	7470A		1	436171	QTZ5	EET CF	10/14/24 11:01
Total/NA	Analysis	SM 2540C		1	435588	MDU9	EET CF	10/08/24 16:50
Total/NA	Analysis	SM 4500 H+ B		1	435322	A3GU	EET CF	10/04/24 17:51
Total/NA	Prep	PrecSep-21			682843	BCE	EET SL	10/09/24 08:05
Total/NA	Analysis	903.0		1	686039	SWS	EET SL	10/31/24 07:53
Total/NA	Prep	PrecSep_0			686138	BCE	EET SL	10/31/24 08:12
Total/NA	Analysis	904.0		1	687504	FLC	EET SL	11/08/24 11:56
Total/NA	Analysis	Ra226_Ra228 Pos		1	688140	FLC	EET SL	11/12/24 07:40
Total/NA	Analysis	Field Sampling		1	436619	BJ0R	EET CF	10/03/24 11:50

Client Sample ID: MW-302
Lab Sample ID: 310-292111-3
Date Collected: 10/01/24 14:17
Matrix: Water
Date Received: 10/04/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	435976	HE7K	EET CF	10/09/24 22:28

Lab Chronicle

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-302
Lab Sample ID: 310-292111-3
Date Collected: 10/01/24 14:17
Matrix: Water
Date Received: 10/04/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436085	A6US	EET CF	10/11/24 20:12
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436234	NFT2	EET CF	10/14/24 12:50
Total/NA	Prep	7470A			436039	QTZ5	EET CF	10/12/24 10:55
Total/NA	Analysis	7470A		1	436171	QTZ5	EET CF	10/14/24 11:03
Total/NA	Analysis	SM 2540C		1	435463	MDU9	EET CF	10/07/24 20:05
Total/NA	Analysis	SM 4500 H+ B		1	435322	A3GU	EET CF	10/04/24 17:36
Total/NA	Prep	PrecSep-21			682843	BCE	EET SL	10/09/24 08:05
Total/NA	Analysis	903.0		1	686039	SWS	EET SL	10/31/24 07:53
Total/NA	Prep	PrecSep_0			685414	BCE	EET SL	10/28/24 09:10
Total/NA	Analysis	904.0		1	687156	SWS	EET SL	11/06/24 12:30
Total/NA	Analysis	Ra226_Ra228 Pos		1	688140	FLC	EET SL	11/12/24 07:40
Total/NA	Analysis	Field Sampling		1	436619	BJ0R	EET CF	10/01/24 14:17

Client Sample ID: MW-303
Lab Sample ID: 310-292111-4
Date Collected: 10/02/24 14:15
Matrix: Water
Date Received: 10/04/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	435976	HE7K	EET CF	10/09/24 22:41
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436085	A6US	EET CF	10/11/24 20:15
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436234	NFT2	EET CF	10/14/24 13:01
Total/NA	Prep	7470A			436039	QTZ5	EET CF	10/12/24 10:55
Total/NA	Analysis	7470A		1	436171	QTZ5	EET CF	10/14/24 11:05
Total/NA	Analysis	SM 2540C		1	435464	MDU9	EET CF	10/07/24 20:15
Total/NA	Analysis	SM 4500 H+ B		1	435322	A3GU	EET CF	10/04/24 17:51
Total/NA	Prep	PrecSep-21			682843	BCE	EET SL	10/09/24 08:05
Total/NA	Analysis	903.0		1	686039	SWS	EET SL	10/31/24 07:54
Total/NA	Prep	PrecSep_0			685414	BCE	EET SL	10/28/24 09:10
Total/NA	Analysis	904.0		1	687156	SWS	EET SL	11/06/24 12:30
Total/NA	Analysis	Ra226_Ra228 Pos		1	688140	FLC	EET SL	11/12/24 07:40
Total/NA	Analysis	Field Sampling		1	436619	BJ0R	EET CF	10/02/24 14:15

Client Sample ID: MW-304
Lab Sample ID: 310-292111-5
Date Collected: 10/02/24 13:04
Matrix: Water
Date Received: 10/04/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	435976	HE7K	EET CF	10/09/24 22:54
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436085	A6US	EET CF	10/11/24 20:17

Lab Chronicle

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-304
Lab Sample ID: 310-292111-5
Date Collected: 10/02/24 13:04
Matrix: Water
Date Received: 10/04/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436234	NFT2	EET CF	10/14/24 13:04
Total/NA	Prep	7470A			436039	QTZ5	EET CF	10/12/24 10:55
Total/NA	Analysis	7470A		1	436171	QTZ5	EET CF	10/14/24 11:07
Total/NA	Analysis	SM 2540C		1	435464	MDU9	EET CF	10/07/24 20:15
Total/NA	Analysis	SM 4500 H+ B		1	435322	A3GU	EET CF	10/04/24 17:53
Total/NA	Prep	PrecSep-21			682843	BCE	EET SL	10/09/24 08:05
Total/NA	Analysis	903.0		1	686039	SWS	EET SL	10/31/24 07:54
Total/NA	Prep	PrecSep_0			685415	BCE	EET SL	10/28/24 09:22
Total/NA	Analysis	904.0		1	687156	SWS	EET SL	11/06/24 12:32
Total/NA	Analysis	Ra226_Ra228 Pos		1	688140	FLC	EET SL	11/12/24 07:40
Total/NA	Analysis	Field Sampling		1	436619	BJ0R	EET CF	10/02/24 13:04

Client Sample ID: MW-305
Lab Sample ID: 310-292111-6
Date Collected: 10/02/24 11:55
Matrix: Water
Date Received: 10/04/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	435976	HE7K	EET CF	10/09/24 23:07
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436085	A6US	EET CF	10/11/24 20:19
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436234	NFT2	EET CF	10/14/24 13:06
Total/NA	Prep	7470A			436039	QTZ5	EET CF	10/12/24 10:55
Total/NA	Analysis	7470A		1	436171	QTZ5	EET CF	10/14/24 11:09
Total/NA	Analysis	SM 2540C		1	435464	MDU9	EET CF	10/07/24 20:15
Total/NA	Analysis	SM 4500 H+ B		1	435322	A3GU	EET CF	10/04/24 17:50
Total/NA	Prep	PrecSep-21			682843	BCE	EET SL	10/09/24 08:05
Total/NA	Analysis	903.0		1	686039	SWS	EET SL	10/31/24 07:54
Total/NA	Prep	PrecSep_0			682844	BCE	EET SL	10/09/24 08:10
Total/NA	Analysis	904.0		1	684899	SWS	EET SL	10/24/24 11:45
Total/NA	Analysis	Ra226_Ra228 Pos		1	688140	FLC	EET SL	11/12/24 07:40
Total/NA	Analysis	Field Sampling		1	436619	BJ0R	EET CF	10/02/24 11:55

Client Sample ID: MW-306
Lab Sample ID: 310-292111-7
Date Collected: 10/02/24 09:36
Matrix: Water
Date Received: 10/04/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	435976	HE7K	EET CF	10/09/24 23:20
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436085	A6US	EET CF	10/11/24 20:21
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436234	NFT2	EET CF	10/14/24 13:08

Lab Chronicle

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-306
Lab Sample ID: 310-292111-7
Date Collected: 10/02/24 09:36
Matrix: Water
Date Received: 10/04/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			436039	QTZ5	EET CF	10/12/24 10:55
Total/NA	Analysis	7470A		1	436171	QTZ5	EET CF	10/14/24 11:16
Total/NA	Analysis	SM 2540C		1	435464	MDU9	EET CF	10/07/24 20:15
Total/NA	Analysis	SM 4500 H+ B		1	435322	A3GU	EET CF	10/04/24 17:39
Total/NA	Prep	PrecSep-21			682843	BCE	EET SL	10/09/24 08:05
Total/NA	Analysis	903.0		1	686039	SWS	EET SL	10/31/24 07:54
Total/NA	Prep	PrecSep_0			682844	BCE	EET SL	10/09/24 08:10
Total/NA	Analysis	904.0		1	684899	SWS	EET SL	10/24/24 11:45
Total/NA	Analysis	Ra226_Ra228 Pos		1	688140	FLC	EET SL	11/12/24 07:40
Total/NA	Analysis	Field Sampling		1	436619	BJ0R	EET CF	10/02/24 09:36

Client Sample ID: MW-306A
Lab Sample ID: 310-292111-8
Date Collected: 10/02/24 10:47
Matrix: Water
Date Received: 10/04/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436085	A6US	EET CF	10/11/24 20:23
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436234	NFT2	EET CF	10/14/24 13:10
Total/NA	Analysis	Field Sampling		1	436619	BJ0R	EET CF	10/02/24 10:47

Client Sample ID: MW-307
Lab Sample ID: 310-292111-9
Date Collected: 10/01/24 16:04
Matrix: Water
Date Received: 10/04/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	435976	HE7K	EET CF	10/09/24 23:33
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436085	A6US	EET CF	10/11/24 20:28
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436234	NFT2	EET CF	10/14/24 13:14
Total/NA	Prep	7470A			436039	QTZ5	EET CF	10/12/24 10:55
Total/NA	Analysis	7470A		1	436171	QTZ5	EET CF	10/14/24 11:18
Total/NA	Analysis	SM 2540C		1	435463	MDU9	EET CF	10/07/24 20:05
Total/NA	Analysis	SM 4500 H+ B		1	435322	A3GU	EET CF	10/04/24 17:33
Total/NA	Prep	PrecSep-21			682843	BCE	EET SL	10/09/24 08:05
Total/NA	Analysis	903.0		1	686141	SWS	EET SL	10/31/24 07:59
Total/NA	Prep	PrecSep_0			682844	BCE	EET SL	10/09/24 08:10
Total/NA	Analysis	904.0		1	684899	SWS	EET SL	10/24/24 11:45
Total/NA	Analysis	Ra226_Ra228 Pos		1	688140	FLC	EET SL	11/12/24 07:40
Total/NA	Analysis	Field Sampling		1	436619	BJ0R	EET CF	10/01/24 16:04

Lab Chronicle

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-308
Lab Sample ID: 310-292111-10
Date Collected: 10/01/24 17:26
Matrix: Water
Date Received: 10/04/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	435976	HE7K	EET CF	10/09/24 23:46
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436543	NFT2	EET CF	10/16/24 12:48
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436085	A6US	EET CF	10/11/24 20:38
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436234	NFT2	EET CF	10/14/24 13:17
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		5	436802	NFT2	EET CF	10/18/24 13:01
Total/NA	Prep	7470A			436039	QTZ5	EET CF	10/12/24 10:55
Total/NA	Analysis	7470A		1	436171	QTZ5	EET CF	10/14/24 11:20
Total/NA	Analysis	SM 2540C		1	435463	MDU9	EET CF	10/07/24 20:05
Total/NA	Analysis	SM 4500 H+ B		1	435525	W9YR	EET CF	10/08/24 09:59
Total/NA	Prep	PrecSep-21			682843	BCE	EET SL	10/09/24 08:05
Total/NA	Analysis	903.0		1	686141	SWS	EET SL	10/31/24 07:59
Total/NA	Prep	PrecSep_0			682844	BCE	EET SL	10/09/24 08:10
Total/NA	Analysis	904.0		1	684899	SWS	EET SL	10/24/24 11:45
Total/NA	Analysis	Ra226_Ra228 Pos		1	688140	FLC	EET SL	11/12/24 07:40
Total/NA	Analysis	Field Sampling		1	436619	BJ0R	EET CF	10/01/24 17:26

Client Sample ID: MW-309
Lab Sample ID: 310-292111-11
Date Collected: 10/02/24 16:49
Matrix: Water
Date Received: 10/04/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436085	A6US	EET CF	10/11/24 20:41
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436234	NFT2	EET CF	10/14/24 13:19
Total/NA	Analysis	Field Sampling		1	436619	BJ0R	EET CF	10/02/24 16:49

Client Sample ID: MW-309A
Lab Sample ID: 310-292111-12
Date Collected: 10/02/24 17:36
Matrix: Water
Date Received: 10/04/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436085	A6US	EET CF	10/11/24 20:43
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436234	NFT2	EET CF	10/14/24 13:21
Total/NA	Analysis	Field Sampling		1	436619	BJ0R	EET CF	10/02/24 17:36

Lab Chronicle

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: MW-310
Lab Sample ID: 310-292111-13
Date Collected: 10/03/24 10:18
Matrix: Water
Date Received: 10/04/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436085	A6US	EET CF	10/11/24 20:45
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436234	NFT2	EET CF	10/14/24 13:32
Total/NA	Analysis	Field Sampling		1	436619	BJ0R	EET CF	10/03/24 10:18

Client Sample ID: MW-310A
Lab Sample ID: 310-292111-14
Date Collected: 10/03/24 11:07
Matrix: Water
Date Received: 10/04/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436085	A6US	EET CF	10/11/24 20:47
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436234	NFT2	EET CF	10/14/24 13:34
Total/NA	Analysis	Field Sampling		1	436619	BJ0R	EET CF	10/03/24 11:07

Client Sample ID: MW-312
Lab Sample ID: 310-292111-15
Date Collected: 10/02/24 15:23
Matrix: Water
Date Received: 10/04/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	435976	HE7K	EET CF	10/09/24 23:58
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436085	A6US	EET CF	10/11/24 20:49
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436234	NFT2	EET CF	10/14/24 13:36
Total/NA	Prep	7470A			436039	QTZ5	EET CF	10/12/24 10:55
Total/NA	Analysis	7470A		1	436171	QTZ5	EET CF	10/14/24 11:22
Total/NA	Analysis	SM 2540C		1	435464	MDU9	EET CF	10/07/24 20:15
Total/NA	Analysis	SM 4500 H+ B		1	435322	A3GU	EET CF	10/04/24 17:38
Total/NA	Prep	PrecSep-21			682843	BCE	EET SL	10/09/24 08:05
Total/NA	Analysis	903.0		1	686141	SWS	EET SL	10/31/24 07:59
Total/NA	Prep	PrecSep_0			682844	BCE	EET SL	10/09/24 08:10
Total/NA	Analysis	904.0		1	684900	FLC	EET SL	10/24/24 11:44
Total/NA	Analysis	Ra226_Ra228 Pos		1	688140	FLC	EET SL	11/12/24 07:40
Total/NA	Analysis	Field Sampling		1	436619	BJ0R	EET CF	10/02/24 15:23

Client Sample ID: Field Blank
Lab Sample ID: 310-292111-16
Date Collected: 10/02/24 17:50
Matrix: Water
Date Received: 10/04/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		1	435999	HE7K	EET CF	10/10/24 20:21

Lab Chronicle

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Client Sample ID: Field Blank
Lab Sample ID: 310-292111-16
Date Collected: 10/02/24 17:50
Matrix: Water
Date Received: 10/04/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436085	A6US	EET CF	10/11/24 20:51
Total/NA	Prep	3005A			435581	F5MW	EET CF	10/09/24 09:30
Total/NA	Analysis	6020B		1	436234	NFT2	EET CF	10/14/24 13:38
Total/NA	Prep	7470A			436039	QTZ5	EET CF	10/12/24 10:55
Total/NA	Analysis	7470A		1	436171	QTZ5	EET CF	10/14/24 11:24
Total/NA	Analysis	SM 2540C		1	435464	MDU9	EET CF	10/07/24 20:15
Total/NA	Analysis	SM 4500 H+ B		1	435322	A3GU	EET CF	10/04/24 17:54
Total/NA	Prep	PrecSep-21			682843	BCE	EET SL	10/09/24 08:05
Total/NA	Analysis	903.0		1	686141	SWS	EET SL	10/31/24 07:59
Total/NA	Prep	PrecSep_0			682844	BCE	EET SL	10/09/24 08:10
Total/NA	Analysis	904.0		1	684900	FLC	EET SL	10/24/24 11:44
Total/NA	Analysis	Ra226_Ra228 Pos		1	688140	FLC	EET SL	11/12/24 07:40

Laboratory References:

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

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Laboratory: Eurofins Cedar Falls

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

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

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-08-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-24
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-25
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-25
HI - RadChem Recognition	State	n/a	06-30-25
Illinois	NELAP	200023	11-30-25
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-25
Kentucky (DW)	State	KY90125	12-31-24
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-24
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-25
Louisiana (DW)	State	LA011	12-31-24
Maryland	State	310	09-30-25
Massachusetts	State	M-MO054	06-30-25
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-25
New Jersey	NELAP	MO002	11-12-24
New Mexico	State	MO00054	06-30-25
New York	NELAP	11616	03-31-25
North Carolina (DW)	State	29700	07-31-25
North Dakota	State	R-207	12-31-24
Oregon	NELAP	4157	09-01-25
Pennsylvania	NELAP	68-00540	02-28-25
South Carolina	State	85002001	06-30-25
Texas	NELAP	T104704193	07-31-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO00054	07-31-25
Virginia	NELAP	460230	06-14-25
Washington	State	C592	08-30-25
West Virginia DEP	State	381	10-31-25

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

Method Summary

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CF
SM 4500 H+ B	pH	SM	EET CF
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
Pos Field Sampling	Field Sampling	EPA	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

EPA = US Environmental Protection Agency
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401
EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

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310-292111 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS engineered

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 10/4/24 | TIME 1630 | Received By: XB

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

Condition of Cooler/Containers

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

Multiple Coolers? ☒ Yes ☐ No *If yes:* Cooler # 1 of 3

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: P | Correction Factor (°C): 0

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

Uncorrected Temp (°C): 1.9 | Corrected Temp (°C): 1.9

Sample Container Temperature

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

Exceptions Noted

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

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

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

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS engineered

City/State: CITY Q STATE Project:

Receipt Information

Date/Time Received: DATE 10/4/24 TIME 1630 Received By: XB

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

Condition of Cooler/Containers

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

Multiple Coolers? ☒ Yes ☒ No *If yes:* Cooler # 2 of 3

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: P Correction Factor (°C): 0

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

Uncorrected Temp (°C): 2.9 Corrected Temp (°C): 2.9

• **Sample Container Temperature**

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

Exceptions Noted

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

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

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

Additional Comments

02/27/2020 - Classification: Internal - ECRM13684604

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Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: GCS

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 10/4/24 | TIME 1630 | Received By: XB

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

Condition of Cooler/Containers

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

Multiple Coolers? ☒ Yes ☐ No *If yes:* Cooler # 3 of 3

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: 1.4 | Correction Factor (°C): 1.4

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

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

• **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

02/27/2026 - Classification: Internal - ECRM13684604

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

Chain of Custody Record

eurofins

Client Information	Sampler: Michael Morgan	Lab PM: Sandie Fredrick	Carrier Tracking No(s):	COC No:
Client Contact: Meghan Blodgett	Phone: 515-631-0778	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: SCS Engineers	PWSID:			Job #:
Address: 2830 Dairy Drive	Due Date Requested:			
City: Madison	TAT Requested (days):			
State, Zip: WI, 53718	Compliance Project: Δ Yes Δ No			
Phone: 608-224-2830	PO #: 25224074			
Email: mblodgett@scsengineers.com	WO #:			
Project Name: Prairie Creek Generating Station 25224074	Project #: 25224074			
Site: Cedar Rapids IA	SSOW#:			

Analysis Requested

Preservation Codes

A - HCL	M - Hexane
B NaOH	N None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020 Metals (15), total (Sb As Ba, Be B Ca Cd Cr Co Fe Pb Li, Mo Se Tl)	7470 Mercury total	6020 Metals (3) total (As Li Mo)	TDS and pH	Chloride Fluoride Sulfate	EPA 903/904 Radium 226 + 228	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	D	D	I	I	D		
MW-301	10/1/24	13 02	G	W	N		X	X		X	X	X		
MW-301A	10/3/24	11 50	G	W	N		X	X		X	X	X		
MW-302	10/1/24	14 17	G	W	N		X	X		X	X	X		
MW-303	10/2/24	14 15	G	W	N		X	X		X	X	X		
MW-304	10/2/24	13.04	G	W	N		X	X		X	X	X		
MW-305	10/2/24	11 55	G	W	N		X	X		X	X	X		
MW-306	10/2/24	09 36	G	W	N		X	X		X	X	X		
MW-306A	0/2/24	10'47	G	W	N				X					
MW-307	10/1/24	16.04	G	W	N		X	X		X	X	X		
MW-308	10/1/24	17 26	G	W	N		X	X		X	X	X		
MW-309	10/2/24	16.49	G	W	N				X					

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

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

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Michael Morgan	10/3/24 15 30	SCS	CGC	10-4-24 1630	Eurofins
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 01/16/2019

11/14/2024 (Rev. 1)

02/27/2026 - Classification: Internal - ECRM13684604

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

Chain of Custody Record

eurofins

Client Information	Sampler: Michael Morgan	Lab PM: Sandie Fredrick	Carrier Tracking No(s):	COC No
Client Contact: Meghan Blodgett	Phone: 515-631-0778	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: SCS Engineers	PWSID			Job #:
Address: 2830 Dairy Drive	Due Date Requested			
City: Madison	TAT Requested (days)			
State, Zip: WI, 53718	Compliance Project: Δ Yes Δ No			
Phone: 608-224-2830	PO #: 25224074			
Email: mblodgett@scsengineers.com	WO #:			
Project Name: Prairie Creek Generating Station 25224074	Project #: 25224074			
Site: Cedar Rapids IA	SSOW#:			

Analysis Requested

Preservation Codes

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N None, O - AsNaO2, P Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020 Metals (15) total (Sb As Ba Be B Ca Cd Cr Co Fe Pb Li Mo Se Tl)	7470 Mercury total	6020 Metals (3) total (As Li Mo)	TDS and pH	Chloride Fluoride Sulfate	EPA 903/904 Radium 226 + 228	Total Number of containers	Special Instructions/Note.
			Preservation Code:				D	D	D	I	I			
MW-309A	10/2/24	17 36	G	W	N				X					
MW-310	10/3/24	10 18	G	W	N				X					
MW-310A	10/3/24	11 07	G	W	N				X					
MW-312	10/2/24	15 23	G	W	N		X	X		X	X	X		
Field Blank	10/2/24	17 50	G	W	N		X	X		X	X	X		

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

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

Deliverable Requested I II III, IV Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Michael Morgan	10/3/24 15.30	SCS	CGL	10-4-24 1630	Eurofins
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time.	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

11/14/2024 (Rev. 1)

Table 1. Sampling Points and Parameters - CCR Rule Sampling Program , October 2024
Groundwater Monitoring - Prairie Creek Generating Station / SCS Engineers Project #25224074

	Parameter	MW-301	MW-301A	MW-302	MW-303	MW-304	MW-305	MW-306	MW-306A	MW-307	MW-308	MW-309	MW-309A	MW-310	MW-310A	MW-311	MW-312	Field Blank	TOTAL
Appendix III Parameters (Detection Monitoring)	Boron	X	X	X	X	X	X	X		X	X						X	X	11
	Calcium	X	X	X	X	X	X	X		X	X						X	X	11
	Chloride	X	X	X	X	X	X	X		X	X						X	X	11
	Fluoride	X	X	X	X	X	X	X		X	X						X	X	11
	pH	X	X	X	X	X	X	X		X	X						X	X	11
	Sulfate	X	X	X	X	X	X	X		X	X						X	X	11
	TDS	X	X	X	X	X	X	X		X	X						X	X	11
Appendix IV Parameters (Assessment Monitoring)	Antimony	X	X	X	X	X	X	X		X	X						X	X	11
	Arsenic	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	16
	Barium	X	X	X	X	X	X	X		X	X						X	X	11
	Beryllium	X	X	X	X	X	X	X		X	X						X	X	11
	Cadmium	X	X	X	X	X	X	X		X	X						X	X	11
	Chromium	X	X	X	X	X	X	X		X	X						X	X	11
	Cobalt	X	X	X	X	X	X	X		X	X						X	X	11
	Fluoride	X	X	X	X	X	X	X		X	X						X	X	11
	Lead	X	X	X	X	X	X	X		X	X						X	X	11
	Lithium	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	16
	Mercury	X	X	X	X	X	X	X		X	X						X	X	11
	Molybdenum	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	16
	Selenium	X	X	X	X	X	X	X		X	X						X	X	11
	Thallium	X	X	X	X	X	X	X		X	X						X	X	11
	Radium	X	X	X	X	X	X	X		X	X						X	X	11
Field Parameters	Groundwater Elevation	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		16
	pH	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		15
	Well Depth															X			1
	Specific Conductance	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		15
	Dissolved Oxygen	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		15
	ORP	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		15
	Temperature	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		15
	Turbidity (NTU)	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		15
	Color	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		15
	Odor	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		15
Total Unfiltered)	Alkalinity - Carbonate																		0
	Alkalinity - Bicarbonate																		0
	Calcium																		0
	Iron	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		15
	Magnesium																		0
	Manganese																		0
	Potassium																		0
	Sodium																		0

02/27/2026 - Classification: Internal - ECRM1368460

02/27/2026 - Classification: Internal - ECRM13684604

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:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 310-77069.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Iowa	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Iowa		Job #: 310-292111-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 10/14/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Prairie Creek Generating Station 25224074	Project #: 31011020			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
-

Other:

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)	Ra226_228GFPC_P/ Combined Radium-226 and Radium-228	903.0/PrecSep_21 Radium-226 (GFPC)	904.0/PrecSep_0 Radium-228 (GFPC)	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-301 (310-292111-1)	10/1/24	13:02 Central	G	Water			X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-301A (310-292111-2)	10/3/24	11:50 Central	G	Water			X	X	X	1	DO NOT SHIP ON ICE TO ST. LOUIS
MW-302 (310-292111-3)	10/1/24	14:17 Central	G	Water			X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-303 (310-292111-4)	10/2/24	14:15 Central	G	Water			X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-304 (310-292111-5)	10/2/24	13:04 Central	G	Water			X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-305 (310-292111-6)	10/2/24	11:55 Central	G	Water			X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-306 (310-292111-7)	10/2/24	09:36 Central	G	Water			X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-307 (310-292111-9)	10/1/24	16:04 Central	G	Water			X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-308 (310-292111-10)	10/1/24	17:26 Central	G	Water			X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS

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
	10/7/24 1130				
Relinquished by:	Date/Time:	Company	Received by: M. Pinette	Date/Time: OCT 08 2024 0845	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

11/14/2024 (Rev. 1)

02/27/2026 - Classification: Internal - ECRM13684604

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No. 310-77069.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Iowa	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Iowa		Job #: 310-292111-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 10/14/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Prairie Creek Generating Station 25224074	Project #: 31011020			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
-

Other:

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)	Ra226_228GFPC_P/ Combined Radium-226 and Radium-228	903.0/PrecSep_21 Radium-226 (GFPC)	904.0/PrecSep_0 Radium-228 (GFPC)	Total Number of containers	Special Instructions/Note:
Preservation Code:											
MW-312 (310-292111-15)	10/2/24	15:23 Central	G	Water			X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS
Field Blank (310-292111-16)	10/2/24	17:50 Central	G	Water			X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS

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

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

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		10/2/24 1150				
2	Relinquished by:	Date/Time:	Company	Received by: M. Pinella	Date/Time: OCT 08 2024 0845	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:

Ver: 05/06/2024

11/14/2024 (Rev. 1)

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-292111-1

Login Number: 292111
List Number: 1
Creator: Collins, Charlotte G

List Source: Eurofins Cedar Falls

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

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-292111-1

Login Number: 292111
List Number: 2
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 10/08/24 01:22 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.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Tracer/Carrier Summary

Client: SCS Engineers
Job ID: 310-292111-1
Project/Site: Prairie Creek Generating Station 25224074

Method: 903.0 - Radium-226 (GFPC)

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

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	Ba (30-110)
310-292111-1	MW-301	66.2
310-292111-1 DU	MW-301	82.7
310-292111-2	MW-301A	71.9
310-292111-3	MW-302	74.2
310-292111-4	MW-303	76.0
310-292111-5	MW-304	69.6
310-292111-6	MW-305	83.5
310-292111-7	MW-306	83.2
310-292111-9	MW-307	84.3
310-292111-10	MW-308	67.5
310-292111-15	MW-312	78.4
310-292111-16	Field Blank	78.4
LCS 160-682843/2-A	Lab Control Sample	82.0
MB 160-682843/1-A	Method Blank	79.9

Tracer/Carrier Legend

Ba = Barium

Method: 904.0 - Radium-228 (GFPC)

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

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
310-292111-1	MW-301	85.3	75.1
310-292111-2	MW-301A	69.7	77.4
310-292111-3	MW-302	87.8	87.1
310-292111-4	MW-303	88.3	83.0
310-292111-5	MW-304	87.0	76.6
310-292111-6	MW-305	83.5	75.5
310-292111-7	MW-306	83.2	68.0
310-292111-9	MW-307	84.3	67.3
310-292111-10	MW-308	67.5	72.9
310-292111-15	MW-312	78.4	64.7
310-292111-16	Field Blank	78.4	71.8
LCS 160-682844/2-A	Lab Control Sample	82.0	75.5
LCS 160-685414/2-A	Lab Control Sample	85.6	83.0
LCS 160-685415/2-A	Lab Control Sample	99.0	79.6
LCS 160-686138/2-A	Lab Control Sample	84.1	78.9
LCSD 160-685414/3-A	Lab Control Sample Dup	94.1	89.3
LCSD 160-685415/3-A	Lab Control Sample Dup	87.0	77.8
LCSD 160-686138/3-A	Lab Control Sample Dup	88.5	78.9
MB 160-682844/1-A	Method Blank	79.9	74.4
MB 160-685414/1-A	Method Blank	86.1	83.4
MB 160-685415/1-A	Method Blank	90.5	79.3
MB 160-686138/1-A	Method Blank	85.1	80.4

Tracer/Carrier Legend

Ba = Barium
Y = Y Carrier

Groundwater Monitoring Results - Field Parameters
Prairie Creek Generating Station / SCS Engineers Project #25224074.00
October 2024

Sample	Sample Date	GW Elevation (ft amsl)	Temperature (Deg. C)	pH (Std. Units)	Dissolved Oxygen (mg/L)	Specific Conductivity (µmhos/cm)	ORP (mV)	Turbidity
MW-301	10/1/2024	713.08	13.7	6.49	4.42	1535	162.6	6.28
MW-301A	10/3/2024	706.89	17.7	6.92	4.22	704	80.8	32.07
MW-302	10/1/2024	712.40	15.2	6.38	1.61	1217	145.4	6.84
MW-303	10/2/2024	701.81	16.1	6.78	0.22	1239	-64.4	7.97
MW-304	10/2/2024	701.76	16.1	6.68	0.22	1353	-18.3	6.37
MW-305	10/2/2024	701.63	16.5	6.79	0.24	1434	28.6	6.55
MW-306	10/2/2024	701.99	12.7	7.28	1.46	984	-82.5	10.47
MW-306A	10/2/2024	702.22	14.3	7.12	3.13	1427	-7.1	8.89
MW-307	10/1/2024	705.64	21.4	8.88	0.52	239.2	71.5	5.77
MW-308	10/1/2024	703.06	15.9	8.85	0.26	902	-138.8	7.96
MW-309	10/2/2024	701.76	19.7	7.14	0.31	1240	-95.9	7.10
MW-309A	10/2/2024	702.00	17.0	7.01	1.94	1046	-78.3	9.06
MW-310	10/3/2024	701.50	17.6	7.03	0.25	1480	-48.3	8.05
MW-310A	10/3/2024	701.74	15.5	7.20	0.27	1316	-52.2	6.39
MW-312	10/2/2024	702.48	25.4	6.66	0.99	937	-60.9	8.08

Abbreviations:
mg/L = milligrams per liter
mV = millivolts
amsl = above mean sea level
NA = Not Analyzed
NM = Not measured

Created by: RM Date: 11/20/2023
Last revision by: RM Date: 10/16/2024
Checked by: BAS Date: 10/17/2024

C:\Users\hld0\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\07WOEIKX\[2410_PCS_CCR_Field.xlsx]GW Field Results

NOTE: Please don't type in to the Checked By cells above, enter your info. on the Revision History tab instead. The cells above will automatically fill in.
REMEMBER TO UPDATE THE REVISION HISTORY TAB!!

C2 April 2025 Assessment Monitoring

02/27/2026 - Classification: Internal - ECRM13684604

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ANALYTICAL REPORT

PREPARED FOR

Attn: Meghan Blodgett
SCS Engineers
2830 Dairy Drive
Madison, Wisconsin 53718

Generated 5/22/2025 4:16:04 PM Revision 1

JOB DESCRIPTION

Prairie Creek Generating Station 25225074

JOB NUMBER

310-304624-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

my EOL

Job Notes

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

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

Authorization

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Revision 1

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job ID: 310-304624-1 Eurofins Cedar Falls

Job Narrative
310-304624-1

Revision
The report being provided is a revision of the original report sent on 5/21/2025. The report (revision 1) is being revised due to: Revised to remove erroneous flags.

Receipt
The samples were received on 4/18/2025 1:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.2º C, 0.7º C and 1.3º C.

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

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

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

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

Sample Summary

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-304624-1	MW-301	Water	04/17/25 09:25	04/18/25 13:55
310-304624-2	MW-302	Water	04/17/25 11:07	04/18/25 13:55
310-304624-3	MW-303	Water	04/15/25 16:45	04/18/25 13:55
310-304624-4	MW-304	Water	04/15/25 17:43	04/18/25 13:55
310-304624-5	MW-305	Water	04/16/25 08:13	04/18/25 13:55
310-304624-6	MW-306	Water	04/16/25 15:12	04/18/25 13:55
310-304624-7	MW-306A	Water	04/16/25 16:31	04/18/25 13:55
310-304624-8	MW-307	Water	04/16/25 18:06	04/18/25 13:55
310-304624-9	MW-308	Water	04/15/25 13:25	04/18/25 13:55
310-304624-10	MW-309	Water	04/16/25 12:44	04/18/25 13:55
310-304624-11	MW-309A	Water	04/16/25 13:44	04/18/25 13:55
310-304624-12	MW-310	Water	04/16/25 11:14	04/18/25 13:55
310-304624-13	MW-310A	Water	04/16/25 09:31	04/18/25 13:55
310-304624-14	MW-312	Water	04/15/25 15:36	04/18/25 13:55
310-304624-15	Field Blank	Water	04/15/25 18:10	04/18/25 13:55

Detection Summary

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-301 — Lab Sample ID: 310-304624-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	99		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	92		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	0.70	J	2.0	0.53	ug/L	1		6020B	Total/NA
Barium	260		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	130		100	82	ug/L	1		6020B	Total/NA
Calcium	180		0.50	0.19	mg/L	1		6020B	Total/NA
Chromium	4.8	J	5.0	1.8	ug/L	1		6020B	Total/NA
Iron	55	J	100	50	ug/L	1		6020B	Total/NA
Lithium	14		10	2.9	ug/L	1		6020B	Total/NA
Total Dissolved Solids	750		50	36	mg/L	1		SM 2540C	Total/NA
pH	7.9	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	713.54				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	302.8				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.32				mg/L	1		Field Sampling	Total/NA
Field pH	6.76				SU	1		Field Sampling	Total/NA
Field Conductivity	1317				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	11.0				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.75				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-302 — Lab Sample ID: 310-304624-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	160		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	77		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	0.60	J	2.0	0.53	ug/L	1		6020B	Total/NA
Barium	240		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	100		100	82	ug/L	1		6020B	Total/NA
Calcium	160		0.50	0.19	mg/L	1		6020B	Total/NA
Iron	79	J	100	50	ug/L	1		6020B	Total/NA
Lithium	8.4	J	10	2.9	ug/L	1		6020B	Total/NA
Selenium	1.5	J	5.0	1.4	ug/L	1		6020B	Total/NA
Total Dissolved Solids	750		50	36	mg/L	1		SM 2540C	Total/NA
pH	7.9	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	713.38				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	290.6				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.32				mg/L	1		Field Sampling	Total/NA
Field pH	6.70				SU	1		Field Sampling	Total/NA
Field Conductivity	1331				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	7.7				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	4.88				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-303 — Lab Sample ID: 310-304624-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	18		5.0	2.3	mg/L	5		9056A	Total/NA
Fluoride	0.38	J	1.0	0.38	mg/L	5		9056A	Total/NA
Sulfate	130		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	25		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	110		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	1400		100	82	ug/L	1		6020B	Total/NA
Calcium	130		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	0.30	J	0.50	0.17	ug/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample ID: MW-303 (Continued) — Lab Sample ID: 310-304624-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	4000		100	50	ug/L	1		6020B	Total/NA
Lithium	15		10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	11		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	660		50	36	mg/L	1		SM 2540C	Total/NA
pH	7.9	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	702.54				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-113.4				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	-0.15				mg/L	1		Field Sampling	Total/NA
Field pH	6.96				SU	1		Field Sampling	Total/NA
Field Conductivity	1057				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	8.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	2.08				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-304 — Lab Sample ID: 310-304624-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12		5.0	2.3	mg/L	5		9056A	Total/NA
Fluoride	0.53	J	1.0	0.38	mg/L	5		9056A	Total/NA
Sulfate	240		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	18		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	110		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	1200		100	82	ug/L	1		6020B	Total/NA
Calcium	130		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	0.67		0.50	0.17	ug/L	1		6020B	Total/NA
Iron	2200		100	50	ug/L	1		6020B	Total/NA
Lithium	14		10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	29		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	770		50	36	mg/L	1		SM 2540C	Total/NA
pH	8.0	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	702.47				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	22.9				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	-0.11				mg/L	1		Field Sampling	Total/NA
Field pH	7.01				SU	1		Field Sampling	Total/NA
Field Conductivity	1157				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	8.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	2.06				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-305 — Lab Sample ID: 310-304624-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	22		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	280		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	10		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	140		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	1200		100	82	ug/L	1		6020B	Total/NA
Calcium	160		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	0.50		0.50	0.17	ug/L	1		6020B	Total/NA
Iron	130		100	50	ug/L	1		6020B	Total/NA
Lithium	17		10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	37		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	790		50	36	mg/L	1		SM 2540C	Total/NA
pH	7.9	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-305 (Continued) — Lab Sample ID: 310-304624-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Groundwater Elevation	702.33				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	344.9				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.11				mg/L	1		Field Sampling	Total/NA
Field pH	6.83				SU	1		Field Sampling	Total/NA
Field Conductivity	1197				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	7.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	4.98				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-306 — Lab Sample ID: 310-304624-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	160		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	0.58	J	2.0	0.53	ug/L	1		6020B	Total/NA
Barium	94		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	2300		100	82	ug/L	1		6020B	Total/NA
Calcium	99		0.50	0.19	mg/L	1		6020B	Total/NA
Iron	3300		100	50	ug/L	1		6020B	Total/NA
Molybdenum	140		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	530		50	36	mg/L	1		SM 2540C	Total/NA
pH	8.1	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	702.71				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-37.5				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.49				mg/L	1		Field Sampling	Total/NA
Field pH	7.39				SU	1		Field Sampling	Total/NA
Field Conductivity	901				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	15.0				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	7.75				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-306A — Lab Sample ID: 310-304624-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	6.1	J	10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	21		2.0	1.3	ug/L	1		6020B	Total/NA
Groundwater Elevation	702.94				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	137.2				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.02				mg/L	1		Field Sampling	Total/NA
Field pH	7.17				SU	1		Field Sampling	Total/NA
Field Conductivity	1222				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	13.3				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	7.09				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-307 — Lab Sample ID: 310-304624-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	41		5.0	2.1	mg/L	5		9056A	Total/NA
Antimony	1.6	J	2.0	1.0	ug/L	1		6020B	Total/NA
Arsenic	6.5		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	65		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	1200		100	82	ug/L	1		6020B	Total/NA
Calcium	28		0.50	0.19	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-307 (Continued) — Lab Sample ID: 310-304624-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	11		10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	11		2.0	1.3	ug/L	1		6020B	Total/NA
Selenium	12		5.0	1.4	ug/L	1		6020B	Total/NA
Total Dissolved Solids	170		50	36	mg/L	1		SM 2540C	Total/NA
pH	8.4	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	705.92				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	278.7				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	-0.13				mg/L	1		Field Sampling	Total/NA
Field pH	8.92				SU	1		Field Sampling	Total/NA
Field Conductivity	274				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	12.3				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	4.08				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-308 — Lab Sample ID: 310-304624-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.1		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	250		5.0	2.1	mg/L	5		9056A	Total/NA
Antimony	1.8	J	2.0	1.0	ug/L	1		6020B	Total/NA
Arsenic	40		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	73		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	6300		400	330	ug/L	4		6020B	Total/NA
Calcium	84		0.50	0.19	mg/L	1		6020B	Total/NA
Lithium	44		10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	87		2.0	1.3	ug/L	1		6020B	Total/NA
Selenium	1.5	J	5.0	1.4	ug/L	1		6020B	Total/NA
Total Dissolved Solids	560		50	36	mg/L	1		SM 2540C	Total/NA
pH	8.8	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	704.28				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	33.7				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.01				mg/L	1		Field Sampling	Total/NA
Field pH	9.09				SU	1		Field Sampling	Total/NA
Field Conductivity	753				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	13.7				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	2.44				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-309 — Lab Sample ID: 310-304624-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	20		2.0	0.53	ug/L	1		6020B	Total/NA
Lithium	16		10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	15		2.0	1.3	ug/L	1		6020B	Total/NA
Groundwater Elevation	702.43				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-52.8				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	-0.12				mg/L	1		Field Sampling	Total/NA
Field pH	7.10				SU	1		Field Sampling	Total/NA
Field Conductivity	1071				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	12.9				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.87				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-309A — Lab Sample ID: 310-304624-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.79	J	2.0	0.53	ug/L	1		6020B	Total/NA
Lithium	5.4	J	10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	9.5		2.0	1.3	ug/L	1		6020B	Total/NA
Groundwater Elevation	701.77				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-97				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.13				mg/L	1		Field Sampling	Total/NA
Field pH	7.11				SU	1		Field Sampling	Total/NA
Field Conductivity	853				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	15.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	5.19				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-310 — Lab Sample ID: 310-304624-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	18		2.0	0.53	ug/L	1		6020B	Total/NA
Lithium	16		10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	30		2.0	1.3	ug/L	1		6020B	Total/NA
Groundwater Elevation	702.18				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-65.2				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.34				mg/L	1		Field Sampling	Total/NA
Field pH	7.13				SU	1		Field Sampling	Total/NA
Field Conductivity	1117				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	13.7				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	10.36				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-310A — Lab Sample ID: 310-304624-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	4.2	J	10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	16		2.0	1.3	ug/L	1		6020B	Total/NA
Groundwater Elevation	702.50				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-122.1				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.13				mg/L	1		Field Sampling	Total/NA
Field pH	7.28				SU	1		Field Sampling	Total/NA
Field Conductivity	1119				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	14.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	4.87				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-312 — Lab Sample ID: 310-304624-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	66		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	38		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	9.5		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	160		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	300		100	82	ug/L	1		6020B	Total/NA
Calcium	89		0.50	0.19	mg/L	1		6020B	Total/NA
Iron	10000		100	50	ug/L	1		6020B	Total/NA
Lithium	4.3	J	10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	5.3		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	460		50	36	mg/L	1		SM 2540C	Total/NA
pH	8.0	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-312 (Continued) — Lab Sample ID: 310-304624-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Groundwater Elevation	703.13				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-112.6				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	-0.06				mg/L	1		Field Sampling	Total/NA
Field pH	6.83				SU	1		Field Sampling	Total/NA
Field Conductivity	806				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	18.2				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	13.39				NTU	1		Field Sampling	Total/NA

Client Sample ID: Field Blank — Lab Sample ID: 310-304624-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	8.0	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-301
Date Collected: 04/17/25 09:25
Date Received: 04/18/25 13:55

Lab Sample ID: 310-304624-1
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**99**		5.0	2.3	mg/L			04/23/25 15:13	5
Fluoride	<0.38		1.0	0.38	mg/L			04/23/25 15:13	5
Sulfate	**92**		5.0	2.1	mg/L			04/23/25 15:13	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		04/23/25 09:30	04/23/25 19:48	1
Arsenic	**0.70**	**J**	2.0	0.53	ug/L		04/23/25 09:30	04/23/25 19:48	1
Barium	**260**		2.0	0.66	ug/L		04/23/25 09:30	04/23/25 19:48	1
Beryllium	<0.33		1.0	0.33	ug/L		04/23/25 09:30	04/23/25 19:48	1
Boron	**130**		100	82	ug/L		04/23/25 09:30	04/23/25 19:48	1
Cadmium	<0.10		0.20	0.10	ug/L		04/23/25 09:30	04/23/25 19:48	1
Calcium	**180**		0.50	0.19	mg/L		04/23/25 09:30	04/23/25 19:48	1
Chromium	**4.8**	**J**	5.0	1.8	ug/L		04/23/25 09:30	04/23/25 19:48	1
Cobalt	<0.17		0.50	0.17	ug/L		04/23/25 09:30	04/23/25 19:48	1
Iron	**55**	**J**	100	50	ug/L		04/23/25 09:30	04/23/25 19:48	1
Lead	<0.33		0.50	0.33	ug/L		04/23/25 09:30	04/23/25 19:48	1
Lithium	**14**		10	2.9	ug/L		04/23/25 09:30	04/23/25 19:48	1
Molybdenum	<1.3		2.0	1.3	ug/L		04/23/25 09:30	04/23/25 19:48	1
Selenium	<1.4		5.0	1.4	ug/L		04/23/25 09:30	04/23/25 19:48	1
Thallium	<0.57		1.0	0.57	ug/L		04/23/25 09:30	04/23/25 19:48	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		04/29/25 09:26	04/29/25 14:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**750**		50	36	mg/L			04/22/25 14:38	1
pH (SM 4500 H+ B)	**7.9**	**HF**	1.0	1.0	SU			04/19/25 01:39	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	-0.0106	U	0.134	0.134	1.00	0.290	pCi/L	04/22/25 08:18	05/20/25 19:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*91.6*		*30 - 110*	*04/22/25 08:18*	*05/20/25 19:44*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	0.391	U	0.375	0.376	1.00	0.600	pCi/L	04/22/25 08:31	05/20/25 11:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*91.6*		*30 - 110*	*04/22/25 08:31*	*05/20/25 11:45*	*1*
Y Carrier	*80.4*		*30 - 110*	*04/22/25 08:31*	*05/20/25 11:45*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-301
Lab Sample ID: 310-304624-1
Date Collected: 04/17/25 09:25
Matrix: Water
Date Received: 04/18/25 13:55

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.391	U	0.398	0.399	5.00	0.600	pCi/L		05/20/25 09:19	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	713.54				ft			04/17/25 09:25	1
Oxidation Reduction Potential	302.8				mV			04/17/25 09:25	1
Oxygen, Dissolved	4.32				mg/L			04/17/25 09:25	1
Field pH	6.76				SU			04/17/25 09:25	1
Field Conductivity	1317				umhos/cm			04/17/25 09:25	1
Field Temperature	11.0				Degrees C			04/17/25 09:25	1
Field Turbidity	3.75				NTU			04/17/25 09:25	1

Client Sample ID: MW-302
Date Collected: 04/17/25 11:07
Date Received: 04/18/25 13:55

Lab Sample ID: 310-304624-2
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**160**		5.0	2.3	mg/L			04/23/25 15:26	5
Fluoride	<0.38		1.0	0.38	mg/L			04/23/25 15:26	5
Sulfate	**77**		5.0	2.1	mg/L			04/23/25 15:26	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		04/23/25 09:30	04/23/25 19:51	1
Arsenic	**0.60**	**J**	2.0	0.53	ug/L		04/23/25 09:30	04/23/25 19:51	1
Barium	**240**		2.0	0.66	ug/L		04/23/25 09:30	04/23/25 19:51	1
Beryllium	<0.33		1.0	0.33	ug/L		04/23/25 09:30	04/23/25 19:51	1
Boron	**100**		100	82	ug/L		04/23/25 09:30	04/23/25 19:51	1
Cadmium	<0.10		0.20	0.10	ug/L		04/23/25 09:30	04/23/25 19:51	1
Calcium	**160**		0.50	0.19	mg/L		04/23/25 09:30	04/23/25 19:51	1
Chromium	<1.8		5.0	1.8	ug/L		04/23/25 09:30	04/23/25 19:51	1
Cobalt	<0.17		0.50	0.17	ug/L		04/23/25 09:30	04/23/25 19:51	1
Iron	**79**	**J**	100	50	ug/L		04/23/25 09:30	04/23/25 19:51	1
Lead	<0.33		0.50	0.33	ug/L		04/23/25 09:30	04/23/25 19:51	1
Lithium	**8.4**	**J**	10	2.9	ug/L		04/23/25 09:30	04/23/25 19:51	1
Molybdenum	<1.3		2.0	1.3	ug/L		04/23/25 09:30	04/23/25 19:51	1
Selenium	**1.5**	**J**	5.0	1.4	ug/L		04/23/25 09:30	04/23/25 19:51	1
Thallium	<0.57		1.0	0.57	ug/L		04/23/25 09:30	04/23/25 19:51	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		04/29/25 09:26	04/29/25 14:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**750**		50	36	mg/L			04/22/25 14:38	1
pH (SM 4500 H+ B)	**7.9**	**HF**	1.0	1.0	SU			04/19/25 01:44	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	**0.327**		0.224	0.225	1.00	0.304	pCi/L	04/22/25 08:18	05/20/25 19:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*87.2*		*30 - 110*	*04/22/25 08:18*	*05/20/25 19:44*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	0.735	U	0.487	0.492	1.00	0.741	pCi/L	04/22/25 08:31	05/20/25 11:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*87.2*		*30 - 110*	*04/22/25 08:31*	*05/20/25 11:45*	*1*
Y Carrier	*80.4*		*30 - 110*	*04/22/25 08:31*	*05/20/25 11:45*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-302
Lab Sample ID: 310-304624-2
Date Collected: 04/17/25 11:07
Matrix: Water
Date Received: 04/18/25 13:55

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.06		0.536	0.541	5.00	0.741	pCi/L		05/20/25 09:19	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	713.38				ft			04/17/25 11:07	1
Oxidation Reduction Potential	290.6				mV			04/17/25 11:07	1
Oxygen, Dissolved	3.32				mg/L			04/17/25 11:07	1
Field pH	6.70				SU			04/17/25 11:07	1
Field Conductivity	1331				umhos/cm			04/17/25 11:07	1
Field Temperature	7.7				Degrees C			04/17/25 11:07	1
Field Turbidity	4.88				NTU			04/17/25 11:07	1

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-303
Date Collected: 04/15/25 16:45
Date Received: 04/18/25 13:55

Lab Sample ID: 310-304624-3
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18**		5.0	2.3	mg/L			04/23/25 15:39	5
Fluoride	**0.38**	**J**	1.0	0.38	mg/L			04/23/25 15:39	5
Sulfate	**130**		5.0	2.1	mg/L			04/23/25 15:39	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		04/24/25 09:00	04/25/25 15:46	1
Arsenic	**25**		2.0	0.53	ug/L		04/24/25 09:00	04/25/25 15:46	1
Barium	**110**		2.0	0.66	ug/L		04/24/25 09:00	04/25/25 15:46	1
Beryllium	<0.33		1.0	0.33	ug/L		04/24/25 09:00	04/25/25 15:46	1
Boron	**1400**		100	82	ug/L		04/24/25 09:00	04/28/25 12:54	1
Cadmium	<0.10		0.20	0.10	ug/L		04/24/25 09:00	04/25/25 15:46	1
Calcium	**130**		0.50	0.19	mg/L		04/24/25 09:00	04/25/25 15:46	1
Chromium	<1.8		5.0	1.8	ug/L		04/24/25 09:00	04/25/25 15:46	1
Cobalt	**0.30**	**J**	0.50	0.17	ug/L		04/24/25 09:00	04/25/25 15:46	1
Iron	**4000**		100	50	ug/L		04/24/25 09:00	04/25/25 15:46	1
Lead	<0.33		0.50	0.33	ug/L		04/24/25 09:00	04/25/25 15:46	1
Lithium	**15**		10	2.9	ug/L		04/24/25 09:00	04/25/25 15:46	1
Molybdenum	**11**		2.0	1.3	ug/L		04/24/25 09:00	04/25/25 15:46	1
Selenium	<1.4		5.0	1.4	ug/L		04/24/25 09:00	04/25/25 15:46	1
Thallium	<0.57		1.0	0.57	ug/L		04/24/25 09:00	04/25/25 15:46	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		04/29/25 09:26	04/29/25 14:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**660**		50	36	mg/L			04/21/25 19:11	1
pH (SM 4500 H+ B)	**7.9**	**HF**	1.0	1.0	SU			04/19/25 01:48	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	0.135	U	0.162	0.163	1.00	0.264	pCi/L	04/22/25 08:18	05/20/25 19:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*90.3*		*30 - 110*	*04/22/25 08:18*	*05/20/25 19:44*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	**0.609**		0.401	0.405	1.00	0.599	pCi/L	04/22/25 08:31	05/20/25 11:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*90.3*		*30 - 110*	*04/22/25 08:31*	*05/20/25 11:45*	*1*
Y Carrier	*81.1*		*30 - 110*	*04/22/25 08:31*	*05/20/25 11:45*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-303
Lab Sample ID: 310-304624-3
Date Collected: 04/15/25 16:45
Matrix: Water
Date Received: 04/18/25 13:55

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.744		0.432	0.437	5.00	0.599	pCi/L		05/20/25 09:19	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	702.54				ft			04/15/25 16:45	1
Oxidation Reduction Potential	-113.4				mV			04/15/25 16:45	1
Oxygen, Dissolved	-0.15				mg/L			04/15/25 16:45	1
Field pH	6.96				SU			04/15/25 16:45	1
Field Conductivity	1057				umhos/cm			04/15/25 16:45	1
Field Temperature	8.6				Degrees C			04/15/25 16:45	1
Field Turbidity	2.08				NTU			04/15/25 16:45	1

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-304
Date Collected: 04/15/25 17:43
Date Received: 04/18/25 13:55

Lab Sample ID: 310-304624-4
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12**		5.0	2.3	mg/L			04/23/25 15:52	5
Fluoride	**0.53**	**J**	1.0	0.38	mg/L			04/23/25 15:52	5
Sulfate	**240**		5.0	2.1	mg/L			04/23/25 15:52	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		04/24/25 09:00	04/25/25 15:51	1
Arsenic	**18**		2.0	0.53	ug/L		04/24/25 09:00	04/25/25 15:51	1
Barium	**110**		2.0	0.66	ug/L		04/24/25 09:00	04/25/25 15:51	1
Beryllium	<0.33		1.0	0.33	ug/L		04/24/25 09:00	04/25/25 15:51	1
Boron	**1200**		100	82	ug/L		04/24/25 09:00	04/28/25 12:56	1
Cadmium	<0.10		0.20	0.10	ug/L		04/24/25 09:00	04/25/25 15:51	1
Calcium	**130**		0.50	0.19	mg/L		04/24/25 09:00	04/25/25 15:51	1
Chromium	<1.8		5.0	1.8	ug/L		04/24/25 09:00	04/25/25 15:51	1
Cobalt	**0.67**		0.50	0.17	ug/L		04/24/25 09:00	04/25/25 15:51	1
Iron	**2200**		100	50	ug/L		04/24/25 09:00	04/25/25 15:51	1
Lead	<0.33		0.50	0.33	ug/L		04/24/25 09:00	04/25/25 15:51	1
Lithium	**14**		10	2.9	ug/L		04/24/25 09:00	04/25/25 15:51	1
Molybdenum	**29**		2.0	1.3	ug/L		04/24/25 09:00	04/25/25 15:51	1
Selenium	<1.4		5.0	1.4	ug/L		04/24/25 09:00	04/25/25 15:51	1
Thallium	<0.57		1.0	0.57	ug/L		04/24/25 09:00	04/25/25 15:51	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		04/29/25 09:26	04/29/25 14:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**770**		50	36	mg/L			04/21/25 19:11	1
pH (SM 4500 H+ B)	**8.0**	**HF**	1.0	1.0	SU			04/19/25 01:59	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	0.219	U	0.192	0.193	1.00	0.283	pCi/L	04/22/25 08:18	05/20/25 19:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*83.4*		*30 - 110*	*04/22/25 08:18*	*05/20/25 19:44*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	0.572	U	0.408	0.411	1.00	0.614	pCi/L	04/22/25 08:31	05/20/25 11:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*83.4*		*30 - 110*	*04/22/25 08:31*	*05/20/25 11:45*	*1*
Y Carrier	*78.9*		*30 - 110*	*04/22/25 08:31*	*05/20/25 11:45*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-304
Lab Sample ID: 310-304624-4
Date Collected: 04/15/25 17:43
Matrix: Water
Date Received: 04/18/25 13:55

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.791		0.451	0.454	5.00	0.614	pCi/L		05/20/25 09:19	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	702.47				ft			04/15/25 17:43	1
Oxidation Reduction Potential	22.9				mV			04/15/25 17:43	1
Oxygen, Dissolved	-0.11				mg/L			04/15/25 17:43	1
Field pH	7.01				SU			04/15/25 17:43	1
Field Conductivity	1157				umhos/cm			04/15/25 17:43	1
Field Temperature	8.6				Degrees C			04/15/25 17:43	1
Field Turbidity	2.06				NTU			04/15/25 17:43	1

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-305
Lab Sample ID: 310-304624-5
Date Collected: 04/16/25 08:13
Matrix: Water
Date Received: 04/18/25 13:55

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22**		5.0	2.3	mg/L			04/23/25 16:31	5
Fluoride	<0.38		1.0	0.38	mg/L			04/23/25 16:31	5
Sulfate	**280**		5.0	2.1	mg/L			04/23/25 16:31	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		04/23/25 09:30	04/23/25 20:03	1
Arsenic	**10**		2.0	0.53	ug/L		04/23/25 09:30	04/23/25 20:03	1
Barium	**140**		2.0	0.66	ug/L		04/23/25 09:30	04/23/25 20:03	1
Beryllium	<0.33		1.0	0.33	ug/L		04/23/25 09:30	04/23/25 20:03	1
Boron	**1200**		100	82	ug/L		04/23/25 09:30	04/23/25 20:03	1
Cadmium	<0.10		0.20	0.10	ug/L		04/23/25 09:30	04/23/25 20:03	1
Calcium	**160**		0.50	0.19	mg/L		04/23/25 09:30	04/23/25 20:03	1
Chromium	<1.8		5.0	1.8	ug/L		04/23/25 09:30	04/23/25 20:03	1
Cobalt	**0.50**		0.50	0.17	ug/L		04/23/25 09:30	04/23/25 20:03	1
Iron	**130**		100	50	ug/L		04/23/25 09:30	04/23/25 20:03	1
Lead	<0.33		0.50	0.33	ug/L		04/23/25 09:30	04/23/25 20:03	1
Lithium	**17**		10	2.9	ug/L		04/23/25 09:30	04/23/25 20:03	1
Molybdenum	**37**		2.0	1.3	ug/L		04/23/25 09:30	04/23/25 20:03	1
Selenium	<1.4		5.0	1.4	ug/L		04/23/25 09:30	04/23/25 20:03	1
Thallium	<0.57		1.0	0.57	ug/L		04/23/25 09:30	04/23/25 20:03	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		04/29/25 09:26	04/29/25 14:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**790**		50	36	mg/L			04/21/25 19:14	1
pH (SM 4500 H+ B)	**7.9**	**HF**	1.0	1.0	SU			04/19/25 02:03	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	0.223	U	0.213	0.214	1.00	0.331	pCi/L	04/22/25 08:18	05/20/25 19:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*88.5*		*30 - 110*	*04/22/25 08:18*	*05/20/25 19:44*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	0.484	U	0.404	0.406	1.00	0.635	pCi/L	04/22/25 08:31	05/20/25 11:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*88.5*		*30 - 110*	*04/22/25 08:31*	*05/20/25 11:46*	*1*
Y Carrier	*84.5*		*30 - 110*	*04/22/25 08:31*	*05/20/25 11:46*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-305
Lab Sample ID: 310-304624-5
Date Collected: 04/16/25 08:13
Matrix: Water
Date Received: 04/18/25 13:55

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.707		0.457	0.459	5.00	0.635	pCi/L		05/20/25 09:19	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	702.33				ft			04/16/25 08:13	1
Oxidation Reduction Potential	344.9				mV			04/16/25 08:13	1
Oxygen, Dissolved	0.11				mg/L			04/16/25 08:13	1
Field pH	6.83				SU			04/16/25 08:13	1
Field Conductivity	1197				umhos/cm			04/16/25 08:13	1
Field Temperature	7.6				Degrees C			04/16/25 08:13	1
Field Turbidity	4.98				NTU			04/16/25 08:13	1

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-306
Date Collected: 04/16/25 15:12
Date Received: 04/18/25 13:55

Lab Sample ID: 310-304624-6
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20**		5.0	2.3	mg/L			04/23/25 16:45	5
Fluoride	<0.38		1.0	0.38	mg/L			04/23/25 16:45	5
Sulfate	**160**		5.0	2.1	mg/L			04/23/25 16:45	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		04/23/25 09:30	04/23/25 19:42	1
Arsenic	**0.58**	**J**	2.0	0.53	ug/L		04/23/25 09:30	04/23/25 19:42	1
Barium	**94**		2.0	0.66	ug/L		04/23/25 09:30	04/23/25 19:42	1
Beryllium	<0.33		1.0	0.33	ug/L		04/23/25 09:30	04/23/25 19:42	1
Boron	**2300**		100	82	ug/L		04/23/25 09:30	04/23/25 19:42	1
Cadmium	<0.10		0.20	0.10	ug/L		04/23/25 09:30	04/23/25 19:42	1
Calcium	**99**		0.50	0.19	mg/L		04/23/25 09:30	04/23/25 19:42	1
Chromium	<1.8		5.0	1.8	ug/L		04/23/25 09:30	04/23/25 19:42	1
Cobalt	<0.17		0.50	0.17	ug/L		04/23/25 09:30	04/23/25 19:42	1
Iron	**3300**		100	50	ug/L		04/23/25 09:30	04/23/25 19:42	1
Lead	<0.33		0.50	0.33	ug/L		04/23/25 09:30	04/23/25 19:42	1
Lithium	<2.9		10	2.9	ug/L		04/23/25 09:30	04/23/25 19:42	1
Molybdenum	**140**		2.0	1.3	ug/L		04/23/25 09:30	04/23/25 19:42	1
Selenium	<1.4		5.0	1.4	ug/L		04/23/25 09:30	04/23/25 19:42	1
Thallium	<0.57		1.0	0.57	ug/L		04/23/25 09:30	04/23/25 19:42	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		04/29/25 09:26	04/29/25 14:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**530**		50	36	mg/L			04/21/25 19:14	1
pH (SM 4500 H+ B)	**8.1**	**HF**	1.0	1.0	SU			04/19/25 02:12	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	0.0926	U	0.234	0.234	1.00	0.422	pCi/L	04/22/25 08:18	05/20/25 19:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*87.7*		*30 - 110*	*04/22/25 08:18*	*05/20/25 19:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	0.427	U	0.362	0.364	1.00	0.566	pCi/L	04/22/25 08:31	05/20/25 11:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*87.7*		*30 - 110*	*04/22/25 08:31*	*05/20/25 11:45*	*1*
Y Carrier	*82.6*		*30 - 110*	*04/22/25 08:31*	*05/20/25 11:45*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-306
Lab Sample ID: 310-304624-6
Date Collected: 04/16/25 15:12
Matrix: Water
Date Received: 04/18/25 13:55

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.520	U	0.431	0.433	5.00	0.566	pCi/L		05/20/25 09:19	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	702.71				ft			04/16/25 15:12	1
Oxidation Reduction Potential	-37.5				mV			04/16/25 15:12	1
Oxygen, Dissolved	1.49				mg/L			04/16/25 15:12	1
Field pH	7.39				SU			04/16/25 15:12	1
Field Conductivity	901				umhos/cm			04/16/25 15:12	1
Field Temperature	15.0				Degrees C			04/16/25 15:12	1
Field Turbidity	7.75				NTU			04/16/25 15:12	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-306A
Lab Sample ID: 310-304624-7
Date Collected: 04/16/25 16:31
Matrix: Water
Date Received: 04/18/25 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.53		2.0	0.53	ug/L		04/23/25 09:30	04/23/25 19:45	1
Lithium	**6.1**	**J**	10	2.9	ug/L		04/23/25 09:30	04/23/25 19:45	1
Molybdenum	**21**		2.0	1.3	ug/L		04/23/25 09:30	04/23/25 19:45	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	**702.94**				ft			04/16/25 16:31	1
Oxidation Reduction Potential	**137.2**				mV			04/16/25 16:31	1
Oxygen, Dissolved	**0.02**				mg/L			04/16/25 16:31	1
Field pH	**7.17**				SU			04/16/25 16:31	1
Field Conductivity	**1222**				umhos/cm			04/16/25 16:31	1
Field Temperature	**13.3**				Degrees C			04/16/25 16:31	1
Field Turbidity	**7.09**				NTU			04/16/25 16:31	1

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-307
Date Collected: 04/16/25 18:06
Date Received: 04/18/25 13:55

Lab Sample ID: 310-304624-8
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		5.0	2.3	mg/L			04/23/25 16:58	5
Fluoride	<0.38		1.0	0.38	mg/L			04/23/25 16:58	5
Sulfate	41		5.0	2.1	mg/L			04/23/25 16:58	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.6	J	2.0	1.0	ug/L		04/23/25 09:30	04/23/25 19:40	1
Arsenic	6.5		2.0	0.53	ug/L		04/23/25 09:30	04/23/25 19:40	1
Barium	65		2.0	0.66	ug/L		04/23/25 09:30	04/23/25 19:40	1
Beryllium	<0.33		1.0	0.33	ug/L		04/23/25 09:30	04/23/25 19:40	1
Boron	1200		100	82	ug/L		04/23/25 09:30	04/23/25 19:40	1
Cadmium	<0.10		0.20	0.10	ug/L		04/23/25 09:30	04/23/25 19:40	1
Calcium	28		0.50	0.19	mg/L		04/23/25 09:30	04/23/25 19:40	1
Chromium	<1.8		5.0	1.8	ug/L		04/23/25 09:30	04/23/25 19:40	1
Cobalt	<0.17		0.50	0.17	ug/L		04/23/25 09:30	04/23/25 19:40	1
Iron	<50		100	50	ug/L		04/23/25 09:30	04/23/25 19:40	1
Lead	<0.33		0.50	0.33	ug/L		04/23/25 09:30	04/23/25 19:40	1
Lithium	11		10	2.9	ug/L		04/23/25 09:30	04/23/25 19:40	1
Molybdenum	11		2.0	1.3	ug/L		04/23/25 09:30	04/23/25 19:40	1
Selenium	12		5.0	1.4	ug/L		04/23/25 09:30	04/23/25 19:40	1
Thallium	<0.57		1.0	0.57	ug/L		04/23/25 09:30	04/23/25 19:40	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		04/29/25 09:26	04/29/25 14:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	170		50	36	mg/L			04/21/25 19:14	1
pH (SM 4500 H+ B)	8.4	HF	1.0	1.0	SU			04/19/25 02:16	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	0.158	U	0.254	0.255	1.00	0.438	pCi/L	04/22/25 08:18	05/20/25 19:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*86.7*		*30 - 110*	*04/22/25 08:18*	*05/20/25 19:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	0.319	U	0.344	0.345	1.00	0.559	pCi/L	04/22/25 08:31	05/20/25 11:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*86.7*		*30 - 110*	*04/22/25 08:31*	*05/20/25 11:45*	*1*
Y Carrier	*83.7*		*30 - 110*	*04/22/25 08:31*	*05/20/25 11:45*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-307
Lab Sample ID: 310-304624-8
Date Collected: 04/16/25 18:06
Matrix: Water
Date Received: 04/18/25 13:55

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.477	U	0.428	0.429	5.00	0.559	pCi/L		05/20/25 09:19	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	705.92				ft			04/16/25 18:06	1
Oxidation Reduction Potential	278.7				mV			04/16/25 18:06	1
Oxygen, Dissolved	-0.13				mg/L			04/16/25 18:06	1
Field pH	8.92				SU			04/16/25 18:06	1
Field Conductivity	274				umhos/cm			04/16/25 18:06	1
Field Temperature	12.3				Degrees C			04/16/25 18:06	1
Field Turbidity	4.08				NTU			04/16/25 18:06	1

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-308
Date Collected: 04/15/25 13:25
Date Received: 04/18/25 13:55

Lab Sample ID: 310-304624-9
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.1**		5.0	2.3	mg/L			04/23/25 17:11	5
Fluoride	<0.38		1.0	0.38	mg/L			04/23/25 17:11	5
Sulfate	**250**		5.0	2.1	mg/L			04/23/25 17:11	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.8**	**J**	2.0	1.0	ug/L		04/24/25 09:00	04/25/25 16:07	1
Arsenic	**40**		2.0	0.53	ug/L		04/24/25 09:00	04/25/25 16:07	1
Barium	**73**		2.0	0.66	ug/L		04/24/25 09:00	04/25/25 16:07	1
Beryllium	<0.33		1.0	0.33	ug/L		04/24/25 09:00	04/25/25 16:07	1
Boron	**6300**		400	330	ug/L		04/24/25 09:00	04/28/25 13:06	4
Cadmium	<0.10		0.20	0.10	ug/L		04/24/25 09:00	04/25/25 16:07	1
Calcium	**84**		0.50	0.19	mg/L		04/24/25 09:00	04/25/25 16:07	1
Chromium	<1.8		5.0	1.8	ug/L		04/24/25 09:00	04/25/25 16:07	1
Cobalt	<0.17		0.50	0.17	ug/L		04/24/25 09:00	04/25/25 16:07	1
Iron	<50		100	50	ug/L		04/24/25 09:00	04/25/25 16:07	1
Lead	<0.33		0.50	0.33	ug/L		04/24/25 09:00	04/25/25 16:07	1
Lithium	**44**		10	2.9	ug/L		04/24/25 09:00	04/25/25 16:07	1
Molybdenum	**87**		2.0	1.3	ug/L		04/24/25 09:00	04/25/25 16:07	1
Selenium	**1.5**	**J**	5.0	1.4	ug/L		04/24/25 09:00	04/25/25 16:07	1
Thallium	<0.57		1.0	0.57	ug/L		04/24/25 09:00	04/25/25 16:07	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		04/29/25 09:26	04/29/25 14:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**560**		50	36	mg/L			04/21/25 19:11	1
pH (SM 4500 H+ B)	**8.8**	**HF**	1.0	1.0	SU			04/19/25 02:20	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	0.0767	U	0.169	0.169	1.00	0.309	pCi/L	04/22/25 08:18	05/20/25 19:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*82.1*		*30 - 110*	*04/22/25 08:18*	*05/20/25 19:49*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	0.410	U	0.378	0.380	1.00	0.601	pCi/L	04/22/25 08:31	05/20/25 11:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*82.1*		*30 - 110*	*04/22/25 08:31*	*05/20/25 11:45*	*1*
Y Carrier	*84.9*		*30 - 110*	*04/22/25 08:31*	*05/20/25 11:45*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-308
Lab Sample ID: 310-304624-9
Date Collected: 04/15/25 13:25
Matrix: Water
Date Received: 04/18/25 13:55

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.486	U	0.414	0.416	5.00	0.601	pCi/L		05/20/25 09:19	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	704.28				ft			04/15/25 13:25	1
Oxidation Reduction Potential	33.7				mV			04/15/25 13:25	1
Oxygen, Dissolved	0.01				mg/L			04/15/25 13:25	1
Field pH	9.09				SU			04/15/25 13:25	1
Field Conductivity	753				umhos/cm			04/15/25 13:25	1
Field Temperature	13.7				Degrees C			04/15/25 13:25	1
Field Turbidity	2.44				NTU			04/15/25 13:25	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-309
Lab Sample ID: 310-304624-10
Date Collected: 04/16/25 12:44
Matrix: Water
Date Received: 04/18/25 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20		2.0	0.53	ug/L		04/23/25 09:30	04/23/25 20:00	1
Lithium	16		10	2.9	ug/L		04/23/25 09:30	04/23/25 20:00	1
Molybdenum	15		2.0	1.3	ug/L		04/23/25 09:30	04/23/25 20:00	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	702.43				ft			04/16/25 12:44	1
Oxidation Reduction Potential	-52.8				mV			04/16/25 12:44	1
Oxygen, Dissolved	-0.12				mg/L			04/16/25 12:44	1
Field pH	7.10				SU			04/16/25 12:44	1
Field Conductivity	1071				umhos/cm			04/16/25 12:44	1
Field Temperature	12.9				Degrees C			04/16/25 12:44	1
Field Turbidity	3.87				NTU			04/16/25 12:44	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-309A
Lab Sample ID: 310-304624-11
Date Collected: 04/16/25 13:44
Matrix: Water
Date Received: 04/18/25 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.79	J	2.0	0.53	ug/L		04/24/25 09:00	04/25/25 16:12	1
Lithium	5.4	J	10	2.9	ug/L		04/24/25 09:00	04/25/25 16:12	1
Molybdenum	9.5		2.0	1.3	ug/L		04/24/25 09:00	04/25/25 16:12	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	701.77				ft			04/16/25 13:44	1
Oxidation Reduction Potential	-97				mV			04/16/25 13:44	1
Oxygen, Dissolved	0.13				mg/L			04/16/25 13:44	1
Field pH	7.11				SU			04/16/25 13:44	1
Field Conductivity	853				umhos/cm			04/16/25 13:44	1
Field Temperature	15.4				Degrees C			04/16/25 13:44	1
Field Turbidity	5.19				NTU			04/16/25 13:44	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-310
Date Collected: 04/16/25 11:14
Date Received: 04/18/25 13:55

Lab Sample ID: 310-304624-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	18		2.0	0.53	ug/L		04/24/25 09:00	04/25/25 16:05	1
Lithium	16		10	2.9	ug/L		04/24/25 09:00	04/25/25 16:05	1
Molybdenum	30		2.0	1.3	ug/L		04/24/25 09:00	04/25/25 16:05	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	702.18				ft			04/16/25 11:14	1
Oxidation Reduction Potential	-65.2				mV			04/16/25 11:14	1
Oxygen, Dissolved	1.34				mg/L			04/16/25 11:14	1
Field pH	7.13				SU			04/16/25 11:14	1
Field Conductivity	1117				umhos/cm			04/16/25 11:14	1
Field Temperature	13.7				Degrees C			04/16/25 11:14	1
Field Turbidity	10.36				NTU			04/16/25 11:14	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-310A
Lab Sample ID: 310-304624-13
Date Collected: 04/16/25 09:31
Matrix: Water
Date Received: 04/18/25 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.53		2.0	0.53	ug/L		04/24/25 09:00	04/25/25 16:17	1
Lithium	**4.2**	**J**	10	2.9	ug/L		04/24/25 09:00	04/25/25 16:17	1
Molybdenum	**16**		2.0	1.3	ug/L		04/24/25 09:00	04/25/25 16:17	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	**702.50**				ft			04/16/25 09:31	1
Oxidation Reduction Potential	**-122.1**				mV			04/16/25 09:31	1
Oxygen, Dissolved	**0.13**				mg/L			04/16/25 09:31	1
Field pH	**7.28**				SU			04/16/25 09:31	1
Field Conductivity	**1119**				umhos/cm			04/16/25 09:31	1
Field Temperature	**14.6**				Degrees C			04/16/25 09:31	1
Field Turbidity	**4.87**				NTU			04/16/25 09:31	1

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-312
Date Collected: 04/15/25 15:36
Date Received: 04/18/25 13:55

Lab Sample ID: 310-304624-14
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**66**		5.0	2.3	mg/L			04/23/25 17:24	5
Fluoride	<0.38		1.0	0.38	mg/L			04/23/25 17:24	5
Sulfate	**38**		5.0	2.1	mg/L			04/23/25 17:24	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		04/24/25 09:00	04/25/25 15:55	1
Arsenic	**9.5**		2.0	0.53	ug/L		04/24/25 09:00	04/25/25 15:55	1
Barium	**160**		2.0	0.66	ug/L		04/24/25 09:00	04/25/25 15:55	1
Beryllium	<0.33		1.0	0.33	ug/L		04/24/25 09:00	04/25/25 15:55	1
Boron	**300**		100	82	ug/L		04/24/25 09:00	04/28/25 13:01	1
Cadmium	<0.10		0.20	0.10	ug/L		04/24/25 09:00	04/25/25 15:55	1
Calcium	**89**		0.50	0.19	mg/L		04/24/25 09:00	04/25/25 15:55	1
Chromium	<1.8		5.0	1.8	ug/L		04/24/25 09:00	04/25/25 15:55	1
Cobalt	<0.17		0.50	0.17	ug/L		04/24/25 09:00	04/25/25 15:55	1
Iron	**10000**		100	50	ug/L		04/24/25 09:00	04/25/25 15:55	1
Lead	<0.33		0.50	0.33	ug/L		04/24/25 09:00	04/25/25 15:55	1
Lithium	**4.3**	**J**	10	2.9	ug/L		04/24/25 09:00	04/25/25 15:55	1
Molybdenum	**5.3**		2.0	1.3	ug/L		04/24/25 09:00	04/25/25 15:55	1
Selenium	<1.4		5.0	1.4	ug/L		04/24/25 09:00	04/25/25 15:55	1
Thallium	<0.57		1.0	0.57	ug/L		04/24/25 09:00	04/25/25 15:55	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		04/29/25 09:26	04/29/25 14:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**460**		50	36	mg/L			04/21/25 19:11	1
pH (SM 4500 H+ B)	**8.0**	**HF**	1.0	1.0	SU			04/19/25 02:23	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	0.195	U	0.204	0.204	1.00	0.322	pCi/L	04/22/25 08:18	05/20/25 19:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*84.1*		*30 - 110*	*04/22/25 08:18*	*05/20/25 19:49*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	**0.782**		0.495	0.501	1.00	0.745	pCi/L	04/22/25 08:31	05/20/25 11:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*84.1*		*30 - 110*	*04/22/25 08:31*	*05/20/25 11:45*	*1*
Y Carrier	*79.3*		*30 - 110*	*04/22/25 08:31*	*05/20/25 11:45*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-312
Lab Sample ID: 310-304624-14
Date Collected: 04/15/25 15:36
Matrix: Water
Date Received: 04/18/25 13:55

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.977		0.535	0.541	5.00	0.745	pCi/L		05/20/25 09:19	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	703.13				ft			04/15/25 15:36	1
Oxidation Reduction Potential	-112.6				mV			04/15/25 15:36	1
Oxygen, Dissolved	-0.06				mg/L			04/15/25 15:36	1
Field pH	6.83				SU			04/15/25 15:36	1
Field Conductivity	806				umhos/cm			04/15/25 15:36	1
Field Temperature	18.2				Degrees C			04/15/25 15:36	1
Field Turbidity	13.39				NTU			04/15/25 15:36	1

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: Field Blank
Lab Sample ID: 310-304624-15
Date Collected: 04/15/25 18:10
Matrix: Water
Date Received: 04/18/25 13:55

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.45		1.0	0.45	mg/L			04/23/25 15:20	1
Fluoride	<0.075		0.20	0.075	mg/L			04/23/25 15:20	1
Sulfate	<0.42		1.0	0.42	mg/L			04/23/25 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		04/24/25 09:00	04/25/25 16:10	1
Arsenic	<0.53		2.0	0.53	ug/L		04/24/25 09:00	04/25/25 16:10	1
Barium	<0.66		2.0	0.66	ug/L		04/24/25 09:00	04/25/25 16:10	1
Beryllium	<0.33		1.0	0.33	ug/L		04/24/25 09:00	04/25/25 16:10	1
Boron	<82		100	82	ug/L		04/24/25 09:00	04/28/25 13:13	1
Cadmium	<0.10		0.20	0.10	ug/L		04/24/25 09:00	04/25/25 16:10	1
Calcium	<0.19		0.50	0.19	mg/L		04/24/25 09:00	04/25/25 16:10	1
Chromium	<1.8		5.0	1.8	ug/L		04/24/25 09:00	04/25/25 16:10	1
Cobalt	<0.17		0.50	0.17	ug/L		04/24/25 09:00	04/25/25 16:10	1
Iron	<50		100	50	ug/L		04/24/25 09:00	04/25/25 16:10	1
Lead	<0.33		0.50	0.33	ug/L		04/24/25 09:00	04/25/25 16:10	1
Lithium	<2.9		10	2.9	ug/L		04/24/25 09:00	04/25/25 16:10	1
Molybdenum	<1.3		2.0	1.3	ug/L		04/24/25 09:00	04/25/25 16:10	1
Selenium	<1.4		5.0	1.4	ug/L		04/24/25 09:00	04/25/25 16:10	1
Thallium	<0.57		1.0	0.57	ug/L		04/24/25 09:00	04/25/25 16:10	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		04/29/25 09:26	04/29/25 14:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	<36		50	36	mg/L			04/21/25 19:11	1
pH (SM 4500 H+ B)	**8.0**	**HF**	1.0	1.0	SU			04/19/25 02:28	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	-0.0757	U	0.135	0.135	1.00	0.326	pCi/L	04/22/25 08:18	05/20/25 19:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*84.4*		*30 - 110*	*04/22/25 08:18*	*05/20/25 19:49*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	0.450	U	0.371	0.373	1.00	0.579	pCi/L	04/22/25 08:31	05/20/25 11:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*84.4*		*30 - 110*	*04/22/25 08:31*	*05/20/25 11:48*	*1*
Y Carrier	*80.7*		*30 - 110*	*04/22/25 08:31*	*05/20/25 11:48*	*1*

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: Field Blank
Lab Sample ID: 310-304624-15
Date Collected: 04/15/25 18:10
Matrix: Water
Date Received: 04/18/25 13:55

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.450	U	0.395	0.397	5.00	0.579	pCi/L		05/20/25 09:19	1

Definitions/Glossary

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

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
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
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

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 310-452709/3
Matrix: Water
Analysis Batch: 452709

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.45		1.0	0.45	mg/L			04/23/25 14:49	1
Fluoride	<0.075		0.20	0.075	mg/L			04/23/25 14:49	1
Sulfate	<0.42		1.0	0.42	mg/L			04/23/25 14:49	1

Lab Sample ID: LCS 310-452709/4
Matrix: Water
Analysis Batch: 452709

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.1		mg/L		101	90 - 110
Fluoride	2.00	2.17		mg/L		109	90 - 110
Sulfate	10.0	10.2		mg/L		102	90 - 110

Lab Sample ID: 310-304624-15 MS
Matrix: Water
Analysis Batch: 452709

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<0.45		5.00	5.01		mg/L		100	80 - 120
Fluoride	<0.075		1.00	1.09		mg/L		109	80 - 120
Sulfate	<0.42		5.00	5.08		mg/L		102	80 - 120

Lab Sample ID: 310-304624-15 MSD
Matrix: Water
Analysis Batch: 452709

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<0.45		5.00	4.80		mg/L		96	80 - 120	4	15
Fluoride	<0.075		1.00	1.03		mg/L		103	80 - 120	6	15
Sulfate	<0.42		5.00	4.93		mg/L		99	80 - 120	3	15

Lab Sample ID: MB 310-452736/3
Matrix: Water
Analysis Batch: 452736

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.45		1.0	0.45	mg/L			04/23/25 11:30	1
Fluoride	<0.075		0.20	0.075	mg/L			04/23/25 11:30	1
Sulfate	<0.42		1.0	0.42	mg/L			04/23/25 11:30	1

Lab Sample ID: LCS 310-452736/4
Matrix: Water
Analysis Batch: 452736

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.0		mg/L		100	90 - 110
Fluoride	2.00	2.07		mg/L		104	90 - 110
Sulfate	10.0	9.98		mg/L		100	90 - 110

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-452354/1-A
Matrix: Water
Analysis Batch: 452556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 452354

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		04/23/25 09:30	04/23/25 18:34	1
Arsenic	<0.53		2.0	0.53	ug/L		04/23/25 09:30	04/23/25 18:34	1
Barium	<0.66		2.0	0.66	ug/L		04/23/25 09:30	04/23/25 18:34	1
Beryllium	<0.33		1.0	0.33	ug/L		04/23/25 09:30	04/23/25 18:34	1
Cadmium	<0.10		0.20	0.10	ug/L		04/23/25 09:30	04/23/25 18:34	1
Calcium	<0.19		0.50	0.19	mg/L		04/23/25 09:30	04/23/25 18:34	1
Chromium	<1.8		5.0	1.8	ug/L		04/23/25 09:30	04/23/25 18:34	1
Cobalt	<0.17		0.50	0.17	ug/L		04/23/25 09:30	04/23/25 18:34	1
Iron	<50		100	50	ug/L		04/23/25 09:30	04/23/25 18:34	1
Lead	<0.33		0.50	0.33	ug/L		04/23/25 09:30	04/23/25 18:34	1
Lithium	<2.9		10	2.9	ug/L		04/23/25 09:30	04/23/25 18:34	1
Molybdenum	<1.3		2.0	1.3	ug/L		04/23/25 09:30	04/23/25 18:34	1
Selenium	<1.4		5.0	1.4	ug/L		04/23/25 09:30	04/23/25 18:34	1
Thallium	<0.57		1.0	0.57	ug/L		04/23/25 09:30	04/23/25 18:34	1

Lab Sample ID: MB 310-452354/1-A
Matrix: Water
Analysis Batch: 452632

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 452354

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<82		100	82	ug/L		04/23/25 09:30	04/24/25 14:19	1

Lab Sample ID: LCS 310-452354/2-A
Matrix: Water
Analysis Batch: 452556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 452354

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	200	205		ug/L		102	80 - 120
Arsenic	200	203		ug/L		102	80 - 120
Barium	100	103		ug/L		103	80 - 120
Beryllium	100	97.4		ug/L		97	80 - 120
Cadmium	100	98.9		ug/L		99	80 - 120
Calcium	2.00	1.99		mg/L		100	80 - 120
Chromium	100	99.8		ug/L		100	80 - 120
Cobalt	100	101		ug/L		101	80 - 120
Iron	200	212		ug/L		106	80 - 120
Lead	200	197		ug/L		98	80 - 120
Lithium	200	211		ug/L		105	80 - 120
Molybdenum	200	198		ug/L		99	80 - 120
Selenium	400	381		ug/L		95	80 - 120
Thallium	100	99.3		ug/L		99	80 - 120

Lab Sample ID: LCS 310-452354/2-A
Matrix: Water
Analysis Batch: 452632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 452354

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	200	192		ug/L		96	80 - 120

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

Lab Sample ID: MB 310-452473/1-A
Matrix: Water
Analysis Batch: 452834

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 452473

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		04/24/25 09:00	04/25/25 15:10	1
Arsenic	<0.53		2.0	0.53	ug/L		04/24/25 09:00	04/25/25 15:10	1
Barium	<0.66		2.0	0.66	ug/L		04/24/25 09:00	04/25/25 15:10	1
Beryllium	<0.33		1.0	0.33	ug/L		04/24/25 09:00	04/25/25 15:10	1
Cadmium	<0.10		0.20	0.10	ug/L		04/24/25 09:00	04/25/25 15:10	1
Calcium	<0.19		0.50	0.19	mg/L		04/24/25 09:00	04/25/25 15:10	1
Chromium	<1.8		5.0	1.8	ug/L		04/24/25 09:00	04/25/25 15:10	1
Cobalt	<0.17		0.50	0.17	ug/L		04/24/25 09:00	04/25/25 15:10	1
Iron	<50		100	50	ug/L		04/24/25 09:00	04/25/25 15:10	1
Lead	<0.33		0.50	0.33	ug/L		04/24/25 09:00	04/25/25 15:10	1
Lithium	<2.9		10	2.9	ug/L		04/24/25 09:00	04/25/25 15:10	1
Molybdenum	<1.3		2.0	1.3	ug/L		04/24/25 09:00	04/25/25 15:10	1
Selenium	<1.4		5.0	1.4	ug/L		04/24/25 09:00	04/25/25 15:10	1
Thallium	<0.57		1.0	0.57	ug/L		04/24/25 09:00	04/25/25 15:10	1

Lab Sample ID: MB 310-452473/1-A
Matrix: Water
Analysis Batch: 452946

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 452473

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<82		100	82	ug/L		04/24/25 09:00	04/28/25 12:33	1

Lab Sample ID: LCS 310-452473/2-A
Matrix: Water
Analysis Batch: 452834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 452473

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	200	221		ug/L		110	80 - 120
Arsenic	200	199		ug/L		100	80 - 120
Barium	100	100		ug/L		100	80 - 120
Beryllium	100	93.5		ug/L		94	80 - 120
Cadmium	100	98.9		ug/L		99	80 - 120
Calcium	2.00	1.72		mg/L		86	80 - 120
Chromium	100	97.3		ug/L		97	80 - 120
Cobalt	100	100		ug/L		100	80 - 120
Iron	200	208		ug/L		104	80 - 120
Lead	200	207		ug/L		103	80 - 120
Lithium	200	196		ug/L		98	80 - 120
Molybdenum	200	197		ug/L		99	80 - 120
Selenium	400	378		ug/L		94	80 - 120
Thallium	100	93.3		ug/L		93	80 - 120

Lab Sample ID: LCS 310-452473/2-A
Matrix: Water
Analysis Batch: 452946

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 452473

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	200	190		ug/L		95	80 - 120

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

Lab Sample ID: 310-304624-4 DU
Matrix: Water
Analysis Batch: 452834

Client Sample ID: MW-304
Prep Type: Total/NA
Prep Batch: 452473

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<1.0		<1.0		ug/L		NC	20
Arsenic	18		18.4		ug/L		0	20
Barium	110		111		ug/L		2	20
Beryllium	<0.33		<0.33		ug/L		NC	20
Cadmium	<0.10		<0.10		ug/L		NC	20
Calcium	130		135		mg/L		0.4	20
Chromium	<1.8		<1.8		ug/L		NC	20
Cobalt	0.67		0.658		ug/L		1	20
Iron	2200		2230		ug/L		1	20
Lead	<0.33		<0.33		ug/L		NC	20
Lithium	14		14.4		ug/L		0.06	20
Molybdenum	29		29.2		ug/L		0.9	20
Selenium	<1.4		<1.4		ug/L		NC	20
Thallium	<0.57		<0.57		ug/L		NC	20

Lab Sample ID: 310-304624-4 DU
Matrix: Water
Analysis Batch: 452946

Client Sample ID: MW-304
Prep Type: Total/NA
Prep Batch: 452473

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Boron	1200		1220		ug/L		2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-452863/1-A
Matrix: Water
Analysis Batch: 453118

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 452863

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		04/29/25 09:26	04/29/25 13:58	1

Lab Sample ID: LCS 310-452863/2-A
Matrix: Water
Analysis Batch: 453118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 452863

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.67	1.67		ug/L		100	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 310-452247/1
Matrix: Water
Analysis Batch: 452247

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<36		50	36	mg/L			04/21/25 19:11	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 310-452247/2
Matrix: Water
Analysis Batch: 452247

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	964		mg/L		96	88 - 110		

Lab Sample ID: MB 310-452248/1
Matrix: Water
Analysis Batch: 452248

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<36		50	36	mg/L			04/21/25 19:14	1

Lab Sample ID: LCS 310-452248/2
Matrix: Water
Analysis Batch: 452248

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	982		mg/L		98	88 - 110		

Lab Sample ID: MB 310-452347/1
Matrix: Water
Analysis Batch: 452347

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<36		50	36	mg/L			04/22/25 14:38	1

Lab Sample ID: LCS 310-452347/2
Matrix: Water
Analysis Batch: 452347

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	974		mg/L		97	88 - 110		

Lab Sample ID: 310-304624-1 DU
Matrix: Water
Analysis Batch: 452347

Client Sample ID: MW-301
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	750			742		mg/L				2	16

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 310-452100/59
Matrix: Water
Analysis Batch: 452100

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		101	98 - 102		

Method: SM 4500 H+ B - pH (Continued)

Lab Sample ID: 310-304624-5 DU
Matrix: Water
Analysis Batch: 452100

Client Sample ID: MW-305
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	7.9	HF		7.9		SU				0.6	20

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-713703/1-A
Matrix: Water
Analysis Batch: 718272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 713703

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	0.07209	U	0.174	0.174	1.00	0.322	pCi/L	04/22/25 08:18	05/20/25 19:43	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*82.4*		*30 - 110*	*04/22/25 08:18*	*05/20/25 19:43*	*1*

Lab Sample ID: LCS 160-713703/2-A
Matrix: Water
Analysis Batch: 718272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 713703

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium 226			9.58	8.117		1.13	1.00	0.333	pCi/L	85	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Barium	*88.0*		*30 - 110*

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-713706/1-A
Matrix: Water
Analysis Batch: 718433

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 713706

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	0.2784	U	0.377	0.378	1.00	0.630	pCi/L	04/22/25 08:31	05/20/25 11:48	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*82.4*		*30 - 110*	*04/22/25 08:31*	*05/20/25 11:48*	*1*
Y Carrier	*81.5*		*30 - 110*	*04/22/25 08:31*	*05/20/25 11:48*	*1*

Lab Sample ID: LCS 160-713706/2-A
Matrix: Water
Analysis Batch: 718433

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 713706

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium 228			9.43	9.349		1.27	1.00	0.503	pCi/L	99	75 - 125		

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-713706/2-A
Matrix: Water
Analysis Batch: 718433

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 713706

Carrier	LCS %Yield	LCS Qualifier	Limits
Barium	88.0		30 - 110
Y Carrier	83.0		30 - 110

QC Association Summary

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

HPLC/IC

Analysis Batch: 452709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304624-15	Field Blank	Total/NA	Water	9056A	
MB 310-452709/3	Method Blank	Total/NA	Water	9056A	
LCS 310-452709/4	Lab Control Sample	Total/NA	Water	9056A	
310-304624-15 MS	Field Blank	Total/NA	Water	9056A	
310-304624-15 MSD	Field Blank	Total/NA	Water	9056A	

Analysis Batch: 452736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304624-1	MW-301	Total/NA	Water	9056A	
310-304624-2	MW-302	Total/NA	Water	9056A	
310-304624-3	MW-303	Total/NA	Water	9056A	
310-304624-4	MW-304	Total/NA	Water	9056A	
310-304624-5	MW-305	Total/NA	Water	9056A	
310-304624-6	MW-306	Total/NA	Water	9056A	
310-304624-8	MW-307	Total/NA	Water	9056A	
310-304624-9	MW-308	Total/NA	Water	9056A	
310-304624-14	MW-312	Total/NA	Water	9056A	
MB 310-452736/3	Method Blank	Total/NA	Water	9056A	
LCS 310-452736/4	Lab Control Sample	Total/NA	Water	9056A	

Metals

Prep Batch: 452354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304624-1	MW-301	Total/NA	Water	3005A	
310-304624-2	MW-302	Total/NA	Water	3005A	
310-304624-5	MW-305	Total/NA	Water	3005A	
310-304624-6	MW-306	Total/NA	Water	3005A	
310-304624-7	MW-306A	Total/NA	Water	3005A	
310-304624-8	MW-307	Total/NA	Water	3005A	
310-304624-10	MW-309	Total/NA	Water	3005A	
MB 310-452354/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-452354/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 452473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304624-3	MW-303	Total/NA	Water	3005A	
310-304624-4	MW-304	Total/NA	Water	3005A	
310-304624-9	MW-308	Total/NA	Water	3005A	
310-304624-11	MW-309A	Total/NA	Water	3005A	
310-304624-12	MW-310	Total/NA	Water	3005A	
310-304624-13	MW-310A	Total/NA	Water	3005A	
310-304624-14	MW-312	Total/NA	Water	3005A	
310-304624-15	Field Blank	Total/NA	Water	3005A	
MB 310-452473/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-452473/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-304624-4 DU	MW-304	Total/NA	Water	3005A	

Analysis Batch: 452556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304624-1	MW-301	Total/NA	Water	6020B	452354

Metals (Continued)

Analysis Batch: 452556 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304624-2	MW-302	Total/NA	Water	6020B	452354
310-304624-5	MW-305	Total/NA	Water	6020B	452354
310-304624-6	MW-306	Total/NA	Water	6020B	452354
310-304624-7	MW-306A	Total/NA	Water	6020B	452354
310-304624-8	MW-307	Total/NA	Water	6020B	452354
310-304624-10	MW-309	Total/NA	Water	6020B	452354
MB 310-452354/1-A	Method Blank	Total/NA	Water	6020B	452354
LCS 310-452354/2-A	Lab Control Sample	Total/NA	Water	6020B	452354

Analysis Batch: 452632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-452354/1-A	Method Blank	Total/NA	Water	6020B	452354
LCS 310-452354/2-A	Lab Control Sample	Total/NA	Water	6020B	452354

Analysis Batch: 452834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304624-3	MW-303	Total/NA	Water	6020B	452473
310-304624-4	MW-304	Total/NA	Water	6020B	452473
310-304624-9	MW-308	Total/NA	Water	6020B	452473
310-304624-11	MW-309A	Total/NA	Water	6020B	452473
310-304624-12	MW-310	Total/NA	Water	6020B	452473
310-304624-13	MW-310A	Total/NA	Water	6020B	452473
310-304624-14	MW-312	Total/NA	Water	6020B	452473
310-304624-15	Field Blank	Total/NA	Water	6020B	452473
MB 310-452473/1-A	Method Blank	Total/NA	Water	6020B	452473
LCS 310-452473/2-A	Lab Control Sample	Total/NA	Water	6020B	452473
310-304624-4 DU	MW-304	Total/NA	Water	6020B	452473

Prep Batch: 452863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304624-1	MW-301	Total/NA	Water	7470A	
310-304624-2	MW-302	Total/NA	Water	7470A	
310-304624-3	MW-303	Total/NA	Water	7470A	
310-304624-4	MW-304	Total/NA	Water	7470A	
310-304624-5	MW-305	Total/NA	Water	7470A	
310-304624-6	MW-306	Total/NA	Water	7470A	
310-304624-8	MW-307	Total/NA	Water	7470A	
310-304624-9	MW-308	Total/NA	Water	7470A	
310-304624-14	MW-312	Total/NA	Water	7470A	
310-304624-15	Field Blank	Total/NA	Water	7470A	
MB 310-452863/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-452863/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 452946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304624-3	MW-303	Total/NA	Water	6020B	452473
310-304624-4	MW-304	Total/NA	Water	6020B	452473
310-304624-9	MW-308	Total/NA	Water	6020B	452473
310-304624-14	MW-312	Total/NA	Water	6020B	452473
310-304624-15	Field Blank	Total/NA	Water	6020B	452473
MB 310-452473/1-A	Method Blank	Total/NA	Water	6020B	452473

Metals (Continued)

Analysis Batch: 452946 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-452473/2-A	Lab Control Sample	Total/NA	Water	6020B	452473
310-304624-4 DU	MW-304	Total/NA	Water	6020B	452473

Analysis Batch: 453118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304624-1	MW-301	Total/NA	Water	7470A	452863
310-304624-2	MW-302	Total/NA	Water	7470A	452863
310-304624-3	MW-303	Total/NA	Water	7470A	452863
310-304624-4	MW-304	Total/NA	Water	7470A	452863
310-304624-5	MW-305	Total/NA	Water	7470A	452863
310-304624-6	MW-306	Total/NA	Water	7470A	452863
310-304624-8	MW-307	Total/NA	Water	7470A	452863
310-304624-9	MW-308	Total/NA	Water	7470A	452863
310-304624-14	MW-312	Total/NA	Water	7470A	452863
310-304624-15	Field Blank	Total/NA	Water	7470A	452863
MB 310-452863/1-A	Method Blank	Total/NA	Water	7470A	452863
LCS 310-452863/2-A	Lab Control Sample	Total/NA	Water	7470A	452863

General Chemistry

Analysis Batch: 452100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304624-1	MW-301	Total/NA	Water	SM 4500 H+ B	
310-304624-2	MW-302	Total/NA	Water	SM 4500 H+ B	
310-304624-3	MW-303	Total/NA	Water	SM 4500 H+ B	
310-304624-4	MW-304	Total/NA	Water	SM 4500 H+ B	
310-304624-5	MW-305	Total/NA	Water	SM 4500 H+ B	
310-304624-6	MW-306	Total/NA	Water	SM 4500 H+ B	
310-304624-8	MW-307	Total/NA	Water	SM 4500 H+ B	
310-304624-9	MW-308	Total/NA	Water	SM 4500 H+ B	
310-304624-14	MW-312	Total/NA	Water	SM 4500 H+ B	
310-304624-15	Field Blank	Total/NA	Water	SM 4500 H+ B	
LCS 310-452100/59	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
310-304624-5 DU	MW-305	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 452247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304624-3	MW-303	Total/NA	Water	SM 2540C	
310-304624-4	MW-304	Total/NA	Water	SM 2540C	
310-304624-9	MW-308	Total/NA	Water	SM 2540C	
310-304624-14	MW-312	Total/NA	Water	SM 2540C	
310-304624-15	Field Blank	Total/NA	Water	SM 2540C	
MB 310-452247/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-452247/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 452248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304624-5	MW-305	Total/NA	Water	SM 2540C	
310-304624-6	MW-306	Total/NA	Water	SM 2540C	
310-304624-8	MW-307	Total/NA	Water	SM 2540C	
MB 310-452248/1	Method Blank	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 452248 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-452248/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 452347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304624-1	MW-301	Total/NA	Water	SM 2540C	
310-304624-2	MW-302	Total/NA	Water	SM 2540C	
MB 310-452347/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-452347/2	Lab Control Sample	Total/NA	Water	SM 2540C	
310-304624-1 DU	MW-301	Total/NA	Water	SM 2540C	

Rad

Prep Batch: 713703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304624-1	MW-301	Total/NA	Water	PrecSep-21	
310-304624-2	MW-302	Total/NA	Water	PrecSep-21	
310-304624-3	MW-303	Total/NA	Water	PrecSep-21	
310-304624-4	MW-304	Total/NA	Water	PrecSep-21	
310-304624-5	MW-305	Total/NA	Water	PrecSep-21	
310-304624-6	MW-306	Total/NA	Water	PrecSep-21	
310-304624-8	MW-307	Total/NA	Water	PrecSep-21	
310-304624-9	MW-308	Total/NA	Water	PrecSep-21	
310-304624-14	MW-312	Total/NA	Water	PrecSep-21	
310-304624-15	Field Blank	Total/NA	Water	PrecSep-21	
MB 160-713703/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-713703/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 713706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304624-1	MW-301	Total/NA	Water	PrecSep_0	
310-304624-2	MW-302	Total/NA	Water	PrecSep_0	
310-304624-3	MW-303	Total/NA	Water	PrecSep_0	
310-304624-4	MW-304	Total/NA	Water	PrecSep_0	
310-304624-5	MW-305	Total/NA	Water	PrecSep_0	
310-304624-6	MW-306	Total/NA	Water	PrecSep_0	
310-304624-8	MW-307	Total/NA	Water	PrecSep_0	
310-304624-9	MW-308	Total/NA	Water	PrecSep_0	
310-304624-14	MW-312	Total/NA	Water	PrecSep_0	
310-304624-15	Field Blank	Total/NA	Water	PrecSep_0	
MB 160-713706/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-713706/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Field Service / Mobile Lab

Analysis Batch: 452990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304624-1	MW-301	Total/NA	Water	Field Sampling	
310-304624-2	MW-302	Total/NA	Water	Field Sampling	
310-304624-3	MW-303	Total/NA	Water	Field Sampling	
310-304624-4	MW-304	Total/NA	Water	Field Sampling	
310-304624-5	MW-305	Total/NA	Water	Field Sampling	
310-304624-6	MW-306	Total/NA	Water	Field Sampling	

Field Service / Mobile Lab (Continued)

Analysis Batch: 452990 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-304624-7	MW-306A	Total/NA	Water	Field Sampling	
310-304624-8	MW-307	Total/NA	Water	Field Sampling	
310-304624-9	MW-308	Total/NA	Water	Field Sampling	
310-304624-10	MW-309	Total/NA	Water	Field Sampling	
310-304624-11	MW-309A	Total/NA	Water	Field Sampling	
310-304624-12	MW-310	Total/NA	Water	Field Sampling	
310-304624-13	MW-310A	Total/NA	Water	Field Sampling	
310-304624-14	MW-312	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-301
Lab Sample ID: 310-304624-1
Date Collected: 04/17/25 09:25
Matrix: Water
Date Received: 04/18/25 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	452736	ZRI4	EET CF	04/23/25 15:13
Total/NA	Prep	3005A			452354	QTZ5	EET CF	04/23/25 09:30
Total/NA	Analysis	6020B		1	452556	ZRI4	EET CF	04/23/25 19:48
Total/NA	Prep	7470A			452863	F5MW	EET CF	04/29/25 09:26
Total/NA	Analysis	7470A		1	453118	F5MW	EET CF	04/29/25 14:27
Total/NA	Analysis	SM 2540C		1	452347	XJ7V	EET CF	04/22/25 14:38
Total/NA	Analysis	SM 4500 H+ B		1	452100	ZJX4	EET CF	04/19/25 01:39
Total/NA	Prep	PrecSep-21			713703	TYB	EET SL	04/22/25 08:18
Total/NA	Analysis	903.0		1	718272	SWS	EET SL	05/20/25 19:44
Total/NA	Prep	PrecSep_0			713706	TYB	EET SL	04/22/25 08:31
Total/NA	Analysis	904.0		1	718442	SWS	EET SL	05/20/25 11:45
Total/NA	Analysis	Ra226_Ra228 Pos		1	718403	SCB	EET SL	05/20/25 09:19
Total/NA	Analysis	Field Sampling		1	452990	FQT6	EET CF	04/17/25 09:25

Client Sample ID: MW-302
Lab Sample ID: 310-304624-2
Date Collected: 04/17/25 11:07
Matrix: Water
Date Received: 04/18/25 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	452736	ZRI4	EET CF	04/23/25 15:26
Total/NA	Prep	3005A			452354	QTZ5	EET CF	04/23/25 09:30
Total/NA	Analysis	6020B		1	452556	ZRI4	EET CF	04/23/25 19:51
Total/NA	Prep	7470A			452863	F5MW	EET CF	04/29/25 09:26
Total/NA	Analysis	7470A		1	453118	F5MW	EET CF	04/29/25 14:29
Total/NA	Analysis	SM 2540C		1	452347	XJ7V	EET CF	04/22/25 14:38
Total/NA	Analysis	SM 4500 H+ B		1	452100	ZJX4	EET CF	04/19/25 01:44
Total/NA	Prep	PrecSep-21			713703	TYB	EET SL	04/22/25 08:18
Total/NA	Analysis	903.0		1	718272	SWS	EET SL	05/20/25 19:44
Total/NA	Prep	PrecSep_0			713706	TYB	EET SL	04/22/25 08:31
Total/NA	Analysis	904.0		1	718442	SWS	EET SL	05/20/25 11:45
Total/NA	Analysis	Ra226_Ra228 Pos		1	718403	SCB	EET SL	05/20/25 09:19
Total/NA	Analysis	Field Sampling		1	452990	FQT6	EET CF	04/17/25 11:07

Client Sample ID: MW-303
Lab Sample ID: 310-304624-3
Date Collected: 04/15/25 16:45
Matrix: Water
Date Received: 04/18/25 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	452736	ZRI4	EET CF	04/23/25 15:39
Total/NA	Prep	3005A			452473	QTZ5	EET CF	04/24/25 09:00
Total/NA	Analysis	6020B		1	452834	NFT2	EET CF	04/25/25 15:46
Total/NA	Prep	3005A			452473	QTZ5	EET CF	04/24/25 09:00
Total/NA	Analysis	6020B		1	452946	NFT2	EET CF	04/28/25 12:54

Lab Chronicle

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-303
Lab Sample ID: 310-304624-3
Date Collected: 04/15/25 16:45
Matrix: Water
Date Received: 04/18/25 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			452863	F5MW	EET CF	04/29/25 09:26
Total/NA	Analysis	7470A		1	453118	F5MW	EET CF	04/29/25 14:32
Total/NA	Analysis	SM 2540C		1	452247	MDU9	EET CF	04/21/25 19:11
Total/NA	Analysis	SM 4500 H+ B		1	452100	ZJX4	EET CF	04/19/25 01:48
Total/NA	Prep	PrecSep-21			713703	TYB	EET SL	04/22/25 08:18
Total/NA	Analysis	903.0		1	718272	SWS	EET SL	05/20/25 19:44
Total/NA	Prep	PrecSep_0			713706	TYB	EET SL	04/22/25 08:31
Total/NA	Analysis	904.0		1	718442	SWS	EET SL	05/20/25 11:45
Total/NA	Analysis	Ra226_Ra228 Pos		1	718403	SCB	EET SL	05/20/25 09:19
Total/NA	Analysis	Field Sampling		1	452990	FQT6	EET CF	04/15/25 16:45

Client Sample ID: MW-304
Lab Sample ID: 310-304624-4
Date Collected: 04/15/25 17:43
Matrix: Water
Date Received: 04/18/25 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	452736	ZRI4	EET CF	04/23/25 15:52
Total/NA	Prep	3005A			452473	QTZ5	EET CF	04/24/25 09:00
Total/NA	Analysis	6020B		1	452834	NFT2	EET CF	04/25/25 15:51
Total/NA	Prep	3005A			452473	QTZ5	EET CF	04/24/25 09:00
Total/NA	Analysis	6020B		1	452946	NFT2	EET CF	04/28/25 12:56
Total/NA	Prep	7470A			452863	F5MW	EET CF	04/29/25 09:26
Total/NA	Analysis	7470A		1	453118	F5MW	EET CF	04/29/25 14:34
Total/NA	Analysis	SM 2540C		1	452247	MDU9	EET CF	04/21/25 19:11
Total/NA	Analysis	SM 4500 H+ B		1	452100	ZJX4	EET CF	04/19/25 01:59
Total/NA	Prep	PrecSep-21			713703	TYB	EET SL	04/22/25 08:18
Total/NA	Analysis	903.0		1	718272	SWS	EET SL	05/20/25 19:44
Total/NA	Prep	PrecSep_0			713706	TYB	EET SL	04/22/25 08:31
Total/NA	Analysis	904.0		1	718442	SWS	EET SL	05/20/25 11:45
Total/NA	Analysis	Ra226_Ra228 Pos		1	718403	SCB	EET SL	05/20/25 09:19
Total/NA	Analysis	Field Sampling		1	452990	FQT6	EET CF	04/15/25 17:43

Client Sample ID: MW-305
Lab Sample ID: 310-304624-5
Date Collected: 04/16/25 08:13
Matrix: Water
Date Received: 04/18/25 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	452736	ZRI4	EET CF	04/23/25 16:31
Total/NA	Prep	3005A			452354	QTZ5	EET CF	04/23/25 09:30
Total/NA	Analysis	6020B		1	452556	ZRI4	EET CF	04/23/25 20:03
Total/NA	Prep	7470A			452863	F5MW	EET CF	04/29/25 09:26
Total/NA	Analysis	7470A		1	453118	F5MW	EET CF	04/29/25 14:36
Total/NA	Analysis	SM 2540C		1	452248	MDU9	EET CF	04/21/25 19:14
Total/NA	Analysis	SM 4500 H+ B		1	452100	ZJX4	EET CF	04/19/25 02:03

Lab Chronicle

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-305
Lab Sample ID: 310-304624-5
Date Collected: 04/16/25 08:13
Matrix: Water
Date Received: 04/18/25 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			713703	TYB	EET SL	04/22/25 08:18
Total/NA	Analysis	903.0		1	718272	SWS	EET SL	05/20/25 19:44
Total/NA	Prep	PrecSep_0			713706	TYB	EET SL	04/22/25 08:31
Total/NA	Analysis	904.0		1	718442	SWS	EET SL	05/20/25 11:46
Total/NA	Analysis	Ra226_Ra228 Pos		1	718403	SCB	EET SL	05/20/25 09:19
Total/NA	Analysis	Field Sampling		1	452990	FQT6	EET CF	04/16/25 08:13

Client Sample ID: MW-306
Lab Sample ID: 310-304624-6
Date Collected: 04/16/25 15:12
Matrix: Water
Date Received: 04/18/25 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	452736	ZRI4	EET CF	04/23/25 16:45
Total/NA	Prep	3005A			452354	QTZ5	EET CF	04/23/25 09:30
Total/NA	Analysis	6020B		1	452556	ZRI4	EET CF	04/23/25 19:42
Total/NA	Prep	7470A			452863	F5MW	EET CF	04/29/25 09:26
Total/NA	Analysis	7470A		1	453118	F5MW	EET CF	04/29/25 14:38
Total/NA	Analysis	SM 2540C		1	452248	MDU9	EET CF	04/21/25 19:14
Total/NA	Analysis	SM 4500 H+ B		1	452100	ZJX4	EET CF	04/19/25 02:12
Total/NA	Prep	PrecSep-21			713703	TYB	EET SL	04/22/25 08:18
Total/NA	Analysis	903.0		1	718272	SWS	EET SL	05/20/25 19:45
Total/NA	Prep	PrecSep_0			713706	TYB	EET SL	04/22/25 08:31
Total/NA	Analysis	904.0		1	718442	SWS	EET SL	05/20/25 11:45
Total/NA	Analysis	Ra226_Ra228 Pos		1	718403	SCB	EET SL	05/20/25 09:19
Total/NA	Analysis	Field Sampling		1	452990	FQT6	EET CF	04/16/25 15:12

Client Sample ID: MW-306A
Lab Sample ID: 310-304624-7
Date Collected: 04/16/25 16:31
Matrix: Water
Date Received: 04/18/25 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			452354	QTZ5	EET CF	04/23/25 09:30
Total/NA	Analysis	6020B		1	452556	ZRI4	EET CF	04/23/25 19:45
Total/NA	Analysis	Field Sampling		1	452990	FQT6	EET CF	04/16/25 16:31

Client Sample ID: MW-307
Lab Sample ID: 310-304624-8
Date Collected: 04/16/25 18:06
Matrix: Water
Date Received: 04/18/25 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	452736	ZRI4	EET CF	04/23/25 16:58
Total/NA	Prep	3005A			452354	QTZ5	EET CF	04/23/25 09:30
Total/NA	Analysis	6020B		1	452556	ZRI4	EET CF	04/23/25 19:40

Lab Chronicle

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-307
Lab Sample ID: 310-304624-8
Date Collected: 04/16/25 18:06
Matrix: Water
Date Received: 04/18/25 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			452863	F5MW	EET CF	04/29/25 09:26
Total/NA	Analysis	7470A		1	453118	F5MW	EET CF	04/29/25 14:40
Total/NA	Analysis	SM 2540C		1	452248	MDU9	EET CF	04/21/25 19:14
Total/NA	Analysis	SM 4500 H+ B		1	452100	ZJX4	EET CF	04/19/25 02:16
Total/NA	Prep	PrecSep-21			713703	TYB	EET SL	04/22/25 08:18
Total/NA	Analysis	903.0		1	718272	SWS	EET SL	05/20/25 19:45
Total/NA	Prep	PrecSep_0			713706	TYB	EET SL	04/22/25 08:31
Total/NA	Analysis	904.0		1	718442	SWS	EET SL	05/20/25 11:45
Total/NA	Analysis	Ra226_Ra228 Pos		1	718403	SCB	EET SL	05/20/25 09:19
Total/NA	Analysis	Field Sampling		1	452990	FQT6	EET CF	04/16/25 18:06

Client Sample ID: MW-308
Lab Sample ID: 310-304624-9
Date Collected: 04/15/25 13:25
Matrix: Water
Date Received: 04/18/25 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	452736	ZRI4	EET CF	04/23/25 17:11
Total/NA	Prep	3005A			452473	QTZ5	EET CF	04/24/25 09:00
Total/NA	Analysis	6020B		1	452834	NFT2	EET CF	04/25/25 16:07
Total/NA	Prep	3005A			452473	QTZ5	EET CF	04/24/25 09:00
Total/NA	Analysis	6020B		4	452946	NFT2	EET CF	04/28/25 13:06
Total/NA	Prep	7470A			452863	F5MW	EET CF	04/29/25 09:26
Total/NA	Analysis	7470A		1	453118	F5MW	EET CF	04/29/25 14:42
Total/NA	Analysis	SM 2540C		1	452247	MDU9	EET CF	04/21/25 19:11
Total/NA	Analysis	SM 4500 H+ B		1	452100	ZJX4	EET CF	04/19/25 02:20
Total/NA	Prep	PrecSep-21			713703	TYB	EET SL	04/22/25 08:18
Total/NA	Analysis	903.0		1	718429	SWS	EET SL	05/20/25 19:49
Total/NA	Prep	PrecSep_0			713706	TYB	EET SL	04/22/25 08:31
Total/NA	Analysis	904.0		1	718442	SWS	EET SL	05/20/25 11:45
Total/NA	Analysis	Ra226_Ra228 Pos		1	718403	SCB	EET SL	05/20/25 09:19
Total/NA	Analysis	Field Sampling		1	452990	FQT6	EET CF	04/15/25 13:25

Client Sample ID: MW-309
Lab Sample ID: 310-304624-10
Date Collected: 04/16/25 12:44
Matrix: Water
Date Received: 04/18/25 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			452354	QTZ5	EET CF	04/23/25 09:30
Total/NA	Analysis	6020B		1	452556	ZRI4	EET CF	04/23/25 20:00
Total/NA	Analysis	Field Sampling		1	452990	FQT6	EET CF	04/16/25 12:44

Lab Chronicle

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: MW-309A
Lab Sample ID: 310-304624-11
Date Collected: 04/16/25 13:44
Matrix: Water
Date Received: 04/18/25 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			452473	QTZ5	EET CF	04/24/25 09:00
Total/NA	Analysis	6020B		1	452834	NFT2	EET CF	04/25/25 16:12
Total/NA	Analysis	Field Sampling		1	452990	FQT6	EET CF	04/16/25 13:44

Client Sample ID: MW-310
Lab Sample ID: 310-304624-12
Date Collected: 04/16/25 11:14
Matrix: Water
Date Received: 04/18/25 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			452473	QTZ5	EET CF	04/24/25 09:00
Total/NA	Analysis	6020B		1	452834	NFT2	EET CF	04/25/25 16:05
Total/NA	Analysis	Field Sampling		1	452990	FQT6	EET CF	04/16/25 11:14

Client Sample ID: MW-310A
Lab Sample ID: 310-304624-13
Date Collected: 04/16/25 09:31
Matrix: Water
Date Received: 04/18/25 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			452473	QTZ5	EET CF	04/24/25 09:00
Total/NA	Analysis	6020B		1	452834	NFT2	EET CF	04/25/25 16:17
Total/NA	Analysis	Field Sampling		1	452990	FQT6	EET CF	04/16/25 09:31

Client Sample ID: MW-312
Lab Sample ID: 310-304624-14
Date Collected: 04/15/25 15:36
Matrix: Water
Date Received: 04/18/25 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	452736	ZRI4	EET CF	04/23/25 17:24
Total/NA	Prep	3005A			452473	QTZ5	EET CF	04/24/25 09:00
Total/NA	Analysis	6020B		1	452834	NFT2	EET CF	04/25/25 15:55
Total/NA	Prep	3005A			452473	QTZ5	EET CF	04/24/25 09:00
Total/NA	Analysis	6020B		1	452946	NFT2	EET CF	04/28/25 13:01
Total/NA	Prep	7470A			452863	F5MW	EET CF	04/29/25 09:26
Total/NA	Analysis	7470A		1	453118	F5MW	EET CF	04/29/25 14:49
Total/NA	Analysis	SM 2540C		1	452247	MDU9	EET CF	04/21/25 19:11
Total/NA	Analysis	SM 4500 H+ B		1	452100	ZJX4	EET CF	04/19/25 02:23
Total/NA	Prep	PrecSep-21			713703	TYB	EET SL	04/22/25 08:18
Total/NA	Analysis	903.0		1	718429	SWS	EET SL	05/20/25 19:49
Total/NA	Prep	PrecSep_0			713706	TYB	EET SL	04/22/25 08:31
Total/NA	Analysis	904.0		1	718442	SWS	EET SL	05/20/25 11:45
Total/NA	Analysis	Ra226_Ra228 Pos		1	718403	SCB	EET SL	05/20/25 09:19
Total/NA	Analysis	Field Sampling		1	452990	FQT6	EET CF	04/15/25 15:36

Lab Chronicle

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Client Sample ID: Field Blank
Lab Sample ID: 310-304624-15
Date Collected: 04/15/25 18:10
Matrix: Water
Date Received: 04/18/25 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		1	452709	ZRI4	EET CF	04/23/25 15:20
Total/NA	Prep	3005A			452473	QTZ5	EET CF	04/24/25 09:00
Total/NA	Analysis	6020B		1	452834	NFT2	EET CF	04/25/25 16:10
Total/NA	Prep	3005A			452473	QTZ5	EET CF	04/24/25 09:00
Total/NA	Analysis	6020B		1	452946	NFT2	EET CF	04/28/25 13:13
Total/NA	Prep	7470A			452863	F5MW	EET CF	04/29/25 09:26
Total/NA	Analysis	7470A		1	453118	F5MW	EET CF	04/29/25 14:51
Total/NA	Analysis	SM 2540C		1	452247	MDU9	EET CF	04/21/25 19:11
Total/NA	Analysis	SM 4500 H+ B		1	452100	ZJX4	EET CF	04/19/25 02:28
Total/NA	Prep	PrecSep-21			713703	TYB	EET SL	04/22/25 08:18
Total/NA	Analysis	903.0		1	718429	SWS	EET SL	05/20/25 19:49
Total/NA	Prep	PrecSep_0			713706	TYB	EET SL	04/22/25 08:31
Total/NA	Analysis	904.0		1	718433	SWS	EET SL	05/20/25 11:48
Total/NA	Analysis	Ra226_Ra228 Pos		1	718403	SCB	EET SL	05/20/25 09:19

Laboratory References:

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

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Laboratory: Eurofins Cedar Falls

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

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

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-27
ANAB	Dept. of Defense ELAP	L2305	04-06-27
ANAB	Dept. of Energy	L2305.01	04-06-27
ANAB	ISO/IEC 17025	L2305	04-06-27
Arizona	State	AZ0813	12-08-25
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-25
Connecticut	State	PH-0241	03-31-27
Florida	NELAP	E87689	06-30-25
HI - RadChem Recognition	State	n/a	06-30-25
Illinois	NELAP	200023	11-30-25
Iowa	State	373	12-01-26
Kansas	NELAP	E-10236	10-31-25
Kentucky (DW)	State	KY90125	12-31-25
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-25
Louisiana (All)	NELAP	106151	06-30-25
Louisiana (DW)	State	LA011	12-31-25
Maryland	State	310	09-30-25
Massachusetts	State	M-MO054	06-30-25
MI - RadChem Recognition	State	9005	06-30-25
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-25
New Jersey	NELAP	MO002	06-30-25
New Mexico	State	MO00054	06-30-25
New York	NELAP	11616	03-31-26
North Carolina (DW)	State	29700	07-31-25
North Dakota	State	R-207	06-30-25
Oklahoma	NELAP	9997	08-31-25
Oregon	NELAP	4157	09-01-25
Pennsylvania	NELAP	68-00540	02-28-26
South Carolina	State	85002	06-30-25
Texas	NELAP	T104704193	07-31-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	525-23-138-94730	05-18-26
Utah	NELAP	MO00054	07-31-25
Virginia	NELAP	460230	06-14-25
Washington	State	C592	08-30-25
West Virginia DEP	State	381	10-31-25

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

Method Summary

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CF
SM 4500 H+ B	pH	SM	EET CF
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
Pos Field Sampling	Field Sampling	EPA	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

EPA = US Environmental Protection Agency
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401
EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

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310-304624 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS Engineers

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 4.18.25 | TIME 1355 | Received By: CGC

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

Condition of Cooler/Containers

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

Multiple Coolers? ☒ Yes ☐ No *If yes:* Cooler # 1 of 3

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: AA | Correction Factor (°C): 0

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

Uncorrected Temp (°C): 0.7 | Corrected Temp (°C): 0.7

• **Sample Container Temperature**

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

Exceptions Noted

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

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

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

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS Engineers

City/State: CITY | STATE | Project.

Receipt Information

Date/Time Received: DATE 4.18.25 | TIME 1355 | Received By: CGC

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

Condition of Cooler/Containers

Sample(s) received in Cooler?	☑ Yes	☐ No	*If yes:* Cooler ID:
Multiple Coolers?	☑ Yes	☐ No	*If yes:* Cooler # 2 of 3
Cooler Custody Seals Present? No	☐ Yes	☑ No	*If yes:* Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present? No	☐ 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: AA | Correction Factor (°C): 0

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

Uncorrected Temp (°C): 1.3 | Corrected Temp (°C): 1.3

• **Sample Container Temperature**

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

Exceptions Noted

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

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

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

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS Engineers

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 4.18.25 | TIME 1355 | Received By CGC

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

Condition of Cooler/Containers

Sample(s) received in Cooler?	☑ Yes	☐ No	*If yes:* Cooler ID:
Multiple Coolers?	☑ Yes	☐ No	*If yes:* Cooler # 3 of 3
Cooler Custody Seals Present? No	☐ Yes	☑ No	*If yes:* Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present? No	☐ 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: AA | Correction Factor (°C): 0

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

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

• **Sample Container Temperature**

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

Exceptions Noted

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

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

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

Additional Comments

02/27/2026 - Classification: Internal - ECRM13684604

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Michael Morgan	Lab PM: Sandie Fredrick	Carrier Tracking No(s):	COC No:
Client Contact: Meghan Blodgett	Phone: 515-631-0778	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: SCS Engineers	PWSID:			Job #:
Address: 2830 Dairy Drive	Due Date Requested:			
City: Madison	TAT Requested (days):			
State, Zip: WI, 53718	Compliance Project: Δ Yes Δ No			
Phone: 608-224-2830	PO #: 25225074			
Email: mblodgett@scsengineers.com	WO #:			
Project Name: Prairie Creek Generating Station 25224074	Project #: 25225074			
Site: Cedar Rapids, IA	SSOW#:			

Analysis Requested

Preservation Codes

A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020 Metals (15) total (Sb As Ba Be B Ca Cd Cr Co Fe Pb Li Mo Se Tl)	7470 Mercury total	6020 Metals (3) total (As Li Mo)	TDS and pH	Chloride Fluoride Sulfate	EPA 903/904 Radium 226 + 228	Total Number of containers	Special Instructions/Note
Preservation Code:							D	D	D	I	I	D		
MW-301	4/17/25	9 52	G	W	N		X	X		X	X	X		
MW-301A			G	W	N		X	X		X	X	X		
MW-302	4/17/25	11 07	G	W	N		X	X		X	X	X		
MW-303	4/15/25	16:45	G	W	N		X	X		X	X	X		
MW-304	4/15/25	17:43	G	W	N		X	X		X	X	X		
MW-305	4/16/25	8:13	G	W	N		X	X		X	X	X		
MW-306	4/16/25	15:12	G	W	N		X	X		X	X	X		
MW-306A	4/16/25	16 31	G	W	N				X					
MW-307	4/16/25	18 06	G	W	N		X	X		X	X	X		
MW-308	4/15/25	13 25	G	W	N		X	X		X	X	X		
MW-309	4/16/25	12:44	G	W	N				X					

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

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

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

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Michael Morgan	4/18/25 13:30	SCS Engineers	CGC	4.18.25 1355	Eurofins
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

Ver: 01/16/2019

5/22/2025 (Rev. 1)

02/27/2026 - Classification: Internal - ECRM13684604

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Michael Morgan	Lab PM: Sandie Fredrick	Carrier Tracking No(s):	COC No:
Client Contact: Meghan Blodgett	Phone: 515-631-0778	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: SCS Engineers	PWSID:			Job #:

Address: 2830 Dairy Drive	Due Date Requested:
City: Madison	TAT Requested (days):
State, Zip: WI, 53718	Compliance Project: Δ Yes Δ No
Phone: 608-224-2830	PO #: 25225074
Email: mblodgett@scsengineers.com	WO #:
Project Name: Prairie Creek Generating Station 25224074	Project #: 25225074
Site: Cedar Rapids, IA	SSOW#:

Analysis Requested

Preservation Codes

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020 Metals (15) total (Sb As Ba Be B Ca Cd Cr Co Fe Pb Li Mo Se Tl)	7470 Mercury total	6020 Metals (3) total (As Li Mo)	TDS and pH	Chloride Fluoride Sulfate	EPA 903/904 Radium 226 + 228	Total Number of containers	Special Instructions/Note
			Preservation Code:				D	D	D	I	I			
MW-309A	4/16/25	13:44	G	W	N				X					
MW-310	4/16/25	11:14	G	W	N				X					
MW-310A	4/16/25	9:31	G	W	N				X					
MW-312	4/15/25	15:36	G	W	N		X	X		X	X	X		
Field Blank	4/15/25	18 10	G	W	N		X	X		X	X	X		

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

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

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

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Michael Morgan	4/18/25 13:50	SCS Engineers	CGC	4-18-25 1355	Eurofins
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:

5/22/2025 (Rev. 1)

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-304624-1

Login Number: 304624
List Number: 1
Creator: Hirsch, Preston

List Source: Eurofins Cedar Falls

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

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-304624-1

Login Number: 304624
List Number: 2
Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis
List Creation: 04/21/25 12:22 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.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Tracer/Carrier Summary

Client: SCS Engineers
Job ID: 310-304624-1
Project/Site: Prairie Creek Generating Station 25225074

Method: 903.0 - Radium-226 (GFPC)

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

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(30-110)
310-304624-1	MW-301	91.6
310-304624-2	MW-302	87.2
310-304624-3	MW-303	90.3
310-304624-4	MW-304	83.4
310-304624-5	MW-305	88.5
310-304624-6	MW-306	87.7
310-304624-8	MW-307	86.7
310-304624-9	MW-308	82.1
310-304624-14	MW-312	84.1
310-304624-15	Field Blank	84.4
LCS 160-713703/2-A	Lab Control Sample	88.0
MB 160-713703/1-A	Method Blank	82.4

Tracer/Carrier Legend

Ba = Barium

Method: 904.0 - Radium-228 (GFPC)

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

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
310-304624-1	MW-301	91.6	80.4
310-304624-2	MW-302	87.2	80.4
310-304624-3	MW-303	90.3	81.1
310-304624-4	MW-304	83.4	78.9
310-304624-5	MW-305	88.5	84.5
310-304624-6	MW-306	87.7	82.6
310-304624-8	MW-307	86.7	83.7
310-304624-9	MW-308	82.1	84.9
310-304624-14	MW-312	84.1	79.3
310-304624-15	Field Blank	84.4	80.7
LCS 160-713706/2-A	Lab Control Sample	88.0	83.0
MB 160-713706/1-A	Method Blank	82.4	81.5

Tracer/Carrier Legend

Ba = Barium
Y = Y Carrier

02/27/2026 - Classification: Internal - ECRM13684604

Groundwater Monitoring Results - Field Parameters
Prairie Creek Generating Station / SCS Engineers Project #25225074.00
April 2025

Sample	Sample Date	GW Elevation (ft amsl)	Temperature (Deg. C)	pH (Std. Units)	Dissolved Oxygen (mg/L)	Specific Conductivity (µmhos/cm)	ORP (mV)	Turbidity
MW-301	4/17/2025	713.54	11.0	6.76	4.32	1317	302.8	3.75
MW-302	4/17/2025	713.38	7.7	6.70	3.32	1331	290.6	4.88
MW-303	4/15/2025	702.54	8.6	6.96	-0.15	1057	-113.4	2.08
MW-304	4/15/2025	702.47	8.6	7.01	-0.11	1157	22.9	2.06
MW-305	4/16/2025	702.33	7.6	6.83	0.11	1197	344.9	4.98
MW-306	4/16/2025	702.71	15.0	7.39	1.49	901	-37.5	7.75
MW-306A	4/16/2025	702.94	13.3	7.17	0.02	1222	137.2	7.09
MW-307	4/16/2025	705.92	12.3	8.92	-0.13	274	278.7	4.08
MW-308	4/15/2025	704.28	13.7	9.09	0.01	753	33.7	2.44
MW-309	4/16/2025	702.43	12.9	7.10	-0.12	1071	-52.8	3.87
MW-309A	4/16/2025	701.77	15.4	7.11	0.13	853	-97	5.19
MW-310	4/16/2025	702.18	13.7	7.13	1.34	1117	-65.2	10.36
MW-310A	4/16/2025	702.50	14.6	7.28	0.13	1119	-122.1	4.87
MW-312	4/15/2025	703.13	18.2	6.83	-0.06	806	-112.6	13.39

Abbreviations:
mg/L = milligrams per liter
NA = Not Analyzed
mV = millivolts
NM = Not measured
amsl = above mean sea level

Created by: RM Date: 11/20/2023
Last revision by: BLJ Date: 4/23/2025
Checked by: RM Date: 4/29/2025

5/22/2025 (Rev. 1)

Appendix D

Historical Results

02/27/2026 - Classification: Internal - ECRM13684604

Single Location
Name: IPL - Prairie Creek Generating Station

Location ID: MW-301

Number of Sampling Dates: 25

Parameter Name	Units	12/20/2016	1/23/2017	2/23/2017	3/28/2017	4/26/2017	5/25/2017	6/28/2017	8/17/2017	10/17/2017	5/8/2018	8/6/2018	10/9/2018	4/22/2019	10/28/2019	4/27/2020	10/19/2020	4/27/2021	10/21/2021	4/25/2022	10/12/2022
Boron	ug/L	<50	<50	25.2	23.8	37.3	40.8	24.6	28.9	26.8	22.8	30.9	30.6	<110	<110	<73	<80	<58	<58	<58	<58
Calcium	mg/L	137	140	148	144	112	106	136	142	139	155	154	163	130	160	140	150	130	160	180	170
Chloride	mg/L	19.5	24.1	24.4	23.3	19.2	19.1	26.2	30.4	33.6	51.4	57.4	62	43	46	40	67	58	98	85	110
Fluoride	mg/L	0.13	0.079	0.13	0.1	0.1	<0.1	0.15	0.21	0.17	0.2	0.16	0.22	<0.23	<0.23	<0.23	<0.23	<0.28	<0.28	<0.22	<0.22
Field pH	Std. Units	6.78	6.8	6.57	6.9	6.41	6.41	7	6.97	7.46	7.51	6.81	7.63	6.99	6.69	7.09	6.89	6.81	6.9	6.92	7.03
Sulfate	mg/L	108	101	99.2	107	82.5	74.7	108	101	95.5	117	113	131	100	110	110	98	93	100	89	100
Total Dissolved Solids	mg/L	556	587	611	615	495	479	642	640	621	784	747	743	610	680	640	660	550	690	680	730
Antimony	ug/L	0.28	0.2	0.057	0.06	0.034	0.065	0.088	0.18	--	0.041	<0.15	<0.078	<0.53	<0.53	<0.58	<0.51	<1.1	<1.1	<0.69	<0.69
Arsenic	ug/L	0.7	0.69	0.55	0.54	0.55	0.5	0.62	1.8	--	0.54	1.1	0.67	<0.75	<0.75	<0.88	<0.88	<0.75	0.88	0.8	<0.75
Barium	ug/L	250	257	264	264	211	205	265	291	--	282	281	261	230	270	260	270	250	270	280	290
Beryllium	ug/L	<0.08	<0.08	0.075	0.012	0.023	0.016	<0.012	0.14	--	<0.012	--	<0.089	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
Cadmium	ug/L	<0.029	0.059	0.066	0.072	0.063	0.061	0.073	0.12	--	0.069	0.096	0.075	<0.077	0.064	0.066	0.073	0.062	0.11	0.072	0.068
Chromium	ug/L	3.9	4.3	4.5	4.4	4.7	3.4	3.9	9.9	--	4.1	5.8	5.2	3.6	5.4	4.7	4.9	4.2	5.2	5.3	4.8
Cobalt	ug/L	<0.5	<0.5	0.25	0.11	0.28	0.18	0.057	2.1	--	0.028	0.52	0.084	0.12	0.12	0.23	<0.091	0.15	<0.19	<0.19	<0.19
Lead	ug/L	<0.19	0.23	0.16	0.086	0.4	0.25	0.058	1.9	--	<0.033	0.66	0.17	<0.27	<0.27	0.27	<0.11	<0.21	0.37	<0.24	<0.24
Lithium	ug/L	14.9	13.4	11.1	12.6	8.6	6.1	8.9	16.8	--	13.6	5.4	13.3	8.5	12	11	15	13	13	17	14
Mercury	ug/L	<0.039	<0.039	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	--	<0.09	--	<0.09	<0.1	<0.1	<0.1	--	<0.15	<0.15	<0.11	<0.11
Molybdenum	ug/L	0.61	0.34	0.38	0.45	0.23	0.26	0.33	0.44	--	0.35	0.44	<0.57	<1.1	<1.1	<1.1	<1.1	<1.3	<1.3	<1.2	<1.2
Selenium	ug/L	0.97	1.2	0.98	1	0.72	0.69	1.1	1.2	--	1.3	1.3	0.95	1.1	1.7	<1	--	<0.96	1.1	2.9	1.3
Thallium	ug/L	<0.5	<0.5	<0.036	<0.036	0.12	0.043	0.081	0.3	--	<0.036	--	<0.099	<0.27	<0.27	<0.26	--	<0.26	<0.26	0.27	<0.26
Total Radium	pCi/L	1.06	0.957	1.42	1.42	1.14	0.877	2.53	1.52	--	1	1.07	1.09	--	0.708	0.477	0.975	0.844	0.606	0.845	0.977
Radium-226	pCi/L	0	0.404	0.438	0.665	0.479	0.379	0.793	0.576	--	0.484	0.429	0.478	--	0.259	0.283	0.656	0.287	0.256	0.379	0.365
Radium-228	pCi/L	1.06	0.553	0.981	0.75	0.662	0.498	1.74	0.946	--	0.516	0.643	0.612	--	<0.512	<0.311	0.319	0.557	0.35	0.466	0.612
pH at 25 Degrees C	Std. Units	7	8	7.2	6.8	6.8	7.1	7.3	7.2	7.4	7	7.1	7.1	6.9	6.9	6.9	7	6.9	7	7.1	7
Field Oxidation Potential	mV	91.3	54.7	175.5	120.8	141.5	155	143.1	90.3	191	32.7	237	60	38.2	-7.3	208.3	67.9	168.4	180.3	120	-41.3
Field Specific Conductance	umhos/cm	1370	895	918	1350	1400	694	901	1326	949	1060	1105	1052	987	1036	954	983	931	1205	1155	1184
Field Temperature	deg C	11.7	11.2	10.7	10.2	9.9	10.45	11.1	12.2	12.6	10.5	12.3	14.9	10.53	11.34	11.1	11.8	10.4	12.3	10.4	13
Groundwater Elevation	feet	716.05	716.05	715.87	715.8	716.7	717.08	716.1	715.35	714.36	713.95	714.3	715.74	716.44	715.86	715.8	714.77	715.84	713.44	714.5	722.08
Oxygen, Dissolved	mg/L	2.54	2.75	2.42	3.22	3.88	4.19	2.46	3.21	2.4	38.3	3.6	4.03	6.68	4.63	3.5	3.69	3.76	4.67	4.14	4.18
Turbidity	NTU	3.57	6.66	4.57	11.36	1.61	0.78	0.61	95.83	124.2	0.72	17.05	9.97	6.92	2.8	6.52	6.01	2.04	9.7	20.6	3.18
Collected By		--	0	0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	470	340	420	430	490
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<3.8	<2.3	<4.6	<4.6	<4.6
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	470	340	420	430	490
Calcium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	150000	--	--	--	180000
Iron, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	73	82	52	<36	<36
Magnesium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	44000	41000	48000	52000	54000
Manganese, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<4	<4.4	<4.4	<3.6	<3.6
Iron, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<50	<36	<36	<36	<36
Manganese, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<4	<4.4	<4.4	<3.6	5.5
Potassium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	930	1300	930	930	1100
Sodium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14000	14000	15000	17000	17000

Single Location
Name: IPL - Prairie Creek Generating Station

Location ID: MW-301

Number of Sampling Dates: 25

Parameter Name	Units	4/20/2023	11/6/2023	4/18/2024	10/1/2024	4/17/2025
Boron	ug/L	<380	<76	<76	<76	130
Calcium	mg/L	200	180	180	180	180
Chloride	mg/L	100	100	100	110	99
Fluoride	mg/L	<0.38	<0.38	<0.38	<0.38	<0.38
Field pH	Std. Units	6.92	6.68	6.69	6.49	6.76
Sulfate	mg/L	100	98	99	96	92
Total Dissolved Solids	mg/L	700	730	760	780	750
Antimony	ug/L	<5	1.2	<1	<1	<1
Arsenic	ug/L	<2.7	1.5	0.87	0.72	0.7
Barium	ug/L	270	270	270	250	260
Beryllium	ug/L	<1.7	<0.33	<0.33	<0.33	<0.33
Cadmium	ug/L	<0.5	0.33	<0.1	<0.1	<0.1
Chromium	ug/L	<5.5	5.5	5.2	5	4.8
Cobalt	ug/L	<0.85	0.25	<0.17	<0.17	<0.17
Lead	ug/L	<1.2	0.52	<0.26	<0.26	<0.33
Lithium	ug/L	16	16	15	14	14
Mercury	ug/L	<0.14	<0.14	<0.11	<0.11	<0.11
Molybdenum	ug/L	<4.6	2.5	<1.3	<1.3	<1.3
Selenium	ug/L	<7	3.1	1.6	<1.4	<1.4
Thallium	ug/L	<1.3	<0.26	0.57	0.84	<0.57
Total Radium	pCi/L	0.391	1.05	1.07	0.245	0.391
Radium-226	pCi/L	0.252	0.389	0.357	0.245	-0.0106
Radium-228	pCi/L	0.14	0.657	0.71	-0.0726	0.391
pH at 25 Degrees C	Std. Units	7	7.5	7	7.1	7.9
Field Oxidation Potential	mV	110.7	118.3	159.3	162.6	302.8
Field Specific Conductance	umhos/cm	1231	1282	1296	1535	1317
Field Temperature	deg C	10.9	13.7	10.9	13.7	11
Groundwater Elevation	feet	714.1	712.29	712.62	713.08	713.54
Oxygen, Dissolved	mg/L	4.66	4.21	4.92	4.42	4.32
Turbidity	NTU	0.02	1.91	7.15	6.28	3.75
Collected By		--	--	--	--	--
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--
Calcium, total	ug/L	--	--	--	--	--
Iron, total	ug/L	<180	<36	<36	<36	55
Magnesium, total	ug/L	--	--	--	--	--
Manganese, total	ug/L	--	--	--	--	--
Iron, dissolved	ug/L	--	--	--	--	--
Manganese, dissolved	ug/L	--	--	--	--	--
Potassium, total	ug/L	--	--	--	--	--
Sodium, total	ug/L	--	--	--	--	--

Single Location
Name: IPL - Prairie Creek Generating Station

Location ID: MW-301A

Number of Sampling Dates: 10

Parameter Name	Units	9/15/2020	10/21/2020	4/28/2021	10/22/2021	4/29/2022	10/13/2022	4/20/2023	11/7/2023	4/17/2024	10/3/2024
Boron	ug/L	<80	<80	71	61	74	68	<380	85	<76	90
Calcium	mg/L	72	76	68	59	68	69	73	74	78	73
Chloride	mg/L	4.1	2.6	<2.2	<2.2	<2.3	2.7	4.1	6.7	4.4	3.8
Fluoride	mg/L	<0.23	<0.23	<0.28	<0.28	<0.22	<0.22	<0.38	<0.38	<0.38	<0.38
Field pH	Std. Units	7.5	6.85	7.17	7.15	6.94	7	6.89	6.67	6.96	6.92
Sulfate	mg/L	6.4	7.8	5.3	7	4.8	4	3.6	6.4	<2.1	<2.1
Total Dissolved Solids	mg/L	440	310	250	200	230	250	260	320	290	280
Antimony	ug/L	<0.51	<0.51	<1.1	<1.1	<0.69	<0.69	<5	<1	<1	<1
Arsenic	ug/L	3.7	1.9	0.87	1.4	3.3	1.3	<2.7	4.7	2.1	5.8
Barium	ug/L	290	190	160	130	150	140	120	140	120	130
Beryllium	ug/L	0.98	<0.27	<0.27	<0.27	<0.27	<0.27	<1.7	<0.33	<0.33	<0.33
Cadmium	ug/L	0.49	0.054	<0.051	0.075	<0.055	<0.055	<0.5	<0.1	<0.1	<0.1
Chromium	ug/L	5.1	1.1	<1.1	<1.1	<1.1	<1.1	<5.5	<1.1	<1.2	<1.2
Cobalt	ug/L	9.4	2	1.2	0.96	0.91	0.76	<0.85	0.75	0.59	0.73
Lead	ug/L	5.6	1	0.21	0.49	<0.24	0.41	<1.2	<0.24	<0.26	<0.26
Lithium	ug/L	4.2	4.1	<2.5	<2.5	<2.5	<2.5	<13	<2.5	<2.5	<2.5
Mercury	ug/L	<0.1	--	<0.15	<0.15	<0.11	<0.11	<0.14	<0.14	<0.11	<0.11
Molybdenum	ug/L	2.1	3.1	3.1	3.1	2.5	3.4	<4.6	5.6	2.8	1.8
Selenium	ug/L	<1	--	<0.96	<0.96	<0.96	<0.96	<7	<1.4	<1.4	<1.4
Thallium	ug/L	<0.26	--	<0.26	<0.26	<0.26	<0.26	<1.3	<0.26	<0.57	<0.57
Total Radium	pCi/L	8.3	1.47	0.823	1.27	0.698	0.876	1.85	--	1.52	0.966
Radium-226	pCi/L	3.93	0.441	0.35	0.323	0.283	0.5	0.497	--	0.294	0.3
Radium-228	pCi/L	4.37	1.03	0.473	0.948	0.414	0.376	1.35	--	1.22	0.666
pH at 25 Degrees C	Std. Units	6.9	7	7.1	7.2	7	6.9	7.1	7.7	7	7
Field Oxidation Potential	mV	131.6	-92.6	11.7	37.5	116	41.8	177.2	79.8	7.9	80.8
Field Specific Conductance	umhos/cm	470.5	551.4	930	537.9	583.3	537.2	568.2	668	594	704
Field Temperature	deg C	16	11.6	9.7	13.3	12.9	12.7	10.1	12.5	13.1	17.7
Groundwater Elevation	feet	--	--	716.76	707.07	707.77	706.76	708.02	681.93	706.69	706.89
Oxygen, Dissolved	mg/L	7.77	1.77	1.68	2.39	--	2.19	3.84	2.95	4.21	4.22
Turbidity	NTU	284.7	--	2.04	32.2	20.3	4.27	--	9.84	19.63	32.07
Bicarbonate Alkalinity as CaCO3	mg/L	--	330	310	320	290	300	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	--	<3.8	<4.6	<4.6	<4.6	<4.6	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	330	310	320	290	300	--	--	--	--
Calcium, total	ug/L	--	75000	--	--	--	76000	--	--	--	--
Iron, total	ug/L	--	1000	200	790	2500	6700	1900	6700	3100	11000
Magnesium, total	ug/L	--	23000	21000	16000	19000	23000	--	--	--	--
Manganese, total	ug/L	--	700	300	420	380	460	--	--	--	--
Iron, dissolved	ug/L	--	97	130	<36	2300	4600	--	--	--	--
Manganese, dissolved	ug/L	--	690	290	320	380	380	--	--	--	--
Potassium, total	ug/L	--	2100	1700	1300	1300	1600	--	--	--	--
Sodium, total	ug/L	--	14000	12000	9400	11000	12000	--	--	--	--

Single Location
Name: IPL - Prairie Creek Generating Station

Location ID: MW-302

Number of Sampling Dates: 25

Parameter Name	Units	12/20/2016	1/23/2017	2/23/2017	3/28/2017	4/26/2017	5/25/2017	6/28/2017	8/17/2017	10/17/2017	5/8/2018	8/6/2018	10/9/2018	4/22/2019	10/28/2019	4/27/2020	10/19/2020	4/27/2021	10/21/2021	4/25/2022	10/12/2022
Boron	ug/L	<50	<50	30.1	33.7	36.5	51.6	51.8	45.1	36.5	22.4	38.1	65	<110	<110	<73	<80	<58	<58	100	<58
Calcium	mg/L	107	106	95	95	102	41.4	66.7	93.1	109	125	106	63.3	67	81	86	110	76	130	65	140
Chloride	mg/L	22.6	21.4	19.2	21.6	19.9	8.1	9.6	20.7	36.4	69.4	33.6	20.2	19	23	28	49	23	82	7.2	92
Fluoride	mg/L	0.16	0.079	0.1	<0.1	0.12	<0.1	0.15	0.2	0.19	0.23	0.17	0.21	<0.23	<0.23	<0.23	<0.23	<0.28	<0.28	<0.22	<0.22
Field pH	Std. Units	6.36	6.72	6.38	6.66	6.44	6.27	6.6	6.23	7.71	6.98	6.55	6.5	6.64	6.37	6.27	6.67	6.96	7.15	5.35	6.63
Sulfate	mg/L	77.7	75.6	69.7	72.9	66.4	28.9	49.5	70	82.9	69.6	72.2	55.1	56	72	66	78	57	89	140	89
Total Dissolved Solids	mg/L	465	463	416	432	445	203	341	432	505	718	503	314	320	420	400	480	330	500	340	620
Antimony	ug/L	0.32	0.14	0.049	0.067	0.028	0.077	0.067	0.11	--	0.048	0.17	0.092	<0.53	<0.53	<0.58	<0.51	<1.1	<1.1	<0.69	<0.69
Arsenic	ug/L	2.3	1.7	1.6	2.7	2.4	3.2	1.6	1.9	--	0.79	9	4.5	2.1	7	4.4	2	3.4	0.9	1.2	0.76
Barium	ug/L	200	194	166	187	176	109	133	175	--	213	254	141	130	220	210	200	160	220	110	210
Beryllium	ug/L	<0.08	<0.08	0.078	0.023	<0.012	0.019	<0.012	<0.012	--	<0.012	--	<0.089	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
Cadmium	ug/L	<0.029	<0.029	0.04	0.036	0.042	0.021	0.035	0.03	--	0.041	0.084	<0.033	<0.077	0.053	0.098	0.062	0.065	0.08	0.38	0.072
Chromium	ug/L	3.3	2.1	1.7	1.4	1.5	0.8	0.91	1.5	--	1.2	4.4	0.78	<0.98	2.1	2.8	2.2	1.4	2	<1.1	2
Cobalt	ug/L	2.7	2.2	3	4.7	2.1	2.1	1.2	1.4	--	3.2	1.6	3.2	2.1	1.2	0.56	0.33	0.37	<0.19	31	0.21
Lead	ug/L	0.55	<0.19	0.14	0.2	0.083	0.16	0.034	<0.033	--	0.035	1.2	0.13	<0.27	<0.27	<0.27	<0.11	<0.21	<0.21	0.26	<0.24
Lithium	ug/L	8.7	7.7	3.4	5.3	4.9	<2.9	<2.9	11.9	--	5.4	<4.6	4.6	4.7	5.3	3.8	8.2	6.3	6.9	5	7.8
Mercury	ug/L	<0.039	<0.039	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	--	<0.09	--	<0.09	<0.1	<0.1	<0.1	--	<0.15	<0.15	<0.11	<0.11
Molybdenum	ug/L	0.76	0.43	0.45	0.38	0.52	0.28	0.38	0.38	--	0.99	0.78	0.67	<1.1	<1.1	<1.1	<1.1	<1.3	<1.3	<1.2	<1.2
Selenium	ug/L	0.55	0.36	0.37	0.43	0.44	0.28	0.44	0.46	--	0.54	1.4	0.37	<1	1.1	<1	--	0.96	<0.96	3.7	1.2
Thallium	ug/L	<0.5	<0.5	0.05	0.044	0.058	<0.036	<0.036	0.18	--	0.039	--	<0.099	<0.27	<0.27	<0.26	--	<0.26	<0.26	0.37	<0.26
Total Radium	pCi/L	0.597	0.138	0.655	0.447	0.713	1.3	1.12	1.21	--	0.699	3.61	1.09	--	0.562	0.392	1.22	1.31	0.77	0.489	0.681
Radium-226	pCi/L	0	0.138	0.267	0.239	0.311	0.49	0.265	0.211	--	0.507	2.15	0.54	--	0.228	0.113	0.54	0.778	0.195	0.145	0.378
Radium-228	pCi/L	0.597	-0.321	0.388	0.208	0.402	0.809	0.852	0.997	--	0.192	1.46	0.554	--	<0.385	<0.307	0.684	0.533	0.575	0.344	0.302
pH at 25 Degrees C	Std. Units	6.8	7.2	6.6	6.4	6.8	6.9	7.3	6.6	6.8	6.9	6.9	7	6.8	6.6	6.7	6.8	6.8	6.7	5.5	6.9
Field Oxidation Potential	mV	-9.4	-12.1	40.7	-44.7	54.5	29.2	53.3	90.2	181	-10.9	61	-32	-0.2	-5.8	30	21.5	24.1	122.3	160.1	48.3
Field Specific Conductance	umhos/cm	1182	712.2	624.9	1053	1283	317	481.6	876	824	708.6	786	515	533	587	587.9	761	889	969	534.2	1051
Field Temperature	deg C	10.6	7.8	6.5	6.4	8.1	10.59	12.8	15.3	15	7.5	16	16.7	7.86	13.74	8.1	13.6	9	14.1	6.8	14.7
Groundwater Elevation	feet	715.39	715.77	715.55	715.45	716.07	716.27	715.22	714.47	713.92	713.53	713.83	716.72	715.69	715.27	715.17	713.75	715.36	713.09	715.27	712.56
Oxygen, Dissolved	mg/L	2.57	2.78	1.73	2.22	2.43	0.9	1.23	1.69	1.4	3.1	1.7	0.5	3.34	1.8	1.39	2.22	0.12	3.47	0.25	2.53
Turbidity	NTU	19.02	0.95	0.8	4.89	0.82	1.52	0.5	0.61	4.75	1.75	8.95	10.52	90.3	6.92	27.5	8.15	2.7	15.3	24.2	4.35
Collected By		--	0	0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	310	210	340	88	360
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<3.8	<2.3	<4.6	<4.6	<4.6
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	310	210	340	88	360
Calcium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	110000	--	--	--	150000
Iron, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2200	3400	400	810	170
Magnesium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	33000	24000	39000	13000	47000
Manganese, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	89	82	5	4400	20
Iron, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	430	500	<36	140	<36
Manganese, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	77	81	<4.4	3800	18
Potassium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	640	480	690	3900	820
Sodium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16000	12000	16000	18000	21000

Single Location
Name: IPL - Prairie Creek Generating Station

Location ID: MW-302

Number of Sampling Dates: 25

Parameter Name	Units	4/20/2023	11/7/2023	4/17/2024	10/1/2024	4/17/2025
Boron	ug/L	<380	<76	<76	<76	100
Calcium	mg/L	170	170	190	130	160
Chloride	mg/L	120	150	180	95	160
Fluoride	mg/L	<0.38	<0.38	<0.38	<0.38	<0.38
Field pH	Std. Units	6.8	6.6	6.64	6.38	6.7
Sulfate	mg/L	80	85	91	80	77
Total Dissolved Solids	mg/L	590	740	830	600	750
Antimony	ug/L	<5	<1	<1	<1	<1
Arsenic	ug/L	<2.7	0.86	1.1	4.4	0.6
Barium	ug/L	170	230	250	250	240
Beryllium	ug/L	<1.7	<0.33	<0.33	<0.33	<0.33
Cadmium	ug/L	<0.5	<0.1	<0.1	0.24	<0.1
Chromium	ug/L	<5.5	1.9	1.3	2.1	<1.8
Cobalt	ug/L	1.5	<0.17	0.38	4.2	<0.17
Lead	ug/L	<1.2	<0.24	<0.26	0.26	<0.33
Lithium	ug/L	<13	9.5	9.3	8.5	8.4
Mercury	ug/L	<0.14	<0.14	<0.11	<0.11	<0.11
Molybdenum	ug/L	<4.6	1.1	<1.3	<1.3	<1.3
Selenium	ug/L	<7	<1.4	1.9	<1.4	1.5
Thallium	ug/L	<1.3	0.26	<0.57	0.96	<0.57
Total Radium	pCi/L	0.94	0.746	1	1.48	1.06
Radium-226	pCi/L	0.0892	0.323	0.259	0.339	0.327
Radium-228	pCi/L	0.85	0.423	0.745	0.442	0.735
pH at 25 Degrees C	Std. Units	7.1	7.6	7.2	7	7.9
Field Oxidation Potential	mV	113.3	83.5	101.3	145.4	290.6
Field Specific Conductance	umhos/cm	1095	1447	1493	1217	1331
Field Temperature	deg C	7.2	13.4	9.3	15.2	7.7
Groundwater Elevation	feet	713.9	711.86	712.69	712.4	713.38
Oxygen, Dissolved	mg/L	2.49	4.75	2.07	1.61	3.32
Turbidity	NTU	0.02	7.08	13.89	6.84	4.88
Collected By		--	--	--	--	--
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--
Calcium, total	ug/L	--	--	--	--	--
Iron, total	ug/L	1600	96	430	5700	79
Magnesium, total	ug/L	--	--	--	--	--
Manganese, total	ug/L	--	--	--	--	--
Iron, dissolved	ug/L	--	--	--	--	--
Manganese, dissolved	ug/L	--	--	--	--	--
Potassium, total	ug/L	--	--	--	--	--
Sodium, total	ug/L	--	--	--	--	--

Single Location
Name: IPL - Prairie Creek Generating Station

Location ID: MW-303

Number of Sampling Dates: 25

Parameter Name	Units	12/20/2016	1/23/2017	2/23/2017	3/28/2017	4/26/2017	5/25/2017	6/28/2017	8/17/2017	10/17/2017	5/8/2018	8/6/2018	10/9/2018	4/22/2019	10/29/2019	4/27/2020	10/20/2020	4/27/2021	10/21/2021	4/26/2022	10/12/2022
Boron	ug/L	767	773	851	852	705	644	603	650	598	772	753	932	800	940	790	1300	920	1100	850	1100
Calcium	mg/L	68.7	71.4	85.4	82.7	71.5	67.8	63.5	66.2	59.9	102	85.4	99.9	130	120	110	110	89	110	110	120
Chloride	mg/L	17.6	18.7	19.6	18.9	20.2	21	19.7	19.4	19.9	26.1	20.2	23.9	33	20	18	13	12	13	11	13
Fluoride	mg/L	0.55	0.55	0.44	0.48	0.54	0.45	0.53	0.7	0.8	0.5	0.6	0.71	0.35	0.51	0.69	0.67	0.42	0.4	<0.22	0.3
Field pH	Std. Units	7.37	7.55	7.09	7.57	7.18	7.11	7.2	7.22	7.94	7.23	7.2	7.13	7.31	7.12	6.78	7.08	6.96	7.16	7.07	7.08
Sulfate	mg/L	72.6	72.7	82.4	80.4	65.1	56	76.2	83.5	60	146	83.3	74.7	88	95	120	130	110	130	100	160
Total Dissolved Solids	mg/L	346	375	413	414	372	367	365	397	329	580	475	515	650	580	630	580	440	480	490	660
Antimony	ug/L	2	1.7	1.2	1	1	0.86	0.84	1.6	--	0.61	1.1	0.72	<0.53	<0.53	<0.58	<0.51	<1.1	<1.1	<0.69	<0.69
Arsenic	ug/L	20.8	23.1	23.4	25	22.9	23.6	24.2	30	--	26.9	35.1	44.5	26	52	48	56	39	46	36	42
Barium	ug/L	68.8	66	75.4	74.6	67.6	66.6	65.8	62.5	--	87.5	82.7	94.3	150	120	130	120	90	110	96	130
Beryllium	ug/L	<0.08	<0.08	0.072	0.013	<0.012	<0.012	<0.012	<0.012	--	<0.012	--	<0.089	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
Cadmium	ug/L	<0.029	<0.029	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	--	<0.018	0.24	<0.033	<0.077	<0.039	0.066	<0.049	<0.051	<0.051	<0.055	<0.055
Chromium	ug/L	1.1	0.6	0.28	<0.054	0.14	0.21	0.18	0.29	--	0.19	0.62	0.55	<0.98	<0.98	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
Cobalt	ug/L	<0.5	<0.5	0.4	0.3	0.3	0.3	0.35	0.3	--	0.31	0.66	0.43	1.3	0.87	1.1	0.43	0.48	0.43	0.42	0.43
Lead	ug/L	0.36	<0.19	0.037	<0.033	0.095	0.12	0.12	0.057	--	0.078	0.48	0.31	0.3	0.43	1.7	0.18	<0.21	<0.21	<0.24	0.58
Lithium	ug/L	19	20.5	17.7	19.8	14.6	15.4	13.1	18.8	--	19	15.4	19.9	17	17	14	21	16	17	18	18
Mercury	ug/L	<0.039	<0.039	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	--	<0.09	--	<0.09	<0.1	<0.1	<0.1	--	<0.15	<0.15	<0.11	<0.11
Molybdenum	ug/L	37.8	30.5	26.7	26.7	23.2	20.6	25.6	35.2	--	23.1	20.7	21.7	12	20	8.4	17	12	14	11	15
Selenium	ug/L	<0.18	<0.18	<0.086	0.14	0.15	0.11	0.11	0.33	--	0.24	0.46	0.21	<1	<1	<1	--	<0.96	<0.96	1.3	<0.96
Thallium	ug/L	<0.5	<0.5	<0.036	<0.036	<0.036	0.089	<0.036	0.18	--	<0.036	--	<0.099	<0.27	<0.27	<0.26	--	<0.26	<0.26	<0.26	<0.26
Total Radium	pCi/L	0.925	0.647	0.375	0.53	0.71	0.977	1.55	0.995	--	1.26	0.847	1.08	--	<0.522	1.41	0.56	0.519	0.963	0.276	0.783
Radium-226	pCi/L	0.545	0.535	0	0.192	0.0625	0.112	0.383	0.537	--	0.242	-0.126	0.62	--	0.164	<0.324	0.508	0.0943	0.231	0.16	0.514
Radium-228	pCi/L	0.38	0.112	0.375	0.338	0.647	0.865	1.17	0.458	--	1.02	0.847	0.457	--	<0.522	1.11	0.0517	0.425	0.732	0.115	0.269
pH at 25 Degrees C	Std. Units	7	8	7.4	7.2	7.3	7.4	7.8	7.5	7.5	7.4	7.4	7.5	7.4	7.2	7.2	7.2	7.3	7.2	7.3	7.2
Field Oxidation Potential	mV	-58.2	-58.1	4.1	-118.3	-6.4	-12.2	192.3	79.8	-85	-92.8	-126	-87	-110.3	-139.1	-143.2	-147.8	11.7	-89.8	-70.1	-32
Field Specific Conductance	umhos/cm	916	602.3	663.2	1024	1107	549	941	834	564	836	764	881	1084	981	922	853	734	911	756	1047
Field Temperature	deg C	13	11.7	10.9	11.3	11.7	13.26	13.9	15.1	16.4	9.5	16	17.4	9.59	14.47	9.3	15.1	9	16.2	8.7	15.6
Groundwater Elevation	feet	703.36	704.64	704.46	703.81	705.07	705.37	703.96	702.83	702.95	705.36	702.62	707.86	703.83	704.1	703.1	702.16	702.75	701.84	703.85	701.93
Oxygen, Dissolved	mg/L	0.18	0.17	0.13	0.12	0.13	0.26	0.27	0.05	0	1.7	0.1	0.2	1.14	0.35	0.14	0.08	0.19	0.24	0.1	0.06
Turbidity	NTU	9.52	0.5	0.3	0.01	0.19	0.34	2.72	0.11	3.58	1.08	4.99	17.2	18.4	3.02	25.9	0.8	2.1	10.4	9.97	1.15
Collected By		--	0	0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	370	290	430	360	410
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<3.8	<2.3	<4.6	<4.6	<4.6
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	370	290	430	360	410
Calcium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100000	--	--	--	140000
Iron, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3400	3100	3600	3500	3200
Magnesium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	35000	31000	35000	35000	44000
Manganese, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1400	1400	1500	1600	1700
Arsenic, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	53	39	44	32	48
Iron, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3100	3100	2900	3000	2800
Manganese, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1400	1400	1400	1400	1700
Potassium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4800	3900	4700	4100	5500
Sodium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	34000	30000	34000	34000	40000

Single Location
Name: IPL - Prairie Creek Generating Station

Location ID: MW-303

Number of Sampling Dates: 25

Parameter Name	Units	4/19/2023	11/7/2023	4/15/2024	10/2/2024	4/15/2025
Boron	ug/L	1000	1200	1000	1400	1400
Calcium	mg/L	130	110	130	130	130
Chloride	mg/L	18	13	22	17	18
Fluoride	mg/L	0.49	0.39	<0.38	0.39	0.38
Field pH	Std. Units	7.2	6.77	6.9	6.78	6.96
Sulfate	mg/L	120	91	140	130	130
Total Dissolved Solids	mg/L	520	550	620	640	660
Antimony	ug/L	<5	<1	<1	<1	<1
Arsenic	ug/L	34	48	32	36	25
Barium	ug/L	100	110	120	120	110
Beryllium	ug/L	<1.7	<0.33	<0.33	<0.33	<0.33
Cadmium	ug/L	<0.5	<0.1	<0.1	<0.1	<0.1
Chromium	ug/L	<5.5	<1.1	<1.2	<1.2	<1.8
Cobalt	ug/L	<0.85	0.3	0.3	0.25	0.3
Lead	ug/L	<1.2	<0.24	<0.26	<0.26	<0.33
Lithium	ug/L	16	19	18	20	15
Mercury	ug/L	<0.14	<0.14	<0.11	<0.11	<0.11
Molybdenum	ug/L	12	13	10	13	11
Selenium	ug/L	<7	<1.4	<1.4	<1.4	<1.4
Thallium	ug/L	<1.3	<0.26	<0.57	0.7	<0.57
Total Radium	pCi/L	0.375	0.624	1.57	1.47	0.744
Radium-226	pCi/L	0.0477	0.186	0.342	0.184	0.135
Radium-228	pCi/L	0.327	0.438	1.23	1	0.609
pH at 25 Degrees C	Std. Units	7.3	7.7	7.2	7.1	7.9
Field Oxidation Potential	mV	-76.1	-6.7	-92.7	-64.4	-113.4
Field Specific Conductance	umhos/cm	940	1026	1067	1239	1057
Field Temperature	deg C	8.1	15.4	10.8	16.1	8.6
Groundwater Elevation	feet	702.37	701.55	702.14	701.81	702.54
Oxygen, Dissolved	mg/L	0.13	0.4	0.15	0.22	-0.15
Turbidity	NTU	0.99	7.08	13.35	7.97	2.08
Collected By		--	--	--	--	--
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--
Calcium, total	ug/L	--	--	--	--	--
Iron, total	ug/L	2400	3000	3200	3300	4000
Magnesium, total	ug/L	--	--	--	--	--
Manganese, total	ug/L	--	--	--	--	--
Arsenic, dissolved	ug/L	--	--	--	--	--
Iron, dissolved	ug/L	--	--	--	--	--
Manganese, dissolved	ug/L	--	--	--	--	--
Potassium, total	ug/L	--	--	--	--	--
Sodium, total	ug/L	--	--	--	--	--

Single Location
Name: IPL - Prairie Creek Generating Station

Location ID: MW-304

Number of Sampling Dates: 26

Parameter Name	Units	12/21/2016	1/24/2017	2/23/2017	3/28/2017	4/26/2017	5/25/2017	6/28/2017	8/17/2017	10/17/2017	5/8/2018	8/6/2018	10/9/2018	3/11/2019	4/22/2019	10/29/2019	4/27/2020	10/20/2020	4/27/2021	10/21/2021	4/26/2022
Boron	ug/L	372	323	277	224	218	212	310	412	386	384	841	661	--	770	610	770	860	790	810	740
Calcium	mg/L	71	68.2	73.6	63.6	66.6	63.5	62.9	55.4	49.3	73.5	93	89	--	130	96	110	98	120	130	140
Chloride	mg/L	20.2	20.6	21.4	23.7	21.7	22.1	20.1	22.9	23.4	24.6	36.6	33.6	--	27	20	15	12	12	15	10
Fluoride	mg/L	0.84	0.8	0.72	0.78	0.87	0.79	0.86	0.84	0.78	0.58	0.55	0.61	--	0.41	0.51	0.67	0.56	0.41	0.53	<0.22
Field pH	Std. Units	7.09	7.25	7.01	7.58	7.23	7.23	7.4	7.34	8.16	7.31	6.92	7.5	5.82	7.08	6.9	6.84	6.84	6.9	7.07	7
Sulfate	mg/L	93.8	96.1	107	109	111	115	132	85.9	55.1	77.3	193	167	--	140	110	110	110	140	220	160
Total Dissolved Solids	mg/L	396	399	402	411	406	418	468	359	298	423	630	541	--	680	490	590	500	610	620	660
Antimony	ug/L	2.4	2.1	1.9	1.9	1.9	2.1	2.2	2.6	--	1.3	1.3	1.4	--	1.2	1.5	1	1	<1.1	1.1	1.4
Arsenic	ug/L	11.4	11.7	12	10.1	9.4	16.6	10.2	8.6	--	15	12.3	14.4	12.9	11	14	11	14	13	16	14
Barium	ug/L	65.3	59.8	56.4	51.6	46.6	95	51.1	48.7	--	95	121	110	--	140	110	120	110	120	120	120
Beryllium	ug/L	<0.08	<0.08	0.064	<0.012	<0.012	<0.012	<0.012	<0.012	--	<0.012	--	<0.089	--	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
Cadmium	ug/L	<0.029	<0.029	<0.018	<0.018	<0.018	0.018	0.023	<0.018	--	<0.018	<0.07	<0.033	--	<0.077	0.074	<0.039	<0.049	<0.051	<0.051	<0.055
Chromium	ug/L	0.58	0.5	0.41	<0.054	0.99	0.2	0.16	0.32	--	0.15	0.34	0.31	--	<0.98	<0.98	<1.1	<1.1	<1.1	<1.1	<1.1
Cobalt	ug/L	0.75	0.72	0.79	0.83	0.63	0.74	0.83	0.55	--	0.57	1.1	0.75	--	1.4	1.2	1.1	1.1	0.91	0.9	0.73
Lead	ug/L	<0.19	<0.19	0.11	0.043	0.061	0.1	0.042	0.034	--	0.045	0.24	<0.13	--	<0.27	0.27	<0.27	<0.11	<0.21	0.24	<0.24
Lithium	ug/L	12.1	12	10.6	8.2	9.6	8.6	9.9	14.4	--	10.8	6.9	13.4	--	17	13	11	17	14	14	16
Mercury	ug/L	<0.039	<0.039	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	--	<0.09	--	<0.09	--	<0.1	<0.1	<0.1	--	<0.15	<0.15	<0.11
Molybdenum	ug/L	33.5	29.3	27.5	28.4	28.3	28.5	32.6	33.8	--	19.8	25.4	27.6	--	23	31	26	28	25	31	24
Selenium	ug/L	1.1	1	1.4	1.2	1.5	1.8	1.7	0.85	--	0.12	0.23	0.16	--	<1	<1	<1	--	<0.96	<0.96	1
Thallium	ug/L	<0.5	<0.5	<0.036	<0.036	0.12	0.037	0.068	<0.036	--	<0.036	--	<0.099	--	<0.27	<0.27	<0.26	--	<0.26	<0.26	<0.26
Total Radium	pCi/L	1.74	0.439	0.162	0.311	0.632	0.964	1.15	0.384	--	1.26	0.768	1.31	--	--	<0.513	0.707	0.958	0.726	0.407	0.439
Radium-226	pCi/L	0.522	0.131	0.162	0.261	0.497	0.412	0.0708	0.355	--	0.589	0.271	0.175	--	--	<0.141	0.232	0.152	0.219	0.523	0.239
Radium-228	pCi/L	1.22	0.308	-0.0742	0.0497	0.135	0.552	1.08	0.0285	--	0.666	0.497	1.13	--	--	<0.513	0.475	0.807	0.507	-0.116	0.2
pH at 25 Degrees C	Std. Units	6.9	7.9	7.4	7.2	7.3	7.6	8	7.3	7.6	7.2	7.2	7.2	--	7.2	7	7	7	7.2	7.1	7.2
Field Oxidation Potential	mV	-72.9	-66.6	-80	-111.7	-15.1	-17.7	79.1	-40.9	-123	-151	-89	-18.1	-84.2	-62	-74.3	-85	-99.3	-15.8	-60.7	-54
Field Specific Conductance	umhos/cm	993	622.8	621.3	1028	1144	602	1124	856	532	514	934	812	537	1125	816	841	771	968	1053	954
Field Temperature	deg C	16.1	12.6	10.8	9.9	10.3	11.9	14.4	18.7	20.6	11.8	18.1	18.8	8.8	9.64	15.67	10.1	15.7	9.1	16.1	8.3
Groundwater Elevation	feet	703.42	704.56	704.65	703.99	705.08	705.37	704.16	702.96	703.17	705.54	702.62	707.81	704.24	703.93	704.15	702.84	702.13	702.8	701.8	703.82
Oxygen, Dissolved	mg/L	0.07	0.12	0.14	0.15	0.13	0.2	0.23	0.18	0	0.1	0.2	0.21	0.86	0.93	0.28	0.14	0.08	0.21	0.25	0.1
Turbidity	NTU	3.65	0.91	0.43	1.13	2.23	1.4	1.76	3.9	12.65	3.98	10.26	9.07	8.73	4.99	2.96	1.63	0.02	1.2	8.5	21.8
Collected By		--	0	0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	350	380	380	430
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<3.8	<4.6	<4.6	<4.6
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	350	380	380	430
Calcium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	92000	--	--	--
Iron, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2000	3100	1600	3600
Magnesium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	29000	40000	39000	47000
Manganese, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1200	1400	1300	1800
Arsenic, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14	13	15	13
Iron, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2000	3100	1500	2900
Manganese, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1200	1400	1200	1500
Potassium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5200	5000	5600	5300
Sodium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	40000	50000	39000	49000

Single Location
Name: IPL - Prairie Creek Generating Station

Location ID: MW-304

Number of Sampling Dates: 26

Parameter Name	Units	10/12/2022	4/19/2023	11/7/2023	4/15/2024	10/2/2024	4/15/2025
Boron	ug/L	960	770	1100	1200	1100	1200
Calcium	mg/L	130	130	130	150	150	130
Chloride	mg/L	12	9.5	11	13	14	12
Fluoride	mg/L	0.34	0.51	0.46	0.41	0.7	0.53
Field pH	Std. Units	7.04	7	6.83	6.87	6.68	7.01
Sulfate	mg/L	220	220	230	270	220	240
Total Dissolved Solids	mg/L	710	610	710	760	750	770
Antimony	ug/L	1.1	<5	<1	<1	<1	<1
Arsenic	ug/L	19	14	21	17	23	18
Barium	ug/L	120	100	110	120	120	110
Beryllium	ug/L	<0.27	<1.7	<0.33	<0.33	<0.33	<0.33
Cadmium	ug/L	<0.055	<0.5	<0.1	<0.1	<0.1	<0.1
Chromium	ug/L	<1.1	<5.5	<1.1	<1.2	<1.2	<1.8
Cobalt	ug/L	0.65	0.89	0.61	0.53	0.94	0.67
Lead	ug/L	<0.24	<1.2	<0.24	<0.26	<0.26	<0.33
Lithium	ug/L	15	15	17	16	22	14
Mercury	ug/L	<0.11	<0.14	<0.14	<0.11	<0.11	<0.11
Molybdenum	ug/L	27	20	37	36	26	29
Selenium	ug/L	<0.96	<7	<1.4	<1.4	<1.4	<1.4
Thallium	ug/L	<0.26	<1.3	<0.26	<0.57	0.6	<0.57
Total Radium	pCi/L	0.811	0.3	0.728	0.515	1.54	0.791
Radium-226	pCi/L	0.265	0.0991	0.282	0.137	0.168	0.219
Radium-228	pCi/L	0.545	0.201	0.446	0.378	0.558	0.572
pH at 25 Degrees C	Std. Units	7.2	7.2	7.8	7.3	7	8
Field Oxidation Potential	mV	7.5	-40.7	17	-68.1	-18.3	22.9
Field Specific Conductance	umhos/cm	1081	1014	1196	1204	1353	1157
Field Temperature	deg C	15.6	9.2	14.6	10.4	16.1	8.6
Groundwater Elevation	feet	701.86	702.43	701.54	702.08	701.76	702.47
Oxygen, Dissolved	mg/L	0.05	0.11	0.3	2.33	0.22	-0.11
Turbidity	NTU	1.65	0.02	6.37	14.46	6.37	2.06
Collected By		--	--	--	--	--	--
Bicarbonate Alkalinity as CaCO3	mg/L	390	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	<4.6	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	390	--	--	--	--	--
Calcium, total	ug/L	140000	--	--	--	--	--
Iron, total	ug/L	1200	2300	1300	3700	1700	2200
Magnesium, total	ug/L	45000	--	--	--	--	--
Manganese, total	ug/L	1300	--	--	--	--	--
Arsenic, dissolved	ug/L	20	--	--	--	--	--
Iron, dissolved	ug/L	1100	--	--	--	--	--
Manganese, dissolved	ug/L	1300	--	--	--	--	--
Potassium, total	ug/L	6000	--	--	--	--	--
Sodium, total	ug/L	46000	--	--	--	--	--

Single Location
Name: IPL - Prairie Creek Generating Station

Location ID: MW-305

Number of Sampling Dates: 26

Parameter Name	Units	12/21/2016	1/24/2017	2/23/2017	3/28/2017	4/27/2017	5/25/2017	6/28/2017	8/17/2017	10/17/2017	5/8/2018	8/6/2018	10/9/2018	3/11/2019	4/22/2019	10/29/2019	4/27/2020	10/20/2020	4/27/2021	10/20/2021	4/26/2022
Boron	ug/L	363	353	316	274	229	243	342	537	462	437	589	634	--	790	890	1000	1300	1100	1100	890
Calcium	mg/L	65.1	67.8	71.3	58.4	65	68.5	61.4	58.7	51.4	61	71.1	82.7	--	94	130	120	130	120	140	140
Chloride	mg/L	18	18.6	19.2	21	19.5	19.8	19.3	18	18.6	18.9	18.9	18.3	--	17	18	16	15	13	21	13
Fluoride	mg/L	0.63	0.56	0.53	0.55	0.66	0.57	0.68	0.65	0.63	0.61	0.62	0.61	--	0.45	0.31	0.51	0.37	<0.28	<0.28	<0.22
Field pH	Std. Units	7.32	7.51	7.13	7.65	7.42	7.42	7.49	7.58	8.08	7.65	7.12	7.05	6.92	7.12	6.89	6.82	7.07	7.07	7.21	7.1
Sulfate	mg/L	72.1	79.8	79	88.7	104	104	112	59.4	44	61.9	98.2	98.9	--	150	210	240	230	260	330	280
Total Dissolved Solids	mg/L	370	359	389	383	383	400	416	347	307	348	434	424	--	520	650	710	660	650	730	740
Antimony	ug/L	2.7	2.7	2	2	2.1	2.5	2.4	2.6	--	1.6	1.6	1.1	--	0.92	1	0.74	0.79	<1.1	<1.1	1.2
Arsenic	ug/L	15.4	15.4	16	15.2	13.9	14.7	14.9	16.7	--	14.3	13	6.6	11.6	5.9	7.3	6.2	9.8	7.9	12	7.3
Barium	ug/L	71.4	67.4	65.3	60.1	56.5	60.7	61.9	59	--	63.7	90.3	95.6	--	110	130	110	140	120	150	120
Beryllium	ug/L	<0.08	<0.08	0.064	0.016	<0.012	<0.012	<0.012	<0.012	--	<0.012	--	<0.089	--	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
Cadmium	ug/L	<0.029	<0.029	<0.018	<0.018	0.034	0.038	0.03	0.024	--	0.032	<0.07	0.04	--	0.081	0.053	0.072	<0.049	0.064	0.067	<0.055
Chromium	ug/L	0.55	0.49	0.44	<0.054	1.9	0.2	0.2	0.5	--	0.18	0.28	0.14	--	<0.98	<0.98	<1.1	<1.1	<1.1	<1.1	<1.1
Cobalt	ug/L	<0.5	<0.5	0.56	0.6	0.43	0.34	0.53	0.36	--	0.42	0.64	0.6	--	0.63	0.77	1.1	0.73	0.67	0.61	0.29
Lead	ug/L	<0.19	<0.19	0.07	<0.033	0.058	0.08	0.061	0.048	--	<0.033	0.42	<0.13	--	<0.27	0.56	<0.27	<0.11	<0.21	<0.21	<0.24
Lithium	ug/L	15.5	13.5	9.7	8.6	9.6	7.1	8.1	16.4	--	10.7	9.5	13.3	--	15	14	12	20	17	17	19
Mercury	ug/L	<0.039	<0.039	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	--	<0.09	--	<0.09	--	<0.1	<0.1	<0.1	--	<0.15	<0.15	<0.11
Molybdenum	ug/L	30.7	31	29	28.3	28.3	28.2	32.2	33.2	--	27.9	29	32	--	26	32	38	58	54	84	47
Selenium	ug/L	1.3	1.2	0.92	1	1.5	2	2.4	1.4	--	0.22	0.24	0.23	--	<1	<1	<1	--	<0.96	<0.96	1.8
Thallium	ug/L	<0.5	<0.5	<0.036	<0.036	0.051	<0.036	<0.036	0.38	--	<0.036	--	<0.099	--	<0.27	<0.27	<0.26	--	<0.26	<0.26	<0.26
Total Radium	pCi/L	0.665	0.567	0.209	0.396	0.463	0.339	2.59	0.492	--	2.07	1.38	1.38	--	--	<0.484	<0.333	0.525	0.461	0.586	0.478
Radium-226	pCi/L	0	0.374	0	0.192	0	0.215	0.431	-0.062	--	0.108	0.172	0.512	--	--	0.16	0.148	0.297	0.182	0.314	0.184
Radium-228	pCi/L	0.665	0.193	0.209	0.204	0.463	0.124	2.16	0.492	--	1.96	1.21	0.864	--	--	<0.484	<0.333	0.228	0.279	0.271	0.294
pH at 25 Degrees C	Std. Units	7.1	8	7.6	7.3	7.5	7.7	7.8	7.5	7.6	7.6	7.4	7.4	--	7.3	7.1	7.1	7.2	7.4	7.4	7.3
Field Oxidation Potential	mV	-22.4	-40.4	17.2	-52.8	-31.4	3.9	110.2	-6.8	-11	-31.9	-80	168	-78.9	4.7	-11.9	20.5	-86.4	87.1	6.5	32.4
Field Specific Conductance	umhos/cm	938	599.5	602.3	938	1107	605	1063	831	537	423.7	679	719	526	810	980	971	930	977	1117	1004
Field Temperature	deg C	14.4	12	11	10.8	11.2	12.23	14.6	18	19.9	10.9	18.5	18.3	7.54	9.48	15.87	9.6	15.5	9.3	16	7.6
Groundwater Elevation	feet	703.46	704.59	704.67	704.09	705.04	705.29	704.11	702.91	703.21	705.61	702.56	707.73	704.05	703.93	704.17	703.02	702.02	702.66	701.75	703.76
Oxygen, Dissolved	mg/L	0.16	0.16	0.1	0.19	0.16	0.17	0.2	0.16	0	0.08	0.19	0.2	1.58	1.1	0.3	0.7	0.1	0.1	0.22	0.9
Turbidity	NTU	0.65	1.14	0.4	0.46	0.66	0.22	1.16	0.29	2.29	0.65	3.43	9.54	3.61	4.58	1.79	3.97	0.02	1.1	11.5	21.7
Collected By		--	0	0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	340	290	350	230
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.9	<4.2	<4.6	<4.6
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	340	290	350	230
Calcium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	120000	--	--	--
Iron, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	220	59	150	<36
Magnesium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	36000	38000	43000	42000
Manganese, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1200	1200	1200	750
Arsenic, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8	7.4	11	7
Iron, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	180	47	97	<36
Manganese, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1100	1300	1100	660
Potassium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5400	4400	5400	4000
Sodium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	46000	53000	55000	64000

Single Location
Name: IPL - Prairie Creek Generating Station

Location ID: MW-305

Number of Sampling Dates: 26

Parameter Name	Units	10/12/2022	4/19/2023	11/7/2023	4/16/2024	10/2/2024	4/16/2025
Boron	ug/L	1200	1200	1300	1300	1200	1200
Calcium	mg/L	140	170	150	170	150	160
Chloride	mg/L	19	15	20	19	20	22
Fluoride	mg/L	<0.22	<0.38	<0.38	<0.38	<0.38	<0.38
Field pH	Std. Units	7.24	7.07	6.87	6.89	6.79	6.83
Sulfate	mg/L	330	370	330	370	270	280
Total Dissolved Solids	mg/L	850	800	890	900	780	790
Antimony	ug/L	0.72	<5	<1	<1	<1	<1
Arsenic	ug/L	12	9.9	11	10	12	10
Barium	ug/L	160	150	160	150	140	140
Beryllium	ug/L	<0.27	<1.7	<0.33	<0.33	<0.33	<0.33
Cadmium	ug/L	<0.055	<0.5	<0.1	<0.1	<0.1	<0.1
Chromium	ug/L	<1.1	<5.5	<1.1	<1.2	<1.2	<1.8
Cobalt	ug/L	0.63	<0.85	0.38	0.29	0.6	0.5
Lead	ug/L	<0.24	<1.2	<0.24	<0.26	<0.26	<0.33
Lithium	ug/L	19	20	22	21	21	17
Mercury	ug/L	<0.11	<0.14	<0.14	<0.11	<0.11	<0.11
Molybdenum	ug/L	78	35	60	42	45	37
Selenium	ug/L	<0.96	<7	<1.4	1.8	<1.4	<1.4
Thallium	ug/L	<0.26	<1.3	<0.26	<0.57	0.6	<0.57
Total Radium	pCi/L	0.539	1.24	0.446	0.609	1.05	0.707
Radium-226	pCi/L	0.317	0.252	0.093	0.0906	0.196	0.223
Radium-228	pCi/L	0.221	0.992	0.353	0.519	0.854	0.484
pH at 25 Degrees C	Std. Units	7.4	7.3	7.8	7.3	7.2	7.9
Field Oxidation Potential	mV	34	42	64.5	77.7	28.6	344.9
Field Specific Conductance	umhos/cm	1268	1192	1408	1308	1434	1197
Field Temperature	deg C	16.1	7.3	14.4	9.1	16.5	7.6
Groundwater Elevation	feet	701.73	702.36	701.38	701.96	701.63	702.33
Oxygen, Dissolved	mg/L	0.06	0.8	0.41	0.89	0.24	0.11
Turbidity	NTU	3	0.1	6.21	6.05	6.55	4.98
Collected By		--	--	--	--	--	--
Bicarbonate Alkalinity as CaCO3	mg/L	380	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	<4.6	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	380	--	--	--	--	--
Calcium, total	ug/L	160000	--	--	--	--	--
Iron, total	ug/L	91	<180	74	48	190	130
Magnesium, total	ug/L	46000	--	--	--	--	--
Manganese, total	ug/L	1600	--	--	--	--	--
Arsenic, dissolved	ug/L	13	--	--	--	--	--
Iron, dissolved	ug/L	59	--	--	--	--	--
Manganese, dissolved	ug/L	1500	--	--	--	--	--
Potassium, total	ug/L	6200	--	--	--	--	--
Sodium, total	ug/L	72000	--	--	--	--	--

Single Location
Name: IPL - Prairie Creek Generating Station

Location ID: MW-306

Number of Sampling Dates: 25

Parameter Name	Units	12/21/2016	1/24/2017	2/23/2017	3/28/2017	4/27/2017	5/25/2017	6/28/2017	8/17/2017	10/17/2017	5/8/2018	8/6/2018	10/9/2018	4/22/2019	10/29/2019	4/27/2020	10/20/2020	4/27/2021	10/20/2021	4/26/2022	10/12/2022
Boron	ug/L	2990	3050	3160	3060	3080	2890	3080	2850	2910	2930	2770	2890	3000	2400	2800	2800	2500	2200	2100	2100
Calcium	mg/L	52.4	48.4	51.2	48.8	52.8	49.1	47.5	47.7	48.1	56.2	58.7	65.1	59	61	54	54	57	57	55	57
Chloride	mg/L	45.4	40.3	36.8	38.1	32.4	34.5	32.6	31.7	28.7	28.6	28.9	30.3	25	23	22	19	17	19	17	17
Fluoride	mg/L	0.26	0.23	0.26	0.25	0.29	0.24	0.28	0.33	0.3	0.3	0.26	0.32	<0.23	<0.23	0.38	0.29	<0.28	<0.28	<0.22	<0.22
Field pH	Std. Units	7.53	7.71	7.31	7.84	7.5	7.53	7.77	7.36	8.45	7.47	7.45	7.4	7.58	7.63	6.94	7.66	7.47	7.4	7.55	7.68
Sulfate	mg/L	142	128	130	133	137	136	144	132	139	151	195	233	160	140	110	120	140	120	110	110
Total Dissolved Solids	mg/L	444	398	423	421	426	430	421	402	403	454	506	494	440	400	420	360	360	320	330	380
Antimony	ug/L	0.25	0.091	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026	--	<0.026	<0.15	<0.078	<0.53	<0.53	<0.58	<0.51	<1.1	<1.1	<0.69	<0.69
Arsenic	ug/L	0.82	0.58	0.5	0.61	0.55	0.6	0.59	0.57	--	0.58	0.7	0.72	1.9	1.6	1.3	1.1	1	0.87	<0.75	<0.75
Barium	ug/L	53	47.4	47.7	47.2	47.8	50.1	48.8	46.1	--	54.4	59.3	62.1	110	82	73	67	72	56	54	60
Beryllium	ug/L	<0.08	<0.08	0.068	0.021	<0.012	<0.012	<0.012	<0.012	--	<0.012	--	<0.089	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
Cadmium	ug/L	<0.029	<0.029	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	--	0.043	0.085	0.075	<0.077	0.095	0.09	0.1	0.11	0.099	<0.055	0.065
Chromium	ug/L	0.65	<0.34	0.34	<0.054	0.14	0.16	0.18	0.46	--	0.21	0.55	0.11	<0.98	<0.98	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
Cobalt	ug/L	<0.5	<0.5	0.16	0.11	0.077	0.068	0.078	0.065	--	0.071	0.43	0.079	0.49	0.26	0.2	0.17	0.28	<0.19	<0.19	<0.19
Lead	ug/L	<0.19	<0.19	0.075	0.13	0.15	0.3	0.068	0.037	--	0.075	1	<0.13	0.4	0.31	0.48	0.42	0.87	0.23	<0.24	<0.24
Lithium	ug/L	<4.9	<4.9	<2.9	<2.9	3.5	<2.9	<2.9	4	--	<4.6	<4.6	<4.6	3	<2.7	<2.3	<2.5	<2.5	<2.5	3.3	<2.5
Mercury	ug/L	<0.039	<0.039	<0.046	<0.046	<0.046	<0.046	<0.046	<0.046	--	<0.09	--	<0.09	<0.1	<0.1	<0.1	--	<0.15	<0.15	<0.11	<0.11
Molybdenum	ug/L	272	277	282	287	278	275	272	278	--	271	234	235	200	230	250	260	240	220	220	210
Selenium	ug/L	<0.18	<0.18	<0.086	<0.086	<0.086	0.091	<0.086	<0.086	--	<0.086	<0.16	<0.085	<1	<1	<1	--	<0.96	<0.96	<0.96	<0.96
Thallium	ug/L	<0.5	<0.5	<0.036	<0.036	<0.036	<0.036	<0.036	0.22	--	<0.036	--	<0.099	<0.27	<0.27	<0.26	--	<0.26	<0.26	<0.26	<0.26
Total Radium	pCi/L	0.843	0.481	0.391	1.07	0.785	0.831	1.14	1.05	--	0.645	1.21	1.42	--	<0.476	0.578	0.387	0.205	0.899	1.21	0.356
Radium-226	pCi/L	0	0	-0.245	0.493	0.525	0.452	0.37	0.652	--	0.394	0.541	0.157	--	<0.134	<0.14	0.135	0.205	0.257	0.081	0.0719
Radium-228	pCi/L	0.843	0.481	0.391	0.575	0.26	0.379	0.774	0.398	--	0.251	0.669	1.26	--	<0.476	<0.46	0.252	-0.062	0.642	1.13	0.284
pH at 25 Degrees C	Std. Units	7.2	7.8	7.7	7.2	7.4	7.7	7.8	7.6	7.6	7.6	7.7	7.6	7.6	7.6	7.6	7.7	7.7	7.7	7.7	7.6
Field Oxidation Potential	mV	-80.4	-88.9	-48.1	-140.5	-64.3	-111.6	36.6	-31.2	-128	-94	-81	-41.1	-97.6	-145.7	-142	-199.7	-104.7	-124.2	-119.8	-100.1
Field Specific Conductance	umhos/cm	1079	644	629	1023	1165	624	1067	828	636	663	731	736	703	633	539.7	538.5	580	562.5	513.8	578.7
Field Temperature	deg C	13.2	13.4	13.4	13.6	13.1	13.49	13.5	13.6	14.7	13.6	16.4	15.6	12.87	12.56	13.2	12.5	13.4	12.9	12.3	12.6
Groundwater Elevation	feet	703.32	704.49	704.59	703.99	704.98	705.34	703.94	702.74	703.16	705.51	702.68	707.88	704.23	704.4	703.35	702.26	702.75	702.02	704.02	701.97
Oxygen, Dissolved	mg/L	0.11	0.23	0.13	0.12	0.17	0.15	0.21	0.04	0.8	3	1.4	0.45	0.99	0.29	0.18	0.13	0.34	0.24	0.16	0.49
Turbidity	NTU	1.97	2.25	0.79	0.77	0.43	0.3	0.59	1.04	3.45	0.62	14.59	1.74	21.3	8.16	3.92	19.93	1.2	12.7	18.9	4.93
Collected By		--	0	0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	160	130	200	130	190
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.9	<3.1	<4.6	<4.6	<4.6
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	160	130	200	130	190
Calcium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	54000	--	--	--	60000
Iron, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1800	1700	1800	1700	1800
Magnesium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12000	12000	12000	13000	13000
Manganese, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	110	100	110	100	110
Iron, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1500	1500	1600	1400	1600
Manganese, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100	100	96	93	110
Molybdenum, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	250	240	210	230	210
Potassium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	860	880	820	900	1000
Sodium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	54000	52000	47000	55000	55000

Single Location
Name: IPL - Prairie Creek Generating Station

Location ID: MW-306

Number of Sampling Dates: 25

Parameter Name	Units	4/19/2023	11/7/2023	4/15/2024	10/2/2024	4/16/2025
Boron	ug/L	2300	2200	2300	1900	2300
Calcium	mg/L	66	74	86	92	99
Chloride	mg/L	18	19	19	22	20
Fluoride	mg/L	0.49	<0.38	<0.38	<0.38	<0.38
Field pH	Std. Units	7.6	7.31	7.4	7.28	7.39
Sulfate	mg/L	130	130	160	150	160
Total Dissolved Solids	mg/L	360	450	480	510	530
Antimony	ug/L	<5	<1	<1	<1	<1
Arsenic	ug/L	<2.7	0.63	0.64	<0.53	0.58
Barium	ug/L	62	68	78	81	94
Beryllium	ug/L	<1.7	<0.33	<0.33	<0.33	<0.33
Cadmium	ug/L	<0.5	<0.1	<0.1	<0.1	<0.1
Chromium	ug/L	<5.5	<1.1	<1.2	<1.2	<1.8
Cobalt	ug/L	<0.85	<0.17	<0.17	<0.17	<0.17
Lead	ug/L	<1.2	<0.24	<0.26	<0.26	<0.33
Lithium	ug/L	<13	<2.5	2.7	2.7	<2.9
Mercury	ug/L	<0.14	<0.14	<0.11	<0.11	<0.11
Molybdenum	ug/L	200	150	160	120	140
Selenium	ug/L	<7	<1.4	<1.4	<1.4	<1.4
Thallium	ug/L	<1.3	<0.26	<0.57	<0.57	<0.57
Total Radium	pCi/L	0.809	0.62	0.328	1.17	0.52
Radium-226	pCi/L	0.0792	0.235	0.0785	0.183	0.0926
Radium-228	pCi/L	0.729	0.384	0.249	0.982	0.427
pH at 25 Degrees C	Std. Units	7.7	8	7.6	7.6	8.1
Field Oxidation Potential	mV	-124	-58.2	-113	-82.5	-37.5
Field Specific Conductance	umhos/cm	632	803	767	984	901
Field Temperature	deg C	12	12.2	12.8	12.7	15
Groundwater Elevation	feet	702.74	701.68	702.25	701.99	702.71
Oxygen, Dissolved	mg/L	0.35	0.49	0.97	1.46	1.49
Turbidity	NTU	0.02	7.16	6.34	10.47	7.75
Collected By		--	--	--	--	--
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--
Calcium, total	ug/L	--	--	--	--	--
Iron, total	ug/L	2000	2200	2700	2900	3300
Magnesium, total	ug/L	--	--	--	--	--
Manganese, total	ug/L	--	--	--	--	--
Iron, dissolved	ug/L	--	--	--	--	--
Manganese, dissolved	ug/L	--	--	--	--	--
Molybdenum, dissolved	ug/L	--	--	--	--	--
Potassium, total	ug/L	--	--	--	--	--
Sodium, total	ug/L	--	--	--	--	--

Single Location
Name: IPL - Prairie Creek Generating Station

Location ID: MW-306A

Number of Sampling Dates: 11

Parameter Name	Units	9/15/2020	10/20/2020	4/27/2021	10/20/2021	4/26/2022	10/12/2022	4/19/2023	11/7/2023	4/15/2024	10/2/2024	4/16/2025
Boron	ug/L	2100	2400	2400	2100	2200	2200	--	--	--	--	--
Calcium	mg/L	150	150	150	150	150	150	--	--	--	--	--
Chloride	mg/L	63	65	66	70	62	66	--	--	--	--	--
Fluoride	mg/L	<0.23	<0.23	<0.28	<0.28	<0.22	<0.22	--	--	--	--	--
Field pH	Std. Units	7.87	7.29	7.24	7.21	7.21	7.26	7.32	7.09	7.11	7.12	7.17
Sulfate	mg/L	330	350	350	360	320	340	--	--	--	--	--
Total Dissolved Solids	mg/L	840	800	790	760	780	790	--	--	--	--	--
Antimony	ug/L	<0.51	0.64	<1.1	<1.1	<0.69	<0.69	--	--	--	--	--
Arsenic	ug/L	<0.88	<0.88	<0.75	<0.75	<0.75	<0.75	<2.7	<0.53	<0.53	<0.53	<0.53
Barium	ug/L	180	170	160	130	130	140	--	--	--	--	--
Beryllium	ug/L	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	--	--	--	--	--
Cadmium	ug/L	0.073	<0.049	<0.051	<0.051	<0.055	<0.055	--	--	--	--	--
Chromium	ug/L	1.9	<1.1	<1.1	<1.1	<1.1	<1.1	--	--	--	--	--
Cobalt	ug/L	1.3	0.49	0.15	<0.19	<0.19	<0.19	--	--	--	--	--
Lead	ug/L	1.8	0.79	<0.21	<0.21	<0.24	<0.24	--	--	--	--	--
Lithium	ug/L	4.1	6.3	5.8	5.3	7.8	5.1	<13	5.8	6.3	6.4	6.1
Mercury	ug/L	<0.1	--	<0.15	<0.15	<0.11	<0.11	--	--	--	--	--
Molybdenum	ug/L	8.6	13	16	15	17	19	21	20	20	18	21
Selenium	ug/L	<1	--	<0.96	<0.96	<0.96	<0.96	--	--	--	--	--
Thallium	ug/L	<0.26	--	<0.26	<0.26	<0.26	<0.26	--	--	--	--	--
Total Radium	pCi/L	0.427	0.898	0.642	0.368	0.859	0.861	--	--	--	--	--
Radium-226	pCi/L	0.453	0.413	0.257	0.253	0.375	0.268	--	--	--	--	--
Radium-228	pCi/L	-0.0262	0.485	0.385	0.115	0.484	0.593	--	--	--	--	--
pH at 25 Degrees C	Std. Units	7.3	7.4	7.5	7.3	7.4	7.4	--	--	--	--	--
Field Oxidation Potential	mV	-100.3	-139.7	-17.8	-66.1	-77.6	-81.5	-84.6	29.7	-66.9	-7.1	137.2
Field Specific Conductance	umhos/cm	1180	1054	873	1109	1036	1148	1163	1285	1215	1427	1222
Field Temperature	deg C	14.1	12.7	13.6	13.1	12.1	13.1	12.1	12.6	12.8	14.3	13.3
Groundwater Elevation	feet	--	--	703.63	702.31	704.16	702.18	703.03	701.92	702.48	702.22	702.94
Oxygen, Dissolved	mg/L	0.13	0.13	0.11	0.26	0.14	0.14	0.19	0.24	0.15	3.13	0.02
Turbidity	NTU	118.1	20.8	2.4	10.4	21.5	5.51	0.02	8.3	9.15	8.89	7.09
Bicarbonate Alkalinity as CaCO3	mg/L	--	200	200	320	230	220	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	--	<3.8	<4.6	<4.6	<4.6	<4.6	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	200	200	320	230	220	--	--	--	--	--
Calcium, total	ug/L	--	140000	--	--	--	160000	--	--	--	--	--
Iron, total	ug/L	--	2800	1800	1700	1900	1800	1800	--	--	--	--
Magnesium, total	ug/L	--	45000	46000	45000	49000	47000	--	--	--	--	--
Manganese, total	ug/L	--	410	360	380	390	390	--	--	--	--	--
Iron, dissolved	ug/L	--	1700	1700	1600	1600	1600	--	--	--	--	--
Manganese, dissolved	ug/L	--	360	380	340	350	380	--	--	--	--	--
Potassium, total	ug/L	--	1600	1600	1700	1700	1800	--	--	--	--	--
Sodium, total	ug/L	--	33000	34000	33000	40000	39000	--	--	--	--	--

Single Location
Name: IPL - Prairie Creek Generating Station

Location ID: MW-307

Number of Sampling Dates: 13

Parameter Name	Units	4/23/2019	10/28/2019	5/27/2020	10/19/2020	4/26/2021	10/21/2021	4/25/2022	10/12/2022	4/20/2023	11/7/2023	4/18/2024	10/1/2024	4/16/2025
Boron	ug/L	840	730	630	890	1000	960	650	1200	600	1200	1300	960	1200
Calcium	mg/L	22	18	16	21	21	16	27	21	26	23	31	25	28
Chloride	mg/L	15	3.5	4.2	<2	10	2.5	31	2.8	17	2.4	5.9	<2.3	10
Fluoride	mg/L	0.54	0.67	0.49	0.29	0.31	0.4	<0.22	<0.22	0.53	<0.38	<0.38	<0.38	<0.38
Field pH	Std. Units	10.05	9.58	8.28	9.26	7.2	8.84	9.47	9.13	9.17	9.48	9.38	8.88	8.92
Sulfate	mg/L	52	32	32	30	42	36	36	50	29	50	70	45	41
Total Dissolved Solids	mg/L	150	140	38	80	82	26	100	110	66	110	140	140	170
Antimony	ug/L	0.92	1.2	0.83	1	<1.1	<1.1	0.72	0.7	<5	<1	1.2	<1	1.6
Arsenic	ug/L	3.8	7.4	6.1	6.7	6.5	6.2	4.2	6.1	6.2	7.7	6.1	6.7	6.5
Barium	ug/L	30	34	26	45	36	35	52	58	50	41	52	59	65
Beryllium	ug/L	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<1.7	<0.33	<0.33	<0.33	<0.33
Cadmium	ug/L	<0.077	<0.039	<0.039	<0.049	<0.051	<0.051	<0.055	<0.055	<0.5	<0.1	<0.1	<0.1	<0.1
Chromium	ug/L	<0.98	<0.98	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<5.5	<1.1	<1.2	<1.2	<1.8
Cobalt	ug/L	0.091	<0.091	<0.091	<0.091	<0.091	<0.19	<0.19	<0.19	<0.85	<0.17	<0.17	<0.17	<0.17
Lead	ug/L	<0.27	<0.27	<0.27	<0.11	<0.21	<0.21	<0.24	<0.24	2.9	<0.24	<0.26	<0.26	<0.33
Lithium	ug/L	10	15	8.3	16	9.4	10	12	13	<13	7.7	9.3	14	11
Mercury	ug/L	<0.1	<0.1	<0.1	--	<0.15	<0.15	<0.11	<0.11	<0.14	<0.14	<0.11	<0.11	<0.11
Molybdenum	ug/L	5.8	5.2	7	5.2	8.5	6.6	8.4	7.2	21	10	15	8.2	11
Selenium	ug/L	<1	<1	<1	--	2.5	<0.96	2.5	2.4	<7	5.8	8.5	4.5	12
Thallium	ug/L	<0.27	<0.27	<0.26	--	<0.26	<0.26	<0.26	<0.26	<1.3	<0.26	<0.57	<0.57	<0.57
Total Radium	pCi/L	--	<0.377	<0.458	0.233	0.043	0.242	0.331	0.362	0.0723	0.23	0.386	1.03	0.477
Radium-226	pCi/L	--	<0.135	<0.139	-0.043	0.043	0.141	0.0224	0.16	0.0723	0.109	0.0805	0.0426	0.158
Radium-228	pCi/L	--	<0.377	<0.458	0.233	-0.0204	0.101	0.309	0.202	-0.0878	0.121	0.306	0.986	0.319
pH at 25 Degrees C	Std. Units	9.8	9.6	9.2	9.4	9.6	9.2	9.2	9.1	9.3	8.9	9.5	9	8.4
Field Oxidation Potential	mV	-53.1	-29.9	109.8	-123.4	11.6	130.8	8	17.5	102.7	-164.6	54.8	71.5	278.7
Field Specific Conductance	umhos/cm	225	157	243.5	145.2	857	142.5	235.3	187.4	214.8	199.7	244.1	239.2	274
Field Temperature	deg C	11.72	18.43	12.6	18.7	9	17.4	10.2	21.4	11.5	18.6	11.6	21.4	12.3
Groundwater Elevation	feet	709.86	708.57	708.14	706.56	706.38	706.29	708.27	705.32	707.21	704.67	706.22	705.64	705.92
Oxygen, Dissolved	mg/L	1.54	0.27	0.19	0.09	0.11	0.24	0.09	0.09	0.23	0.18	0.26	0.52	-0.13
Turbidity	NTU	15.6	2.16	2.98	2.09	2.8	10.7	14.8	3.08	0.02	3.95	7.35	5.77	4.08
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	41	9.9	82	39	96	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	<1.9	9.9	<4.6	<4.6	<4.6	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	--	--	41	20	82	39	96	--	--	--	--	--
Calcium, total	ug/L	--	--	--	19000	--	--	--	22000	--	--	--	--	--
Iron, total	ug/L	--	--	--	<50	<36	<36	<36	<36	<180	<36	<36	<36	<50
Magnesium, total	ug/L	--	--	--	2300	1300	1400	2300	3300	--	--	--	--	--
Manganese, total	ug/L	--	--	--	<4	<4.4	<4.4	<3.6	<3.6	--	--	--	--	--
Iron, dissolved	ug/L	--	--	--	<50	<36	<36	<36	<36	--	--	--	--	--
Manganese, dissolved	ug/L	--	--	--	<4	<4.4	<4.4	<3.6	3.6	--	--	--	--	--
Potassium, total	ug/L	--	--	--	1600	1400	1300	1700	1900	--	--	--	--	--
Sodium, total	ug/L	--	--	--	4600	9500	5500	10000	8000	--	--	--	--	--

Single Location
Name: IPL - Prairie Creek Generating Station

Location ID: MW-308

Number of Sampling Dates: 15

Parameter Name	Units	4/23/2019	10/28/2019	5/27/2020	10/19/2020	4/26/2021	7/14/2021	10/21/2021	2/22/2022	4/25/2022	10/12/2022	4/20/2023	11/7/2023	4/18/2024	10/1/2024	4/15/2025
Boron	ug/L	5700	6100	6100	6400	5900	--	6100	--	4300	6000	5500	5000	5300	6500	6300
Calcium	mg/L	59	60	68	54	65	--	53	--	76	52	96	58	120	110	84
Chloride	mg/L	15	13	11	8.4	7.9	--	8.1	--	8.3	6.6	6.2	6	6.7	6	6.1
Fluoride	mg/L	0.77	0.26	0.54	<0.23	<0.28	--	<0.28	--	<0.22	<0.22	0.52	<0.38	<0.38	<0.38	<0.38
Field pH	Std. Units	9.24	9.19	7.86	9.23	7.15	9.65	9.17	8.99	9.22	9.14	9.2	9.03	8.88	8.85	9.09
Sulfate	mg/L	190	190	180	150	200	--	140	--	170	180	240	170	260	260	250
Total Dissolved Solids	mg/L	450	460	390	370	430	--	270	--	400	370	450	370	520	550	560
Antimony	ug/L	1.4	1.7	0.7	1.4	<1.1	--	3	--	0.84	<0.69	<5	<1	<1	<1	1.8
Arsenic	ug/L	45	63	58	50	53	--	48	--	44	39	46	42	34	44	40
Barium	ug/L	39	38	38	53	50	--	36	--	54	41	71	50	83	72	73
Beryllium	ug/L	<0.27	<0.27	<0.27	<0.27	<0.27	--	<0.27	--	<0.27	<0.27	<1.7	<0.33	<0.33	<0.33	<0.33
Cadmium	ug/L	<0.077	0.077	0.04	0.071	0.055	--	<0.051	--	<0.055	<0.055	<0.5	<0.1	<0.1	<0.1	<0.1
Chromium	ug/L	<0.98	<0.98	<1.1	<4.4	<1.1	--	<1.1	--	<1.1	<1.1	<5.5	<1.1	<1.2	<6	<1.8
Cobalt	ug/L	<0.091	<0.091	<0.091	<0.36	<0.091	--	<0.19	--	<0.19	<0.19	<0.85	<0.17	<0.17	<0.17	<0.17
Lead	ug/L	<0.27	<0.27	<0.27	<0.11	<0.21	--	0.29	--	<0.24	<0.24	<1.2	<0.24	<0.26	<0.26	<0.33
Lithium	ug/L	29	31	35	47	39	47	39	37	50	42	53	44	62	59	44
Mercury	ug/L	<0.1	<0.1	<0.1	--	<0.15	--	<0.15	--	<0.11	<0.11	<0.14	<0.14	<0.11	<0.11	<0.11
Molybdenum	ug/L	58	58	64	58	53	--	58	--	73	63	88	63	93	76	87
Selenium	ug/L	<1	2.2	<1	--	<0.96	--	<0.96	--	5.9	<0.96	<7	<1.4	<1.4	<1.4	1.5
Thallium	ug/L	<0.27	<0.27	<0.26	--	<0.26	--	<0.26	--	<0.26	<0.26	<1.3	<0.26	<0.57	<0.57	<0.57
Total Radium	pCi/L	--	<0.488	<0.488	1.05	0.361	--	0.219	--	0.299	0.514	0.0698	0.267	0.462	0.412	0.486
Radium-226	pCi/L	--	<0.127	<0.204	-0.21	0.0686	--	0.102	--	0.0556	0.186	0.0514	0.186	0.0318	0.0677	0.0767
Radium-228	pCi/L	--	<0.488	<0.488	1.05	0.292	--	0.116	--	0.243	0.328	0.0183	0.081	0.43	0.344	0.41
pH at 25 Degrees C	Std. Units	8.9	9.2	9.1	9.4	9.1	--	9.2	--	9.1	9.1	9.1	8.8	9.1	9	8.8
Field Oxidation Potential	mV	-62.5	-58.1	-22.4	-178	10.7	-228.9	-170.3	210.7	-113.8	-19.1	-116.4	-219.3	-112.9	-138.8	33.7
Field Specific Conductance	umhos/cm	659	618	1008	318.1	743	551.7	507.2	486	616.7	577.7	689	572	788	902	753
Field Temperature	deg C	12.11	15.05	12.7	14.9	9	15.3	14.6	12.2	11.1	15.1	12.4	14.6	12.1	15.9	13.7
Groundwater Elevation	feet	706.19	706.31	705.64	703.87	705.05	703.38	703.21	702.84	705.45	702.6	703.97	702.18	703.51	703.06	704.28
Oxygen, Dissolved	mg/L	1.16	0.43	0.1	0.21	0.16	0.13	0.2	0.14	0.06	0.07	0.15	0.11	0.29	0.26	0.01
Turbidity	NTU	2.13	2.44	2.33	1.08	9.5	0.14	9.8	0	16.6	3.57	0.02	6.89	6.45	7.96	2.44
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	82	89	--	52	--	49	130	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	41	39	--	62	--	98	<4.6	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	--	--	120	130	--	110	--	150	130	--	--	--	--	--
Calcium, total	ug/L	--	--	--	43000	--	--	--	--	--	57000	--	--	--	--	--
Iron, total	ug/L	--	--	--	<50	<36	--	<36	--	<36	<36	<180	<36	<36	<36	<50
Magnesium, total	ug/L	--	--	--	3100	7000	--	2600	--	8100	3300	--	--	--	--	--
Manganese, total	ug/L	--	--	--	47	85	--	38	--	92	58	--	--	--	--	--
Arsenic, dissolved	ug/L	--	--	--	44	50	--	50	--	43	41	--	--	--	--	--
Iron, dissolved	ug/L	--	--	--	<50	<36	--	<36	--	<36	<36	--	--	--	--	--
Manganese, dissolved	ug/L	--	--	--	52	85	--	36	--	79	58	--	--	--	--	--
Potassium, total	ug/L	--	--	--	5300	6800	--	6900	--	8600	6700	--	--	--	--	--
Sodium, total	ug/L	--	--	--	33000	46000	--	42000	--	53000	37000	--	--	--	--	--

Single Location
Name: IPL - Prairie Creek Generating Station

Location ID: MW-309

Number of Sampling Dates: 13

Parameter Name	Units	10/29/2019	1/9/2020	4/27/2020	10/21/2020	4/27/2021	10/22/2021	4/27/2022	10/12/2022	4/19/2023	11/7/2023	4/15/2024	10/2/2024	4/16/2025
Boron	ug/L	1000	1000	1100	1800	1200	1200	970	1500	--	--	--	--	--
Calcium	mg/L	120	130	120	120	120	110	130	110	--	--	--	--	--
Chloride	mg/L	18	17	16	13	12	17	14	14	--	--	--	--	--
Fluoride	mg/L	0.68	0.51	0.75	0.61	0.36	0.36	<0.22	0.24	--	--	--	--	--
Field pH	Std. Units	7.33	6.95	7.09	7.22	7.34	7.42	7.24	7.46	7.37	7.32	7.1	7.14	7.1
Sulfate	mg/L	130	130	130	170	110	130	95	140	--	--	--	--	--
Total Dissolved Solids	mg/L	550	650	630	620	560	480	530	590	--	--	--	--	--
Antimony	ug/L	<0.53	<0.53	<0.58	<0.51	<1.1	<1.1	<0.69	<0.69	--	--	--	--	--
Arsenic	ug/L	140	110	75	89	100	75	39	47	28	46	34	27	20
Barium	ug/L	130	130	130	130	190	100	100	110	--	--	--	--	--
Beryllium	ug/L	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	--	--	--	--	--
Cadmium	ug/L	<0.039	<0.039	<0.039	<0.049	<0.051	<0.051	<0.055	<0.055	--	--	--	--	--
Chromium	ug/L	<0.98	<0.98	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	--	--	--	--	--
Cobalt	ug/L	0.42	0.23	0.35	0.14	0.12	<0.19	0.2	<0.19	--	--	--	--	--
Lead	ug/L	0.54	<0.27	<0.27	<0.11	<0.21	<0.21	<0.24	<0.24	--	--	--	--	--
Lithium	ug/L	15	15	13	19	15	15	16	15	16	16	15	19	16
Mercury	ug/L	<0.1	<0.1	<0.1	--	<0.15	<0.15	<0.11	<0.11	--	--	--	--	--
Molybdenum	ug/L	19	18	19	21	17	24	18	23	21	20	17	19	15
Selenium	ug/L	<1	<1	<1	--	<0.96	<0.96	1.1	<0.96	--	--	--	--	--
Thallium	ug/L	<0.27	<0.27	<0.26	--	<0.26	<0.26	<0.26	<0.26	--	--	--	--	--
Total Radium	pCi/L	0.801	0.543	0.837	0.815	0.829	0.818	0.739	1.07	--	--	--	--	--
Radium-226	pCi/L	0.346	0.176	0.211	0.199	0.337	0.288	0.112	0.205	--	--	--	--	--
Radium-228	pCi/L	0.455	<0.386	0.627	0.616	0.492	0.531	0.627	0.863	--	--	--	--	--
pH at 25 Degrees C	Std. Units	7.4	7.4	7.2	7.4	7.7	7.5	7.4	7.6	--	--	--	--	--
Field Oxidation Potential	mV	-103.8	-335.3	-117.7	-145.9	-55.8	-123.4	-3.2	-134.7	-88.6	-142.7	-93.9	-95.9	-52.8
Field Specific Conductance	umhos/cm	931	1016	898	955	914	855	948	902	1066	945	1036	1240	1071
Field Temperature	deg C	18.6	15.69	13.2	18.8	13.6	17.9	11.7	18.2	12.6	16.7	14.4	19.7	12.9
Groundwater Elevation	feet	703.84	703.1	702.84	701.97	702.68	701.7	703.56	702.08	702.3	701.59	702.06	701.76	702.43
Oxygen, Dissolved	mg/L	7.45	4.42	0.06	0.1	0.11	0.21	0.1	0.21	0.19	0.22	1	0.31	-0.12
Turbidity	NTU	4.96	1.81	4.21	1.86	0.7	19.8	11.4	4.59	5.19	6.06	7.26	7.1	3.87
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	360	410	390	440	380	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	<3.8	<4.6	<4.6	<4.6	<4.6	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	--	--	360	410	390	440	380	--	--	--	--	--
Calcium, total	ug/L	--	--	--	100000	--	--	--	120000	--	--	--	--	--
Iron, total	ug/L	--	--	--	1200	4400	1300	1700	1300	2100	--	--	--	--
Magnesium, total	ug/L	--	--	--	33000	39000	32000	37000	33000	--	--	--	--	--
Manganese, total	ug/L	--	--	--	920	1400	1300	1600	910	--	--	--	--	--
Arsenic, dissolved	ug/L	--	--	--	78	62	72	36	48	--	--	--	--	--
Iron, dissolved	ug/L	--	--	--	1200	1300	1200	1300	860	--	--	--	--	--
Manganese, dissolved	ug/L	--	--	--	980	1400	1200	1400	890	--	--	--	--	--
Potassium, total	ug/L	--	--	--	4800	4400	4800	4600	5200	--	--	--	--	--
Sodium, total	ug/L	--	--	--	34000	35000	34000	36000	38000	--	--	--	--	--

Single Location
Name: IPL - Prairie Creek Generating Station

Location ID: MW-309A

Number of Sampling Dates: 11

Parameter Name	Units	9/15/2020	10/21/2020	4/27/2021	10/22/2021	4/26/2022	10/12/2022	4/19/2023	11/7/2023	4/15/2024	10/2/2024	4/16/2025
Boron	ug/L	530	470	780	740	830	660	--	--	--	--	--
Calcium	mg/L	100	110	110	110	120	110	--	--	--	--	--
Chloride	mg/L	23	24	26	30	25	30	--	--	--	--	--
Fluoride	mg/L	<0.23	<0.23	<0.28	<0.28	<0.22	<0.22	--	--	--	--	--
Field pH	Std. Units	7.26	7.33	7.1	7.19	7.18	7.13	7.32	7.16	7.02	7.01	7.11
Sulfate	mg/L	110	110	130	140	120	130	--	--	--	--	--
Total Dissolved Solids	mg/L	490	460	490	440	490	520	--	--	--	--	--
Antimony	ug/L	<0.51	<0.51	<1.1	<1.1	<0.69	<0.69	--	--	--	--	--
Arsenic	ug/L	<0.88	<0.88	0.98	0.87	0.79	0.77	<2.7	1	0.84	0.88	0.79
Barium	ug/L	170	170	190	180	180	190	--	--	--	--	--
Beryllium	ug/L	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	--	--	--	--	--
Cadmium	ug/L	<0.049	<0.049	<0.051	<0.051	<0.055	<0.055	--	--	--	--	--
Chromium	ug/L	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	--	--	--	--	--
Cobalt	ug/L	0.22	0.32	0.3	0.32	0.34	0.22	--	--	--	--	--
Lead	ug/L	<0.11	<0.11	<0.21	<0.21	<0.24	<0.24	--	--	--	--	--
Lithium	ug/L	4.1	5.9	5.8	4.9	8.4	5.7	<13	6.2	7.2	6.6	5.4
Mercury	ug/L	<0.1	--	<0.15	<0.15	<0.11	<0.11	--	--	--	--	--
Molybdenum	ug/L	8.5	7.1	9.1	11	11	9	10	8.9	11	7.5	9.5
Selenium	ug/L	<1	--	<0.96	<0.96	<0.96	<0.96	--	--	--	--	--
Thallium	ug/L	<0.26	--	<0.26	<0.26	<0.26	<0.26	--	--	--	--	--
Total Radium	pCi/L	0.783	0.509	1.06	2.49	0.981	1.21	--	--	--	--	--
Radium-226	pCi/L	0.23	0.0367	0.404	0.306	0.318	0.411	--	--	--	--	--
Radium-228	pCi/L	0.553	0.473	0.659	2.18	0.663	0.802	--	--	--	--	--
pH at 25 Degrees C	Std. Units	7.2	7.4	7.3	7.3	7.2	7.1	--	--	--	--	--
Field Oxidation Potential	mV	-144.8	-181.6	-36.1	-144.2	-135.7	-106.4	-119.6	-150.2	-115.7	-78.3	-97
Field Specific Conductance	umhos/cm	815	749	907	824	770	837	893	917	907	1046	853
Field Temperature	deg C	16.1	15.7	14.1	15.6	14.4	16	14.7	15.4	15	17	15.4
Groundwater Elevation	feet	--	--	702.92	701.6	702.93	702.12	702.61	701.7	702.27	702	701.77
Oxygen, Dissolved	mg/L	0.14	0.13	4.8	0.32	0.2	0.19	0.18	0.39	0.45	1.94	0.13
Turbidity	NTU	1.3	1.46	12.5	19.8	8.18	1.3	0.02	3.7	4	9.06	5.19
Bicarbonate Alkalinity as CaCO3	mg/L	--	280	290	370	290	290	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	--	<1.9	<4.6	<4.6	<4.6	<4.6	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	280	290	370	290	290	--	--	--	--	--
Calcium, total	ug/L	--	100000	--	--	--	120000	--	--	--	--	--
Iron, total	ug/L	--	7500	9100	8900	9700	9500	9800	--	--	--	--
Magnesium, total	ug/L	--	29000	31000	31000	32000	32000	--	--	--	--	--
Manganese, total	ug/L	--	710	770	740	800	770	--	--	--	--	--
Iron, dissolved	ug/L	--	7600	8600	8700	8800	9100	--	--	--	--	--
Manganese, dissolved	ug/L	--	710	760	720	740	800	--	--	--	--	--
Potassium, total	ug/L	--	1700	2000	2000	2100	2300	--	--	--	--	--
Sodium, total	ug/L	--	14000	21000	18000	22000	21000	--	--	--	--	--

Single Location
Name: IPL - Prairie Creek Generating Station

Location ID: MW-310

Number of Sampling Dates: 13

Parameter Name	Units	10/29/2019	1/9/2020	4/27/2020	10/21/2020	4/27/2021	10/22/2021	4/27/2022	10/12/2022	4/19/2023	11/7/2023	4/15/2024	10/3/2024	4/16/2025
Boron	ug/L	950	940	880	1300	850	870	860	1100	--	--	--	--	--
Calcium	mg/L	88	85	87	110	110	110	120	130	--	--	--	--	--
Chloride	mg/L	20	19	20	20	18	24	22	22	--	--	--	--	--
Fluoride	mg/L	0.53	0.61	0.93	<0.23	0.36	0.47	<0.22	<0.22	--	--	--	--	--
Field pH	Std. Units	7.3	7.33	7.41	7.2	7.21	7.28	7.3	7.26	7.39	7.19	7.13	7.03	7.13
Sulfate	mg/L	130	130	130	170	140	160	140	210	--	--	--	--	--
Total Dissolved Solids	mg/L	430	500	520	580	550	490	530	690	--	--	--	--	--
Antimony	ug/L	<0.53	<0.53	<0.58	<0.51	<1.1	<1.1	<0.69	<0.69	--	--	--	--	--
Arsenic	ug/L	31	28	23	36	25	25	20	23	24	27	22	25	18
Barium	ug/L	130	140	140	160	160	150	160	190	--	--	--	--	--
Beryllium	ug/L	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	--	--	--	--	--
Cadmium	ug/L	<0.039	<0.039	<0.039	<0.049	<0.051	<0.051	<0.055	<0.055	--	--	--	--	--
Chromium	ug/L	<0.98	<0.98	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	--	--	--	--	--
Cobalt	ug/L	0.17	0.095	0.098	0.11	0.098	<0.19	<0.19	<0.19	--	--	--	--	--
Lead	ug/L	<0.27	<0.27	<0.27	<0.11	<0.21	<0.21	<0.24	<0.24	--	--	--	--	--
Lithium	ug/L	15	14	11	18	15	14	18	15	15	16	17	19	16
Mercury	ug/L	<0.1	<0.1	<0.1	--	<0.15	<0.15	<0.11	<0.11	--	--	--	--	--
Molybdenum	ug/L	60	59	55	71	43	45	45	58	33	40	32	41	30
Selenium	ug/L	<1	<1	<1	--	<0.96	<0.96	<0.96	<0.96	--	--	--	--	--
Thallium	ug/L	<0.27	<0.27	<0.26	--	<0.26	<0.26	<0.26	<0.26	--	--	--	--	--
Total Radium	pCi/L	<0.471	<0.377	0.341	0.351	1.11	0.588	0.576	0.813	--	--	--	--	--
Radium-226	pCi/L	0.211	0.232	0.226	0.17	0.453	0.136	0.181	0.438	--	--	--	--	--
Radium-228	pCi/L	<0.471	<0.377	<0.341	0.182	0.652	0.452	0.395	0.375	--	--	--	--	--
pH at 25 Degrees C	Std. Units	7.3	7.5	7.3	7.4	7.5	7.5	7.4	7.4	--	--	--	--	--
Field Oxidation Potential	mV	-129.8	-342.4	-148.01	-162.5	-115.1	-145.2	-125.3	-149.1	-128.4	-149.8	-119.7	-48.3	-65.2
Field Specific Conductance	umhos/cm	801	784	734	894	893	880	972	1039	1060	1014	1097	1480	1117
Field Temperature	deg C	16.48	15.23	12.9	17.5	13.3	16.3	11.8	17.3	12.2	16.2	13.7	17.6	13.7
Groundwater Elevation	feet	703.71	702.81	702.53	701.78	702.11	701.48	703.33	701.73	702.04	701.34	701.73	701.5	702.18
Oxygen, Dissolved	mg/L	7.59	3.72	0.09	0.14	0.09	0.22	0.08	0.07	0.19	0.17	0.17	0.25	1.34
Turbidity	NTU	3.03	3.3	6.3	3.72	8.4	20	10.2	0.58	4.61	8.31	6.56	8.05	10.36
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	300	350	380	350	370	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	<3.8	<4.6	<4.6	<4.6	<4.6	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	--	--	300	350	380	350	370	--	--	--	--	--
Calcium, total	ug/L	--	--	--	100000	--	--	--	140000	--	--	--	--	--
Iron, total	ug/L	--	--	--	4400	5700	4500	4900	5800	6800	--	--	--	--
Magnesium, total	ug/L	--	--	--	26000	31000	29000	35000	34000	--	--	--	--	--
Manganese, total	ug/L	--	--	--	980	1400	1200	1300	1400	--	--	--	--	--
Arsenic, dissolved	ug/L	--	--	--	32	23	25	19	24	--	--	--	--	--
Iron, dissolved	ug/L	--	--	--	4100	5500	4200	4000	4400	--	--	--	--	--
Manganese, dissolved	ug/L	--	--	--	960	1400	1100	1100	1300	--	--	--	--	--
Potassium, total	ug/L	--	--	--	5800	5200	5400	5800	6400	--	--	--	--	--
Sodium, total	ug/L	--	--	--	53000	41000	37000	48000	56000	--	--	--	--	--

Single Location
Name: IPL - Prairie Creek Generating Station

Location ID: MW-310A

Number of Sampling Dates: 11

Parameter Name	Units	9/15/2020	10/21/2020	4/27/2021	10/22/2021	4/27/2022	10/12/2022	4/19/2023	11/7/2023	4/16/2024	10/3/2024	4/16/2025
Boron	ug/L	330	340	290	240	250	190	--	--	--	--	--
Calcium	mg/L	180	180	160	140	140	140	--	--	--	--	--
Chloride	mg/L	46	48	44	48	43	52	--	--	--	--	--
Fluoride	mg/L	<0.23	<0.23	<0.28	<0.28	<0.22	<0.22	--	--	--	--	--
Field pH	Std. Units	7.25	7.24	7.19	7.31	7.25	7.51	7.41	7.3	7.17	7.2	7.28
Sulfate	mg/L	310	330	240	190	140	150	--	--	--	--	--
Total Dissolved Solids	mg/L	890	850	690	570	570	620	--	--	--	--	--
Antimony	ug/L	<0.51	0.66	<1.1	<1.1	<0.69	<0.69	--	--	--	--	--
Arsenic	ug/L	<0.88	<0.88	<0.75	<0.75	<0.75	<0.75	<2.7	<0.53	<0.53	<0.53	<0.53
Barium	ug/L	210	210	200	160	160	180	--	--	--	--	--
Beryllium	ug/L	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	--	--	--	--	--
Cadmium	ug/L	<0.049	<0.049	<0.051	<0.051	<0.055	<0.055	--	--	--	--	--
Chromium	ug/L	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	--	--	--	--	--
Cobalt	ug/L	0.54	2.1	4.4	2.8	1.8	1	--	--	--	--	--
Lead	ug/L	<0.11	<0.11	<0.21	<0.21	<0.24	<0.24	--	--	--	--	--
Lithium	ug/L	3.2	5.3	4.9	3.5	6.6	4	<13	4.6	4.8	4.4	4.2
Mercury	ug/L	<0.1	--	<0.15	<0.15	<0.11	<0.11	--	--	--	--	--
Molybdenum	ug/L	20	21	24	20	19	18	16	16	17	14	16
Selenium	ug/L	<1	--	<0.96	<0.96	<0.96	<0.96	--	--	--	--	--
Thallium	ug/L	<0.26	--	<0.26	<0.26	<0.26	<0.26	--	--	--	--	--
Total Radium	pCi/L	1.21	1.27	0.627	0.673	0.663	0.818	--	--	--	--	--
Radium-226	pCi/L	0.484	0.495	0.32	0.155	0.337	0.572	--	--	--	--	--
Radium-228	pCi/L	0.725	0.779	0.308	0.519	0.325	0.246	--	--	--	--	--
pH at 25 Degrees C	Std. Units	7.6	7.4	7.4	7.4	7.3	7.6	--	--	--	--	--
Field Oxidation Potential	mV	-128.9	-165.8	11.6	-149.4	-152.1	-128.9	-124.4	-158.6	-122.9	-52.2	-122.1
Field Specific Conductance	umhos/cm	1304	1168	862	963	982	969	1015	1025	1075	1316	1119
Field Temperature	deg C	16	15.3	13.6	15.1	14.6	15.5	14.4	15.2	14.7	15.5	14.6
Groundwater Elevation	feet	--	--	702.69	701.76	703.68	701.92	704.44	701.51	702.05	701.74	702.5
Oxygen, Dissolved	mg/L	0.19	0.11	0.12	--	0.09	0.23	0.26	0.51	0.35	0.27	0.13
Turbidity	NTU	1.72	2.82	1	19.9	8.94	0	0.02	3.26	6.11	6.39	4.87
Bicarbonate Alkalinity as CaCO3	mg/L	--	320	300	340	320	340	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	--	<3.8	<4.6	<4.6	<4.6	<4.6	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	320	300	340	320	340	--	--	--	--	--
Calcium, total	ug/L	--	180000	--	--	--	150000	--	--	--	--	--
Iron, total	ug/L	--	6300	7000	6100	6500	6800	6000	--	--	--	--
Magnesium, total	ug/L	--	48000	42000	37000	39000	40000	--	--	--	--	--
Manganese, total	ug/L	--	520	400	360	350	370	--	--	--	--	--
Iron, dissolved	ug/L	--	6100	6800	6000	5600	6300	--	--	--	--	--
Manganese, dissolved	ug/L	--	490	420	330	310	360	--	--	--	--	--
Potassium, total	ug/L	--	1100	990	880	970	1100	--	--	--	--	--
Sodium, total	ug/L	--	15000	14000	13000	16000	16000	--	--	--	--	--

Single Location
Name: IPL - Prairie Creek Generating Station

Location ID: MW-312

Number of Sampling Dates: 8

Parameter Name	Units	5/25/2022	7/15/2022	10/12/2022	4/19/2023	11/7/2023	4/15/2024	10/2/2024	4/15/2025
Boron	ug/L	--	--	220	<380	250	250	310	300
Calcium	mg/L	--	100	92	99	85	100	95	89
Chloride	mg/L	--	--	68	69	74	80	67	66
Fluoride	mg/L	--	--	<0.22	<0.38	<0.38	<0.38	<0.38	<0.38
Field pH	Std. Units	6.9	6.97	6.97	7.04	6.83	6.72	6.66	6.83
Sulfate	mg/L	--	--	22	41	15	44	18	38
Total Dissolved Solids	mg/L	--	--	420	400	430	450	430	460
Antimony	ug/L	--	--	<0.69	<5	<1	<1	<1	<1
Arsenic	ug/L	10	13	9.2	9	3.2	7.3	5.8	9.5
Barium	ug/L	--	--	180	150	130	150	140	160
Beryllium	ug/L	--	--	<0.27	<1.7	<0.33	<0.33	<0.33	<0.33
Cadmium	ug/L	--	--	<0.055	<0.5	<0.1	<0.1	<0.1	<0.1
Chromium	ug/L	--	--	<1.1	<5.5	<1.1	<1.2	<1.2	<1.8
Cobalt	ug/L	--	--	<0.19	<0.85	<0.17	<0.17	<0.17	<0.17
Lead	ug/L	--	--	<0.24	<1.2	<0.24	<0.26	<0.26	<0.33
Lithium	ug/L	--	--	5.6	<13	6.6	5.7	6.3	4.3
Mercury	ug/L	--	--	<0.11	<0.14	<0.14	<0.11	<0.11	<0.11
Molybdenum	ug/L	7	--	14	7.7	5.7	5	5.3	5.3
Selenium	ug/L	--	--	<0.96	<7	<1.4	<1.4	<1.4	<1.4
Thallium	ug/L	--	--	<0.26	<1.3	<0.26	<0.57	0.64	<0.57
Total Radium	pCi/L	--	--	0.69	1.14	1.38	1.67	1.04	0.977
Radium-226	pCi/L	--	--	0.257	0.143	0.448	0.424	0.181	0.195
Radium-228	pCi/L	--	--	0.433	0.999	0.931	1.25	0.855	0.782
pH at 25 Degrees C	Std. Units	--	--	7.1	7.2	7.3	7.2	6.9	8
Field Oxidation Potential	mV	201.1	-46.1	-85.4	-82.3	-142.8	-77.3	-60.9	-112.6
Field Specific Conductance	umhos/cm	843	793	795	799	825	874	937	806
Field Temperature	deg C	17.8	21.5	24.8	17.8	23.5	20.4	25.4	18.2
Groundwater Elevation	feet	--	703.8	702.85	701.96	702.24	702.65	702.48	703.13
Oxygen, Dissolved	mg/L	0.1	0.14	0.05	0.11	0.23	2.9	0.99	-0.06
Turbidity	NTU	3.84	0	3.27	1.36	4.21	21.32	8.08	13.39
Bicarbonate Alkalinity as CaCO3	mg/L	--	280	320	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	--	<4.6	<4.6	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	280	320	--	--	--	--	--
Calcium, total	ug/L	--	--	100000	--	--	--	--	--
Iron, total	ug/L	--	5600	7600	6400	4600	7100	6900	10000
Magnesium, total	ug/L	--	22000	22000	--	--	--	--	--
Manganese, total	ug/L	--	1600	1500	--	--	--	--	--
Arsenic, dissolved	ug/L	--	11	9.7	--	--	--	--	--
Iron, dissolved	ug/L	--	4700	7100	--	--	--	--	--
Manganese, dissolved	ug/L	--	1300	1500	--	--	--	--	--
Molybdenum, dissolved	ug/L	--	9.8	14	--	--	--	--	--
Potassium, total	ug/L	--	2200	2800	--	--	--	--	--
Sodium, total	ug/L	--	30000	31000	--	--	--	--	--
Cobalt, Dissolved	ug/L	--	<0.19	--	--	--	--	--	--
Lithium, dissolved	ug/L	--	3.9	6.3	--	--	--	--	--

Appendix E

Statistical Evaluation

02/27/2026 - Classification: Internal - ECRM13684604

E1 Confidence Interval Evaluation – October 2024 Event

02/27/2026 - Classification: Internal - ECRM13684604

Confidence Interval

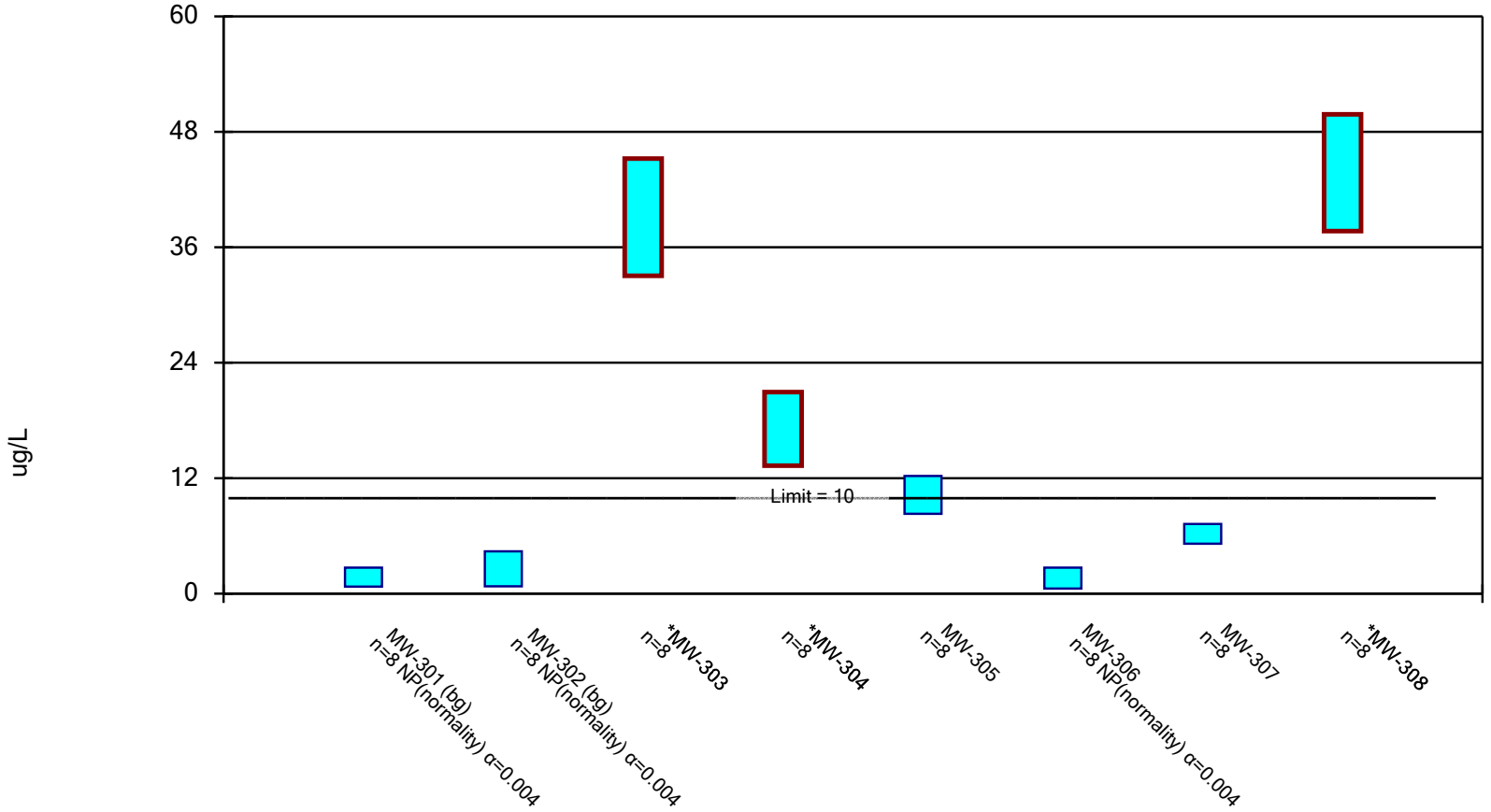
Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020 Printed 1/2/2025, 11:08 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (ug/L)	MW-301 (bg)	2.7	0.72	10	No	8	37.5	No	0.004	NP (normality)
Arsenic (ug/L)	MW-302 (bg)	4.4	0.76	10	No	8	12.5	No	0.004	NP (normality)
Arsenic (ug/L)	**MW-303**	**45.21**	**33.04**	**10**	**Yes**	**8**	**0**	**No**	**0.01**	**Param.**
Arsenic (ug/L)	**MW-304**	**20.94**	**13.31**	**10**	**Yes**	**8**	**0**	**No**	**0.01**	**Param.**
Arsenic (ug/L)	MW-305	12.23	8.293	10	No	8	0	No	0.01	Param.
Arsenic (ug/L)	MW-306	2.7	0.53	10	No	8	50	No	0.004	NP (normality)
Arsenic (ug/L)	MW-307	7.242	5.183	10	No	8	0	No	0.01	Param.
Arsenic (ug/L)	**MW-308**	**49.82**	**37.68**	**10**	**Yes**	**8**	**0**	**No**	**0.01**	**Param.**
Lithium (ug/L)	MW-301 (bg)	16.33	13.17	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-302 (bg)	9.145	5.805	40	No	8	12.5	No	0.01	Param.
Lithium (ug/L)	MW-303	19.22	16.28	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-304	22	14	40	No	8	0	No	0.004	NP (normality)
Lithium (ug/L)	MW-305	21.46	17.54	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-306	13	2.5	40	No	8	62.5	No	0.004	NP (normality)
Lithium (ug/L)	MW-307	12.98	7.493	40	No	8	12.5	No	0.01	Param.
Lithium (ug/L)	MW-308	58.06	38.44	40	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-301 (bg)	4.6	1.2	100	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (ug/L)	MW-302 (bg)	4.6	1.1	100	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (ug/L)	MW-303	14.2	10.8	100	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-304	34.55	21.95	100	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-305	74.1	37.15	100	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	**MW-306**	**234.2**	**145.8**	**100**	**Yes**	**8**	**0**	**No**	**0.01**	**Param.**
Molybdenum (ug/L)	MW-307	14.94	6.475	100	No	8	0	ln(x)	0.01	Param.
Molybdenum (ug/L)	MW-308	85.99	55.76	100	No	8	0	No	0.01	Param.

02/27/2026 - Classification: Internal - ECRM13684604

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 1/2/2025 11:06 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Confidence Interval

Constituent: Arsenic (ug/L) Analysis Run 1/2/2025 11:08 AM View: PCS

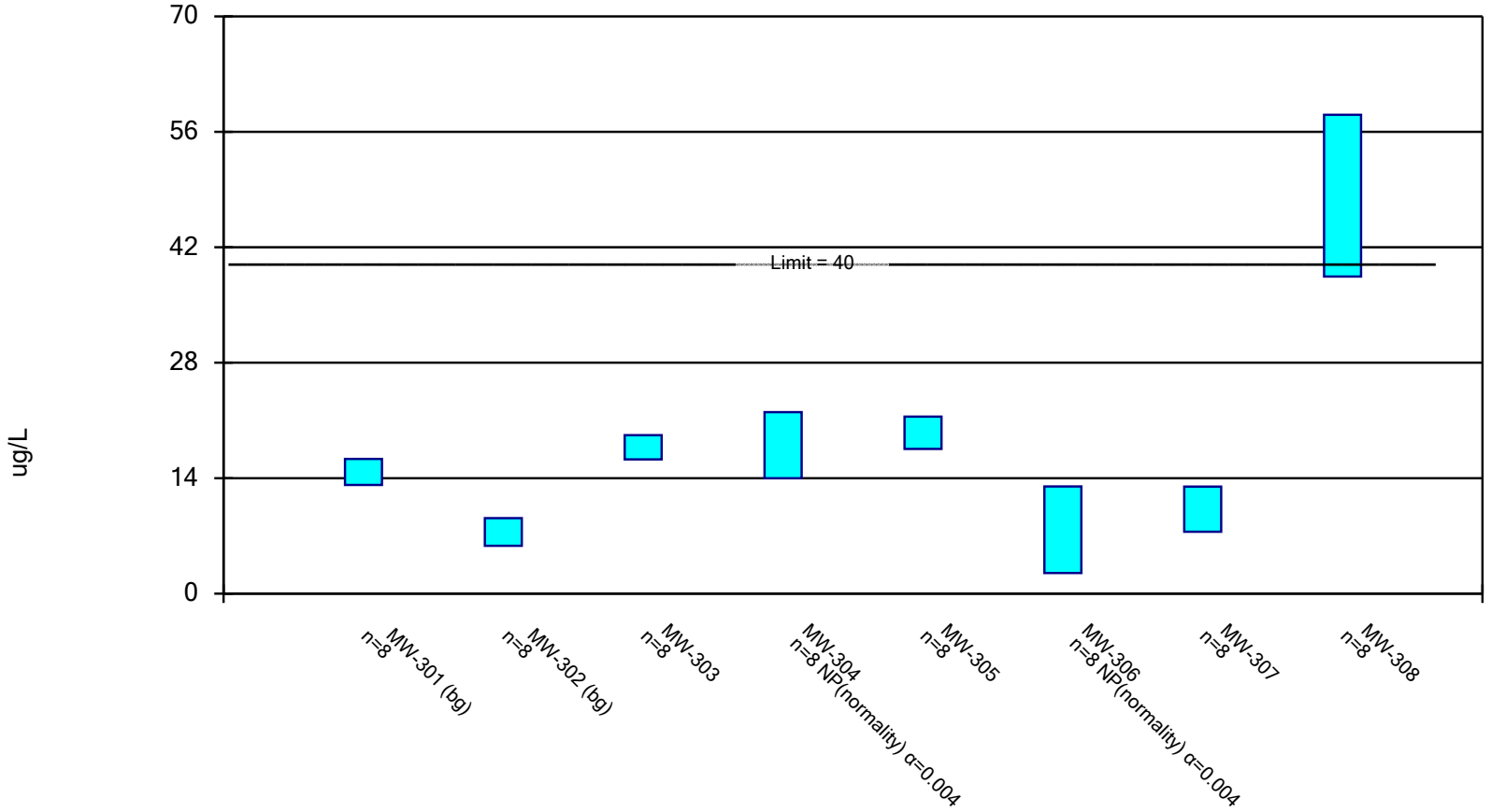
Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-307	MW-308
4/26/2021							6.5	53
4/27/2021	<0.75 (U)	3.4	39	13	7.9	1 (J)		
10/20/2021					12	0.87 (J)		
10/21/2021	0.88 (J)	0.9 (J)	46	16			6.2	48
4/25/2022	0.8 (J)	1.2 (J)					4.2	44
4/26/2022			36	14	7.3	<0.75 (U)		
10/12/2022	<0.75 (U)	0.76 (J)	42	19	12	<0.75 (U)	6.1	39
4/19/2023			34	14	9.9 (J)	<2.7 (U)		
4/20/2023	<2.7 (U)	<2.7 (U)					6.2 (J)	46
11/6/2023	1.5 (J)							
11/7/2023		0.86 (J)	48	21	11	0.63 (J)	7.7	42
4/15/2024			32	17		0.64 (J)		
4/16/2024					10			
4/17/2024		1.1 (J)						
4/18/2024	0.87 (J)						6.1	34
10/1/2024	0.72 (J)	4.4					6.7	44
10/2/2024			36	23	12	<0.53		
Mean	1.121	1.746	39.13	17.13	10.26	0.9838	6.213	43.75
Std. Dev.	0.6863	1.369	5.743	3.603	1.858	0.7088	0.9717	5.726
Upper Lim.	2.7	4.4	45.21	20.94	12.23	2.7	7.242	49.82
Lower Lim.	0.72	0.76	33.04	13.31	8.293	0.53	5.183	37.68

ND substitution: RL or RL/2 if <15% NDs.

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 1/2/2025 11:06 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Confidence Interval

Constituent: Lithium (ug/L) Analysis Run 1/2/2025 11:08 AM View: PCS

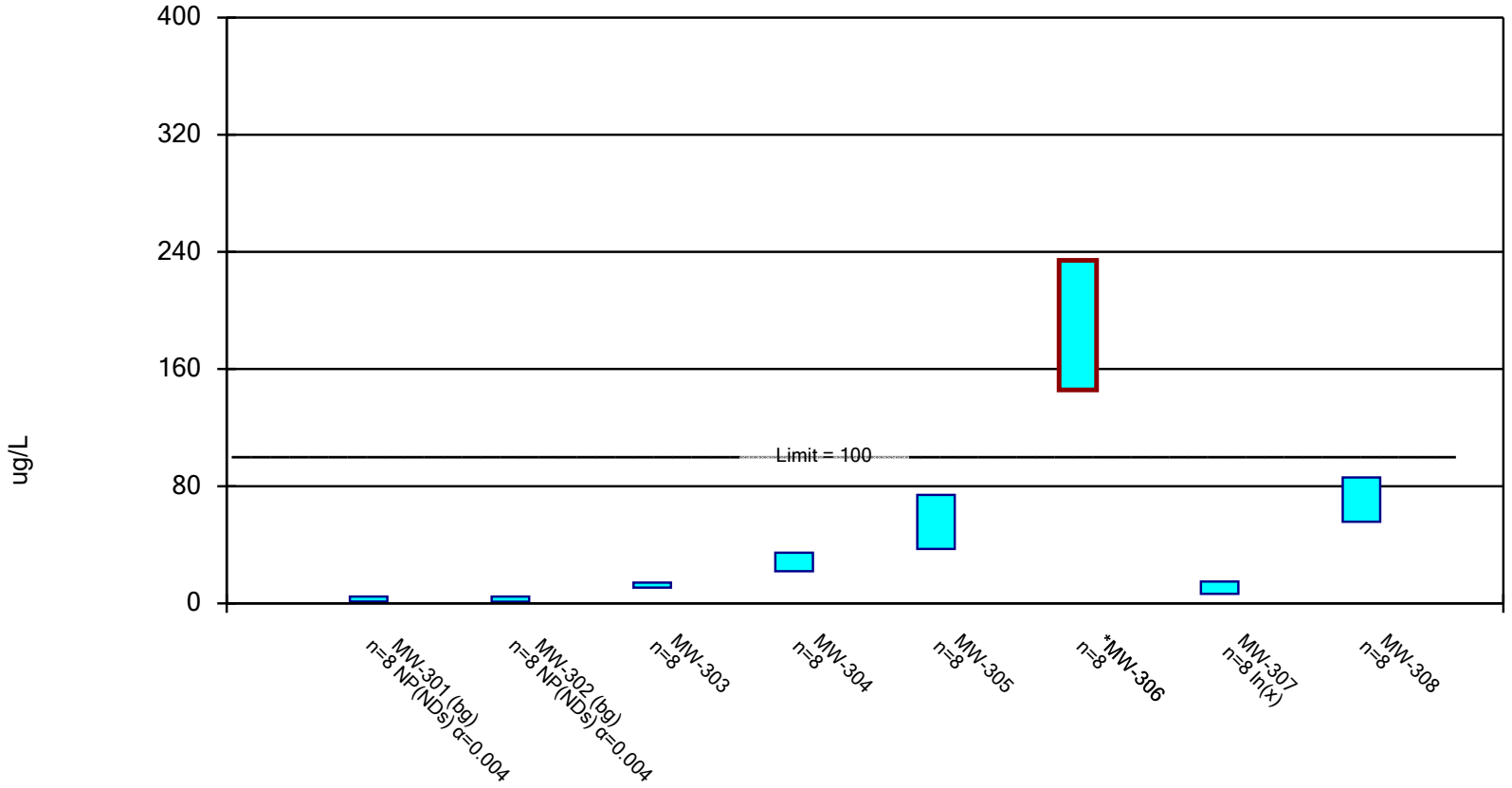
Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-307	MW-308
4/26/2021							9.4 (J)	
4/27/2021	13	6.3 (J)	16	14	17	<2.5 (U)		
10/20/2021					17	<2.5 (U)		
10/21/2021	13	6.9 (J)	17	14			10	39
2/22/2022								37
4/25/2022	17	5 (J)					12	50
4/26/2022			18	16	19	3.3 (J)		
10/12/2022	14	7.8 (J)	18	15	19	<2.5 (U)	13	42
4/19/2023			16 (J)	15 (J)	20 (J)	<13 (U)		
4/20/2023	16 (J)	<13 (U)					<13 (U)	53
11/6/2023	16							
11/7/2023		9.5 (J)	19	17	22	<2.5 (U)	7.7 (J)	44
4/15/2024			18	16		2.7 (J)		
4/16/2024					21			
4/17/2024		9.3 (J)						
4/18/2024	15						9.3 (J)	62
10/1/2024	14	8.5 (J)					14	59
10/2/2024			20	22	21	2.7 (J)		
Mean	14.75	7.475	17.75	16.13	19.5	3.963	10.24	48.25
Std. Dev.	1.488	1.575	1.389	2.588	1.852	3.662	2.59	9.254
Upper Lim.	16.33	9.145	19.22	22	21.46	13	12.98	58.06
Lower Lim.	13.17	5.805	16.28	14	17.54	2.5	7.493	38.44

ND substitution: RL or RL/2 if <15% NDs.

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 1/2/2025 11:07 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Confidence Interval

Constituent: Molybdenum (ug/L) Analysis Run 1/2/2025 11:08 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-307	MW-308
4/26/2021							8.5	53
4/27/2021	<1.3 (U)	<1.3 (U)	12	25	54	240		
10/20/2021					84	220		
10/21/2021	<1.3 (U)	<1.3 (U)	14	31			6.6	58
4/25/2022	<1.2 (U)	<1.2 (U)					8.4	73
4/26/2022			11	24	47	220		
10/12/2022	<1.2 (U)	<1.2 (U)	15	27	78	210	7.2	63
4/19/2023			12	20	35	200		
4/20/2023	<4.6 (U)	<4.6 (U)					21	88
11/6/2023	2.5							
11/7/2023		1.1 (J)	13	37	60	150	10	63
4/15/2024			10	36		160		
4/16/2024					42			
4/17/2024		<1.3						
4/18/2024	<1.3						15	93
10/1/2024	<1.3	<1.3					8.2	76
10/2/2024			13	26	45	120		
Mean	1.837	1.662	12.5	28.25	55.63	190	10.61	70.88
Std. Dev.	1.198	1.189	1.604	5.946	17.43	41.75	4.935	14.26
Upper Lim.	4.6	4.6	14.2	34.55	74.1	234.2	14.94	85.99
Lower Lim.	1.2	1.1	10.8	21.95	37.15	145.8	6.475	55.76

ND substitution: RL or RL/2 if <15% NDs.

Trend Test

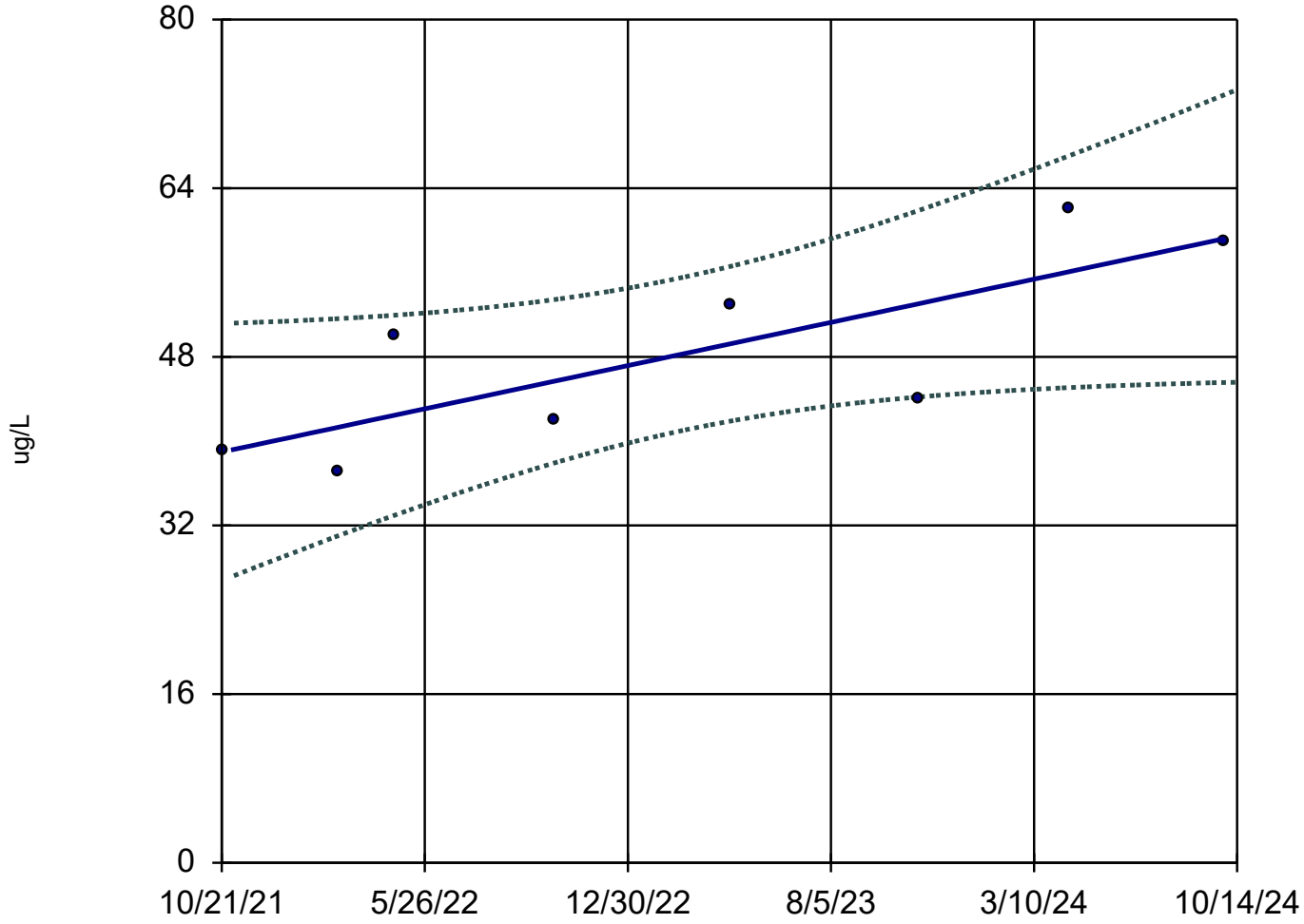
Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020 Printed 2/3/2025, 10:55 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Lithium (ug/L)	**MW-308**	**6.875**	**3.222**	**2.612**	**Yes**	**8**	**0**	**Yes**	**no**	**0.02**	**Param.**

02/27/2026 - Classification: Internal - ECRM13684604

Linear Regression and 98% Confidence Band

MW-308



n = 8

Slope = 6.875 units/year.

alpha = 0.02
t = 3.222
critical = 2.612

Significant increasing trend.

Normality test on residuals: Shapiro Wilk @alpha = 0.01, calculated = 0.967, critical = 0.749.

Constituent: Lithium Analysis Run 2/3/2025 10:54 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

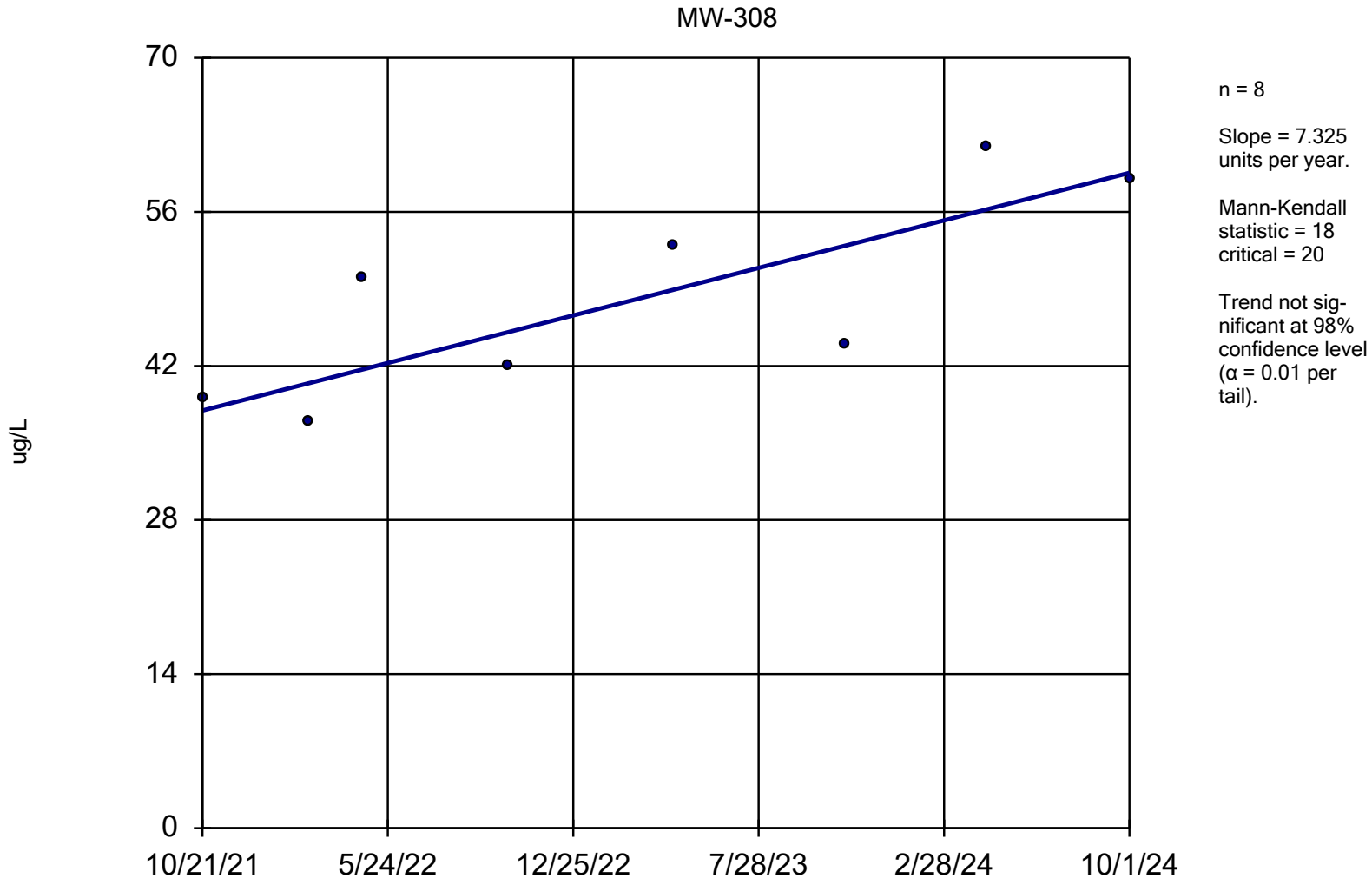
Linear Regression

Constituent: Lithium (ug/L) Analysis Run 2/3/2025 10:55 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-308	LCL	UCL
4/23/2019	29		
10/28/2019	31		
5/27/2020	35		
10/19/2020	47		
4/26/2021	39		
7/14/2021	47		
10/21/2021	39	26.78	51.15
2/22/2022	37	30.99	51.62
4/25/2022	50	32.99	51.95
10/12/2022	42	37.91	53.42
4/20/2023	53	41.91	56.58
11/7/2023	44	44.19	61.87
4/18/2024	62	45.09	67.11
10/1/2024	59	45.56	72.88

Sen's Slope Estimator



Constituent: Lithium Analysis Run 1/2/2025 11:13 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Sen's Slope Estimator

Constituent: Lithium (ug/L) Analysis Run 1/2/2025 11:14 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-308
4/23/2019	29
10/28/2019	31
5/27/2020	35
10/19/2020	47
4/26/2021	39
7/14/2021	47
10/21/2021	39
2/22/2022	37
4/25/2022	50
10/12/2022	42
4/20/2023	53
11/7/2023	44
4/18/2024	62
10/1/2024	59

Confidence Interval

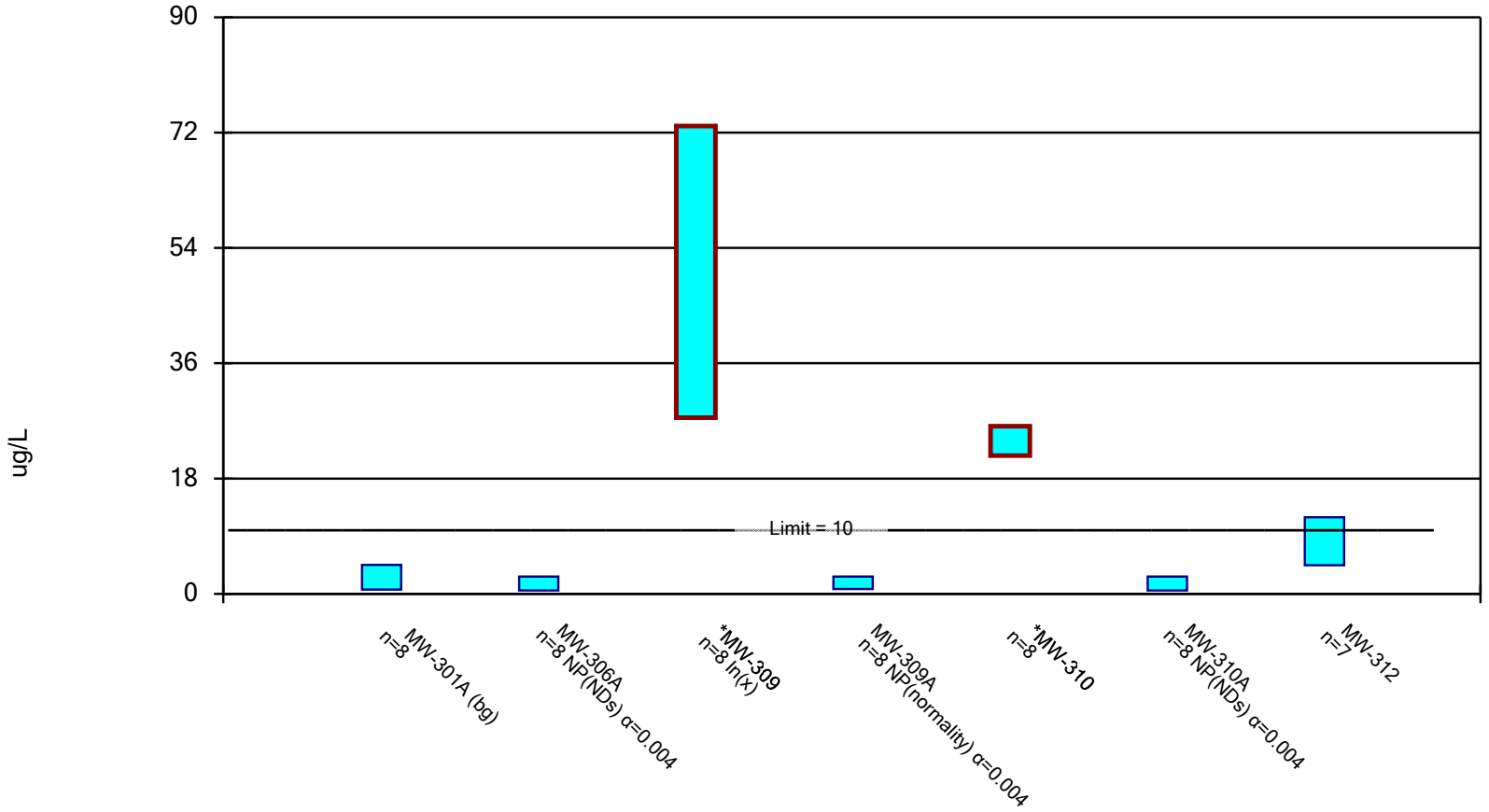
Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020 Printed 2/3/2025, 11:24 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (ug/L)	MW-301A (bg)	4.527	0.6781	10	No	8	12.5	No	0.01	Param.
Arsenic (ug/L)	MW-306A	2.7	0.53	10	No	8	100	No	0.004	NP (NDs)
Arsenic (ug/L)	**MW-309**	**73.02**	**27.5**	**10**	**Yes**	**8**	**0**	**ln(x)**	**0.01**	**Param.**
Arsenic (ug/L)	MW-309A	2.7	0.77	10	No	8	12.5	No	0.004	NP (normality)
Arsenic (ug/L)	**MW-310**	**26.17**	**21.58**	**10**	**Yes**	**8**	**0**	**No**	**0.01**	**Param.**
Arsenic (ug/L)	MW-310A	2.7	0.53	10	No	8	100	No	0.004	NP (NDs)
Arsenic (ug/L)	MW-312	11.95	4.474	10	No	7	0	No	0.01	Param.
Lithium (ug/L)	MW-301A (bg)	13	2.5	40	No	8	100	No	0.004	NP (NDs)
Lithium (ug/L)	MW-306A	7.02	5.23	40	No	8	12.5	No	0.01	Param.
Lithium (ug/L)	MW-309	19	15	40	No	8	0	No	0.004	NP (normality)
Lithium (ug/L)	MW-309A	7.533	5.292	40	No	8	12.5	No	0.01	Param.
Lithium (ug/L)	MW-310	17.96	14.29	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-310A	6.085	3.74	40	No	8	12.5	No	0.01	Param.
Lithium (ug/L)	MW-312	13	5.6	40	No	5	20	No	0.031	NP (normality)
Molybdenum (ug/L)	MW-301A (bg)	4.153	2.055	100	No	8	12.5	ln(x)	0.01	Param.
Molybdenum (ug/L)	MW-306A	20.5	16	100	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-309	22.68	17.07	100	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-309A	11.05	8.33	100	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-310	50.73	33.52	100	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-310A	21.25	14.75	100	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-312	11.74	4.131	100	No	6	0	ln(x)	0.01	Param.

02/27/2026 - Classification: Internal - ECRM13684604

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 2/3/2025 11:00 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Confidence Interval

Constituent: Arsenic (ug/L) Analysis Run 2/3/2025 11:24 AM View: PCS

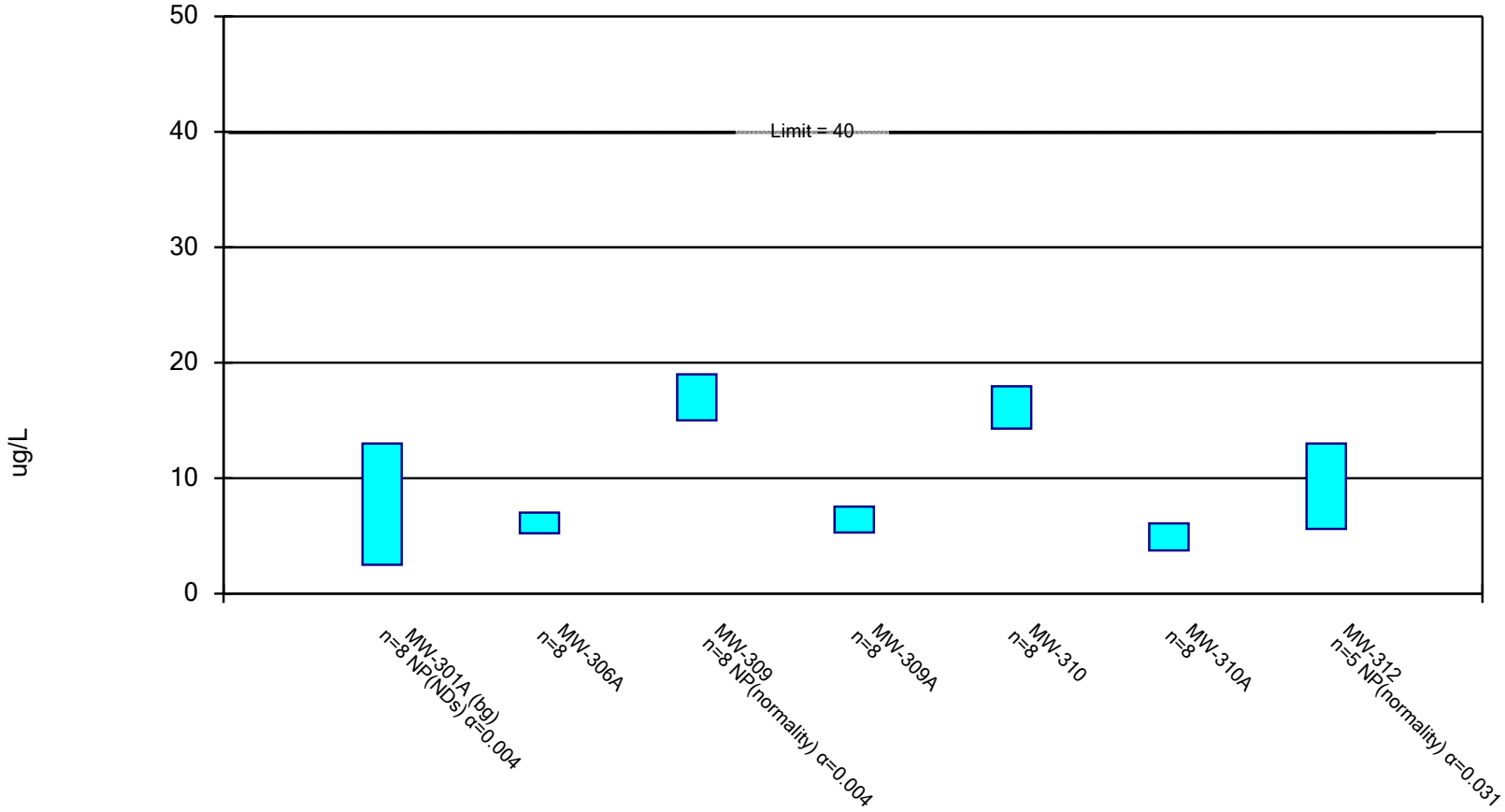
Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301A (bg)	MW-306A	MW-309	MW-309A	MW-310	MW-310A	MW-312
4/27/2021		<0.75 (U)	100	0.98 (J)	25	<0.75 (U)	
4/28/2021	0.87 (J)						
10/20/2021		<0.75 (U)					
10/21/2021			75				
10/22/2021	1.4 (J)			0.87 (J)	25	<0.75 (U)	
4/26/2022		<0.75 (U)		0.79 (J)			
4/27/2022			39		20	<0.75 (U)	
4/29/2022	3.3						
5/25/2022							10
7/15/2022							13
10/12/2022		<0.75 (U)	47	0.77 (J)	23	<0.75 (U)	9.2
10/13/2022	1.3 (J)						
4/19/2023		<2.7 (U)	28	<2.7 (U)	24	<2.7 (U)	9 (J)
4/20/2023	<2.7 (U)						
11/7/2023	4.7	<0.53 (U)	46	1 (J)	27	<0.53 (U)	3.2
4/15/2024		<0.53	34	0.84 (J)	22		7.3
4/16/2024						<0.53	
4/17/2024	2.1						
10/2/2024		<0.53	27	0.88 (J)			5.8
10/3/2024	5.8				25	<0.53	
Mean	2.603	0.9112	49.5	1.104	23.88	0.9112	8.214
Std. Dev.	1.816	0.7309	25.46	0.6501	2.167	0.7309	3.149
Upper Lim.	4.527	2.7	73.02	2.7	26.17	2.7	11.95
Lower Lim.	0.6781	0.53	27.5	0.77	21.58	0.53	4.474

ND substitution: RL or RL/2 if <15% NDs.

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 2/3/2025 11:00 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Confidence Interval

Constituent: Lithium (ug/L) Analysis Run 2/3/2025 11:24 AM View: PCS

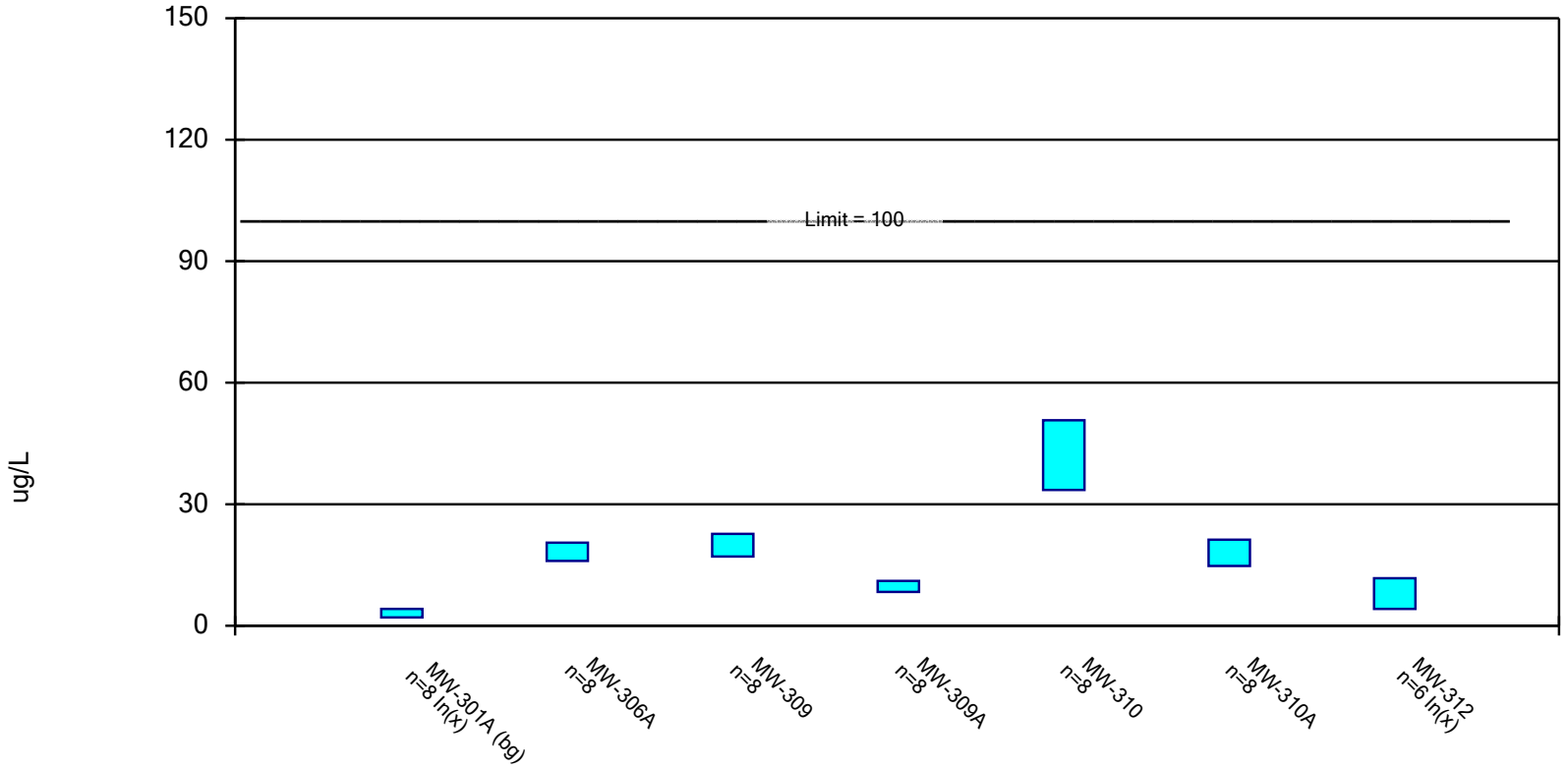
Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301A (bg)	MW-306A	MW-309	MW-309A	MW-310	MW-310A	MW-312
4/27/2021		5.8 (J)	15	5.8 (J)	15	4.9 (J)	
4/28/2021	<2.5 (U)						
10/20/2021		5.3 (J)					
10/21/2021			15				
10/22/2021	<2.5 (U)			4.9 (J)	14	3.5 (J)	
4/26/2022		7.8 (J)		8.4 (J)			
4/27/2022			16		18	6.6 (J)	
4/29/2022	<2.5 (U)						
10/12/2022		5.1 (J)	15	5.7 (J)	15	4 (J)	5.6 (J)
10/13/2022	<2.5 (U)						
4/19/2023		<13 (U)	16 (J)	<13 (U)	15 (J)	<13 (U)	<13 (U)
4/20/2023	<13 (U)						
11/7/2023	<2.5 (U)	5.8 (J)	16	6.2 (J)	16	4.6 (J)	6.6 (J)
4/15/2024		6.3 (J)	15	7.2 (J)	17		5.7 (J)
4/16/2024						4.8 (J)	
4/17/2024	<2.5						
10/2/2024		6.4 (J)	19	6.6 (J)			6.3 (J)
10/3/2024	<2.5				19	4.4 (J)	
Mean	3.813	6.125	15.88	6.413	16.13	4.913	7.44
Std. Dev.	3.712	0.8447	1.356	1.058	1.727	1.106	3.136
Upper Lim.	13	7.02	19	7.533	17.96	6.085	13
Lower Lim.	2.5	5.23	15	5.292	14.29	3.74	5.6

ND substitution: RL or RL/2 if <15% NDs.

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 2/3/2025 11:00 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Confidence Interval

Constituent: Molybdenum (ug/L) Analysis Run 2/3/2025 11:24 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301A (bg)	MW-306A	MW-309	MW-309A	MW-310	MW-310A	MW-312
4/27/2021		16	17	9.1	43	24	
4/28/2021	3.1						
10/20/2021		15					
10/21/2021			24				
10/22/2021	3.1			11	45	20	
4/26/2022		17		11			
4/27/2022			18		45	19	
4/29/2022	2.5						
5/25/2022							7
10/12/2022		19	23	9	58	18	14
10/13/2022	3.4						
4/19/2023		21	21	10	33	16	7.7 (J)
4/20/2023	<4.6 (U)						
11/7/2023	5.6	20	20	8.9	40	16	5.7
4/15/2024		20	17	11	32		5
4/16/2024						17	
4/17/2024	2.8						
10/2/2024		18	19	7.5			5.3
10/3/2024	1.8 (J)				41	14	
Mean	3.075	18.25	19.88	9.688	42.13	18	7.45
Std. Dev.	1.141	2.121	2.642	1.281	8.114	3.071	3.372
Upper Lim.	4.153	20.5	22.68	11.05	50.73	21.25	11.74
Lower Lim.	2.055	16	17.07	8.33	33.52	14.75	4.131

ND substitution: RL or RL/2 if <15% NDs.

E2 Confidence Interval Evaluation – April 2025 Event

02/27/2026 - Classification: Internal - ECRM13684604

Confidence Interval

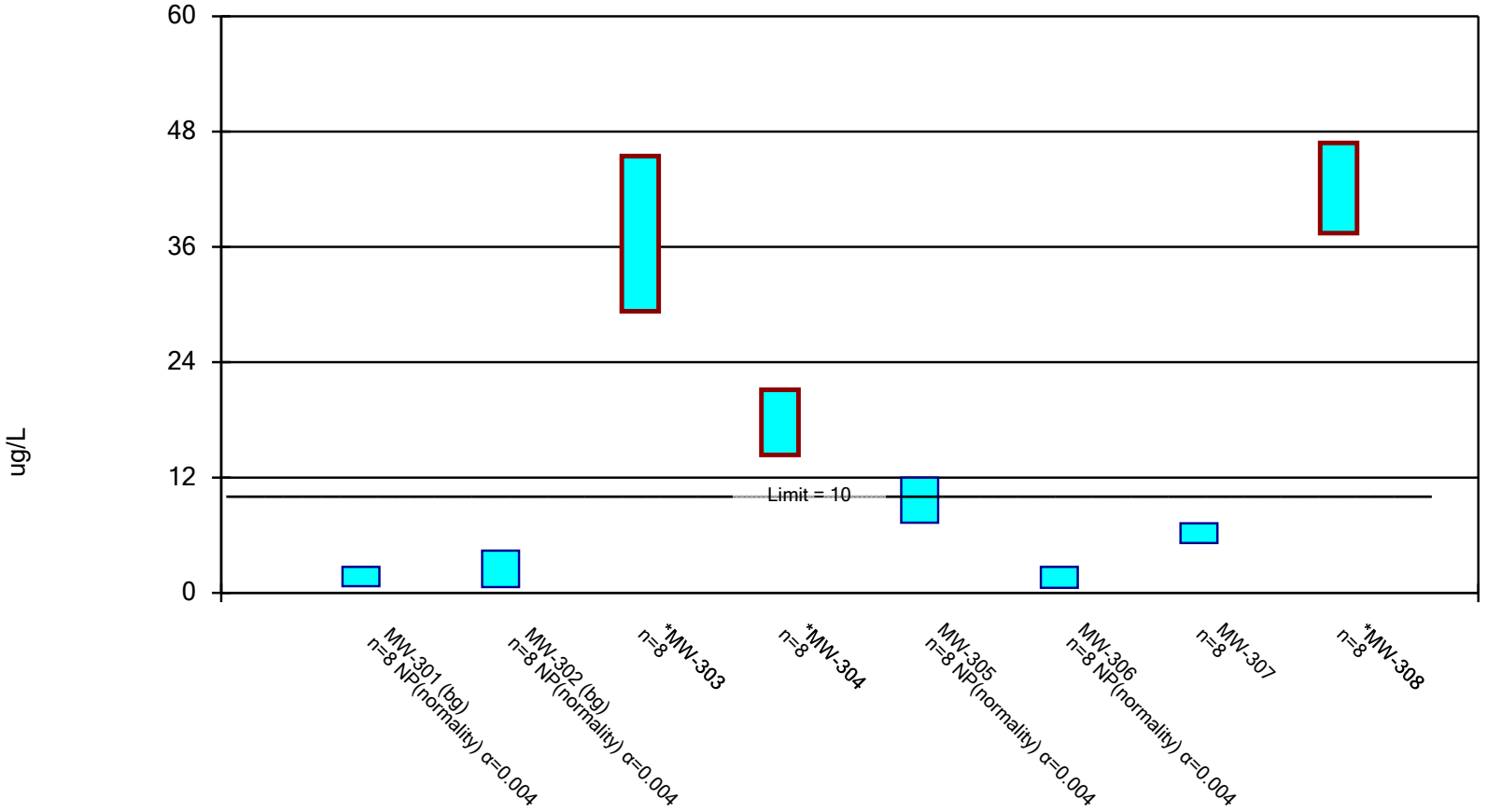
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek Printed 6/2/2025, 9:31 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (ug/L)	MW-301 (bg)	2.7	0.7	10	No	8	25	No	0.004	NP (normality)
Arsenic (ug/L)	MW-302 (bg)	4.4	0.6	10	No	8	12.5	No	0.004	NP (normality)
Arsenic (ug/L)	**MW-303**	**45.45**	**29.3**	**10**	**Yes**	**8**	**0**	**No**	**0.01**	**Param.**
Arsenic (ug/L)	**MW-304**	**21.14**	**14.36**	**10**	**Yes**	**8**	**0**	**No**	**0.01**	**Param.**
Arsenic (ug/L)	MW-305	12	7.3	10	No	8	0	No	0.004	NP (normality)
Arsenic (ug/L)	MW-306	2.7	0.53	10	No	8	50	No	0.004	NP (normality)
Arsenic (ug/L)	MW-307	7.242	5.183	10	No	8	0	No	0.01	Param.
Arsenic (ug/L)	**MW-308**	**46.81**	**37.44**	**10**	**Yes**	**8**	**0**	**No**	**0.01**	**Param.**
Lithium (ug/L)	MW-301 (bg)	16.31	13.44	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-302 (bg)	10.99	6.107	40	No	8	12.5	No	0.01	Param.
Lithium (ug/L)	MW-303	19.32	15.93	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-304	22	14	40	No	8	0	No	0.004	NP (normality)
Lithium (ug/L)	MW-305	21.46	17.54	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-306	13	2.5	40	No	8	62.5	No	0.004	NP (normality)
Lithium (ug/L)	MW-307	13.17	7.706	40	No	8	12.5	No	0.01	Param.
Lithium (ug/L)	MW-308	58.09	39.66	40	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-301 (bg)	4.6	1.2	100	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (ug/L)	MW-302 (bg)	4.6	1.1	100	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (ug/L)	MW-303	14.16	10.59	100	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-304	34.9	22.6	100	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-305	73.26	33.74	100	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	**MW-306**	**219.4**	**135.6**	**100**	**Yes**	**8**	**0**	**No**	**0.01**	**Param.**
Molybdenum (ug/L)	MW-307	15.38	6.709	100	No	8	0	ln(x)	0.01	Param.
Molybdenum (ug/L)	MW-308	89.11	61.14	100	No	8	0	No	0.01	Param.

02/27/2026 - Classification: Internal - ECRM13684604

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 6/2/2025 9:30 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Confidence Interval

Constituent: Arsenic (ug/L) Analysis Run 6/2/2025 9:31 AM View: PCS

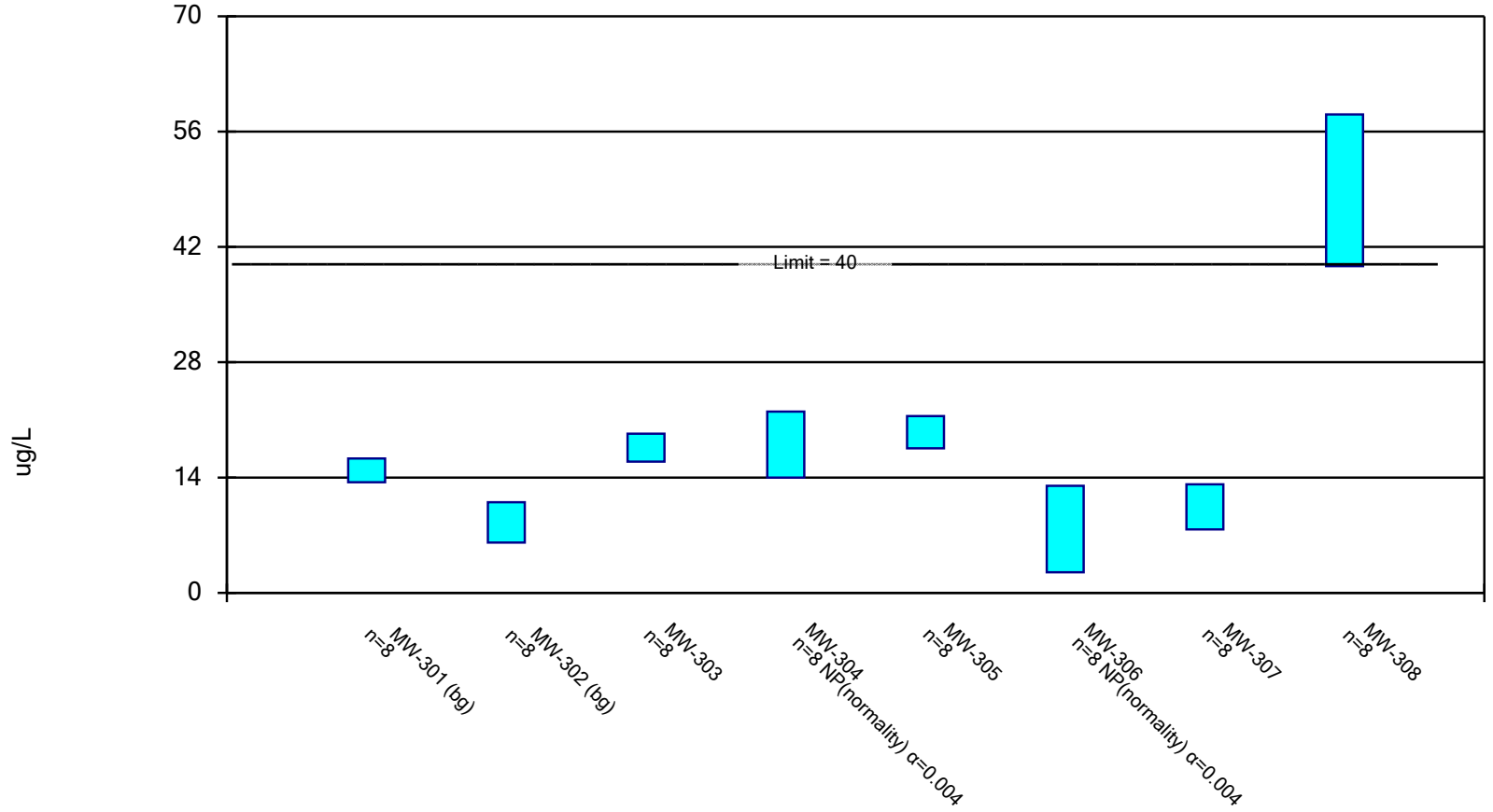
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301 (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-307	MW-308
10/20/2021					12	0.87 (J)		
10/21/2021	0.88 (J)	0.9 (J)	46	16			6.2	48
4/25/2022	0.8 (J)	1.2 (J)					4.2	44
4/26/2022			36	14	7.3	<0.75 (U)		
10/12/2022	<0.75 (U)	0.76 (J)	42	19	12	<0.75 (U)	6.1	39
4/19/2023			34	14	9.9 (J)	<2.7 (U)		
4/20/2023	<2.7 (U)	<2.7 (U)					6.2 (J)	46
11/6/2023	1.5 (J)							
11/7/2023		0.86 (J)	48	21	11	0.63 (J)	7.7	42
4/15/2024			32	17		0.64 (J)		
4/16/2024					10			
4/17/2024		1.1 (J)						
4/18/2024	0.87 (J)						6.1	34
10/1/2024	0.72 (J)	4.4					6.7	44
10/2/2024			36	23	12	<0.53		
4/15/2025			25	18				40
4/16/2025					10	0.58 (J)	6.5	
4/17/2025	0.7 (J)	0.6 (J)						
Mean	1.115	1.396	37.38	17.75	10.53	0.9313	6.213	42.13
Std. Dev.	0.6904	1.238	7.615	3.196	1.608	0.7229	0.9717	4.422
Upper Lim.	2.7	4.4	45.45	21.14	12	2.7	7.242	46.81
Lower Lim.	0.7	0.6	29.3	14.36	7.3	0.53	5.183	37.44

ND substitution: RL or RL/2 if <15% NDs.

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/2/2025 9:30 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Confidence Interval

Constituent: Lithium (ug/L) Analysis Run 6/2/2025 9:31 AM View: PCS

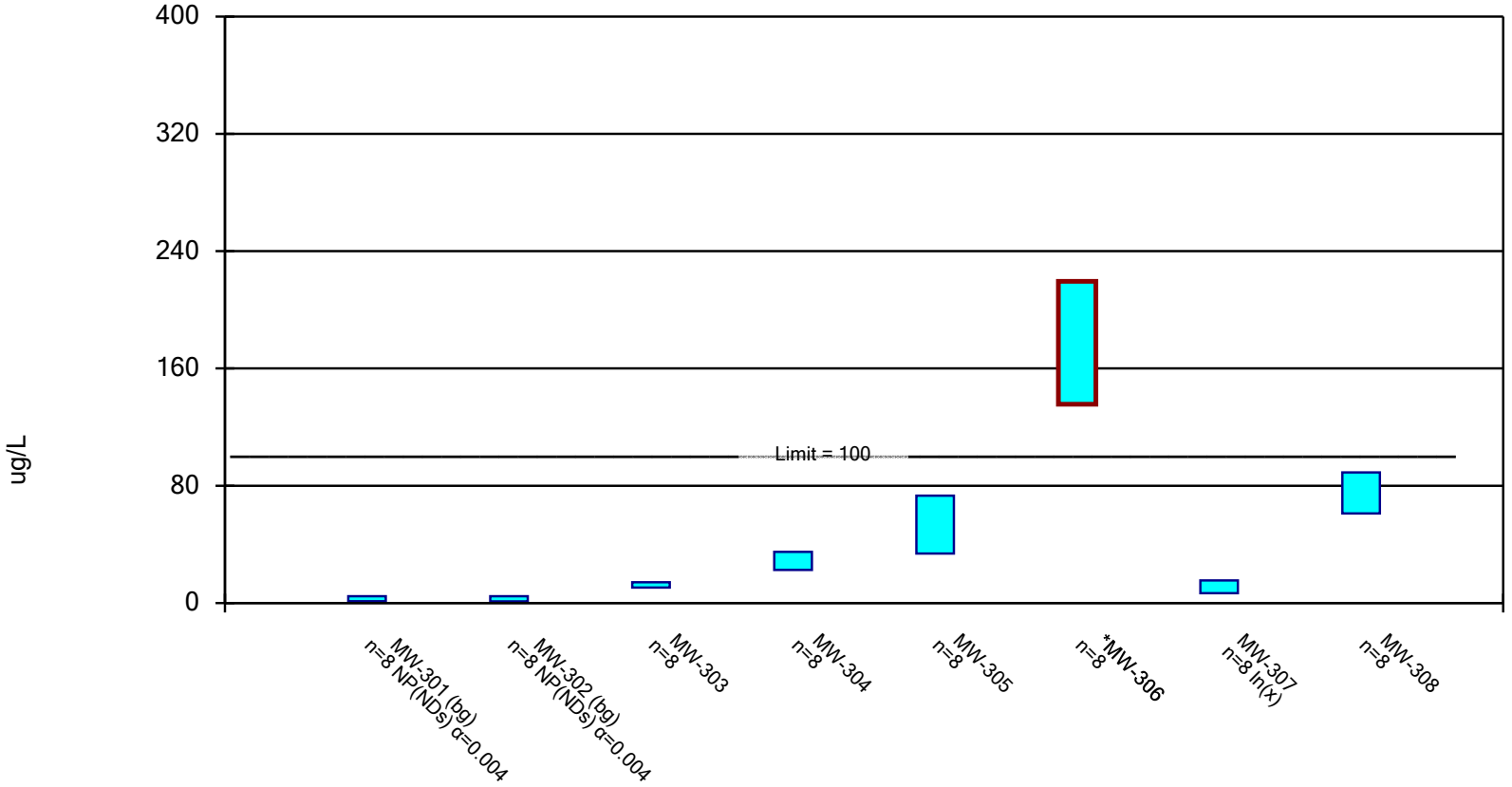
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301 (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-307	MW-308
10/20/2021					17	<2.5 (U)		
10/21/2021	13	6.9 (J)	17	14			10	
2/22/2022								37
4/25/2022	17	5 (J)					12	50
4/26/2022			18	16	19	3.3 (J)		
10/12/2022	14	7.8 (J)	18	15	19	<2.5 (U)	13	42
4/19/2023			16 (J)	15 (J)	20 (J)	<13 (U)		
4/20/2023	16 (J)	<13 (U)					<13 (U)	53
11/6/2023	16							
11/7/2023		9.5 (J)	19	17	22	<2.5 (U)	7.7 (J)	44
4/15/2024			18	16		2.7 (J)		
4/16/2024					21			
4/17/2024		9.3 (J)						
4/18/2024	15						9.3 (J)	62
10/1/2024	14	8.5 (J)					14	59
10/2/2024			20	22	21	2.7 (J)		
4/15/2025			15	14				44
4/16/2025					17	<2.9 (U)	11	
4/17/2025	14	8.4 (J)						
Mean	14.88	8.55	17.63	16.13	19.5	4.013	10.44	48.88
Std. Dev.	1.356	2.305	1.598	2.588	1.852	3.642	2.577	8.692
Upper Lim.	16.31	10.99	19.32	22	21.46	13	13.17	58.09
Lower Lim.	13.44	6.107	15.93	14	17.54	2.5	7.706	39.66

ND substitution: RL or RL/2 if <15% NDs.

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 6/2/2025 9:30 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Confidence Interval

Constituent: Molybdenum (ug/L) Analysis Run 6/2/2025 9:31 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301 (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-307	MW-308
10/20/2021					84	220		
10/21/2021	<1.3 (U)	<1.3 (U)	14	31			6.6	58
4/25/2022	<1.2 (U)	<1.2 (U)					8.4	73
4/26/2022			11	24	47	220		
10/12/2022	<1.2 (U)	<1.2 (U)	15	27	78	210	7.2	63
4/19/2023			12	20	35	200		
4/20/2023	<4.6 (U)	<4.6 (U)					21	88
11/6/2023	2.5							
11/7/2023		1.1 (J)	13	37	60	150	10	63
4/15/2024			10	36		160		
4/16/2024					42			
4/17/2024		<1.3						
4/18/2024	<1.3						15	93
10/1/2024	<1.3	<1.3					8.2	76
10/2/2024			13	26	45	120		
4/15/2025			11	29				87
4/16/2025					37	140	11	
4/17/2025	<1.3 (U)	<1.3 (U)						
Mean	1.837	1.662	12.38	28.75	53.5	177.5	10.93	75.13
Std. Dev.	1.198	1.189	1.685	5.8	18.65	39.55	4.86	13.2
Upper Lim.	4.6	4.6	14.16	34.9	73.26	219.4	15.38	89.11
Lower Lim.	1.2	1.1	10.59	22.6	33.74	135.6	6.709	61.14

ND substitution: RL or RL/2 if <15% NDs.

Trend Test

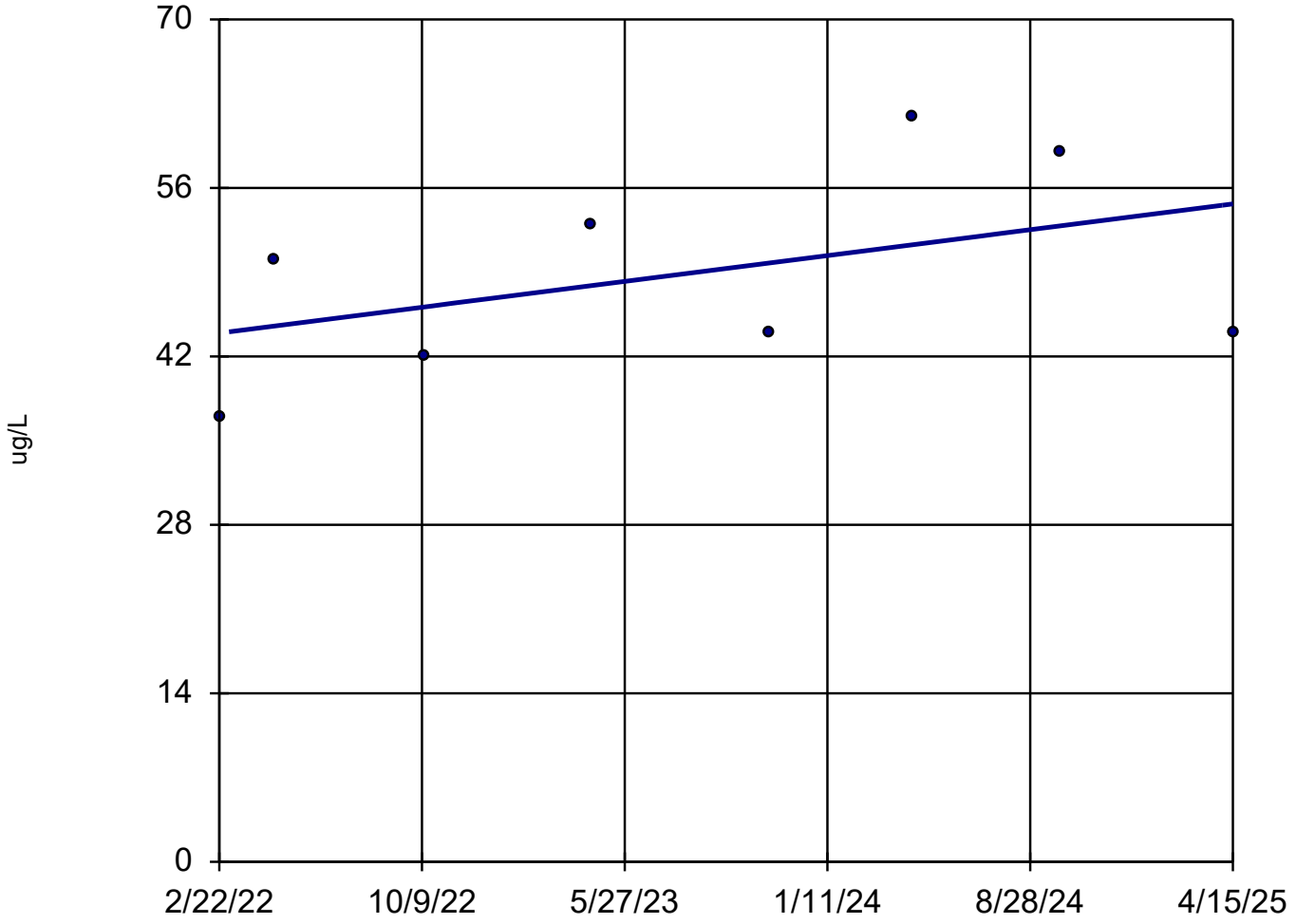
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek Printed 6/2/2025, 9:44 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Lithium (ug/L)	MW-308	3.413	1.238	2.612	No	8	0	Yes	no	0.02	Param.

02/27/2026 - Classification: Internal - ECRM13684604

Lithium

MW-308



n = 8

Slope = 3.413 units/year.

alpha = 0.02
t = 1.238
critical = 2.612

No significant trend.

Normality test on residuals: Shapiro Wilk @alpha = 0.01, calculated = 0.909, critical = 0.749.

Linear Regression Analysis Run 6/2/2025 9:41 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Linear Regression

Constituent: Lithium (ug/L) Analysis Run 6/2/2025 9:44 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

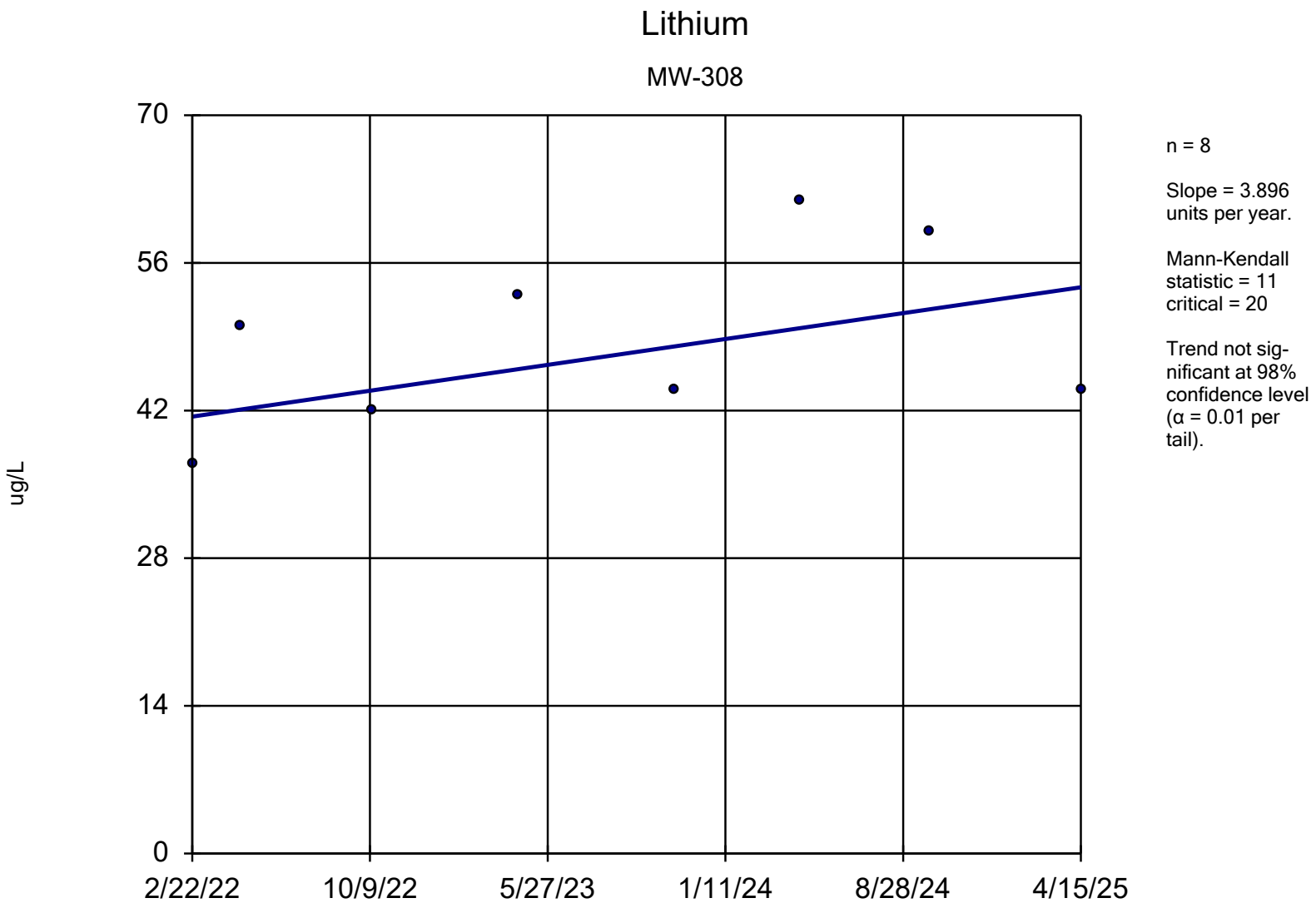
	MW-308
4/23/2019	29
10/28/2019	31
5/27/2020	35
10/19/2020	47
4/26/2021	39
7/14/2021	47
10/21/2021	39
2/22/2022	37
4/25/2022	50
10/12/2022	42
4/20/2023	53
11/7/2023	44
4/18/2024	62
10/1/2024	59
4/15/2025	44

Trend Test

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek Printed 6/2/2025, 9:46 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Lithium (ug/L)	MW-308	3.896	11	20	No	8	0	n/a	n/a	0.02	NP

02/27/2026 - Classification: Internal - ECRM13684604



Sen's Slope and 98% Confidence Band Analysis Run 6/2/2025 9:45 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Sen's Slope Estimator

Constituent: Lithium (ug/L) Analysis Run 6/2/2025 9:46 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-308
4/23/2019	29
10/28/2019	31
5/27/2020	35
10/19/2020	47
4/26/2021	39
7/14/2021	47
10/21/2021	39
2/22/2022	37
4/25/2022	50
10/12/2022	42
4/20/2023	53
11/7/2023	44
4/18/2024	62
10/1/2024	59
4/15/2025	44

Confidence Interval

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek Printed 6/2/2025, 9:39 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (ug/L)	MW-306A	2.7	0.53	10	No	8	100	No	0.004	NP (NDs)
Arsenic (ug/L)	**MW-309**	**57.67**	**21.33**	**10**	**Yes**	**8**	**0**	**No**	**0.01**	**Param.**
Arsenic (ug/L)	MW-309A	2.7	0.77	10	No	8	12.5	No	0.004	NP (normality)
Arsenic (ug/L)	**MW-310**	**26.1**	**19.9**	**10**	**Yes**	**8**	**0**	**No**	**0.01**	**Param.**
Arsenic (ug/L)	MW-310A	2.7	0.53	10	No	8	100	No	0.004	NP (NDs)
Arsenic (ug/L)	MW-312	11.5	5.248	10	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-306A	7.047	5.278	40	No	8	12.5	No	0.01	Param.
Lithium (ug/L)	MW-309	19	15	40	No	8	0	No	0.004	NP (normality)
Lithium (ug/L)	MW-309A	7.528	5.197	40	No	8	12.5	No	0.01	Param.
Lithium (ug/L)	MW-310	18.02	14.48	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-310A	6.028	3.622	40	No	8	12.5	No	0.01	Param.
Lithium (ug/L)	MW-312	6.919	4.597	40	No	6	16.67	ln(x)	0.01	Param.
Molybdenum (ug/L)	MW-306A	21.1	16.65	100	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-309	22.83	16.42	100	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-309A	11.08	8.399	100	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-310	50.2	30.8	100	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-310A	19.04	14.96	100	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-312	14	5	100	No	7	0	No	0.008	NP (normality)

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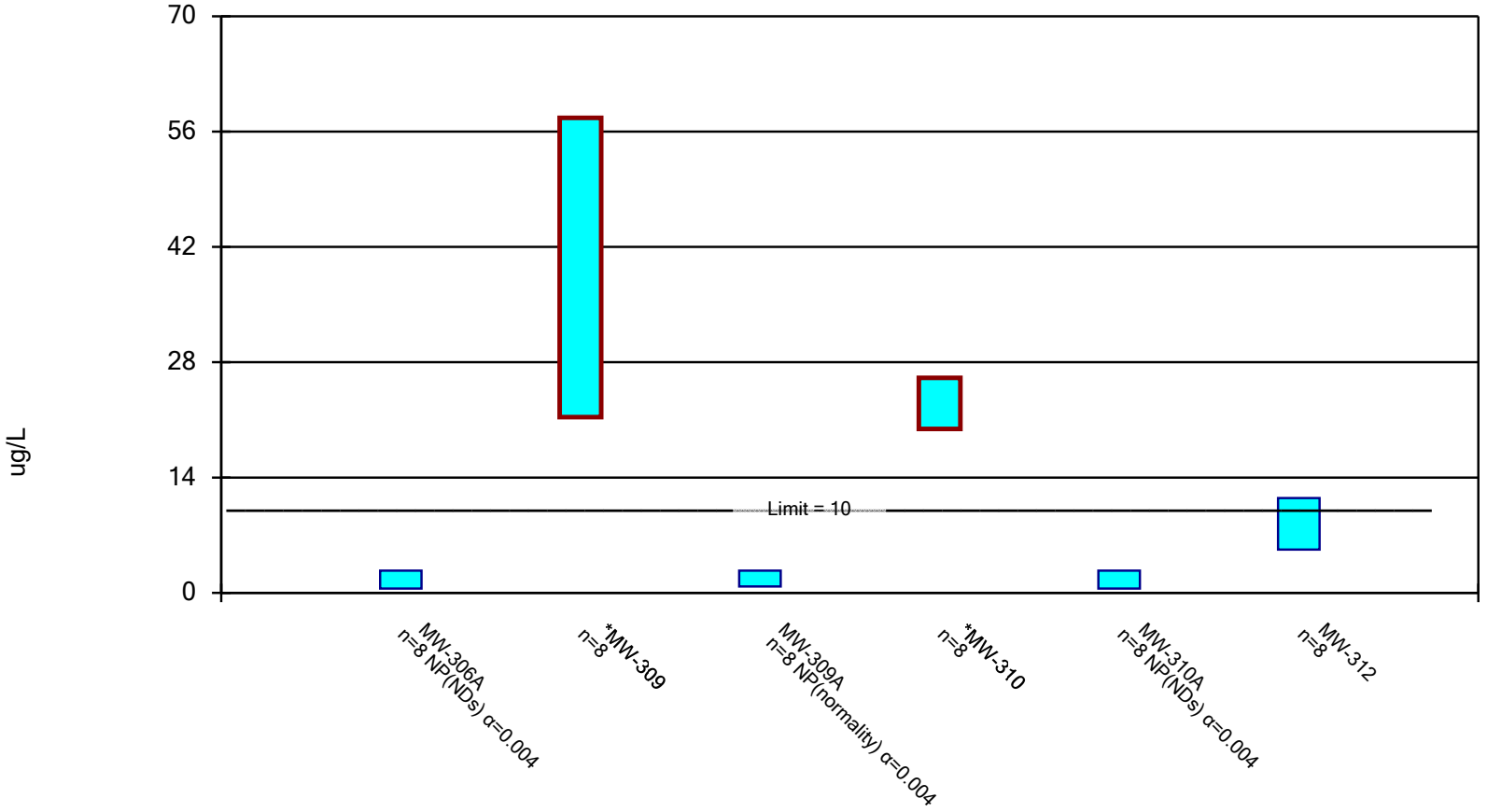
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 6/2/2025 9:38 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Confidence Interval

Constituent: Arsenic (ug/L) Analysis Run 6/2/2025 9:39 AM View: PCS

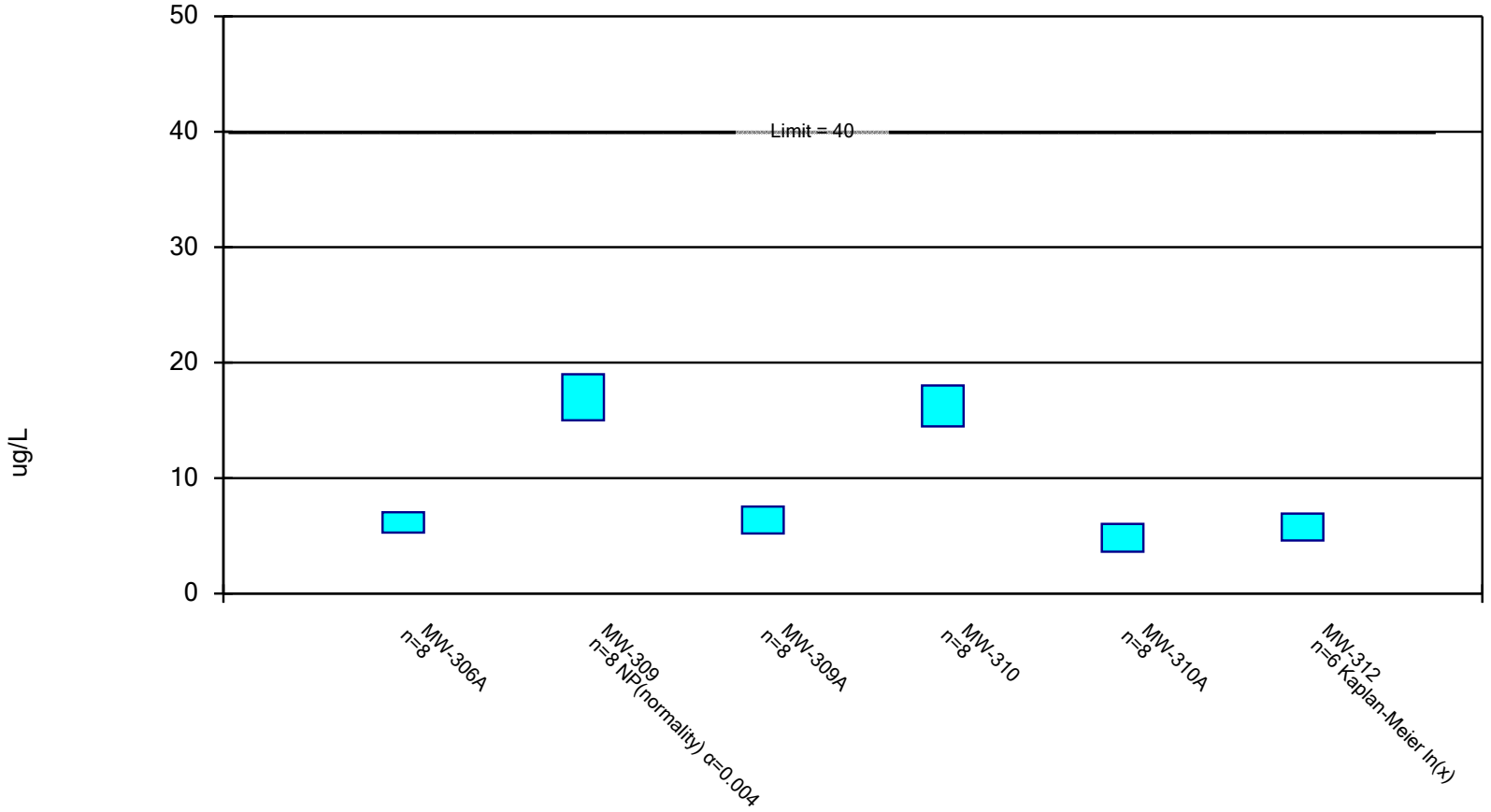
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-306A	MW-309	MW-309A	MW-310	MW-310A	MW-312
10/20/2021	<0.75 (U)					
10/21/2021		75				
10/22/2021			0.87 (J)	25	<0.75 (U)	
4/26/2022	<0.75 (U)		0.79 (J)			
4/27/2022		39		20	<0.75 (U)	
5/25/2022						10
7/15/2022						13
10/12/2022	<0.75 (U)	47	0.77 (J)	23	<0.75 (U)	9.2
4/19/2023	<2.7 (U)	28	<2.7 (U)	24	<2.7 (U)	9 (J)
11/7/2023	<0.53 (U)	46	1 (J)	27	<0.53 (U)	3.2
4/15/2024	<0.53	34	0.84 (J)	22		7.3
4/16/2024					<0.53	
10/2/2024	<0.53	27	0.88 (J)			5.8
10/3/2024				25	<0.53	
4/15/2025						9.5
4/16/2025	<0.53 (U)	20	0.79 (J)	18	<0.53 (U)	
Mean	0.8837	39.5	1.08	23	0.8837	8.375
Std. Dev.	0.7419	17.15	0.6587	2.928	0.7419	2.95
Upper Lim.	2.7	57.67	2.7	26.1	2.7	11.5
Lower Lim.	0.53	21.33	0.77	19.9	0.53	5.248

ND substitution: RL or RL/2 if <15% NDs.

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/2/2025 9:38 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Confidence Interval

Constituent: Lithium (ug/L) Analysis Run 6/2/2025 9:39 AM View: PCS

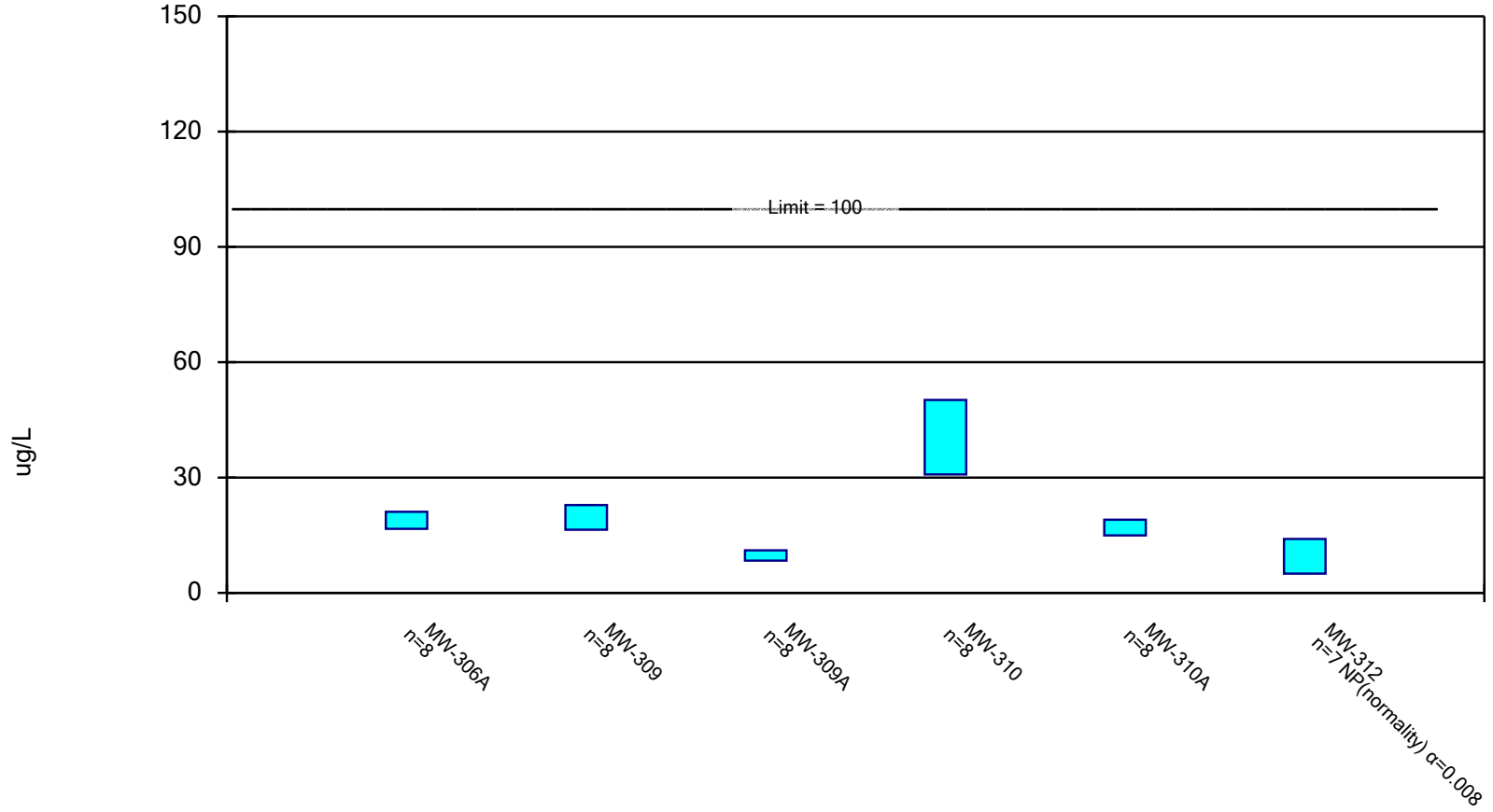
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-306A	MW-309	MW-309A	MW-310	MW-310A	MW-312
10/20/2021	5.3 (J)					
10/21/2021		15				
10/22/2021			4.9 (J)	14	3.5 (J)	
4/26/2022	7.8 (J)		8.4 (J)			
4/27/2022		16		18	6.6 (J)	
10/12/2022	5.1 (J)	15	5.7 (J)	15	4 (J)	5.6 (J)
4/19/2023	<13 (U)	16 (J)	<13 (U)	15 (J)	<13 (U)	<13 (U)
11/7/2023	5.8 (J)	16	6.2 (J)	16	4.6 (J)	6.6 (J)
4/15/2024	6.3 (J)	15	7.2 (J)	17		5.7 (J)
4/16/2024					4.8 (J)	
10/2/2024	6.4 (J)	19	6.6 (J)			6.3 (J)
10/3/2024				19	4.4 (J)	
4/15/2025						4.3 (J)
4/16/2025	6.1 (J)	16	5.4 (J)	16	4.2 (J)	
Mean	6.163	16	6.363	16.25	4.825	6.917
Std. Dev.	0.8348	1.309	1.099	1.669	1.135	3.084
Upper Lim.	7.047	19	7.528	18.02	6.028	6.919
Lower Lim.	5.278	15	5.197	14.48	3.622	4.597

ND substitution: RL or RL/2 if <15% NDs.

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 6/2/2025 9:38 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Confidence Interval

Constituent: Molybdenum (ug/L) Analysis Run 6/2/2025 9:39 AM View: PCS
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-306A	MW-309	MW-309A	MW-310	MW-310A	MW-312
10/20/2021	15					
10/21/2021		24				
10/22/2021			11	45	20	
4/26/2022	17		11			
4/27/2022		18		45	19	
5/25/2022						7
10/12/2022	19	23	9	58	18	14
4/19/2023	21	21	10	33	16	7.7 (J)
11/7/2023	20	20	8.9	40	16	5.7
4/15/2024	20	17	11	32		5
4/16/2024					17	
10/2/2024	18	19	7.5			5.3
10/3/2024				41	14	
4/15/2025						5.3
4/16/2025	21	15	9.5	30	16	
Mean	18.88	19.63	9.738	40.5	17	7.143
Std. Dev.	2.1	3.021	1.263	9.15	1.927	3.184
Upper Lim.	21.1	22.83	11.08	50.2	19.04	14
Lower Lim.	16.65	16.42	8.399	30.8	14.96	5

Appendix F

UPL and UTL Update – April 2025 Event

02/27/2026 - Classification: Internal - ECRM13684604

August 19, 2025
File No. 25225074.00

TECHNICAL MEMORANDUM

SUBJECT: Statistical Evaluation of Groundwater Monitoring Results – UPL and UTL Update
Prairie Creek Generating Station (PCS)

PREPARED BY: Lindsey Hawksworth, Ryan Matzuk

CHECKED BY: Sherren Clark

STATISTICAL METHOD

For comparison to background, groundwater monitoring data for the multiunit system at the Prairie Creek Generating Station (PCS) are evaluated in accordance with 40 CFR 257.93(f)(3), using a prediction interval or tolerance interval procedure, in which an interval for each constituent is established from the distribution of the background data, and the level of each constituent in each compliance well is compared to the upper prediction limit (UPL) or upper tolerance limit (UTL).

For assessment monitoring parameters, groundwater monitoring data are also evaluated by comparing the lower confidence limit (LCL) for the arithmetic mean of the monitoring results to the Groundwater Protection Standard (GPS) established in accordance with 40 CFR 257.95(h).

Statistical evaluation is performed using commercially available software (*Sanitas for Groundwater*© or similar) in general accordance with the U.S. EPA's *Unified Guidance for Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities* dated March 2009 (Unified Guidance) (U.S. EPA, 2009) and generally accepted procedures.

Under the interwell approach for comparison to background, monitoring results are compared to UPLs and UTLs calculated based on background monitoring results from the background wells, MW-301 and MW-302.

Compliance wells for the former ash ponds include MW-303, MW-304, MW-305, MW-306, MW-307, and MW-308. Delineation wells were installed to support the selection of remedy at PCS, including MW-302A, MW-306A, MW-309, MW-309A, MW-310, and MW-310A. A supplemental background monitoring well, MW-301A, was installed to evaluate the background conditions in the deeper groundwater, but results from MW-301A are not being used in the statistical analysis of background conditions for the compliance wells. Monitoring well MW-312 was also installed as a supplemental background well and is also not being used in the statistical analysis of background conditions for the compliance wells.

The initial UPLs were calculated based on eight rounds of background monitoring performed prior to the initiation of compliance monitoring for the PCS, from December 2016 through August 2017. Since then, additional rounds of monitoring for Appendix III and IV parameters have been performed

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at the background wells. The UPLs for Appendix III parameters were updated and the UTLs for Appendix IV parameters were calculated in December of 2022 as part of the evaluation of the 2022 monitoring results. The background data set was updated to include data collected through October 2022. The background data set for the UPL and UTL calculations is being updated again to include data from the background wells collected through October 2024.

TIME SERIES PLOTS

Time series plots are prepared for the monitoring parameters to show concentration variations over time. Time series graphs are included in Attachment 1. In the graphs, non-detect values are shown with hollow symbols, while detected values have solid symbols. For some Appendix IV parameters, many or all background results are non-detect, but detection limits may have increased or decreased since the earliest data were collected.

OUTLIER ANALYSIS – INTERWELL

For interwell analysis, an outlier evaluation is performed for background monitoring results at the upgradient wells. A statistical outlier is a value that is extremely different from the other values in the data set. The Sanitas outlier tests identify data points that do not appear to fit the distribution of the rest of the data set and determine if they differ significantly from the rest of the data. The outlier analysis performed in Sanitas includes the following steps:

1) Run normality test (Shapiro Wilk/Francia).

2) If normally distributed, run U.S. EPA's 1989 Outlier Test to identify suspected outliers.
   a) If number of background samples is less than or equal to 25, run Dixon's test for suspected outliers.
   b) If number of background samples is more than 25, run Rosner's test for suspected outliers.

3) If not normally distributed, run Tukey's test for outliers.

4) Review data flagged as possible outliers to evaluate whether they should be removed from the background data set. Also review time series plots for possible outliers that were not picked up in the statistical evaluation (e.g., an outlier test may not identify outliers when two values are similar to each other, but very different from all other data).

Results identified as statistical outliers are checked for possible lab instrument failure, field collection problems, or data entry errors; however, outliers may exist naturally in the data if there is an extremely wide inherent or temporal variability in the data. The Unified Guidance states that unless a likely error can be identified, the outlier should not be removed.

For the evaluation of interwell background data collected through the October 2024 sampling event, the following background values were identified by Sanitas as potential outliers and handled as described:

- Multiple Metals, April 2023 Event (MW-301 and MW-302): Multiple metals were diluted by the laboratory during the April 2023 event. The 5X dilution caused multiple elevated limits of detection high non-detects. Some of the diluted metals results were flagged by Sanitas and are noted below as applicable. All April 2023 metals results with 5X dilutions

were removed from the dataset because the results do not accurately representative metals concentrations at MW-301 and MW-302. Detected values affected by the 5X dilution were retained in the dataset. The non-detect metals affected by the 5X dilution factor are as follows.

  - MW-301: Antimony, arsenic, beryllium, boron, cadmium, chromium, cobalt, lead, molybdenum, selenium, thallium.

  - MW-302: Antimony, arsenic, beryllium, boron, cadmium, chromium, lead, lithium, molybdenum, selenium, thallium.

- Arsenic (MW-301): Three high arsenic results from August 2017, April 2023, and November 2023 were flagged as statistical outliers. The August 2017 and November 2023 results were kept in the dataset because the outliers did not appear to represent lab or sampling errors and appear to fall within a possible range for this parameter. As noted above, the high result from April 2023 was removed from the dataset because it is a non-detect value with an elevated limit of detection (LOD) due to 5X sample dilution.

- Barium (MW-301): Two low barium results from April 2017 and May 2017 were flagged as statistical outliers. The results were kept in the dataset because they did not appear to represent lab or sampling error and it appears to fall within a possible range for this parameter.

- Boron (MW-301 and MW-302): Two high barium results from April 2023 at MW-301 and MW-302 were flagged as statistical outliers. The results were removed from the dataset because both results were non-detects with elevated LODs due to 5X sample dilutions.

- Cadmium (MW-301): One low cadmium result in December 2016 and two high cadmium results from April 2023 and November 2023 were flagged as statistical outliers. The December 2016 and November 2023 results were kept in the dataset because the results did not appear to represent lab or sampling errors or they appear to fall within a possible range for this parameter. The low result in December 2016 (<0.029 micrograms per liter [µg/L]) was a non-detect result for cadmium, and most other results for cadmium were J-flagged. The high result in April 2023 was removed from the dataset because it had an elevated LOD due to a 5X sample dilution. The high result from November 2023 (0.33 µg/L) was higher than other results for this well, but appears to fall within a possible range for this parameter.

- Chromium (MW-301): One high chromium result from August 2017 was flagged as a statistical outlier. The result was kept in the dataset because it did not appear to represent lab or sampling error and it appears to fall within a possible range for this parameter (less than 2 times several other results).

- Cobalt (MW-302): A high cobalt concentration at MW-302 in April 2022 (31 µg/L) appears to be an outlier, although it was not flagged by Sanitas as a statistical outlier. This is much higher than other results at this well. The next highest result was 4.7 µg/L in March 2017, and other recent results have been less than 1 µg/L. This result was removed from the background dataset because it does not appear to represent true background water quality.

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- **Field pH (MW-302):** One high field pH result from October 2017 and one low field pH result from April 2022 were flagged as statistical outliers. Both results were removed from the dataset because they are significantly different from other results for this well, given that pH is on a log scale. Field pH measurements typically have a higher potential for measurement error due to the monitoring conditions and equipment.

- **Selenium (MW-301 and MW-302):** Two high selenium results from April 2023 at MW-301 and MW-302 were flagged as statistical outliers. The results removed from the dataset because they were non-detect and had elevated LODs due to 5X dilutions.

- **Sulfate (MW-301 and MW-302):** One high sulfate result from October 2018 was flagged as a statistical outlier at MW-301. One low sulfate result from May 2017 and one high sulfate result from April 2022 were flagged as statistical outliers at MW-302. The results were kept in the dataset because they did not appear to represent lab or sampling error and appear to fall within a possible range for this parameter.

- **Total Radium (MW-302):** One high total radium result from August 2018 was flagged as a statistical outlier. The result was kept in the dataset because it did not appear to represent lab or sampling error and it appears to fall within a possible range for this parameter.

Outlier analysis results are included in **Attachment 2.**

BACKGROUND UPDATE

The background data pool was updated in accordance with the Unified Guidance, which recommends updating background every 2 to 3 years for semiannual sampling. Prior to expanding the data pool, the original background data set (December 2016 through October 2022) and the data to be added (April 2023 through October 2024) were compared. The Unified Guidance states that recently collected measurements from the background wells can be added to the existing pool if a Student's t-test or Wilcoxon rank-sum test finds no significant difference between the two groups at the 1 percent level of significance. If there is a significant difference, the background data should be reviewed to determine which observations are most representative of the current groundwater conditions.

The Sanitas background group comparison for the PCS background data sets, included in **Attachment 3**, indicated no significant difference at the 1 percent level, except for the following:

- **Beryllium:** Difference was due to increase in detection limits and does not appear to represent a change in conditions. Use all data.

- **Cadmium (MW-302 only):** The recent data show more variability, partially because the original eight rounds of samples were collected over a period of less than 1 year and likely did not capture the full temporal variability of the population. Most results are J-flagged. Use all data.

- **Calcium**: The recent data show more variability, partially because the original eight rounds of samples were collected over a period of less than 1 year and likely did not capture the full temporal variability of the population. Use all data.

- **Chloride:** The more recent data have higher concentrations, which appear to be trending upward. Factors such as salt use may be increasing background concentrations of chloride at these wells. Use the original data set for UPL calculations. The more recent data can be used in an alternative source evaluation if the UPL is exceeded.

- **Fluoride:** Difference was due to increase in detection limits and does not appear to represent a change in conditions. Use all data.

- **Molybdenum (MW-301)**: The recent data show more variability, partially because the original eight rounds of samples were collected over a period of less than 1 year and likely did not capture the full temporal variability of the population. There is not a significant upward trend. Use all data.

- **Total dissolved solids (MW-302 only):** The recent data show more variability, partially because the original eight rounds of samples were collected over a period of less than 1 year and likely did not capture the full temporal variability of the population. There is not a significant upward trend. Use all data.

In summary, the evaluation of the background data indicated that the more recent data can be added to the background data pool with the exception of chloride. For chloride, the original data set will be used.

INTERWELL PREDICTION LIMITS

Interwell prediction limits for Appendix III parameters are calculated using background data from the upgradient monitoring wells (MW-301 and MW-302) for each monitored constituent, with outliers removed as noted above. During this evaluation of compliance monitoring, groundwater results from December 2016 through October 2024 were included to calculate the interwell prediction limits (except for chloride as noted above). The prediction limit analysis performed in Sanitas includes the following steps:

1) If 100 percent of the background values are non-detect, the Double Quantitation rule applies and no prediction limit is calculated.

2) If more than 50 percent of results are non-detect, then a non-parametric prediction limit is calculated.

3) If 50 percent or fewer of the results are non-detect, run normality test (Shapiro Wilk/Francia) to assess whether the data fit a normal distribution or can be transformed to fit a normal distribution (e.g., lognormal).

4) If normal or transformed normal, calculate parametric prediction limit.

5) If not normal or transformed normal, calculate non-parametric prediction limit.

Consistent with the Unified Guidance, parametric prediction limits are calculated based on a 1-of-2 retesting protocol and a 10 percent site-wide false positive rate. Sanitas establishes the per-test significance level based on user inputs of the number of events per year, number of constituents being evaluated, and number of compliance wells. For this update, the following values were used:

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Parameter	Value	Comments
Evaluations per year	2	April and October events
Constituents analyzed	7	Total of 7 Appendix III constituents
Compliance wells	6	Six compliance wells at the waste boundary

Non-parametric prediction limits are also based on a 1-of-2 retesting protocol.

For results with 100 percent non-detects in the background data, evaluation under the Double Quantitation Rule means that a statistically significant increase (SSI) has not occurred for a compliance well unless two sample results from the well exceed the laboratory's reporting limit or quanititation limit. All of the Appendix III constituents were detected at least one in the background wells; therefore, UPLs were calculated for all. Although UPLs were calculated for all constituents, a future result will not be identified as an SSI unless two sample results exceed both the UPL and the reporting limit or quantitation limit.

For evaluation of parameters with less than 100 percent non-detects in the background sampling, the non-detects were adjusted using the Kaplan-Meier technique, unless the non-detects represent less than 15 percent of the total samples, in which case one-half of the detection limit was used.

Interwell prediction limit analysis Appendix III results are included in **Attachment 4**.

INTERWELL TOLERANCE LIMITS

Interwell tolerance limits for Appendix IV parameters were calculated using background data from the upgradient monitoring wells (MW-301 and MW-302) for each monitored constituent, with outliers removed as noted above. During this evaluation of compliance monitoring, groundwater results from December 2016 through October 2024 were included to calculate the interwell tolerance limits. The tolerance limit analysis was performed in Sanitas, including the same five steps listed above. Management of non-detect results in the background data was also the same as described above for prediction limits. As recommended in the Unified Guidance, the UTL was calculated with 95 percent confidence and 95 percent coverage.

Interwell tolerance limits analysis results are included in **Attachment 5**.

LH/REO/RM/SCC

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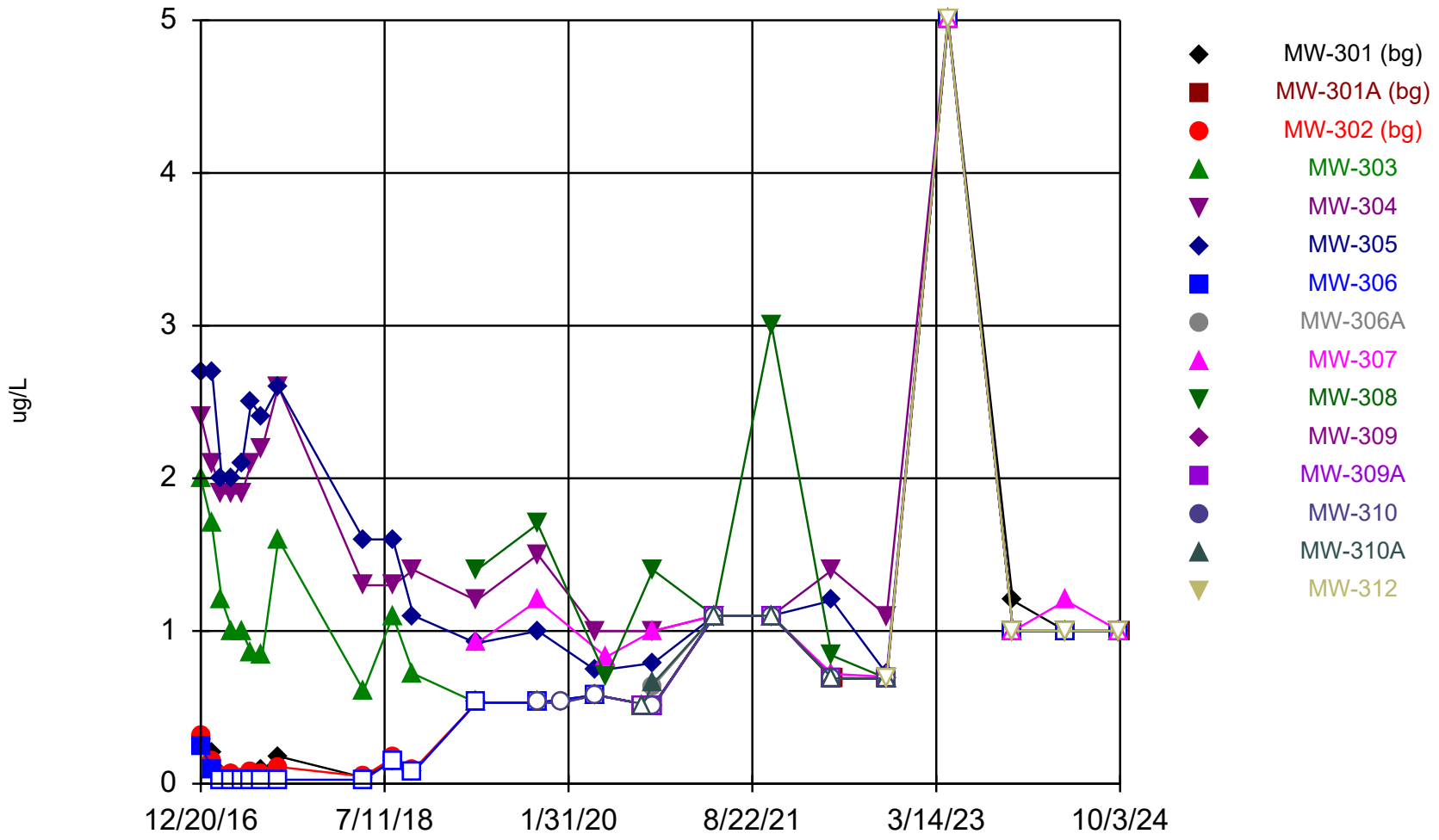
Attachment 1

Time Series Plots

Sanitas™ v.10.0.24 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Antimony



Time Series Analysis Run 2/3/2025 1:54 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Time Series

Constituent: Antimony (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-301A (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-306A	MW-307
12/20/2016	0.28 (J)		0.32 (J)	2					
12/21/2016					2.4	2.7	0.25 (J)		
1/23/2017	0.2 (J)		0.14 (J)	1.7					
1/24/2017					2.1	2.7	0.091 (J)		
2/23/2017	0.057 (J)		0.049 (J)	1.2	1.9	2	<0.026 (U)		
3/28/2017	0.06 (J)		0.067 (J)	1	1.9	2	<0.026 (U)		
4/26/2017	0.034 (J)		0.028 (J)	1	1.9				
4/27/2017						2.1	<0.026 (U)		
5/25/2017	0.065 (J)		0.077 (J)	0.86 (J)	2.1	2.5	<0.026 (U)		
6/28/2017	0.088 (J)		0.067 (J)	0.84 (J)	2.2	2.4	<0.026 (U)		
8/17/2017	0.18 (J)		0.11 (J)	1.6	2.6	2.6	<0.026 (U)		
5/8/2018	0.041 (J)		0.048 (J)	0.61 (J)	1.3	1.6	<0.026 (U)		
8/6/2018	<0.15 (U)		0.17 (J)	1.1	1.3	1.6	<0.15 (U)		
10/9/2018	<0.078 (U)		0.092 (J)	0.72 (J)	1.4	1.1	<0.078 (U)		
4/22/2019	<0.53 (U)		<0.53 (U)	<0.53 (U)	1.2	0.92 (J)	<0.53 (U)		
4/23/2019									0.92 (J)
10/28/2019	<0.53 (U)		<0.53 (U)						1.2
10/29/2019				<0.53 (U)	1.5	1	<0.53 (U)		
1/9/2020									
4/27/2020	<0.58 (U)		<0.58 (U)	<0.58 (U)	1	0.74 (J)	<0.58 (U)		
5/27/2020									0.83 (J)
9/15/2020		<0.51 (U)						<0.51 (U)	
10/19/2020	<0.51 (U)		<0.51 (U)						1
10/20/2020				<0.51 (U)	1	0.79 (J)	<0.51 (U)	0.64 (J)	
10/21/2020		<0.51 (U)							
4/26/2021									<1.1 (U)
4/27/2021	<1.1 (U)		<1.1 (U)	<1.1 (U)	<1.1 (U)	<1.1 (U)	<1.1 (U)	<1.1 (U)	
4/28/2021		<1.1 (U)							
10/20/2021						<1.1 (U)	<1.1 (U)	<1.1 (U)	
10/21/2021	<1.1 (U)		<1.1 (U)	<1.1 (U)	1.1 (J)				<1.1 (U)
10/22/2021		<1.1 (U)							
4/25/2022	<0.69 (U)		<0.69 (U)						0.72 (J)
4/26/2022				<0.69 (U)	1.4 (J)	1.2 (J)	<0.69 (U)	<0.69 (U)	
4/27/2022									
4/29/2022		<0.69 (U)							
10/12/2022	<0.69 (U)		<0.69 (U)	<0.69 (U)	1.1 (J)	0.72 (J)	<0.69 (U)	<0.69 (U)	0.7 (J)
10/13/2022		<0.69 (U)							
4/19/2023				<5 (U)	<5 (U)	<5 (U)	<5 (U)		
4/20/2023	<5 (U)	<5 (U)	<5 (U)						<5 (U)
11/6/2023	1.2 (J)								
11/7/2023		<1 (U)	<1 (U)	<1 (U)	<1 (U)	<1 (U)	<1 (U)		<1 (U)
4/15/2024				<1	<1		<1		
4/16/2024						<1			
4/17/2024		<1	<1						
4/18/2024	<1								1.2 (J)
10/1/2024	<1		<1						<1
10/2/2024				<1	<1	<1	<1		
10/3/2024		<1							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-308	MW-309	MW-309A	MW-310	MW-310A	MW-312
12/20/2016						
12/21/2016						
1/23/2017						
1/24/2017						
2/23/2017						
3/28/2017						
4/26/2017						
4/27/2017						
5/25/2017						
6/28/2017						
8/17/2017						
5/8/2018						
8/6/2018						
10/9/2018						
4/22/2019						
4/23/2019	1.4					
10/28/2019	1.7					
10/29/2019		<0.53 (U)		<0.53 (U)		
1/9/2020		<0.53 (U)		<0.53 (U)		
4/27/2020		<0.58 (U)		<0.58 (U)		
5/27/2020	0.7 (J)					
9/15/2020			<0.51 (U)		<0.51 (U)	
10/19/2020	1.4					
10/20/2020						
10/21/2020		<0.51 (U)	<0.51 (U)	<0.51 (U)	0.66 (J)	
4/26/2021	<1.1 (U)					
4/27/2021		<1.1 (U)	<1.1 (U)	<1.1 (U)	<1.1 (U)	
4/28/2021						
10/20/2021						
10/21/2021	3	<1.1 (U)				
10/22/2021			<1.1 (U)	<1.1 (U)	<1.1 (U)	
4/25/2022	0.84 (J)					
4/26/2022			<0.69 (U)			
4/27/2022		<0.69 (U)		<0.69 (U)	<0.69 (U)	
4/29/2022						
10/12/2022	<0.69 (U)	<0.69 (U)	<0.69 (U)	<0.69 (U)	<0.69 (U)	<0.69 (U)
10/13/2022						
4/19/2023						<5 (U)
4/20/2023	<5 (U)					
11/6/2023						
11/7/2023	<1 (U)					<1 (U)
4/15/2024						<1
4/16/2024						
4/17/2024						
4/18/2024	<1					
10/1/2024	<1					
10/2/2024						<1
10/3/2024						

ND substitution: RL or RL/2 if <15% NDs.

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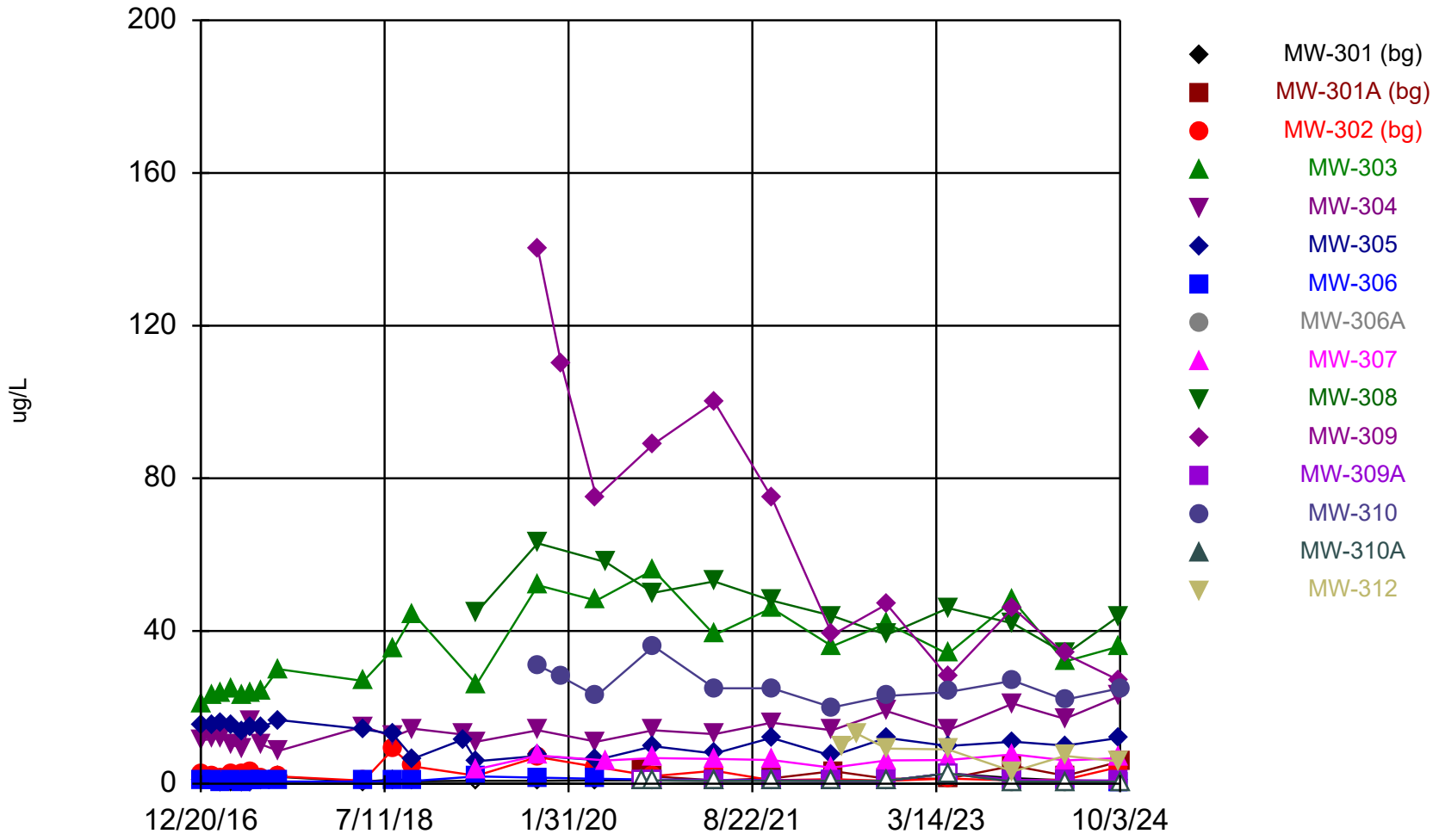
Hollow symbols indicate censored values.

Arsenic



Time Series Analysis Run 2/3/2025 1:54 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Time Series

Constituent: Arsenic (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-301A (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-306A	MW-307
12/20/2016	0.7 (J)		2.3	20.8					
12/21/2016					11.4	15.4	0.82 (J)		
1/23/2017	0.69 (J)		1.7	23.1					
1/24/2017					11.7	15.4	0.58 (J)		
2/23/2017	0.55 (J)		1.6	23.4	12	16	0.5 (J)		
3/28/2017	0.54 (J)		2.7	25	10.1	15.2	0.61 (J)		
4/26/2017	0.55 (J)		2.4	22.9	9.4				
4/27/2017						13.9	0.55 (J)		
5/25/2017	0.5 (J)		3.2	23.6	16.6	14.7	0.6 (J)		
6/28/2017	0.62 (J)		1.6	24.2	10.2	14.9	0.59 (J)		
8/17/2017	1.8		1.9	30	8.6	16.7	0.57 (J)		
5/8/2018	0.54 (J)		0.79 (J)	26.9	15	14.3	0.58 (J)		
8/6/2018	1.1		9	35.1	12.3	13	0.7 (J)		
10/9/2018	0.67 (J)		4.5	44.5	14.4	6.6	0.72 (J)		
3/11/2019					12.9	11.6			
4/22/2019	<0.75 (U)		2.1	26	11	5.9	1.9 (J)		
4/23/2019									3.8
10/28/2019	<0.75 (U)		7						7.4
10/29/2019				52	14	7.3	1.6 (J)		
1/9/2020									
4/27/2020	<0.88 (U)		4.4	48	11	6.2	1.3 (J)		
5/27/2020									6.1
9/15/2020		3.7						<0.88 (U)	
10/19/2020	<0.88 (U)		2						6.7
10/20/2020				56	14	9.8	1.1 (J)	<0.88 (U)	
10/21/2020		1.9 (J)							
4/26/2021									6.5
4/27/2021	<0.75 (U)		3.4	39	13	7.9	1 (J)	<0.75 (U)	
4/28/2021		0.87 (J)							
10/20/2021						12	0.87 (J)	<0.75 (U)	
10/21/2021	0.88 (J)		0.9 (J)	46	16				6.2
10/22/2021		1.4 (J)							
4/25/2022	0.8 (J)		1.2 (J)						4.2
4/26/2022				36	14	7.3	<0.75 (U)	<0.75 (U)	
4/27/2022									
4/29/2022		3.3							
5/25/2022									
7/15/2022									
10/12/2022	<0.75 (U)		0.76 (J)	42	19	12	<0.75 (U)	<0.75 (U)	6.1
10/13/2022		1.3 (J)							
4/19/2023				34	14	9.9 (J)	<2.7 (U)	<2.7 (U)	
4/20/2023	<2.7 (U)	<2.7 (U)	<2.7 (U)						6.2 (J)
11/6/2023	1.5 (J)								
11/7/2023		4.7	0.86 (J)	48	21	11	0.63 (J)	<0.53 (U)	7.7
4/15/2024				32	17		0.64 (J)	<0.53	
4/16/2024						10			
4/17/2024		2.1	1.1 (J)						
4/18/2024	0.87 (J)								6.1
10/1/2024	0.72 (J)		4.4						6.7
10/2/2024				36	23	12	<0.53	<0.53	
10/3/2024		5.8							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

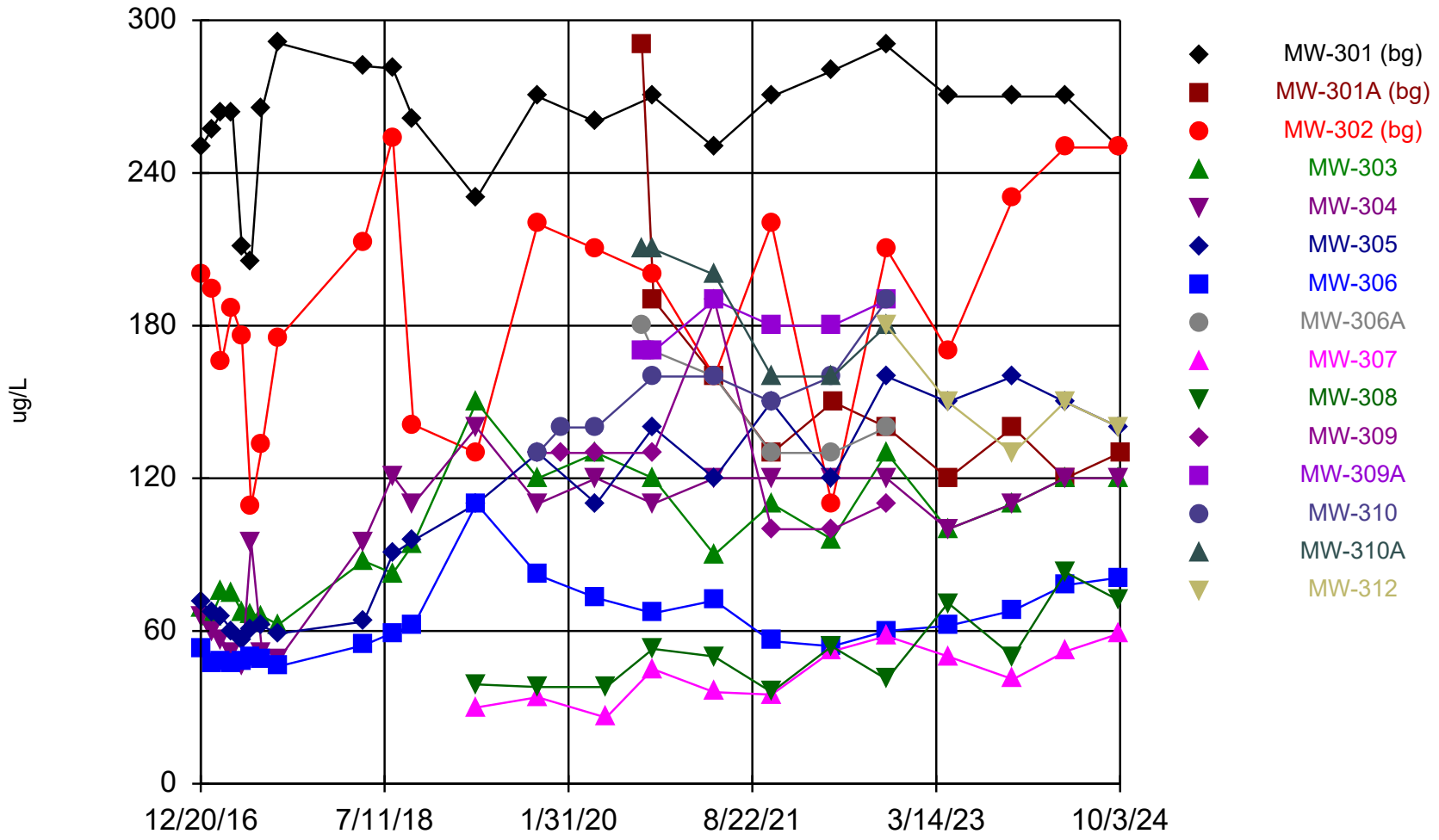
Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-308	MW-309	MW-309A	MW-310	MW-310A	MW-312
12/20/2016						
12/21/2016						
1/23/2017						
1/24/2017						
2/23/2017						
3/28/2017						
4/26/2017						
4/27/2017						
5/25/2017						
6/28/2017						
8/17/2017						
5/8/2018						
8/6/2018						
10/9/2018						
3/11/2019						
4/22/2019						
4/23/2019	45					
10/28/2019	63					
10/29/2019		140		31		
1/9/2020		110		28		
4/27/2020		75		23		
5/27/2020	58					
9/15/2020			<0.88 (U)		<0.88 (U)	
10/19/2020	50					
10/20/2020						
10/21/2020		89	<0.88 (U)	36	<0.88 (U)	
4/26/2021	53					
4/27/2021		100	0.98 (J)	25	<0.75 (U)	
4/28/2021						
10/20/2021						
10/21/2021	48	75				
10/22/2021			0.87 (J)	25	<0.75 (U)	
4/25/2022	44					
4/26/2022			0.79 (J)			
4/27/2022		39		20	<0.75 (U)	
4/29/2022						
5/25/2022						10
7/15/2022						13
10/12/2022	39	47	0.77 (J)	23	<0.75 (U)	9.2
10/13/2022						
4/19/2023		28	<2.7 (U)	24	<2.7 (U)	9 (J)
4/20/2023	46					
11/6/2023						
11/7/2023	42	46	1 (J)	27	<0.53 (U)	3.2
4/15/2024		34	0.84 (J)	22		7.3
4/16/2024					<0.53	
4/17/2024						
4/18/2024	34					
10/1/2024	44					
10/2/2024		27	0.88 (J)			5.8
10/3/2024				25	<0.53	

02/27/2026 - Classification: Internal - ECRM13684604

ND substitution: RL or RL/2 if <15% NDs.

Barium



Time Series Analysis Run 2/3/2025 1:54 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Time Series

Constituent: Barium (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-301A (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-306A	MW-307
12/20/2016	250		200	68.8					
12/21/2016					65.3	71.4	53		
1/23/2017	257		194	66					
1/24/2017					59.8	67.4	47.4		
2/23/2017	264		166	75.4	56.4	65.3	47.7		
3/28/2017	264		187	74.6	51.6	60.1	47.2		
4/26/2017	211		176	67.6	46.6				
4/27/2017						56.5	47.8		
5/25/2017	205		109	66.6	95	60.7	50.1		
6/28/2017	265		133	65.8	51.1	61.9	48.8		
8/17/2017	291		175	62.5	48.7	59	46.1		
5/8/2018	282		213	87.5	95	63.7	54.4		
8/6/2018	281		254	82.7	121	90.3	59.3		
10/9/2018	261		141	94.3	110	95.6	62.1		
4/22/2019	230		130	150	140	110	110		
4/23/2019									30
10/28/2019	270		220						34
10/29/2019				120	110	130	82		
1/9/2020									
4/27/2020	260		210	130	120	110	73		
5/27/2020									26
9/15/2020		290						180	
10/19/2020	270		200						45
10/20/2020				120	110	140	67	170	
10/21/2020		190							
4/26/2021									36
4/27/2021	250		160	90	120	120	72	160	
4/28/2021		160							
10/20/2021						150	56	130	
10/21/2021	270		220	110	120				35
10/22/2021		130							
4/25/2022	280		110						52
4/26/2022				96	120	120	54	130	
4/27/2022									
4/29/2022		150							
10/12/2022	290		210	130	120	160	60	140	58
10/13/2022		140							
4/19/2023				100	100	150	62		
4/20/2023	270	120	170						50
11/6/2023	270								
11/7/2023		140	230	110	110	160	68		41
4/15/2024				120	120		78		
4/16/2024						150			
4/17/2024		120	250						
4/18/2024	270								52
10/1/2024	250		250						59
10/2/2024				120	120	140	81		
10/3/2024		130							

Time Series

Constituent: Barium (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-308	MW-309	MW-309A	MW-310	MW-310A	MW-312
12/20/2016						
12/21/2016						
1/23/2017						
1/24/2017						
2/23/2017						
3/28/2017						
4/26/2017						
4/27/2017						
5/25/2017						
6/28/2017						
8/17/2017						
5/8/2018						
8/6/2018						
10/9/2018						
4/22/2019						
4/23/2019	39					
10/28/2019	38					
10/29/2019		130		130		
1/9/2020		130		140		
4/27/2020		130		140		
5/27/2020	38					
9/15/2020			170		210	
10/19/2020	53					
10/20/2020						
10/21/2020		130	170	160	210	
4/26/2021	50					
4/27/2021		190	190	160	200	
4/28/2021						
10/20/2021						
10/21/2021	36	100				
10/22/2021			180	150	160	
4/25/2022	54					
4/26/2022			180			
4/27/2022		100		160	160	
4/29/2022						
10/12/2022	41	110	190	190	180	180
10/13/2022						
4/19/2023						150
4/20/2023	71					
11/6/2023						
11/7/2023	50					130
4/15/2024						150
4/16/2024						
4/17/2024						
4/18/2024	83					
10/1/2024	72					
10/2/2024						140
10/3/2024						

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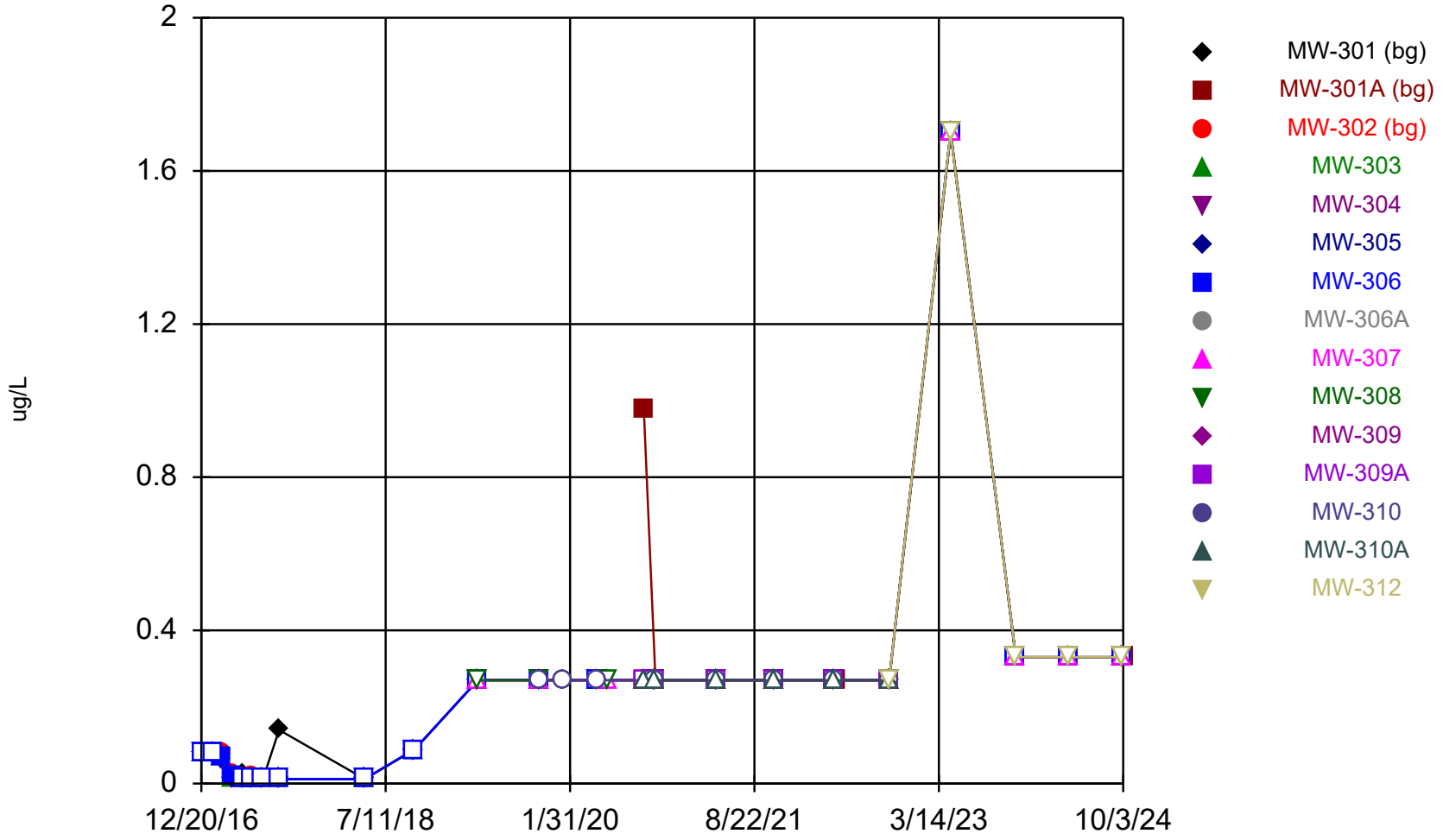
Hollow symbols indicate censored values.

Beryllium



Time Series Analysis Run 2/3/2025 1:55 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Time Series

Constituent: Beryllium (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-301A (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-306A	MW-307
12/20/2016	<0.08 (U)		<0.08 (U)	<0.08 (U)					
12/21/2016					<0.08 (U)	<0.08 (U)	<0.08 (U)		
1/23/2017	<0.08 (U)		<0.08 (U)	<0.08 (U)					
1/24/2017					<0.08 (U)	<0.08 (U)	<0.08 (U)		
2/23/2017	0.075 (J)		0.078 (J)	0.072 (J)	0.064 (J)	0.064 (J)	0.068 (J)		
3/28/2017	0.012 (J)		0.023 (J)	0.013 (J)	<0.012 (U)	0.016 (J)	0.021 (J)		
4/26/2017	0.023 (J)		<0.012 (U)	<0.012 (U)	<0.012 (U)				
4/27/2017						<0.012 (U)	<0.012 (U)		
5/25/2017	0.016 (J)		0.019 (J)	<0.012 (U)	<0.012 (U)	<0.012 (U)	<0.012 (U)		
6/28/2017	<0.012 (U)		<0.012 (U)	<0.012 (U)	<0.012 (U)	<0.012 (U)	<0.012 (U)		
8/17/2017	0.14 (J)		<0.012 (U)	<0.012 (U)	<0.012 (U)	<0.012 (U)	<0.012 (U)		
5/8/2018	<0.012 (U)		<0.012 (U)	<0.012 (U)	<0.012 (U)	<0.012 (U)	<0.012 (U)		
10/9/2018	<0.089 (U)		<0.089 (U)	<0.089 (U)	<0.089 (U)	<0.089 (U)	<0.089 (U)		
4/22/2019	<0.27 (U)		<0.27 (U)	<0.27 (U)	<0.27 (U)	<0.27 (U)	<0.27 (U)		
4/23/2019									<0.27 (U)
10/28/2019	<0.27 (U)		<0.27 (U)						<0.27 (U)
10/29/2019				<0.27 (U)	<0.27 (U)	<0.27 (U)	<0.27 (U)		
1/9/2020									
4/27/2020	<0.27 (U)		<0.27 (U)	<0.27 (U)	<0.27 (U)	<0.27 (U)	<0.27 (U)		
5/27/2020									<0.27 (U)
9/15/2020		0.98 (J)						<0.27 (U)	
10/19/2020	<0.27 (U)		<0.27 (U)						<0.27 (U)
10/20/2020				<0.27 (U)	<0.27 (U)	<0.27 (U)	<0.27 (U)	<0.27 (U)	
10/21/2020		<0.27 (U)							
4/26/2021									<0.27 (U)
4/27/2021	<0.27 (U)		<0.27 (U)	<0.27 (U)	<0.27 (U)	<0.27 (U)	<0.27 (U)	<0.27 (U)	
4/28/2021		<0.27 (U)							
10/20/2021						<0.27 (U)	<0.27 (U)	<0.27 (U)	
10/21/2021	<0.27 (U)		<0.27 (U)	<0.27 (U)	<0.27 (U)				<0.27 (U)
10/22/2021		<0.27 (U)							
4/25/2022	<0.27 (U)		<0.27 (U)						<0.27 (U)
4/26/2022				<0.27 (U)	<0.27 (U)	<0.27 (U)	<0.27 (U)	<0.27 (U)	
4/27/2022									
4/29/2022		<0.27 (U)							
10/12/2022	<0.27 (U)		<0.27 (U)	<0.27 (U)	<0.27 (U)	<0.27 (U)	<0.27 (U)	<0.27 (U)	<0.27 (U)
10/13/2022		<0.27 (U)							
4/19/2023				<1.7 (U)	<1.7 (U)	<1.7 (U)	<1.7 (U)		
4/20/2023	<1.7 (U)	<1.7 (U)	<1.7 (U)						<1.7 (U)
11/6/2023	<0.33 (U)								
11/7/2023		<0.33 (U)	<0.33 (U)	<0.33 (U)	<0.33 (U)	<0.33 (U)	<0.33 (U)		<0.33 (U)
4/15/2024				<0.33	<0.33		<0.33		
4/16/2024						<0.33			
4/17/2024		<0.33	<0.33						
4/18/2024	<0.33								<0.33
10/1/2024	<0.33		<0.33						<0.33
10/2/2024				<0.33	<0.33	<0.33	<0.33		
10/3/2024		<0.33							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-308	MW-309	MW-309A	MW-310	MW-310A	MW-312
12/20/2016						
12/21/2016						
1/23/2017						
1/24/2017						
2/23/2017						
3/28/2017						
4/26/2017						
4/27/2017						
5/25/2017						
6/28/2017						
8/17/2017						
5/8/2018						
10/9/2018						
4/22/2019						
4/23/2019	<0.27 (U)					
10/28/2019	<0.27 (U)					
10/29/2019		<0.27 (U)		<0.27 (U)		
1/9/2020		<0.27 (U)		<0.27 (U)		
4/27/2020		<0.27 (U)		<0.27 (U)		
5/27/2020	<0.27 (U)					
9/15/2020			<0.27 (U)		<0.27 (U)	
10/19/2020	<0.27 (U)					
10/20/2020						
10/21/2020		<0.27 (U)	<0.27 (U)	<0.27 (U)	<0.27 (U)	
4/26/2021	<0.27 (U)					
4/27/2021		<0.27 (U)	<0.27 (U)	<0.27 (U)	<0.27 (U)	
4/28/2021						
10/20/2021						
10/21/2021	<0.27 (U)	<0.27 (U)				
10/22/2021			<0.27 (U)	<0.27 (U)	<0.27 (U)	
4/25/2022	<0.27 (U)					
4/26/2022			<0.27 (U)			
4/27/2022		<0.27 (U)		<0.27 (U)	<0.27 (U)	
4/29/2022						
10/12/2022	<0.27 (U)	<0.27 (U)	<0.27 (U)	<0.27 (U)	<0.27 (U)	<0.27 (U)
10/13/2022						
4/19/2023						<1.7 (U)
4/20/2023	<1.7 (U)					
11/6/2023						
11/7/2023	<0.33 (U)					<0.33 (U)
4/15/2024						<0.33
4/16/2024						
4/17/2024						
4/18/2024	<0.33					
10/1/2024	<0.33					
10/2/2024						<0.33
10/3/2024						

ND substitution: RL or RL/2 if <15% NDs.

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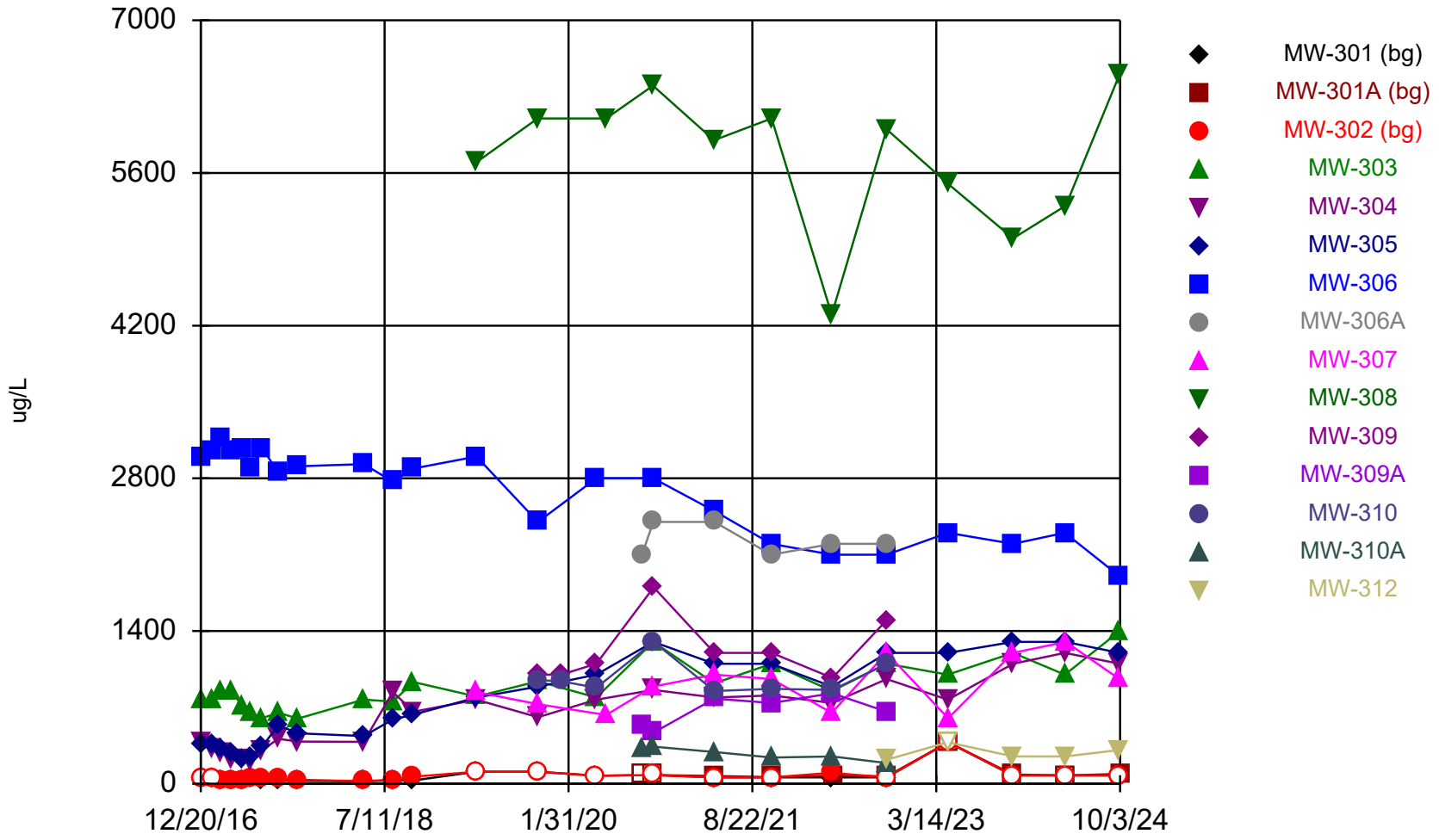
Hollow symbols indicate censored values.

Boron



Time Series Analysis Run 2/3/2025 1:55 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Time Series

Constituent: Boron (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-301A (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-306A	MW-307
12/20/2016	<50 (U)		<50 (U)	767					
12/21/2016					372	363	2990		
1/23/2017	<50 (U)		<50 (U)	773					
1/24/2017					323	353	3050		
2/23/2017	25.2 (J)		30.1 (J)	851	277	316	3160		
3/28/2017	23.8 (J)		33.7 (J)	852	224	274	3060		
4/26/2017	37.3 (J)		36.5 (J)	705	218				
4/27/2017						229	3080		
5/25/2017	40.8 (J)		51.6 (J)	644	212	243	2890		
6/28/2017	24.6 (J)		51.8 (J)	603	310	342	3080		
8/17/2017	28.9 (J)		45.1 (J)	650	412	537	2850		
10/17/2017	26.8 (J)		36.5 (J)	598	386	462	2910		
5/8/2018	22.8 (J)		22.4 (J)	772	384	437	2930		
8/6/2018	30.9 (J)		38.1 (J)	753	841	589	2770		
10/9/2018	30.6 (J)		65 (J)	932	661	634	2890		
4/22/2019	<110 (U)		<110 (U)	800	770	790	3000		
4/23/2019									840
10/28/2019	<110 (U)		<110 (U)						730
10/29/2019				940	610	890	2400		
1/9/2020									
4/27/2020	<73 (U)		<73 (U)	790	770	1000	2800		
5/27/2020									630
9/15/2020		<80 (U)						2100	
10/19/2020	<80 (U)		<80 (U)						890
10/20/2020				1300	860	1300	2800	2400	
10/21/2020		<80 (U)							
4/26/2021									1000
4/27/2021	<58 (U)		<58 (U)	920	790	1100	2500	2400	
4/28/2021		71 (J)							
10/20/2021						1100	2200	2100	
10/21/2021	<58 (U)		<58 (U)	1100	810				960
10/22/2021		61 (J)							
4/25/2022	<58 (U)		100						650
4/26/2022				850	740	890	2100	2200	
4/27/2022									
4/29/2022		74 (J)							
10/12/2022	<58 (U)		<58 (U)	1100	960	1200	2100	2200	1200
10/13/2022		68 (J)							
4/19/2023				1000	770	1200	2300		
4/20/2023	<380 (U)	<380 (U)	<380 (U)						600
11/6/2023	<76 (U)								
11/7/2023		85 (J)	<76 (U)	1200	1100 (B)	1300 (B)	2200 (B)		1200 (B)
4/15/2024				1000	1200		2300		
4/16/2024						1300			
4/17/2024		<76	<76						
4/18/2024	<76								1300
10/1/2024	<76		<76						960
10/2/2024				1400	1100	1200	1900		
10/3/2024		90 (J)							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-308	MW-309	MW-309A	MW-310	MW-310A	MW-312
12/20/2016						
12/21/2016						
1/23/2017						
1/24/2017						
2/23/2017						
3/28/2017						
4/26/2017						
4/27/2017						
5/25/2017						
6/28/2017						
8/17/2017						
10/17/2017						
5/8/2018						
8/6/2018						
10/9/2018						
4/22/2019						
4/23/2019	5700					
10/28/2019	6100					
10/29/2019		1000		950		
1/9/2020		1000		940		
4/27/2020		1100		880		
5/27/2020	6100					
9/15/2020			530		330	
10/19/2020	6400					
10/20/2020						
10/21/2020		1800	470	1300	340	
4/26/2021	5900					
4/27/2021		1200	780	850	290	
4/28/2021						
10/20/2021						
10/21/2021	6100	1200				
10/22/2021			740	870	240	
4/25/2022	4300					
4/26/2022			830			
4/27/2022		970		860	250	
4/29/2022						
10/12/2022	6000	1500	660	1100	190	220
10/13/2022						
4/19/2023						<380 (U)
4/20/2023	5500					
11/6/2023						
11/7/2023	5000					250 (B)
4/15/2024						250
4/16/2024						
4/17/2024						
4/18/2024	5300					
10/1/2024	6500					
10/2/2024						310
10/3/2024						

ND substitution: RL or RL/2 if <15% NDs.

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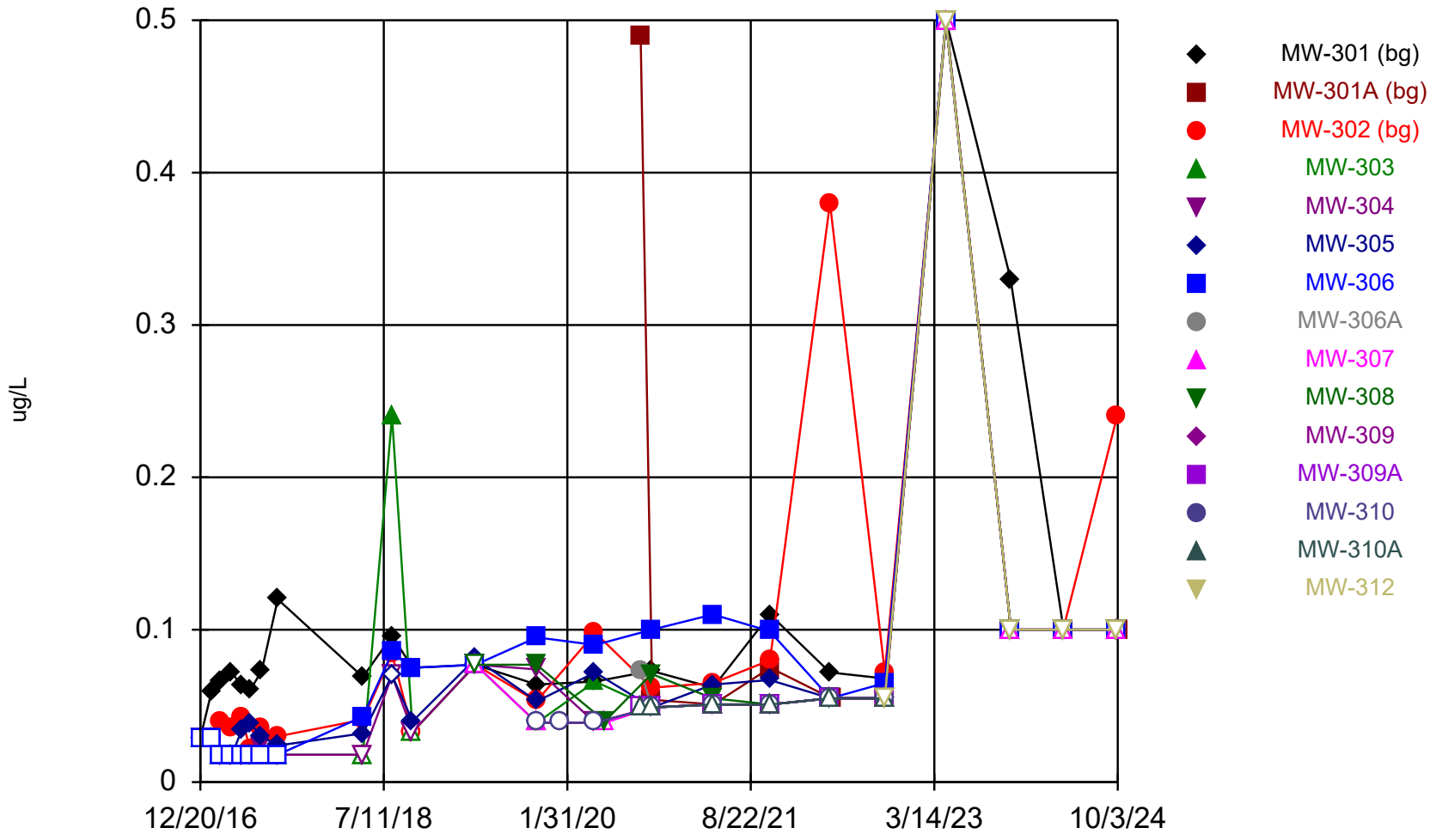
Hollow symbols indicate censored values.

Cadmium



Time Series Analysis Run 2/3/2025 1:55 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Time Series

Constituent: Cadmium (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-301A (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-306A	MW-307
12/20/2016	<0.029 (U)		<0.029 (U)	<0.029 (U)					
12/21/2016					<0.029 (U)	<0.029 (U)	<0.029 (U)		
1/23/2017	0.059 (J)		<0.029 (U)	<0.029 (U)					
1/24/2017					<0.029 (U)	<0.029 (U)	<0.029 (U)		
2/23/2017	0.066 (J)		0.04 (J)	<0.018 (U)	<0.018 (U)	<0.018 (U)	<0.018 (U)		
3/28/2017	0.072 (J)		0.036 (J)	<0.018 (U)	<0.018 (U)	<0.018 (U)	<0.018 (U)		
4/26/2017	0.063 (J)		0.042 (J)	<0.018 (U)	<0.018 (U)				
4/27/2017						0.034 (J)	<0.018 (U)		
5/25/2017	0.061 (J)		0.021 (J)	<0.018 (U)	0.018 (J)	0.038 (J)	<0.018 (U)		
6/28/2017	0.073 (J)		0.035 (J)	<0.018 (U)	0.023 (J)	0.03 (J)	<0.018 (U)		
8/17/2017	0.12 (J)		0.03 (J)	<0.018 (U)	<0.018 (U)	0.024 (J)	<0.018 (U)		
5/8/2018	0.069 (J)		0.041 (J)	<0.018 (U)	<0.018 (U)	0.032 (J)	0.043 (J)		
8/6/2018	0.096 (J)		0.084 (J)	0.24 (J)	<0.07 (U)	<0.07 (U)	0.085 (J)		
10/9/2018	0.075 (J)		<0.033 (U)	<0.033 (U)	<0.033 (U)	0.04 (J)	0.075 (J)		
4/22/2019	<0.077 (U)		<0.077 (U)	<0.077 (U)	<0.077 (U)	0.081 (J)	<0.077 (U)		
4/23/2019									<0.077 (U)
10/28/2019	0.064 (J)		0.053 (J)						<0.039 (U)
10/29/2019				<0.039 (U)	0.074 (J)	0.053 (J)	0.095 (J)		
1/9/2020									
4/27/2020	0.066 (J)		0.098 (J)	0.066 (J)	<0.039 (U)	0.072 (J)	0.09 (J)		
5/27/2020									<0.039 (U)
9/15/2020		0.49						0.073 (J)	
10/19/2020	0.073 (J)		0.062 (J)						<0.049 (U)
10/20/2020				<0.049 (U)	<0.049 (U)	<0.049 (U)	0.1	<0.049 (U)	
10/21/2020		0.054 (J)							
4/26/2021									<0.051 (U)
4/27/2021	0.062 (J)		0.065 (J)	<0.051 (U)	<0.051 (U)	0.064 (J)	0.11	<0.051 (U)	
4/28/2021		<0.051 (U)							
10/20/2021						0.067 (J)	0.099 (J)	<0.051 (U)	
10/21/2021	0.11		0.08 (J)	<0.051 (U)	<0.051 (U)				<0.051 (U)
10/22/2021		0.075 (J)							
4/25/2022	0.072 (J)		0.38						<0.055 (U)
4/26/2022				<0.055 (U)	<0.055 (U)	<0.055 (U)	<0.055 (U)	<0.055 (U)	
4/27/2022									
4/29/2022		<0.055 (U)							
10/12/2022	0.068 (J)		0.072 (J)	<0.055 (U)	<0.055 (U)	<0.055 (U)	0.065 (J)	<0.055 (U)	<0.055 (U)
10/13/2022		<0.055 (U)							
4/19/2023				<0.5 (U)	<0.5 (U)	<0.5 (U)	<0.5 (U)		
4/20/2023	<0.5 (U)	<0.5 (U)	<0.5 (U)						<0.5 (U)
11/6/2023	0.33								
11/7/2023		<0.1 (U)	<0.1 (U)	<0.1 (U)	<0.1 (U)	<0.1 (U)	<0.1 (U)		<0.1 (U)
4/15/2024				<0.1	<0.1		<0.1		
4/16/2024						<0.1			
4/17/2024		<0.1	<0.1						
4/18/2024	<0.1								<0.1
10/1/2024	<0.1		0.24						<0.1
10/2/2024				<0.1	<0.1	<0.1	<0.1		
10/3/2024		<0.1							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

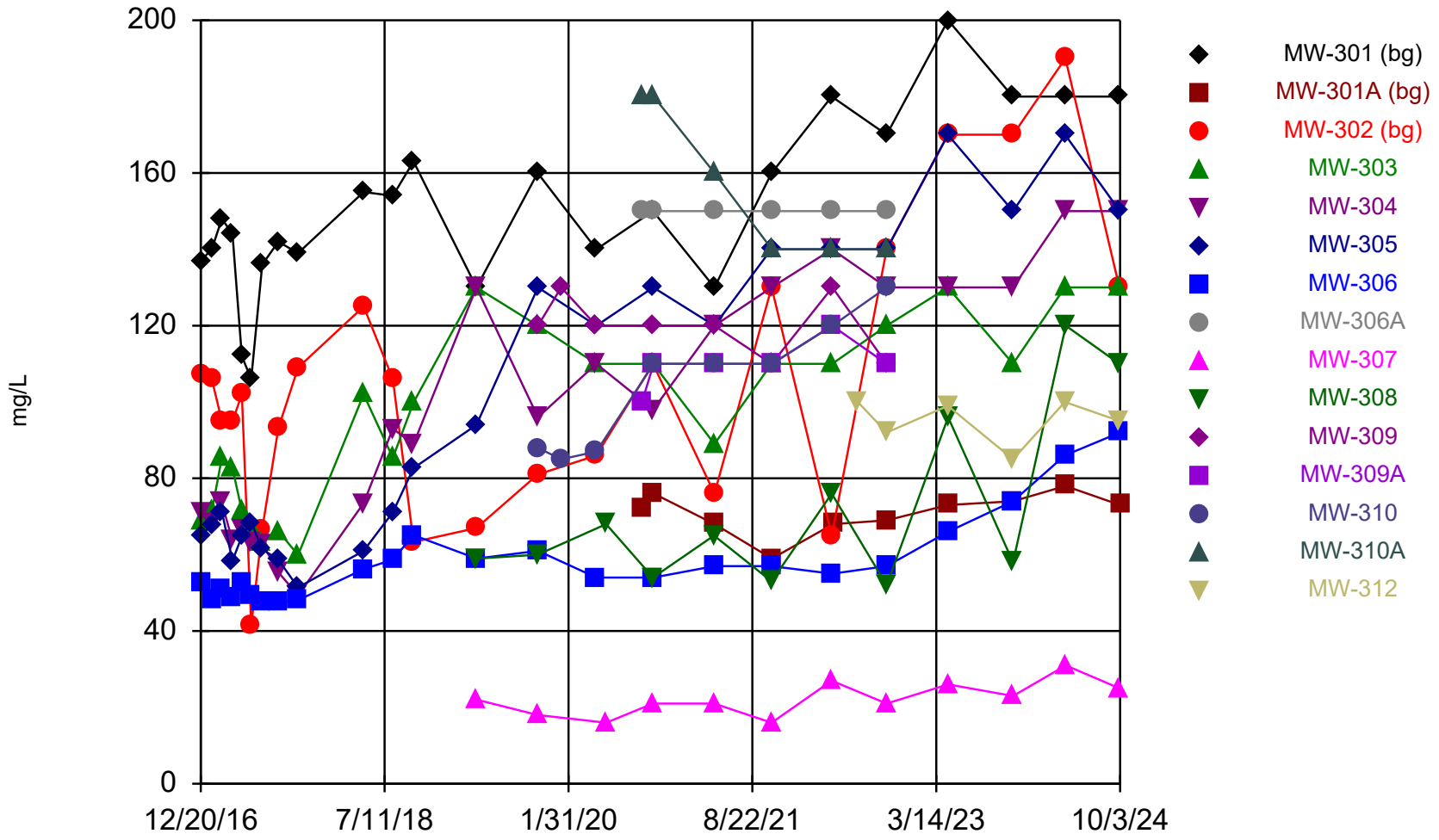
Constituent: Cadmium (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-308	MW-309	MW-309A	MW-310	MW-310A	MW-312
12/20/2016						
12/21/2016						
1/23/2017						
1/24/2017						
2/23/2017						
3/28/2017						
4/26/2017						
4/27/2017						
5/25/2017						
6/28/2017						
8/17/2017						
5/8/2018						
8/6/2018						
10/9/2018						
4/22/2019						
4/23/2019	<0.077 (U)					
10/28/2019	0.077 (J)					
10/29/2019		<0.039 (U)		<0.039 (U)		
1/9/2020		<0.039 (U)		<0.039 (U)		
4/27/2020		<0.039 (U)		<0.039 (U)		
5/27/2020	0.04 (J)					
9/15/2020			<0.049 (U)		<0.049 (U)	
10/19/2020	0.071 (J)					
10/20/2020						
10/21/2020		<0.049 (U)	<0.049 (U)	<0.049 (U)	<0.049 (U)	
4/26/2021	0.055 (J)					
4/27/2021		<0.051 (U)	<0.051 (U)	<0.051 (U)	<0.051 (U)	
4/28/2021						
10/20/2021						
10/21/2021	<0.051 (U)	<0.051 (U)				
10/22/2021			<0.051 (U)	<0.051 (U)	<0.051 (U)	
4/25/2022	<0.055 (U)					
4/26/2022			<0.055 (U)			
4/27/2022		<0.055 (U)		<0.055 (U)	<0.055 (U)	
4/29/2022						
10/12/2022	<0.055 (U)	<0.055 (U)	<0.055 (U)	<0.055 (U)	<0.055 (U)	<0.055 (U)
10/13/2022						
4/19/2023						<0.5 (U)
4/20/2023	<0.5 (U)					
11/6/2023						
11/7/2023	<0.1 (U)					<0.1 (U)
4/15/2024						<0.1
4/16/2024						
4/17/2024						
4/18/2024	<0.1					
10/1/2024	<0.1					
10/2/2024						<0.1
10/3/2024						

ND substitution: RL or RL/2 if <15% NDs.

Calcium



Time Series Analysis Run 2/3/2025 1:55 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Time Series

Constituent: Calcium (mg/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-301A (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-306A	MW-307
12/20/2016	137		107	68.7					
12/21/2016					71	65.1	52.4		
1/23/2017	140		106	71.4					
1/24/2017					68.2	67.8	48.4		
2/23/2017	148		95	85.4	73.6	71.3	51.2		
3/28/2017	144		95	82.7	63.6	58.4	48.8		
4/26/2017	112		102	71.5	66.6				
4/27/2017						65	52.8		
5/25/2017	106		41.4	67.8	63.5	68.5	49.1		
6/28/2017	136		66.7	63.5	62.9	61.4	47.5		
8/17/2017	142		93.1	66.2	55.4	58.7	47.7		
10/17/2017	139		109	59.9	49.3	51.4	48.1		
5/8/2018	155		125	102	73.5	61	56.2		
8/6/2018	154		106	85.4	93	71.1	58.7		
10/9/2018	163		63.3	99.9	89	82.7	65.1		
4/22/2019	130		67	130	130	94	59		
4/23/2019									22
10/28/2019	160		81						18
10/29/2019				120	96	130	61		
1/9/2020									
4/27/2020	140		86	110	110	120	54		
5/27/2020									16
9/15/2020		72						150	
10/19/2020	150		110						21
10/20/2020				110	98	130	54	150	
10/21/2020		76							
4/26/2021									21
4/27/2021	130		76	89	120	120	57	150	
4/28/2021		68							
10/20/2021						140	57	150	
10/21/2021	160		130	110	130				16
10/22/2021		59							
4/25/2022	180		65						27
4/26/2022				110	140	140	55	150	
4/27/2022									
4/29/2022		68							
7/15/2022									
10/12/2022	170		140	120	130	140	57	150	21
10/13/2022		69							
4/19/2023				130	130	170	66		
4/20/2023	200	73	170						26
11/6/2023	180								
11/7/2023		74	170	110	130	150	74		23
4/15/2024				130	150		86		
4/16/2024						170			
4/17/2024		78	190						
4/18/2024	180								31
10/1/2024	180		130						25
10/2/2024				130	150	150	92		
10/3/2024		73							

Time Series

Constituent: Calcium (mg/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-308	MW-309	MW-309A	MW-310	MW-310A	MW-312
12/20/2016						
12/21/2016						
1/23/2017						
1/24/2017						
2/23/2017						
3/28/2017						
4/26/2017						
4/27/2017						
5/25/2017						
6/28/2017						
8/17/2017						
10/17/2017						
5/8/2018						
8/6/2018						
10/9/2018						
4/22/2019						
4/23/2019	59					
10/28/2019	60					
10/29/2019		120		88		
1/9/2020		130		85		
4/27/2020		120		87		
5/27/2020	68					
9/15/2020			100		180	
10/19/2020	54					
10/20/2020						
10/21/2020		120	110	110	180	
4/26/2021	65					
4/27/2021		120	110	110	160	
4/28/2021						
10/20/2021						
10/21/2021	53	110				
10/22/2021			110	110	140	
4/25/2022	76					
4/26/2022			120			
4/27/2022		130		120	140	
4/29/2022						
7/15/2022						100
10/12/2022	52	110	110	130	140	92
10/13/2022						
4/19/2023						99
4/20/2023	96					
11/6/2023						
11/7/2023	58					85
4/15/2024						100
4/16/2024						
4/17/2024						
4/18/2024	120					
10/1/2024	110					
10/2/2024						95
10/3/2024						

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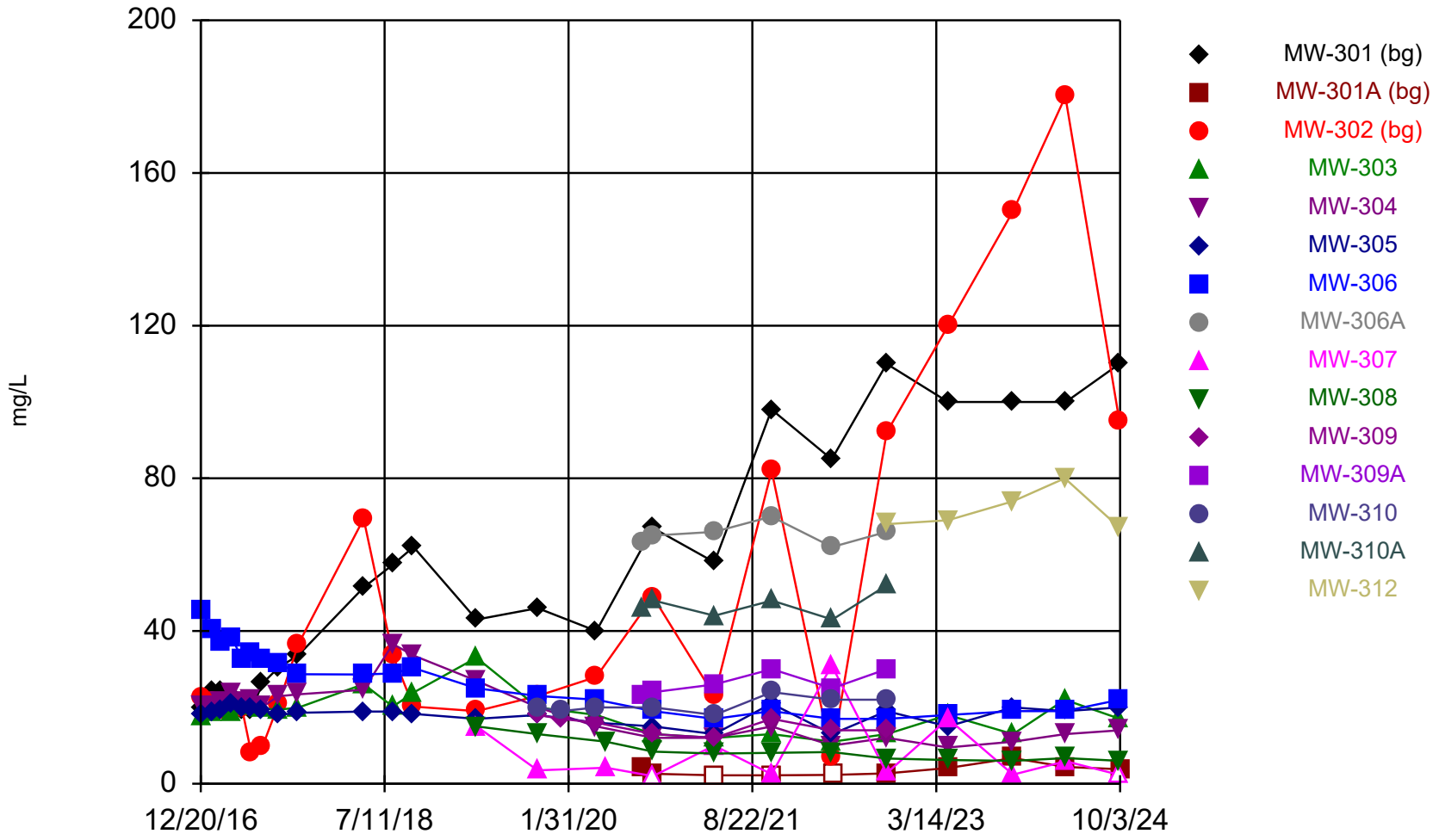
Hollow symbols indicate censored values.

Chloride



Time Series Analysis Run 2/3/2025 1:55 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Time Series

Constituent: Chloride (mg/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-301A (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-306A	MW-307
12/20/2016	19.5		22.6	17.6					
12/21/2016					20.2	18	45.4		
1/23/2017	24.1		21.4	18.7					
1/24/2017					20.6	18.6	40.3		
2/23/2017	24.4		19.2	19.6	21.4	19.2	36.8		
3/28/2017	23.3		21.6	18.9	23.7	21	38.1		
4/26/2017	19.2		19.9	20.2	21.7				
4/27/2017						19.5	32.4		
5/25/2017	19.1		8.1	21	22.1	19.8	34.5		
6/28/2017	26.2		9.6	19.7	20.1	19.3	32.6		
8/17/2017	30.4		20.7	19.4	22.9	18	31.7		
10/17/2017	33.6		36.4	19.9	23.4	18.6	28.7		
5/8/2018	51.4		69.4	26.1	24.6	18.9	28.6		
8/6/2018	57.4		33.6	20.2	36.6	18.9	28.9		
10/9/2018	62		20.2	23.9	33.6	18.3	30.3		
4/22/2019	43		19	33	27	17	25		
4/23/2019									15
10/28/2019	46		23						3.5 (J)
10/29/2019				20	20	18	23		
1/9/2020									
4/27/2020	40		28	18	15	16	22		
5/27/2020									4.2 (J)
9/15/2020		4.1 (JB)						63 (B)	
10/19/2020	67		49						<2 (U)
10/20/2020				13	12	15	19	65	
10/21/2020		2.6 (J)							
4/26/2021									10
4/27/2021	58		23	12	12	13	17	66	
4/28/2021		<2.2 (U)							
10/20/2021						21	19	70	
10/21/2021	98		82	13	15				2.5 (J)
10/22/2021		<2.2 (U)							
4/25/2022	85		7.2						31
4/26/2022				11	10	13	17	62	
4/27/2022									
4/29/2022		<2.3 (U)							
10/12/2022	110		92	13	12	19	17	66	2.8 (J)
10/13/2022		2.7 (J)							
4/19/2023				18	9.5	15	18		
4/20/2023	100	4.1 (J)	120						17
11/6/2023	100								
11/7/2023		6.7	150	13	11	20	19		2.4 (J)
4/15/2024				22	13		19		
4/16/2024						19			
4/17/2024		4.4 (J)	180						
4/18/2024	100								5.9
10/1/2024	110		95						<2.3
10/2/2024				17	14	20	22		
10/3/2024		3.8 (J)							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chloride (mg/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-308	MW-309	MW-309A	MW-310	MW-310A	MW-312
12/20/2016						
12/21/2016						
1/23/2017						
1/24/2017						
2/23/2017						
3/28/2017						
4/26/2017						
4/27/2017						
5/25/2017						
6/28/2017						
8/17/2017						
10/17/2017						
5/8/2018						
8/6/2018						
10/9/2018						
4/22/2019						
4/23/2019	15					
10/28/2019	13					
10/29/2019		18		20		
1/9/2020		17		19		
4/27/2020		16		20		
5/27/2020	11					
9/15/2020			23 (B)		46 (B)	
10/19/2020	8.4					
10/20/2020						
10/21/2020		13	24	20	48	
4/26/2021	7.9					
4/27/2021		12	26	18	44	
4/28/2021						
10/20/2021						
10/21/2021	8.1	17				
10/22/2021			30	24	48	
4/25/2022	8.3					
4/26/2022			25			
4/27/2022		14		22	43	
4/29/2022						
10/12/2022	6.6	14	30	22	52	68
10/13/2022						
4/19/2023						69
4/20/2023	6.2					
11/6/2023						
11/7/2023	6					74
4/15/2024						80
4/16/2024						
4/17/2024						
4/18/2024	6.7					
10/1/2024	6					
10/2/2024						67
10/3/2024						

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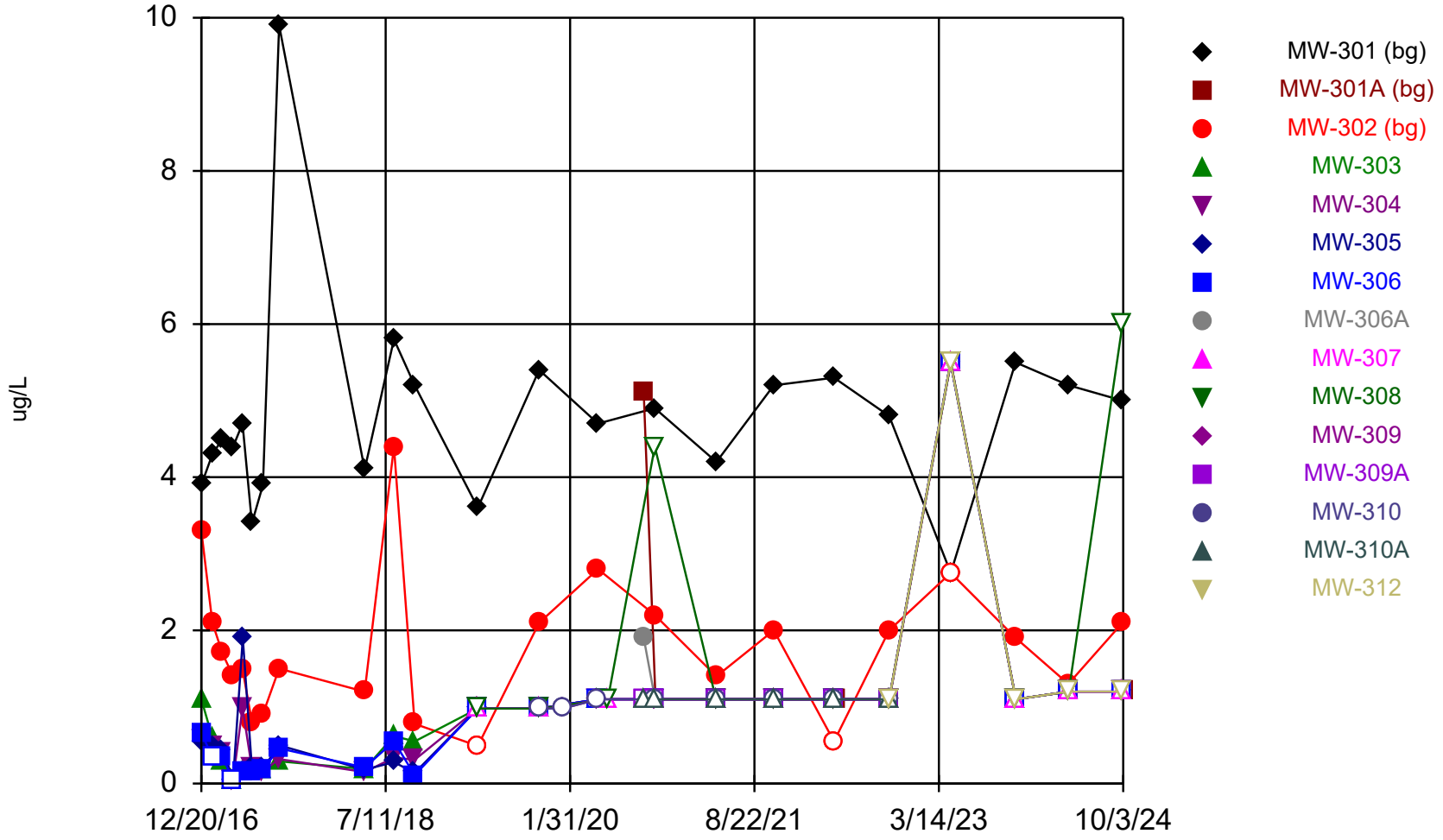
Hollow symbols indicate censored values.

Chromium



Time Series Analysis Run 2/3/2025 1:55 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Time Series

Constituent: Chromium (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-301A (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-306A	MW-307
12/20/2016	3.9		3.3	1.1					
12/21/2016					0.58 (J)	0.55 (J)	0.65 (J)		
1/23/2017	4.3		2.1	0.6 (J)					
1/24/2017					0.5 (J)	0.49 (J)	<0.34 (U)		
2/23/2017	4.5		1.7	0.28 (J)	0.41 (J)	0.44 (J)	0.34 (J)		
3/28/2017	4.4		1.4	<0.054 (U)	<0.054 (U)	<0.054 (U)	<0.054 (U)		
4/26/2017	4.7		1.5	0.14 (J)	0.99 (J)				
4/27/2017						1.9	0.14 (J)		
5/25/2017	3.4		0.8 (J)	0.21 (J)	0.2 (J)	0.2 (J)	0.16 (J)		
6/28/2017	3.9		0.91 (J)	0.18 (J)	0.16 (J)	0.2 (J)	0.18 (J)		
8/17/2017	9.9		1.5	0.29 (J)	0.32 (J)	0.5 (J)	0.46 (J)		
5/8/2018	4.1		1.2	0.19 (J)	0.15 (J)	0.18 (J)	0.21 (J)		
8/6/2018	5.8		4.4	0.62 (J)	0.34 (J)	0.28 (J)	0.55 (J)		
10/9/2018	5.2		0.78 (J)	0.55 (J)	0.31 (J)	0.14 (J)	0.11 (J)		
4/22/2019	3.6 (J)		<0.98 (U)	<0.98 (U)	<0.98 (U)	<0.98 (U)	<0.98 (U)		
4/23/2019									<0.98 (U)
10/28/2019	5.4		2.1 (J)						<0.98 (U)
10/29/2019				<0.98 (U)	<0.98 (U)	<0.98 (U)	<0.98 (U)		
1/9/2020									
4/27/2020	4.7 (J)		2.8 (J)	<1.1 (U)	<1.1 (U)	<1.1 (U)	<1.1 (U)		
5/27/2020									<1.1 (U)
9/15/2020		5.1						1.9 (J)	
10/19/2020	4.9 (J)		2.2 (J)						<1.1 (U)
10/20/2020				<1.1 (U)	<1.1 (U)	<1.1 (U)	<1.1 (U)	<1.1 (U)	
10/21/2020		1.1 (J)							
4/26/2021									<1.1 (U)
4/27/2021	4.2 (J)		1.4 (J)	<1.1 (U)	<1.1 (U)	<1.1 (U)	<1.1 (U)	<1.1 (U)	
4/28/2021		<1.1 (U)							
10/20/2021						<1.1 (U)	<1.1 (U)	<1.1 (U)	
10/21/2021	5.2		2 (J)	<1.1 (U)	<1.1 (U)				<1.1 (U)
10/22/2021		<1.1 (U)							
4/25/2022	5.3		<1.1 (U)						<1.1 (U)
4/26/2022				<1.1 (U)	<1.1 (U)	<1.1 (U)	<1.1 (U)	<1.1 (U)	
4/27/2022									
4/29/2022		<1.1 (U)							
10/12/2022	4.8 (J)		2 (J)	<1.1 (U)	<1.1 (U)	<1.1 (U)	<1.1 (U)	<1.1 (U)	<1.1 (U)
10/13/2022		<1.1 (U)							
4/19/2023				<5.5 (U)	<5.5 (U)	<5.5 (U)	<5.5 (U)		
4/20/2023	<5.5 (U)	<5.5 (U)	<5.5 (U)						<5.5 (U)
11/6/2023	5.5								
11/7/2023		<1.1 (U)	1.9 (J)	<1.1 (U)	<1.1 (U)	<1.1 (U)	<1.1 (U)		<1.1 (U)
4/15/2024				<1.2	<1.2		<1.2		
4/16/2024						<1.2			
4/17/2024		<1.2	1.3 (J)						
4/18/2024	5.2								<1.2
10/1/2024	5		2.1 (J)						<1.2
10/2/2024				<1.2	<1.2	<1.2	<1.2		
10/3/2024		<1.2							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-308	MW-309	MW-309A	MW-310	MW-310A	MW-312
12/20/2016						
12/21/2016						
1/23/2017						
1/24/2017						
2/23/2017						
3/28/2017						
4/26/2017						
4/27/2017						
5/25/2017						
6/28/2017						
8/17/2017						
5/8/2018						
8/6/2018						
10/9/2018						
4/22/2019						
4/23/2019	<0.98 (U)					
10/28/2019	<0.98 (U)					
10/29/2019		<0.98 (U)		<0.98 (U)		
1/9/2020		<0.98 (U)		<0.98 (U)		
4/27/2020		<1.1 (U)		<1.1 (U)		
5/27/2020	<1.1 (U)					
9/15/2020			<1.1 (U)		<1.1 (U)	
10/19/2020	<4.4 (U)					
10/20/2020						
10/21/2020		<1.1 (U)	<1.1 (U)	<1.1 (U)	<1.1 (U)	
4/26/2021	<1.1 (U)					
4/27/2021		<1.1 (U)	<1.1 (U)	<1.1 (U)	<1.1 (U)	
4/28/2021						
10/20/2021						
10/21/2021	<1.1 (U)	<1.1 (U)				
10/22/2021			<1.1 (U)	<1.1 (U)	<1.1 (U)	
4/25/2022	<1.1 (U)					
4/26/2022			<1.1 (U)			
4/27/2022		<1.1 (U)		<1.1 (U)	<1.1 (U)	
4/29/2022						
10/12/2022	<1.1 (U)	<1.1 (U)	<1.1 (U)	<1.1 (U)	<1.1 (U)	<1.1 (U)
10/13/2022						
4/19/2023						<5.5 (U)
4/20/2023	<5.5 (U)					
11/6/2023						
11/7/2023	<1.1 (U)					<1.1 (U)
4/15/2024						<1.2
4/16/2024						
4/17/2024						
4/18/2024	<1.2					
10/1/2024	<6					
10/2/2024						<1.2
10/3/2024						

ND substitution: RL or RL/2 if <15% NDs.

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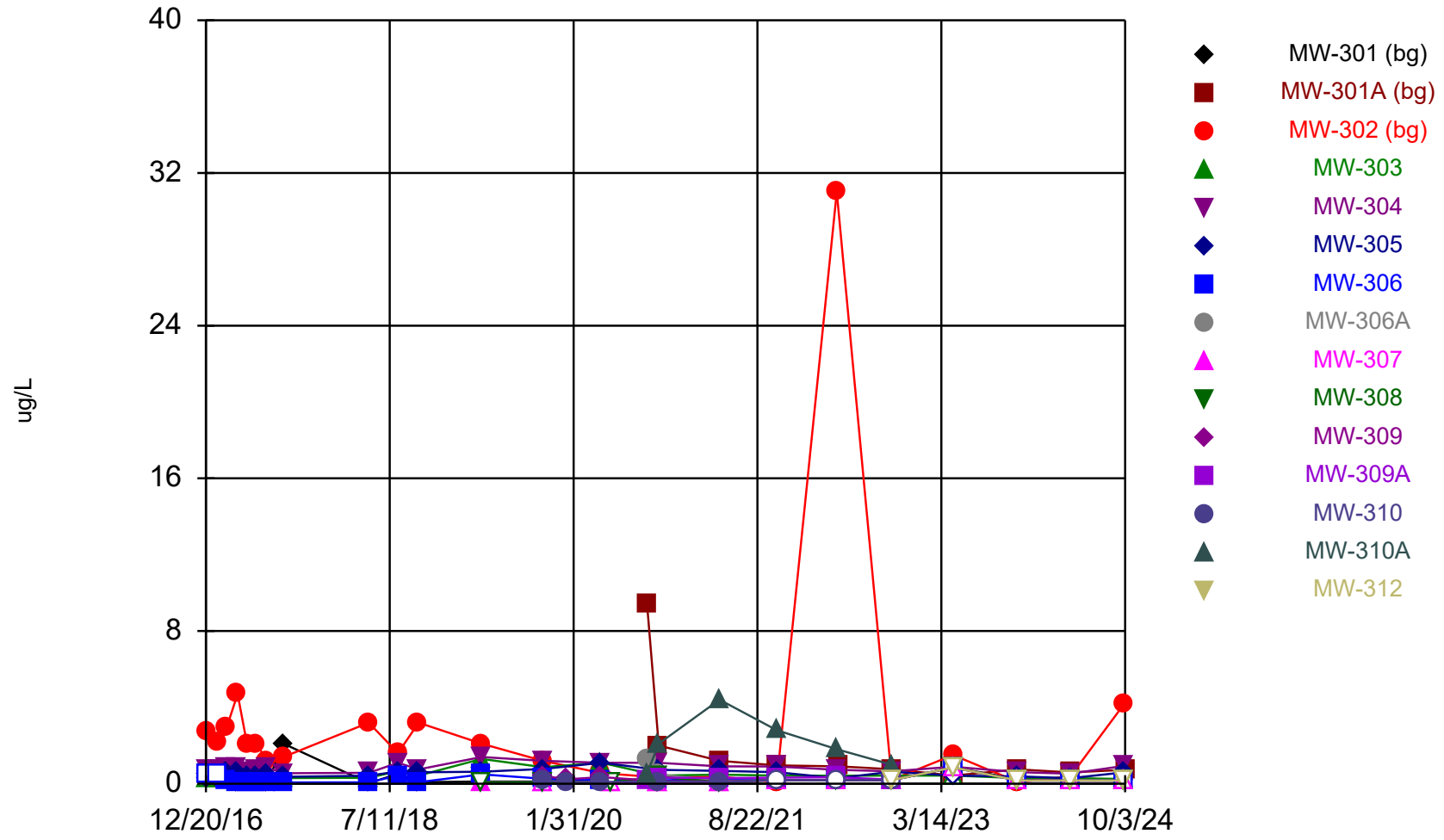
Hollow symbols indicate censored values.

Cobalt



Time Series Analysis Run 2/3/2025 1:55 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Time Series

Constituent: Cobalt (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-301A (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-306A	MW-307
12/20/2016	<0.5 (U)		2.7	<0.5 (U)					
12/21/2016					0.75 (J)	<0.5 (U)	<0.5 (U)		
1/23/2017	<0.5 (U)		2.2	<0.5 (U)					
1/24/2017					0.72 (J)	<0.5 (U)	<0.5 (U)		
2/23/2017	0.25 (J)		3	0.4 (J)	0.79 (J)	0.56 (J)	0.16 (J)		
3/28/2017	0.11 (J)		4.7	0.3 (J)	0.83 (J)	0.6 (J)	0.11 (J)		
4/26/2017	0.28 (J)		2.1	0.3 (J)	0.63 (J)				
4/27/2017						0.43 (J)	0.077 (J)		
5/25/2017	0.18 (J)		2.1	0.3 (J)	0.74 (J)	0.34 (J)	0.068 (J)		
6/28/2017	0.057 (J)		1.2	0.35 (J)	0.83 (J)	0.53 (J)	0.078 (J)		
8/17/2017	2.1		1.4	0.3 (J)	0.55 (J)	0.36 (J)	0.065 (J)		
5/8/2018	0.028 (J)		3.2	0.31 (J)	0.57 (J)	0.42 (J)	0.071 (J)		
8/6/2018	0.52 (J)		1.6	0.66 (J)	1.1	0.64 (J)	0.43 (J)		
10/9/2018	0.084 (J)		3.2	0.43 (J)	0.75 (J)	0.6 (J)	0.079 (J)		
4/22/2019	0.12 (J)		2.1	1.3	1.4	0.63	0.49 (J)		
4/23/2019									0.091 (J)
10/28/2019	0.12 (J)		1.2						<0.091 (U)
10/29/2019				0.87	1.2	0.77	0.26 (J)		
1/9/2020									
4/27/2020	0.23 (J)		0.56	1.1	1.1	1.1	0.2 (J)		
5/27/2020									<0.091 (U)
9/15/2020		9.4						1.3	
10/19/2020	<0.091 (U)		0.33 (J)						<0.091 (U)
10/20/2020				0.43 (J)	1.1	0.73	0.17 (J)	0.49 (J)	
10/21/2020		2							
4/26/2021									<0.091 (U)
4/27/2021	0.15 (J)		0.37 (J)	0.48 (J)	0.91	0.67	0.28 (J)	0.15 (J)	
4/28/2021		1.2							
10/20/2021						0.61	<0.19 (U)	<0.19 (U)	
10/21/2021	<0.19 (U)		<0.19 (U)	0.43 (J)	0.9				<0.19 (U)
10/22/2021		0.96							
4/25/2022	<0.19 (U)		31 (X)						<0.19 (U)
4/26/2022				0.42 (J)	0.73	0.29 (J)	<0.19 (U)	<0.19 (U)	
4/27/2022									
4/29/2022		0.91							
10/12/2022	<0.19 (U)		0.21 (J)	0.43 (J)	0.65	0.63	<0.19 (U)	<0.19 (U)	<0.19 (U)
10/13/2022		0.76							
4/19/2023				<0.85 (U)	0.89 (J)	<0.85 (U)	<0.85 (U)		
4/20/2023	<0.85 (U)	<0.85 (U)	1.5 (J)						<0.85 (U)
11/6/2023	0.25 (J)								
11/7/2023		0.75	<0.17 (U)	0.3 (J)	0.61	0.38 (J)	<0.17 (U)		<0.17 (U)
4/15/2024				0.3 (J)	0.53		<0.17		
4/16/2024						0.29 (J)			
4/17/2024		0.59	0.38 (J)						
4/18/2024	<0.17								<0.17
10/1/2024	<0.17		4.2						<0.17
10/2/2024				0.25 (J)	0.94	0.6	<0.17		
10/3/2024		0.73							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

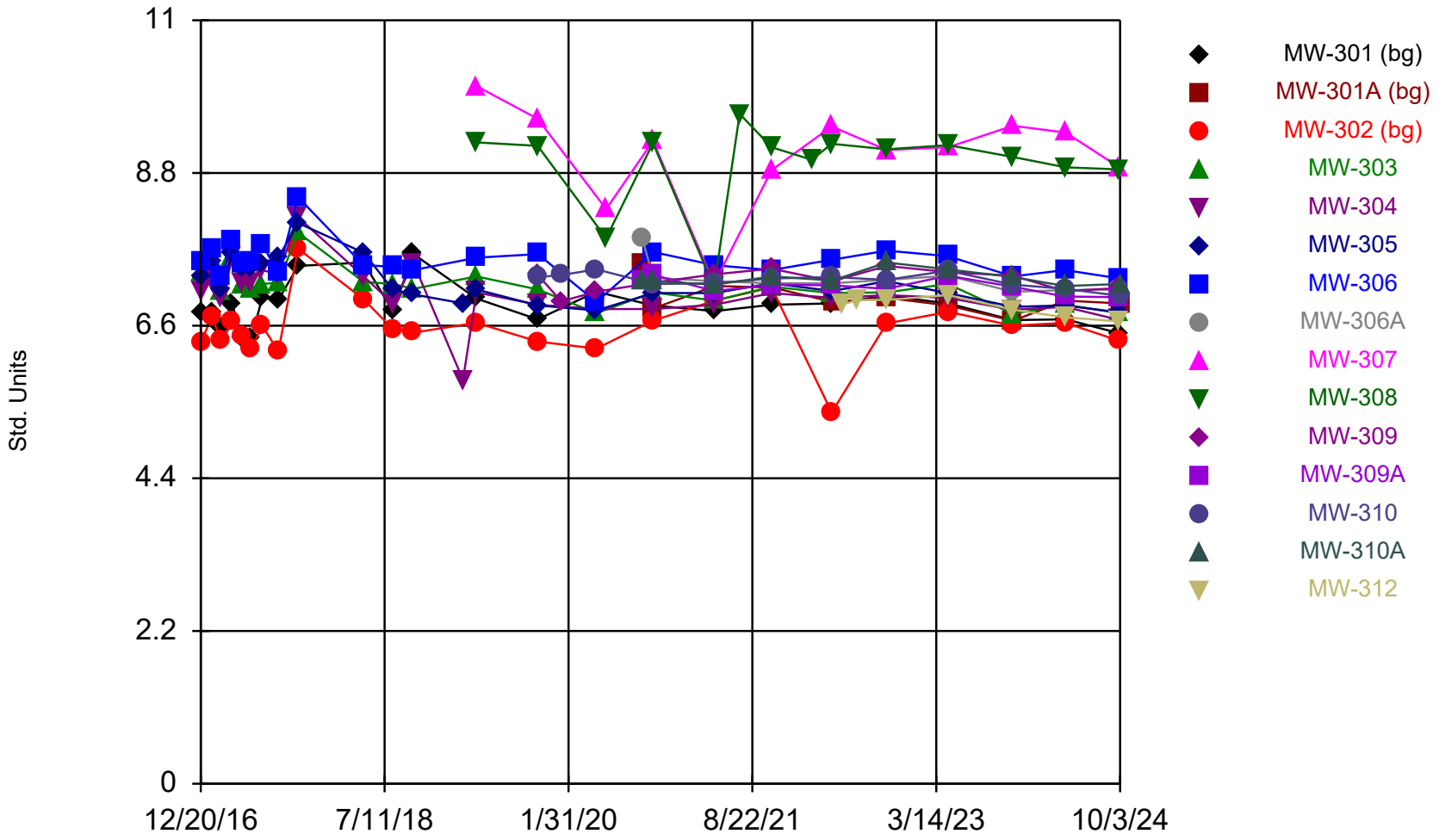
Constituent: Cobalt (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-308	MW-309	MW-309A	MW-310	MW-310A	MW-312
12/20/2016						
12/21/2016						
1/23/2017						
1/24/2017						
2/23/2017						
3/28/2017						
4/26/2017						
4/27/2017						
5/25/2017						
6/28/2017						
8/17/2017						
5/8/2018						
8/6/2018						
10/9/2018						
4/22/2019						
4/23/2019	<0.091 (U)					
10/28/2019	<0.091 (U)					
10/29/2019		0.42 (J)		0.17 (J)		
1/9/2020		0.23 (J)		0.095 (J)		
4/27/2020		0.35 (J)		0.098 (J)		
5/27/2020	<0.091 (U)					
9/15/2020			0.22 (J)		0.54	
10/19/2020	<0.36 (U)					
10/20/2020						
10/21/2020		0.14 (J)	0.32 (J)	0.11 (J)	2.1	
4/26/2021	<0.091 (U)					
4/27/2021		0.12 (J)	0.3 (J)	0.098 (J)	4.4	
4/28/2021						
10/20/2021						
10/21/2021	<0.19 (U)	<0.19 (U)				
10/22/2021			0.32 (J)	<0.19 (U)	2.8	
4/25/2022	<0.19 (U)					
4/26/2022			0.34 (J)			
4/27/2022		0.2 (J)		<0.19 (U)	1.8	
4/29/2022						
10/12/2022	<0.19 (U)	<0.19 (U)	0.22 (J)	<0.19 (U)	1	<0.19 (U)
10/13/2022						
4/19/2023						<0.85 (U)
4/20/2023	<0.85 (U)					
11/6/2023						
11/7/2023	<0.17 (U)					<0.17 (U)
4/15/2024						<0.17
4/16/2024						
4/17/2024						
4/18/2024	<0.17					
10/1/2024	<0.17					
10/2/2024						<0.17
10/3/2024						

ND substitution: RL or RL/2 if <15% NDs.

Field pH



Time Series Analysis Run 2/3/2025 1:55 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Time Series

Constituent: Field pH (Std. Units) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-301A (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-306A	MW-307
12/20/2016	6.78		6.36	7.37					
12/21/2016					7.09	7.32	7.53		
1/23/2017	6.8		6.72	7.55					
1/24/2017					7.25	7.51	7.71		
2/23/2017	6.57		6.38	7.09	7.01	7.13	7.31		
3/28/2017	6.9		6.66	7.57	7.58	7.65	7.84		
4/26/2017	6.41		6.44	7.18	7.23				
4/27/2017						7.42	7.5		
5/25/2017	6.41		6.27	7.11	7.23	7.42	7.53		
6/28/2017	7		6.6	7.2	7.4	7.49	7.77		
8/17/2017	6.97		6.23	7.22	7.34	7.58	7.36		
10/17/2017	7.46		7.71 (X)	7.94	8.16	8.08	8.45		
5/8/2018	7.51		6.98	7.23	7.31	7.65	7.47		
8/6/2018	6.81		6.55	7.2	6.92	7.12	7.45		
10/9/2018	7.63		6.5	7.13	7.5	7.05	7.4		
3/11/2019					5.82	6.92			
4/22/2019	6.99		6.64	7.31	7.08	7.12	7.58		
4/23/2019									10.05
10/28/2019	6.69		6.37						9.58
10/29/2019				7.12	6.9	6.89	7.63		
1/9/2020									
4/27/2020	7.09		6.27	6.78	6.84	6.82	6.94		
5/27/2020									8.28
9/15/2020		7.5						7.87	
10/19/2020	6.89		6.67						9.26
10/20/2020				7.08	6.84	7.07	7.66	7.29	
10/21/2020		6.85							
4/26/2021									7.2
4/27/2021	6.81		6.96	6.96	6.9	7.07	7.47	7.24	
4/28/2021		7.17							
7/14/2021									
10/20/2021						7.21	7.4	7.21	
10/21/2021	6.9		7.15	7.16	7.07				8.84
10/22/2021		7.15							
2/22/2022									
4/25/2022	6.92		5.35 (X)						9.47
4/26/2022				7.07	7	7.1	7.55	7.21	
4/27/2022									
4/29/2022		6.94							
5/25/2022									
7/15/2022									
10/12/2022	7.03		6.63	7.08	7.04	7.24	7.68	7.26	9.13
10/13/2022		7							
4/19/2023				7.2	7	7.07	7.6	7.32	
4/20/2023	6.92	6.89	6.8						9.17
11/6/2023	6.68								
11/7/2023		6.67	6.6	6.77	6.83	6.87	7.31	7.09	9.48
4/15/2024				6.9	6.87		7.4	7.11	
4/16/2024						6.89			
4/17/2024		6.96	6.64						
4/18/2024	6.69								9.38
10/1/2024	6.49		6.38						8.88

Time Series

Constituent: Field pH (Std. Units) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-301A (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-306A	MW-307
10/2/2024				6.78	6.68	6.79	7.28	7.12	
10/3/2024		6.92							

Time Series

Constituent: Field pH (Std. Units) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-308	MW-309	MW-309A	MW-310	MW-310A	MW-312
12/20/2016						
12/21/2016						
1/23/2017						
1/24/2017						
2/23/2017						
3/28/2017						
4/26/2017						
4/27/2017						
5/25/2017						
6/28/2017						
8/17/2017						
10/17/2017						
5/8/2018						
8/6/2018						
10/9/2018						
3/11/2019						
4/22/2019						
4/23/2019	9.24					
10/28/2019	9.19					
10/29/2019		7.33		7.3		
1/9/2020		6.95		7.33		
4/27/2020		7.09		7.41		
5/27/2020	7.86					
9/15/2020			7.26		7.25	
10/19/2020	9.23					
10/20/2020						
10/21/2020		7.22	7.33	7.2	7.24	
4/26/2021	7.15					
4/27/2021		7.34	7.1	7.21	7.19	
4/28/2021						
7/14/2021	9.65					
10/20/2021						
10/21/2021	9.17	7.42				
10/22/2021			7.19	7.28	7.31	
2/22/2022	8.99					
4/25/2022	9.22					
4/26/2022			7.18			
4/27/2022		7.24		7.3	7.25	
4/29/2022						
5/25/2022						6.9
7/15/2022						6.97
10/12/2022	9.14	7.46	7.13	7.26	7.51	6.97
10/13/2022						
4/19/2023		7.37	7.32	7.39	7.41	7.04
4/20/2023	9.2					
11/6/2023						
11/7/2023	9.03	7.32	7.16	7.19	7.3	6.83
4/15/2024		7.1	7.02	7.13		6.72
4/16/2024					7.17	
4/17/2024						
4/18/2024	8.88					
10/1/2024	8.85					

Time Series

Constituent: Field pH (Std. Units) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-308	MW-309	MW-309A	MW-310	MW-310A	MW-312
10/2/2024		7.14	7.01			6.66
10/3/2024				7.03	7.2	

02/27/2026 - Classification: Internal - ECRM13684604

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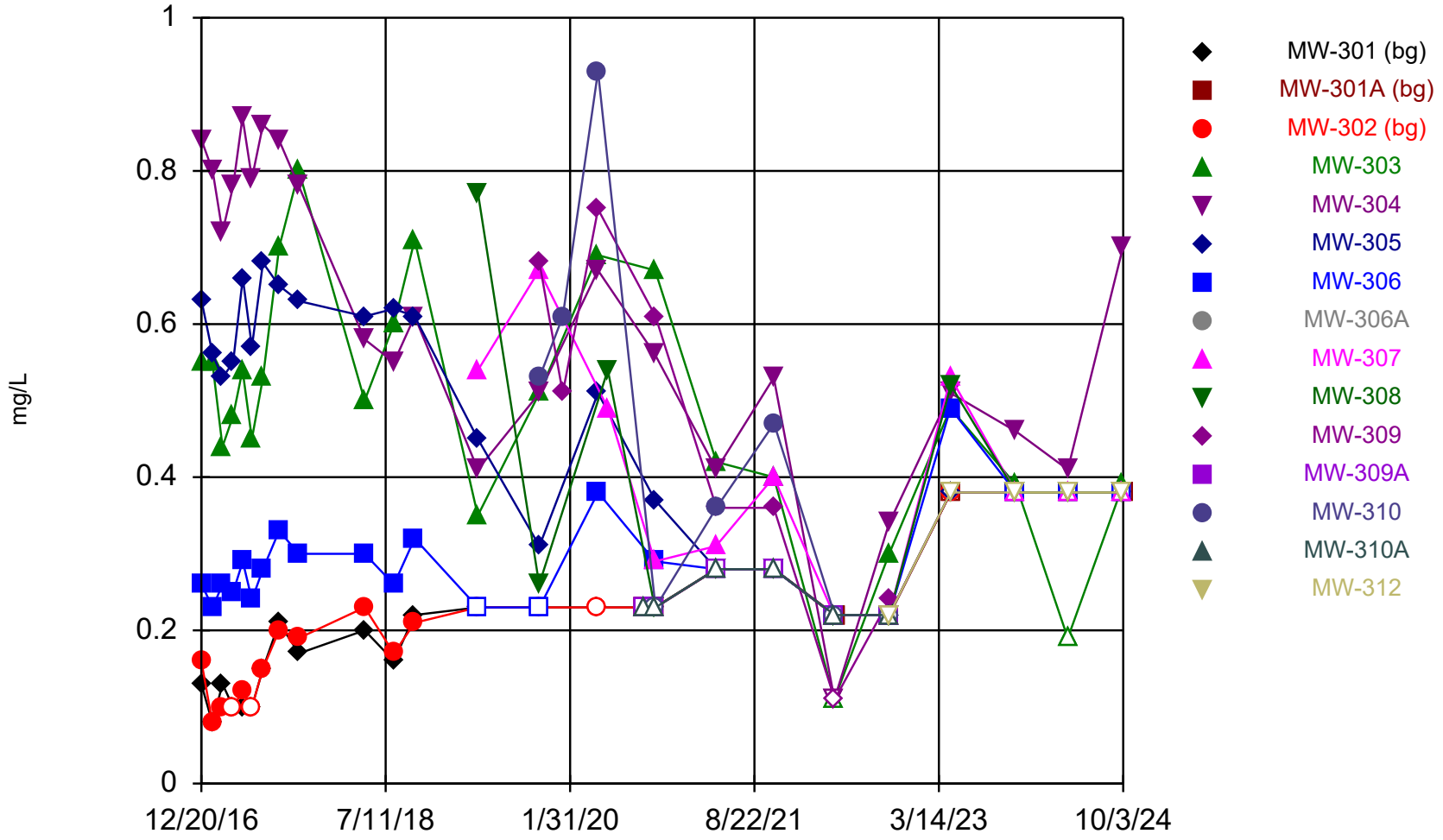
Hollow symbols indicate censored values.

Fluoride



Time Series Analysis Run 2/3/2025 1:55 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Time Series

Constituent: Fluoride (mg/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-301A (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-306A	MW-307
12/20/2016	0.13 (J)		0.16 (J)	0.55					
12/21/2016					0.84	0.63	0.26		
1/23/2017	0.079 (J)		0.079 (J)	0.55					
1/24/2017					0.8	0.56	0.23		
2/23/2017	0.13 (J)		0.1 (J)	0.44	0.72	0.53	0.26		
3/28/2017	0.1 (J)		<0.1 (U)	0.48	0.78	0.55	0.25		
4/26/2017	0.1 (J)		0.12 (J)	0.54	0.87				
4/27/2017						0.66	0.29		
5/25/2017	<0.1 (U)		<0.1 (U)	0.45	0.79	0.57	0.24		
6/28/2017	0.15 (J)		0.15 (J)	0.53	0.86	0.68	0.28		
8/17/2017	0.21		0.2 (J)	0.7	0.84	0.65	0.33		
10/17/2017	0.17 (J)		0.19 (J)	0.8	0.78	0.63	0.3		
5/8/2018	0.2 (J)		0.23	0.5	0.58	0.61	0.3		
8/6/2018	0.16 (J)		0.17 (J)	0.6	0.55	0.62	0.26		
10/9/2018	0.22		0.21	0.71	0.61	0.61	0.32		
4/22/2019	<0.23 (U)		<0.23 (U)	0.35 (J)	0.41 (J)	0.45 (J)	<0.23 (U)		
4/23/2019									0.54
10/28/2019	<0.23 (U)		<0.23 (U)						0.67
10/29/2019				0.51	0.51	0.31 (J)	<0.23 (U)		
1/9/2020									
4/27/2020	<0.23 (U)		<0.23 (U)	0.69	0.67	0.51	0.38 (J)		
5/27/2020									0.49 (J)
9/15/2020		<0.23 (U)						<0.23 (U)	
10/19/2020	<0.23 (U)		<0.23 (U)						0.29 (J)
10/20/2020				0.67	0.56	0.37 (J)	0.29 (J)	<0.23 (U)	
10/21/2020		<0.23 (U)							
4/26/2021									0.31 (J)
4/27/2021	<0.28 (U)		<0.28 (U)	0.42 (J)	0.41 (J)	<0.28 (U)	<0.28 (U)	<0.28 (U)	
4/28/2021		<0.28 (U)							
10/20/2021						<0.28 (U)	<0.28 (U)	<0.28 (U)	
10/21/2021	<0.28 (U)		<0.28 (U)	0.4 (J)	0.53				0.4 (J)
10/22/2021		<0.28 (U)							
4/25/2022	<0.22 (U)		<0.22 (U)						<0.22 (U)
4/26/2022				<0.22 (U)	<0.22 (U)	<0.22 (U)	<0.22 (U)	<0.22 (U)	
4/27/2022									
4/29/2022		<0.22 (U)							
10/12/2022	<0.22 (U)		<0.22 (U)	0.3 (J)	0.34 (J)	<0.22 (U)	<0.22 (U)	<0.22 (U)	<0.22 (U)
10/13/2022		<0.22 (U)							
4/19/2023				0.49 (J)	0.51 (J)	<0.38 (U)	0.49 (J)		
4/20/2023	<0.38 (U)	<0.38 (U)	<0.38 (U)						0.53 (J)
11/6/2023	<0.38 (U)								
11/7/2023		<0.38 (U)	<0.38 (U)	0.39 (J)	0.46 (J)	<0.38 (U)	<0.38 (U)		<0.38 (U)
4/15/2024				<0.38	0.41 (J)		<0.38		
4/16/2024						<0.38			
4/17/2024		<0.38	<0.38						
4/18/2024	<0.38								<0.38
10/1/2024	<0.38		<0.38						<0.38
10/2/2024				0.39 (J)	0.7 (J)	<0.38	<0.38		
10/3/2024		<0.38							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-308	MW-309	MW-309A	MW-310	MW-310A	MW-312
12/20/2016						
12/21/2016						
1/23/2017						
1/24/2017						
2/23/2017						
3/28/2017						
4/26/2017						
4/27/2017						
5/25/2017						
6/28/2017						
8/17/2017						
10/17/2017						
5/8/2018						
8/6/2018						
10/9/2018						
4/22/2019						
4/23/2019	0.77					
10/28/2019	0.26 (J)					
10/29/2019		0.68		0.53		
1/9/2020		0.51		0.61		
4/27/2020		0.75		0.93		
5/27/2020	0.54					
9/15/2020			<0.23 (U)		<0.23 (U)	
10/19/2020	<0.23 (U)					
10/20/2020						
10/21/2020		0.61	<0.23 (U)	<0.23 (U)	<0.23 (U)	
4/26/2021	<0.28 (U)					
4/27/2021		0.36 (J)	<0.28 (U)	0.36 (J)	<0.28	
4/28/2021						
10/20/2021						
10/21/2021	<0.28 (U)	0.36 (J)				
10/22/2021			<0.28 (U)	0.47 (J)	<0.28 (U)	
4/25/2022	<0.22 (U)					
4/26/2022			<0.22 (U)			
4/27/2022		<0.22 (U)		<0.22 (U)	<0.22 (U)	
4/29/2022						
10/12/2022	<0.22 (U)	0.24 (J)	<0.22 (U)	<0.22 (U)	<0.22 (U)	<0.22 (U)
10/13/2022						
4/19/2023						<0.38 (U)
4/20/2023	0.52 (J)					
11/6/2023						
11/7/2023	<0.38 (U)					<0.38 (U)
4/15/2024						<0.38
4/16/2024						
4/17/2024						
4/18/2024	<0.38					
10/1/2024	<0.38					
10/2/2024						<0.38
10/3/2024						

ND substitution: RL or RL/2 if <15% NDs.

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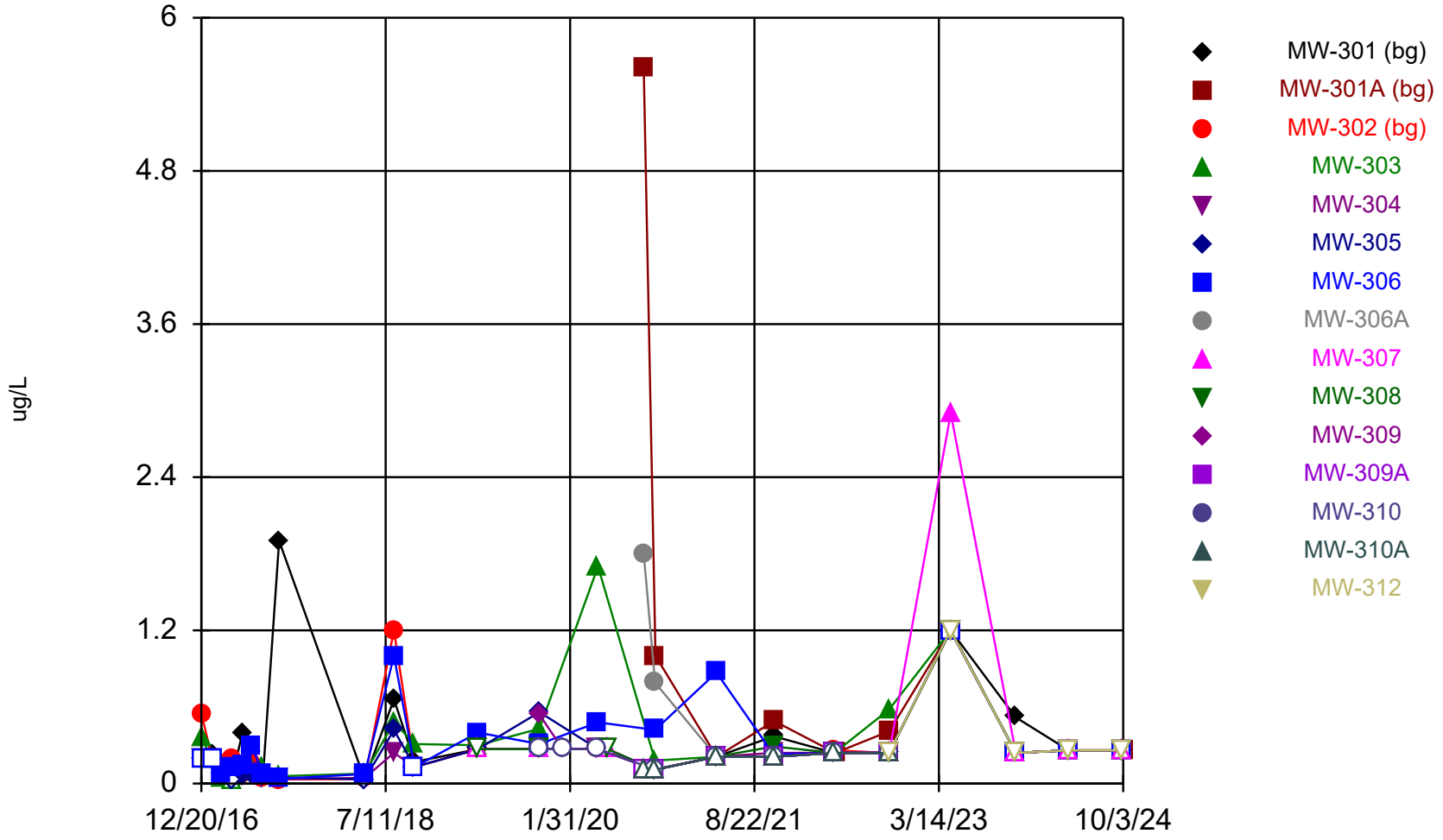
Hollow symbols indicate censored values.

Lead



Time Series Analysis Run 2/3/2025 1:55 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Time Series

Constituent: Lead (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-301A (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-306A	MW-307
12/20/2016	<0.19 (U)		0.55 (J)	0.36 (J)					
12/21/2016					<0.19 (U)	<0.19 (U)	<0.19 (U)		
1/23/2017	0.23 (J)		<0.19 (U)	<0.19 (U)					
1/24/2017					<0.19 (U)	<0.19 (U)	<0.19 (U)		
2/23/2017	0.16 (J)		0.14 (J)	0.037 (J)	0.11 (J)	0.07 (J)	0.075 (J)		
3/28/2017	0.086 (J)		0.2 (J)	<0.033 (U)	0.043 (J)	<0.033 (U)	0.13 (J)		
4/26/2017	0.4 (J)		0.083 (J)	0.095 (J)	0.061 (J)				
4/27/2017						0.058 (J)	0.15 (J)		
5/25/2017	0.25 (J)		0.16 (J)	0.12 (J)	0.1 (J)	0.08 (J)	0.3 (J)		
6/28/2017	0.058 (J)		0.034 (J)	0.12 (J)	0.042 (J)	0.061 (J)	0.068 (J)		
8/17/2017	1.9		<0.033 (U)	0.057 (J)	0.034 (J)	0.048 (J)	0.037 (J)		
5/8/2018	<0.033 (U)		0.035 (J)	0.078 (J)	0.045 (J)	<0.033 (U)	0.075 (J)		
8/6/2018	0.66 (J)		1.2	0.48 (J)	0.24 (J)	0.42 (J)	1		
10/9/2018	0.17 (J)		0.13 (J)	0.31 (J)	<0.13 (U)	<0.13 (U)	<0.13 (U)		
4/22/2019	<0.27 (U)		<0.27 (U)	0.3 (J)	<0.27 (U)	<0.27 (U)	0.4 (J)		
4/23/2019									<0.27 (U)
10/28/2019	<0.27 (U)		<0.27 (U)						<0.27 (U)
10/29/2019				0.43 (J)	0.27 (J)	0.56	0.31 (J)		
1/9/2020									
4/27/2020	0.27 (J)		<0.27 (U)	1.7	<0.27 (U)	<0.27 (U)	0.48 (J)		
5/27/2020									<0.27 (U)
9/15/2020		5.6						1.8	
10/19/2020	<0.11 (U)		<0.11 (U)						<0.11 (U)
10/20/2020				0.18 (J)	<0.11 (U)	<0.11 (U)	0.42 (J)	0.79	
10/21/2020		1							
4/26/2021									<0.21 (U)
4/27/2021	<0.21 (U)		<0.21 (U)	<0.21 (U)	<0.21 (U)	<0.21 (U)	0.87	<0.21 (U)	
4/28/2021		0.21 (J)							
10/20/2021						<0.21 (U)	0.23 (J)	<0.21 (U)	
10/21/2021	0.37 (J)		<0.21 (U)	<0.21 (U)	0.24 (J)				<0.21 (U)
10/22/2021		0.49 (J)							
4/25/2022	<0.24 (U)		0.26 (J)						<0.24 (U)
4/26/2022				<0.24 (U)	<0.24 (U)	<0.24 (U)	<0.24 (U)	<0.24 (U)	
4/27/2022									
4/29/2022		<0.24 (U)							
10/12/2022	<0.24 (U)		<0.24 (U)	0.58	<0.24 (U)	<0.24 (U)	<0.24 (U)	<0.24 (U)	<0.24 (U)
10/13/2022		0.41 (J)							
4/19/2023				<1.2 (U)	<1.2 (U)	<1.2 (U)	<1.2 (U)		
4/20/2023	<1.2 (U)	<1.2 (U)	<1.2 (U)						2.9
11/6/2023	0.52								
11/7/2023		<0.24 (U)	<0.24 (U)	<0.24 (U)	<0.24 (U)	<0.24 (U)	<0.24 (U)		<0.24 (U)
4/15/2024				<0.26	<0.26		<0.26		
4/16/2024						<0.26			
4/17/2024		<0.26	<0.26						
4/18/2024	<0.26								<0.26
10/1/2024	<0.26		0.26 (J)						<0.26
10/2/2024				<0.26	<0.26	<0.26	<0.26		
10/3/2024		<0.26							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-308	MW-309	MW-309A	MW-310	MW-310A	MW-312
12/20/2016						
12/21/2016						
1/23/2017						
1/24/2017						
2/23/2017						
3/28/2017						
4/26/2017						
4/27/2017						
5/25/2017						
6/28/2017						
8/17/2017						
5/8/2018						
8/6/2018						
10/9/2018						
4/22/2019						
4/23/2019	<0.27 (U)					
10/28/2019	<0.27 (U)					
10/29/2019		0.54		<0.27 (U)		
1/9/2020		<0.27 (U)		<0.27 (U)		
4/27/2020		<0.27 (U)		<0.27 (U)		
5/27/2020	<0.27 (U)					
9/15/2020			<0.11 (U)		<0.11 (U)	
10/19/2020	<0.11 (U)					
10/20/2020						
10/21/2020		<0.11 (U)	<0.11 (U)	<0.11 (U)	<0.11 (U)	
4/26/2021	<0.21 (U)					
4/27/2021		<0.21 (U)	<0.21 (U)	<0.21 (U)	<0.21 (U)	
4/28/2021						
10/20/2021						
10/21/2021	0.29 (J)	<0.21 (U)				
10/22/2021			<0.21 (U)	<0.21 (U)	<0.21 (U)	
4/25/2022	<0.24 (U)					
4/26/2022			<0.24 (U)			
4/27/2022		<0.24 (U)		<0.24 (U)	<0.24 (U)	
4/29/2022						
10/12/2022	<0.24 (U)	<0.24 (U)	<0.24 (U)	<0.24 (U)	<0.24 (U)	<0.24 (U)
10/13/2022						
4/19/2023						<1.2 (U)
4/20/2023	<1.2 (U)					
11/6/2023						
11/7/2023	<0.24 (U)					<0.24 (U)
4/15/2024						<0.26
4/16/2024						
4/17/2024						
4/18/2024	<0.26					
10/1/2024	<0.26					
10/2/2024						<0.26
10/3/2024						

ND substitution: RL or RL/2 if <15% NDs.

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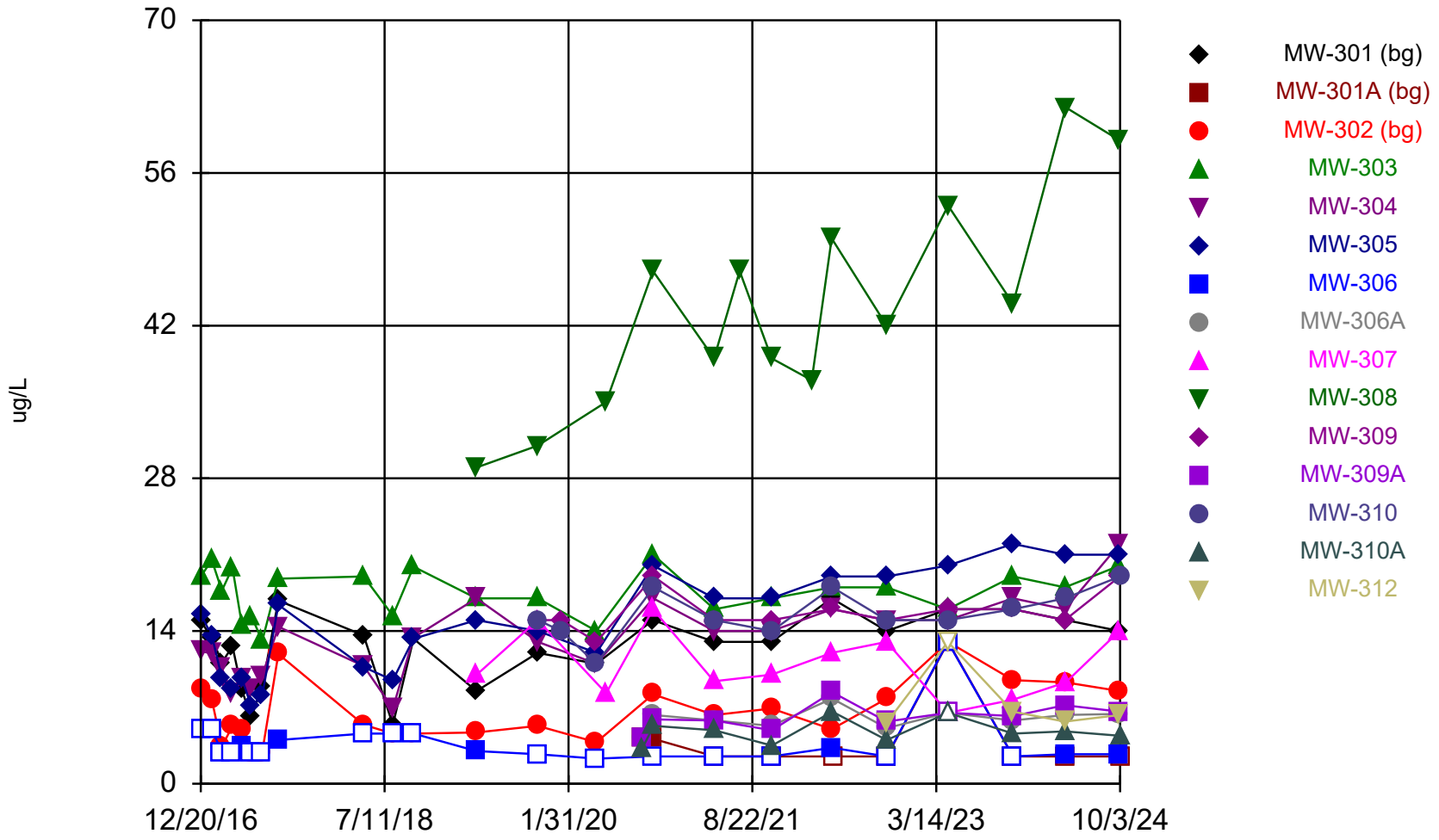
Hollow symbols indicate censored values.

Lithium



Time Series Analysis Run 2/3/2025 1:55 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Time Series

Constituent: Lithium (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-301A (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-306A	MW-307
12/20/2016	14.9		8.7 (J)	19					
12/21/2016					12.1	15.5	<4.9 (U)		
1/23/2017	13.4		7.7 (J)	20.5					
1/24/2017					12	13.5	<4.9 (U)		
2/23/2017	11.1		3.4 (J)	17.7	10.6	9.7 (J)	<2.9 (U)		
3/28/2017	12.6		5.3 (J)	19.8	8.2 (J)	8.6 (J)	<2.9 (U)		
4/26/2017	8.6 (J)		4.9 (J)	14.6	9.6 (J)				
4/27/2017						9.6 (J)	3.5 (J)		
5/25/2017	6.1 (J)		<2.9 (U)	15.4	8.6 (J)	7.1 (J)	<2.9 (U)		
6/28/2017	8.9 (J)		<2.9 (U)	13.1	9.9 (J)	8.1 (J)	<2.9 (U)		
8/17/2017	16.8		11.9	18.8	14.4	16.4	4 (J)		
5/8/2018	13.6		5.4 (J)	19	10.8	10.7	<4.6 (U)		
8/6/2018	5.4 (J)		<4.6 (U)	15.4	6.9 (J)	9.5 (J)	<4.6 (U)		
10/9/2018	13.3		4.6 (J)	19.9	13.4	13.3	<4.6 (U)		
4/22/2019	8.5 (J)		4.7 (J)	17	17	15	3 (J)		
4/23/2019									10
10/28/2019	12		5.3 (J)						15
10/29/2019				17	13	14	<2.7 (U)		
1/9/2020									
4/27/2020	11		3.8 (J)	14	11	12	<2.3 (U)		
5/27/2020									8.3 (J)
9/15/2020		4.2 (J)						4.1 (J)	
10/19/2020	15		8.2 (J)						16
10/20/2020				21	17	20	<2.5 (U)	6.3 (J)	
10/21/2020		4.1 (J)							
4/26/2021									9.4 (J)
4/27/2021	13		6.3 (J)	16	14	17	<2.5 (U)	5.8 (J)	
4/28/2021		<2.5 (U)							
7/14/2021									
10/20/2021						17	<2.5 (U)	5.3 (J)	
10/21/2021	13		6.9 (J)	17	14				10
10/22/2021		<2.5 (U)							
2/22/2022									
4/25/2022	17		5 (J)						12
4/26/2022				18	16	19	3.3 (J)	7.8 (J)	
4/27/2022									
4/29/2022		<2.5 (U)							
10/12/2022	14		7.8 (J)	18	15	19	<2.5 (U)	5.1 (J)	13
10/13/2022		<2.5 (U)							
4/19/2023				16 (J)	15 (J)	20 (J)	<13 (U)	<13 (U)	
4/20/2023	16 (J)	<13 (U)	<13 (U)						<13 (U)
11/6/2023	16								
11/7/2023		<2.5 (U)	9.5 (J)	19	17	22	<2.5 (U)	5.8 (J)	7.7 (J)
4/15/2024				18	16		2.7 (J)	6.3 (J)	
4/16/2024						21			
4/17/2024		<2.5	9.3 (J)						
4/18/2024	15								9.3 (J)
10/1/2024	14		8.5 (J)						14
10/2/2024				20	22	21	2.7 (J)	6.4 (J)	
10/3/2024		<2.5							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-308	MW-309	MW-309A	MW-310	MW-310A	MW-312
12/20/2016						
12/21/2016						
1/23/2017						
1/24/2017						
2/23/2017						
3/28/2017						
4/26/2017						
4/27/2017						
5/25/2017						
6/28/2017						
8/17/2017						
5/8/2018						
8/6/2018						
10/9/2018						
4/22/2019						
4/23/2019	29					
10/28/2019	31					
10/29/2019		15		15		
1/9/2020		15		14		
4/27/2020		13		11		
5/27/2020	35					
9/15/2020			4.1 (J)		3.2 (J)	
10/19/2020	47					
10/20/2020						
10/21/2020		19	5.9 (J)	18	5.3 (J)	
4/26/2021	39					
4/27/2021		15	5.8 (J)	15	4.9 (J)	
4/28/2021						
7/14/2021	47					
10/20/2021						
10/21/2021	39	15				
10/22/2021			4.9 (J)	14	3.5 (J)	
2/22/2022	37					
4/25/2022	50					
4/26/2022			8.4 (J)			
4/27/2022		16		18	6.6 (J)	
4/29/2022						
10/12/2022	42	15	5.7 (J)	15	4 (J)	5.6 (J)
10/13/2022						
4/19/2023		16 (J)	<13 (U)	15 (J)	<13 (U)	<13 (U)
4/20/2023	53					
11/6/2023						
11/7/2023	44	16	6.2 (J)	16	4.6 (J)	6.6 (J)
4/15/2024		15	7.2 (J)	17		5.7 (J)
4/16/2024					4.8 (J)	
4/17/2024						
4/18/2024	62					
10/1/2024	59					
10/2/2024		19	6.6 (J)			6.3 (J)
10/3/2024				19	4.4 (J)	

02/27/2026 - Classification: Internal - ECRM13684604

ND substitution: RL or RL/2 if <15% NDs.

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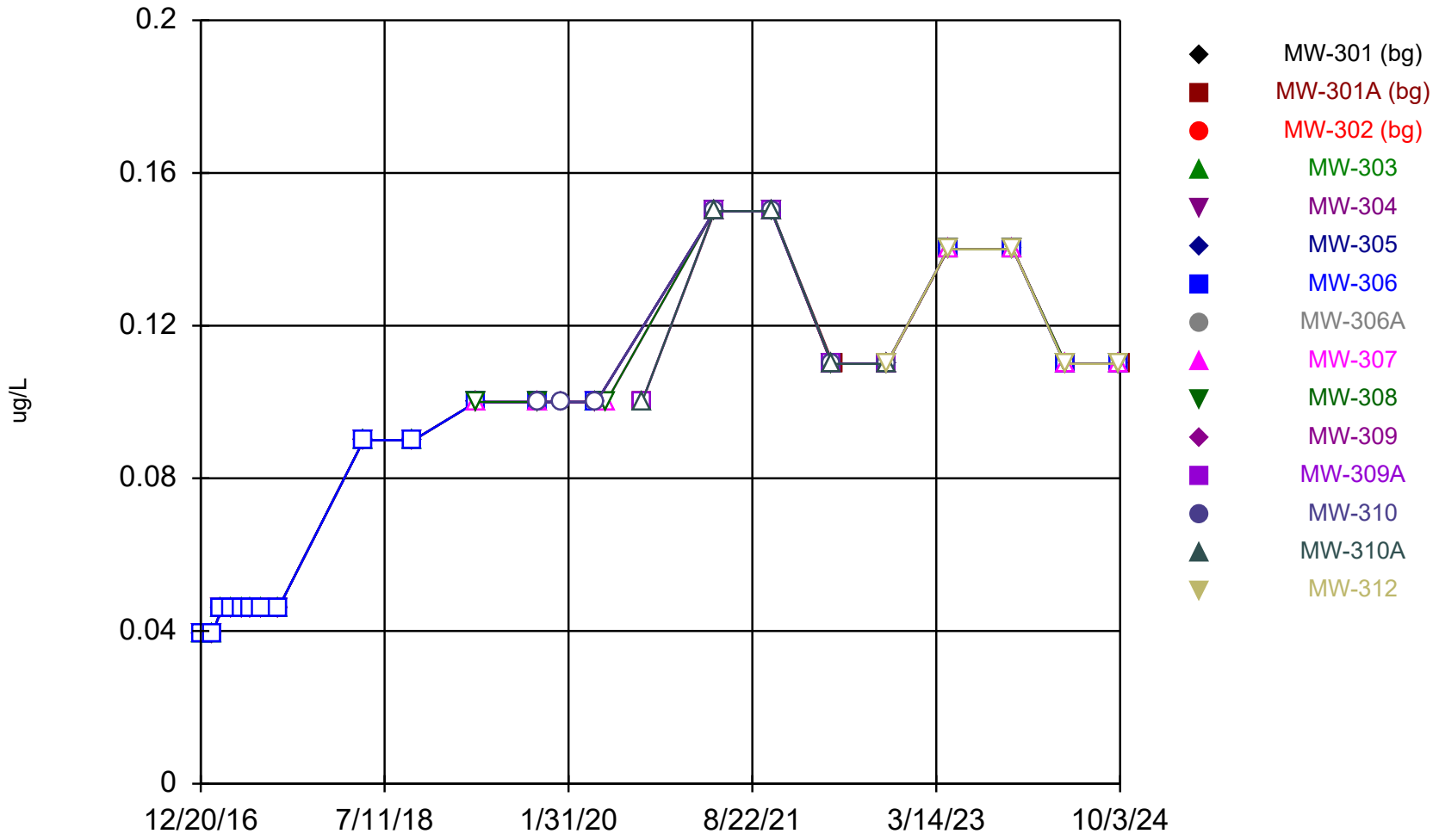
Hollow symbols indicate censored values.

Mercury



Time Series Analysis Run 2/3/2025 1:55 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Time Series

Constituent: Mercury (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-301A (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-306A	MW-307
12/20/2016	<0.039 (U)		<0.039 (U)	<0.039 (U)					
12/21/2016					<0.039 (U)	<0.039 (U)	<0.039 (U)		
1/23/2017	<0.039 (U)		<0.039 (U)	<0.039 (U)					
1/24/2017					<0.039 (U)	<0.039 (U)	<0.039 (U)		
2/23/2017	<0.046 (U)		<0.046 (U)	<0.046 (U)	<0.046 (U)	<0.046 (U)	<0.046 (U)		
3/28/2017	<0.046 (U)		<0.046 (U)	<0.046 (U)	<0.046 (U)	<0.046 (U)	<0.046 (U)		
4/26/2017	<0.046 (U)		<0.046 (U)	<0.046 (U)	<0.046 (U)				
4/27/2017						<0.046 (U)	<0.046 (U)		
5/25/2017	<0.046 (U)		<0.046 (U)	<0.046 (U)	<0.046 (U)	<0.046 (U)	<0.046 (U)		
6/28/2017	<0.046 (U)		<0.046 (U)	<0.046 (U)	<0.046 (U)	<0.046 (U)	<0.046 (U)		
8/17/2017	<0.046 (U)		<0.046 (U)	<0.046 (U)	<0.046 (U)	<0.046 (U)	<0.046 (U)		
5/8/2018	<0.09 (U)		<0.09 (U)	<0.09 (U)	<0.09 (U)	<0.09 (U)	<0.09 (U)		
10/9/2018	<0.09 (U)		<0.09 (U)	<0.09 (U)	<0.09 (U)	<0.09 (U)	<0.09 (U)		
4/22/2019	<0.1 (U)		<0.1 (U)	<0.1 (U)	<0.1 (U)	<0.1 (U)	<0.1 (U)		
4/23/2019									<0.1 (U)
10/28/2019	<0.1 (U)		<0.1 (U)						<0.1 (U)
10/29/2019				<0.1 (U)	<0.1 (U)	<0.1 (U)	<0.1 (U)		
1/9/2020									
4/27/2020	<0.1 (U)		<0.1 (U)	<0.1 (U)	<0.1 (U)	<0.1 (U)	<0.1 (U)		
5/27/2020									<0.1 (U)
9/15/2020		<0.1 (U)						<0.1 (U)	
4/26/2021									<0.15 (U)
4/27/2021	<0.15 (U)		<0.15 (U)	<0.15 (U)	<0.15 (U)	<0.15 (U)	<0.15 (U)	<0.15 (U)	
4/28/2021		<0.15 (U)							
10/20/2021						<0.15 (U)	<0.15 (U)	<0.15 (U)	
10/21/2021	<0.15 (U)		<0.15 (U)	<0.15 (U)	<0.15 (U)				<0.15 (U)
10/22/2021		<0.15 (U)							
4/25/2022	<0.11 (U)		<0.11 (U)						<0.11 (U)
4/26/2022				<0.11 (U)	<0.11 (U)	<0.11 (U)	<0.11 (U)	<0.11 (U)	
4/27/2022									
4/29/2022		<0.11 (U)							
10/12/2022	<0.11 (U)		<0.11 (U)	<0.11 (U)	<0.11 (U)	<0.11 (U)	<0.11 (U)	<0.11 (U)	<0.11 (U)
10/13/2022		<0.11 (U)							
4/19/2023				<0.14 (U)	<0.14 (U)	<0.14 (U)	<0.14 (U)		
4/20/2023	<0.14 (U)	<0.14 (U)	<0.14 (U)						<0.14 (U)
11/6/2023	<0.14 (U)								
11/7/2023		<0.14 (U)	<0.14 (U)	<0.14 (U)	<0.14 (U)	<0.14 (U)	<0.14 (U)		<0.14 (U)
4/15/2024				<0.11	<0.11		<0.11		
4/16/2024						<0.11			
4/17/2024		<0.11	<0.11						
4/18/2024	<0.11								<0.11
10/1/2024	<0.11		<0.11						<0.11
10/2/2024				<0.11	<0.11	<0.11	<0.11		
10/3/2024		<0.11							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-308	MW-309	MW-309A	MW-310	MW-310A	MW-312
12/20/2016						
12/21/2016						
1/23/2017						
1/24/2017						
2/23/2017						
3/28/2017						
4/26/2017						
4/27/2017						
5/25/2017						
6/28/2017						
8/17/2017						
5/8/2018						
10/9/2018						
4/22/2019						
4/23/2019	<0.1 (U)					
10/28/2019	<0.1 (U)					
10/29/2019		<0.1 (U)		<0.1 (U)		
1/9/2020		<0.1 (U)		<0.1 (U)		
4/27/2020		<0.1 (U)		<0.1 (U)		
5/27/2020	<0.1 (U)					
9/15/2020			<0.1 (U)		<0.1 (U)	
4/26/2021	<0.15 (U)					
4/27/2021		<0.15 (U)	<0.15 (U)	<0.15 (U)	<0.15 (U)	
4/28/2021						
10/20/2021						
10/21/2021	<0.15 (U)	<0.15 (U)				
10/22/2021			<0.15 (U)	<0.15 (U)	<0.15 (U)	
4/25/2022	<0.11 (U)					
4/26/2022			<0.11 (U)			
4/27/2022		<0.11 (U)		<0.11 (U)	<0.11 (U)	
4/29/2022						
10/12/2022	<0.11 (U)	<0.11 (U)	<0.11 (U)	<0.11 (U)	<0.11 (U)	<0.11 (U)
10/13/2022						
4/19/2023						<0.14 (U)
4/20/2023	<0.14 (U)					
11/6/2023						
11/7/2023	<0.14 (U)					<0.14 (U)
4/15/2024						<0.11
4/16/2024						
4/17/2024						
4/18/2024	<0.11					
10/1/2024	<0.11					
10/2/2024						<0.11
10/3/2024						

ND substitution: RL or RL/2 if <15% NDs.

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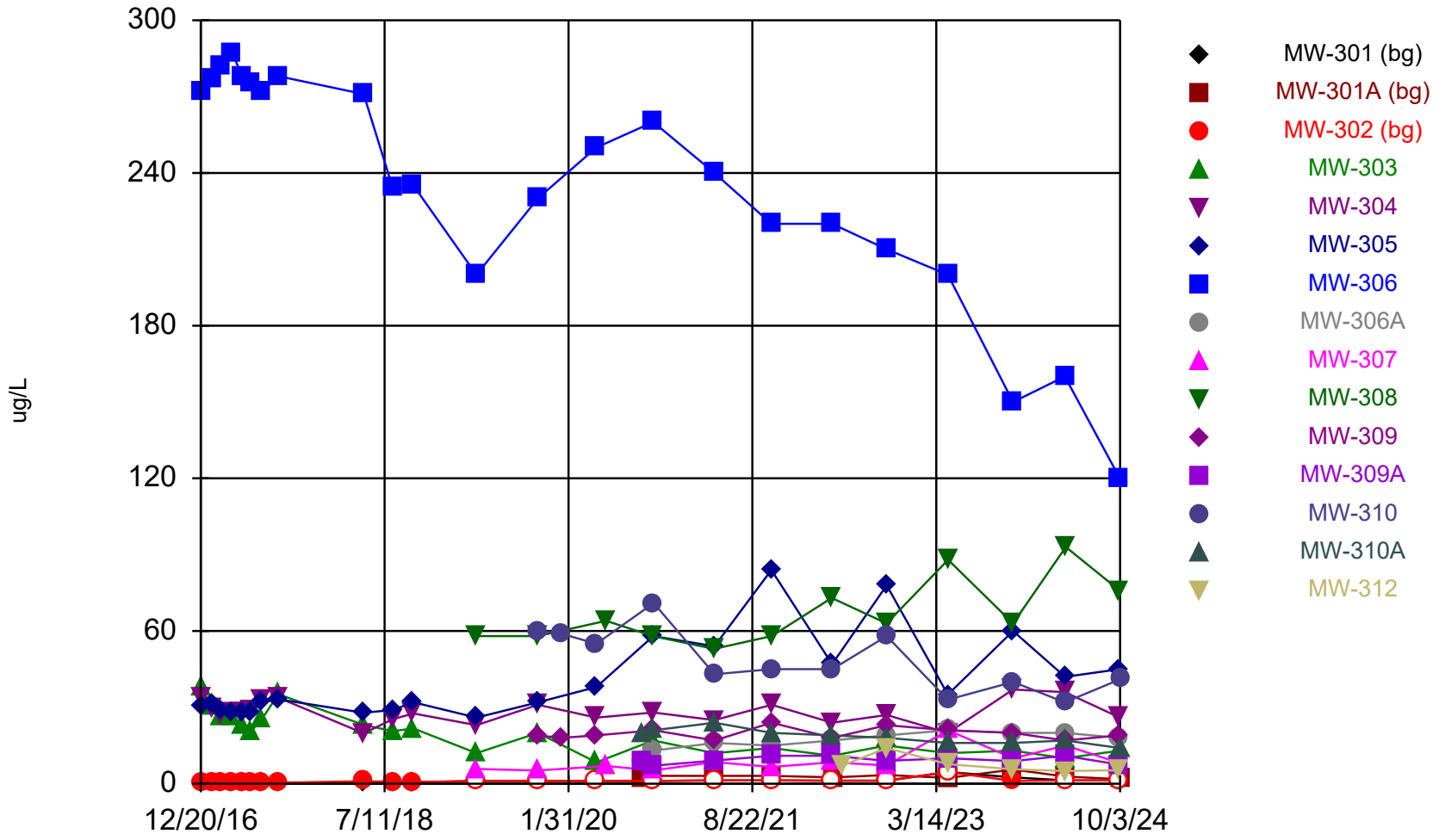
Hollow symbols indicate censored values.

Molybdenum



Time Series Analysis Run 2/3/2025 1:55 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Time Series

Constituent: Molybdenum (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-301A (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-306A	MW-307
12/20/2016	0.61 (J)		0.76 (J)	37.8					
12/21/2016					33.5	30.7	272		
1/23/2017	0.34 (J)		0.43 (J)	30.5					
1/24/2017					29.3	31	277		
2/23/2017	0.38 (J)		0.45 (J)	26.7	27.5	29	282		
3/28/2017	0.45 (J)		0.38 (J)	26.7	28.4	28.3	287		
4/26/2017	0.23 (J)		0.52 (J)	23.2	28.3				
4/27/2017						28.3	278		
5/25/2017	0.26 (J)		0.28 (J)	20.6	28.5	28.2	275		
6/28/2017	0.33 (J)		0.38 (J)	25.6	32.6	32.2	272		
8/17/2017	0.44 (J)		0.38 (J)	35.2	33.8	33.2	278		
5/8/2018	0.35 (J)		0.99 (J)	23.1	19.8	27.9	271		
8/6/2018	0.44 (J)		0.78 (J)	20.7	25.4	29	234		
10/9/2018	<0.57 (U)		0.67 (J)	21.7	27.6	32	235		
4/22/2019	<1.1 (U)		<1.1 (U)	12	23	26	200		
4/23/2019									5.8
10/28/2019	<1.1 (U)		<1.1 (U)						5.2
10/29/2019				20	31	32	230		
1/9/2020									
4/27/2020	<1.1 (U)		<1.1 (U)	8.4	26	38	250		
5/27/2020									7
9/15/2020		2.1						8.6	
10/19/2020	<1.1 (U)		<1.1 (U)						5.2
10/20/2020				17	28	58	260	13	
10/21/2020		3.1							
4/26/2021									8.5
4/27/2021	<1.3 (U)		<1.3 (U)	12	25	54	240	16	
4/28/2021		3.1							
10/20/2021						84	220	15	
10/21/2021	<1.3 (U)		<1.3 (U)	14	31				6.6
10/22/2021		3.1							
4/25/2022	<1.2 (U)		<1.2 (U)						8.4
4/26/2022				11	24	47	220	17	
4/27/2022									
4/29/2022		2.5							
5/25/2022									
10/12/2022	<1.2 (U)		<1.2 (U)	15	27	78	210	19	7.2
10/13/2022		3.4							
4/19/2023				12	20	35	200	21	
4/20/2023	<4.6 (U)	<4.6 (U)	<4.6 (U)						21
11/6/2023	2.5								
11/7/2023		5.6	1.1 (J)	13	37	60	150	20	10
4/15/2024				10	36		160	20	
4/16/2024						42			
4/17/2024		2.8	<1.3						
4/18/2024	<1.3								15
10/1/2024	<1.3		<1.3						8.2
10/2/2024				13	26	45	120	18	
10/3/2024		1.8 (J)							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-308	MW-309	MW-309A	MW-310	MW-310A	MW-312
12/20/2016						
12/21/2016						
1/23/2017						
1/24/2017						
2/23/2017						
3/28/2017						
4/26/2017						
4/27/2017						
5/25/2017						
6/28/2017						
8/17/2017						
5/8/2018						
8/6/2018						
10/9/2018						
4/22/2019						
4/23/2019	58					
10/28/2019	58					
10/29/2019		19		60		
1/9/2020		18		59		
4/27/2020		19		55		
5/27/2020	64					
9/15/2020			8.5		20	
10/19/2020	58					
10/20/2020						
10/21/2020		21	7.1	71	21	
4/26/2021	53					
4/27/2021		17	9.1	43	24	
4/28/2021						
10/20/2021						
10/21/2021	58	24				
10/22/2021			11	45	20	
4/25/2022	73					
4/26/2022			11			
4/27/2022		18		45	19	
4/29/2022						
5/25/2022						7
10/12/2022	63	23	9	58	18	14
10/13/2022						
4/19/2023		21	10	33	16	7.7 (J)
4/20/2023	88					
11/6/2023						
11/7/2023	63	20	8.9	40	16	5.7
4/15/2024		17	11	32		5
4/16/2024					17	
4/17/2024						
4/18/2024	93					
10/1/2024	76					
10/2/2024		19	7.5			5.3
10/3/2024				41	14	

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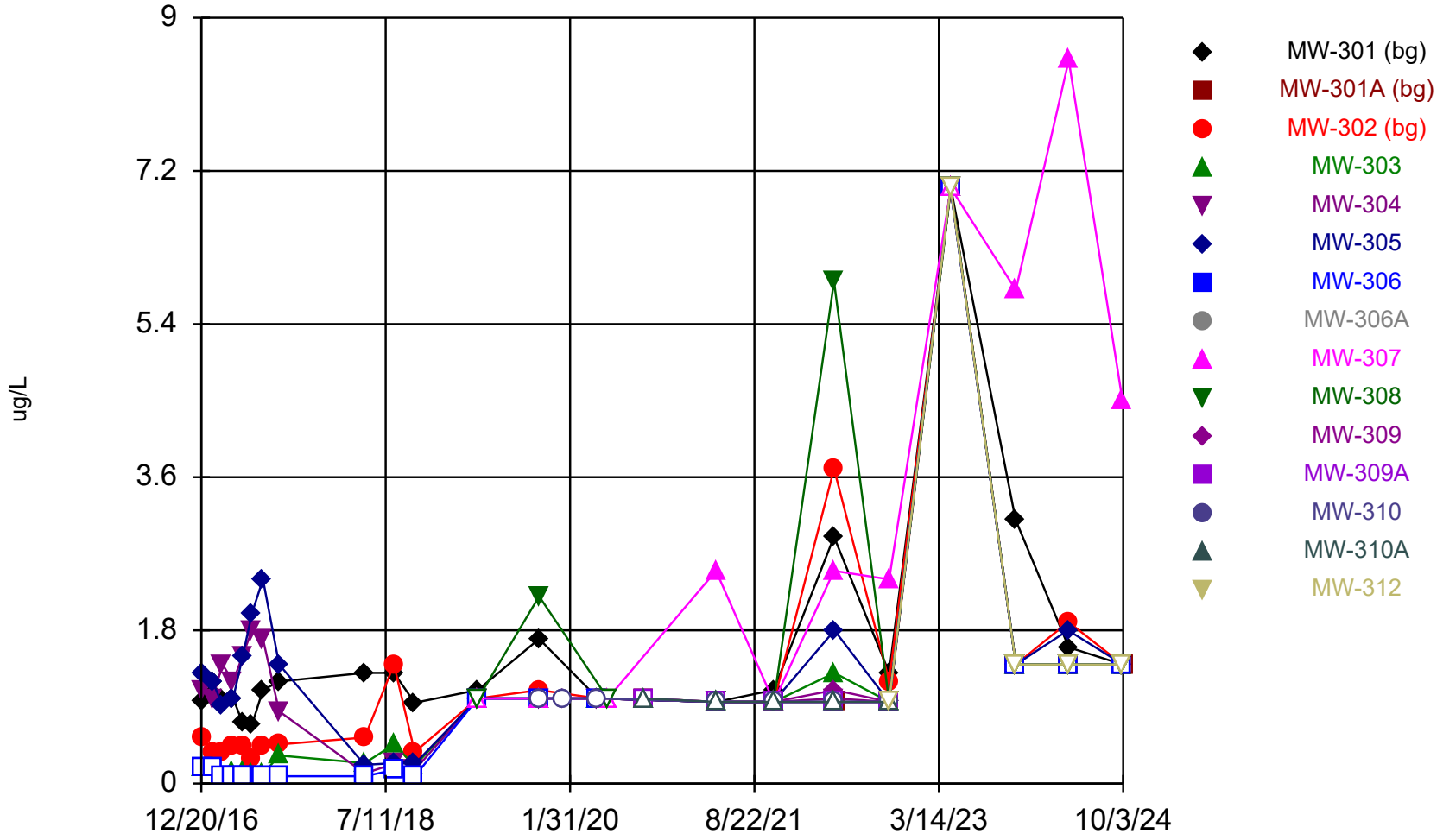
Hollow symbols indicate censored values.

Selenium



Time Series Analysis Run 2/3/2025 1:55 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Time Series

Constituent: Selenium (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-301A (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-306A	MW-307
12/20/2016	0.97 (J)		0.55 (J)	<0.18 (U)					
12/21/2016					1.1	1.3	<0.18 (U)		
1/23/2017	1.2		0.36 (J)	<0.18 (U)					
1/24/2017					1 (J)	1.2	<0.18 (U)		
2/23/2017	0.98 (J)		0.37 (J)	<0.086 (U)	1.4	0.92 (J)	<0.086 (U)		
3/28/2017	1		0.43 (J)	0.14 (J)	1.2	1	<0.086 (U)		
4/26/2017	0.72 (J)		0.44 (J)	0.15 (J)	1.5				
4/27/2017						1.5	<0.086 (U)		
5/25/2017	0.69 (J)		0.28 (J)	0.11 (J)	1.8	2	0.091 (J)		
6/28/2017	1.1		0.44 (J)	0.11 (J)	1.7	2.4	<0.086 (U)		
8/17/2017	1.2		0.46 (J)	0.33 (J)	0.85 (J)	1.4	<0.086 (U)		
5/8/2018	1.3		0.54 (J)	0.24 (J)	0.12 (J)	0.22 (J)	<0.086 (U)		
8/6/2018	1.3		1.4	0.46 (J)	0.23 (J)	0.24 (J)	<0.16 (U)		
10/9/2018	0.95 (J)		0.37 (J)	0.21 (J)	0.16 (J)	0.23 (J)	<0.085 (U)		
4/22/2019	1.1 (J)		<1 (U)	<1 (U)	<1 (U)	<1 (U)	<1 (U)		
4/23/2019									<1 (U)
10/28/2019	1.7 (J)		1.1 (J)						<1 (U)
10/29/2019				<1 (U)	<1 (U)	<1 (U)	<1 (U)		
1/9/2020									
4/27/2020	<1 (U)		<1 (U)	<1 (U)	<1 (U)	<1 (U)	<1 (U)		
5/27/2020									<1 (U)
9/15/2020		<1 (U)						<1 (U)	
4/26/2021									2.5 (J)
4/27/2021	<0.96 (U)		0.96 (J)	<0.96 (U)	<0.96 (U)	<0.96 (U)	<0.96 (U)	<0.96 (U)	
4/28/2021		<0.96 (U)							
10/20/2021						<0.96 (U)	<0.96 (U)	<0.96 (U)	
10/21/2021	1.1 (J)		<0.96 (U)	<0.96 (U)	<0.96 (U)				<0.96 (U)
10/22/2021		<0.96 (U)							
4/25/2022	2.9 (J)		3.7 (J)						2.5 (J)
4/26/2022				1.3 (J)	1 (J)	1.8 (J)	<0.96 (U)	<0.96 (U)	
4/27/2022									
4/29/2022		<0.96 (U)							
10/12/2022	1.3 (J)		1.2 (J)	<0.96 (U)	<0.96 (U)	<0.96 (U)	<0.96 (U)	<0.96 (U)	2.4 (J)
10/13/2022		<0.96 (U)							
4/19/2023				<7 (U)	<7 (U)	<7 (U)	<7 (U)		
4/20/2023	<7 (U)	<7 (U)	<7 (U)						<7 (U)
11/6/2023	3.1 (J)								
11/7/2023		<1.4 (U)	<1.4 (U)	<1.4 (U)	<1.4 (U)	<1.4 (U)	<1.4 (U)		5.8
4/15/2024				<1.4	<1.4		<1.4		
4/16/2024						1.8 (J)			
4/17/2024		<1.4	1.9 (J)						
4/18/2024	1.6 (J)								8.5
10/1/2024	<1.4		<1.4						4.5 (J)
10/2/2024				<1.4	<1.4	<1.4	<1.4		
10/3/2024		<1.4							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-308	MW-309	MW-309A	MW-310	MW-310A	MW-312
12/20/2016						
12/21/2016						
1/23/2017						
1/24/2017						
2/23/2017						
3/28/2017						
4/26/2017						
4/27/2017						
5/25/2017						
6/28/2017						
8/17/2017						
5/8/2018						
8/6/2018						
10/9/2018						
4/22/2019						
4/23/2019	<1 (U)					
10/28/2019	2.2 (J)					
10/29/2019		<1 (U)		<1 (U)		
1/9/2020		<1 (U)		<1 (U)		
4/27/2020		<1 (U)		<1 (U)		
5/27/2020	<1 (U)					
9/15/2020			<1 (U)		<1 (U)	
4/26/2021	<0.96 (U)					
4/27/2021		<0.96 (U)	<0.96 (U)	<0.96 (U)	<0.96 (U)	
4/28/2021						
10/20/2021						
10/21/2021	<0.96 (U)	<0.96 (U)				
10/22/2021			<0.96 (U)	<0.96 (U)	<0.96 (U)	
4/25/2022	5.9					
4/26/2022			<0.96 (U)			
4/27/2022		1.1 (J)		<0.96 (U)	<0.96 (U)	
4/29/2022						
10/12/2022	<0.96 (U)	<0.96 (U)	<0.96 (U)	<0.96 (U)	<0.96 (U)	<0.96 (U)
10/13/2022						
4/19/2023						<7 (U)
4/20/2023	<7 (U)					
11/6/2023						
11/7/2023	<1.4 (U)					<1.4 (U)
4/15/2024						<1.4
4/16/2024						
4/17/2024						
4/18/2024	<1.4					
10/1/2024	<1.4					
10/2/2024						<1.4
10/3/2024						

ND substitution: RL or RL/2 if <15% NDs.

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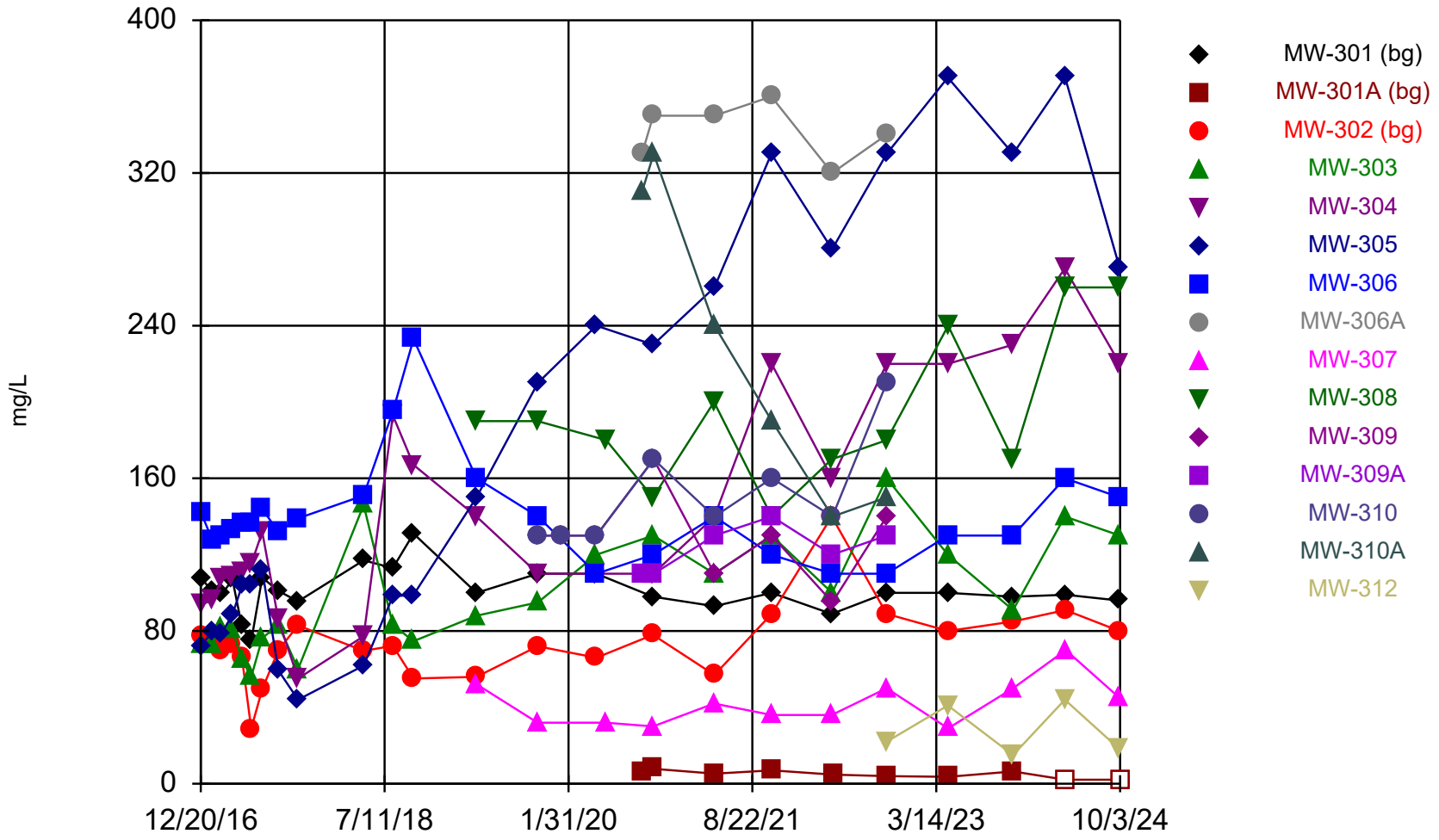
Hollow symbols indicate censored values.

Sulfate



Time Series Analysis Run 2/3/2025 1:55 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Time Series

Constituent: Sulfate (mg/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-301A (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-306A	MW-307
12/20/2016	108		77.7	72.6					
12/21/2016					93.8	72.1	142		
1/23/2017	101		75.6	72.7					
1/24/2017					96.1	79.8	128		
2/23/2017	99.2		69.7	82.4	107	79	130		
3/28/2017	107		72.9	80.4	109	88.7	133		
4/26/2017	82.5		66.4	65.1	111				
4/27/2017						104	137		
5/25/2017	74.7		28.9	56	115	104	136		
6/28/2017	108		49.5	76.2	132	112	144		
8/17/2017	101		70	83.5	85.9	59.4	132		
10/17/2017	95.5		82.9	60	55.1	44	139		
5/8/2018	117		69.6	146	77.3	61.9	151		
8/6/2018	113		72.2	83.3	193	98.2	195		
10/9/2018	131		55.1	74.7	167	98.9	233		
4/22/2019	100		56	88	140	150	160		
4/23/2019									52
10/28/2019	110		72						32
10/29/2019				95	110	210	140		
1/9/2020									
4/27/2020	110		66	120	110	240	110		
5/27/2020									32
9/15/2020		6.4						330	
10/19/2020	98		78						30
10/20/2020				130	110	230	120	350	
10/21/2020		7.8							
4/26/2021									42
4/27/2021	93		57	110	140	260	140	350	
4/28/2021		5.3							
10/20/2021						330	120	360	
10/21/2021	100		89	130	220				36
10/22/2021		7							
4/25/2022	89		140						36
4/26/2022				100	160	280	110	320	
4/27/2022									
4/29/2022		4.8 (J)							
10/12/2022	100		89	160	220	330	110	340	50
10/13/2022		4 (J)							
4/19/2023				120	220	370	130		
4/20/2023	100	3.6 (J)	80						29
11/6/2023	98								
11/7/2023		6.4	85	91	230	330	130		50
4/15/2024				140	270		160		
4/16/2024						370			
4/17/2024		<2.1	91						
4/18/2024	99								70
10/1/2024	96		80						45
10/2/2024				130	220	270	150		
10/3/2024		<2.1							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-308	MW-309	MW-309A	MW-310	MW-310A	MW-312
12/20/2016						
12/21/2016						
1/23/2017						
1/24/2017						
2/23/2017						
3/28/2017						
4/26/2017						
4/27/2017						
5/25/2017						
6/28/2017						
8/17/2017						
10/17/2017						
5/8/2018						
8/6/2018						
10/9/2018						
4/22/2019						
4/23/2019	190					
10/28/2019	190					
10/29/2019		130		130		
1/9/2020		130		130		
4/27/2020		130		130		
5/27/2020	180					
9/15/2020			110		310	
10/19/2020	150					
10/20/2020						
10/21/2020		170	110	170	330	
4/26/2021	200					
4/27/2021		110	130	140	240	
4/28/2021						
10/20/2021						
10/21/2021	140	130				
10/22/2021			140	160	190	
4/25/2022	170					
4/26/2022			120			
4/27/2022		95		140	140	
4/29/2022						
10/12/2022	180	140	130	210	150	22
10/13/2022						
4/19/2023						41
4/20/2023	240					
11/6/2023						
11/7/2023	170					15
4/15/2024						44
4/16/2024						
4/17/2024						
4/18/2024	260					
10/1/2024	260					
10/2/2024						18
10/3/2024						

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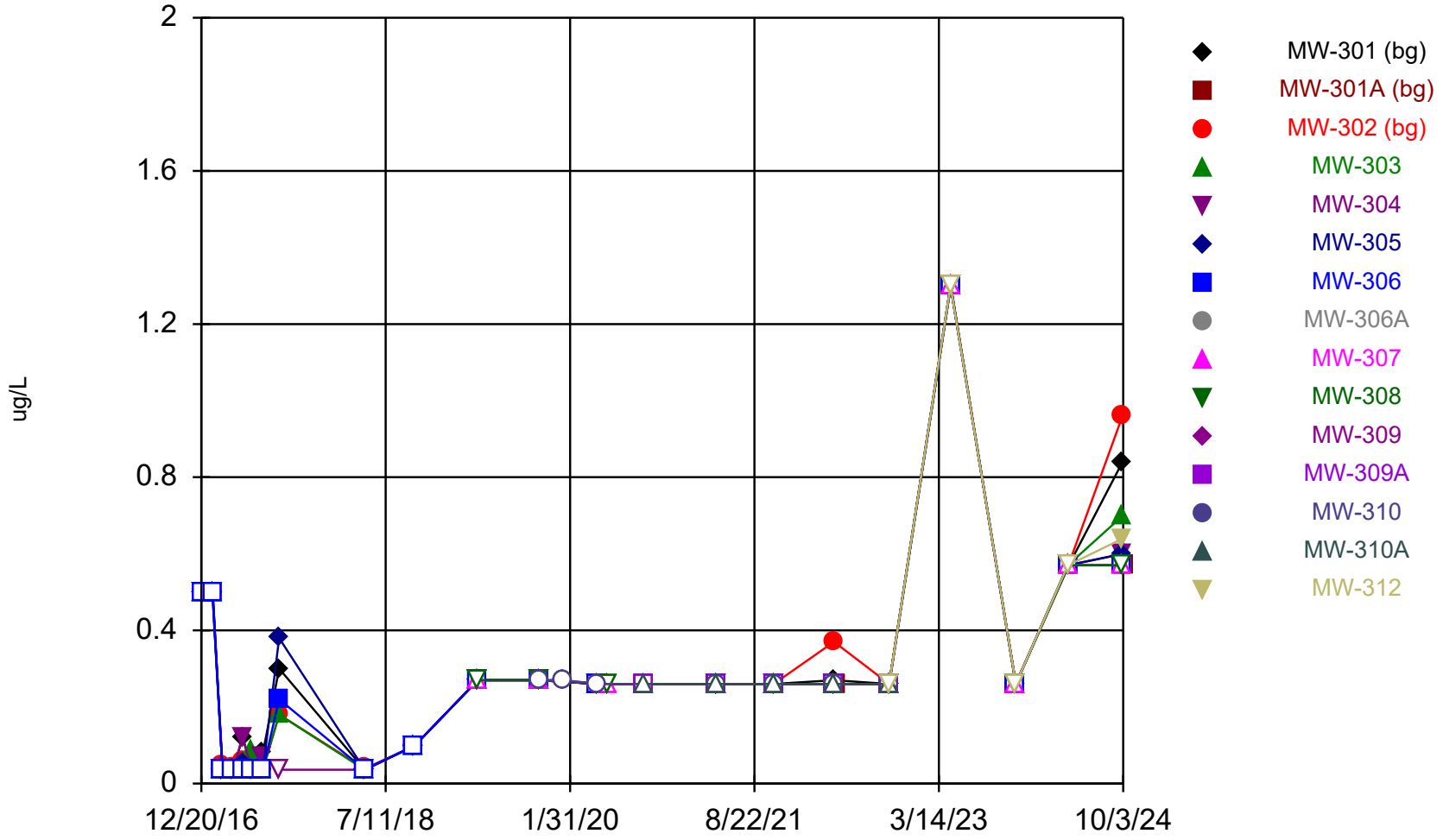
Hollow symbols indicate censored values.

Thallium



Time Series Analysis Run 2/3/2025 1:55 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Time Series

Constituent: Thallium (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-301A (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-306A	MW-307
12/20/2016	<0.5 (U)		<0.5 (U)	<0.5 (U)					
12/21/2016					<0.5 (U)	<0.5 (U)	<0.5 (U)		
1/23/2017	<0.5 (U)		<0.5 (U)	<0.5 (U)					
1/24/2017					<0.5 (U)	<0.5 (U)	<0.5 (U)		
2/23/2017	<0.036 (U)		0.05 (J)	<0.036 (U)	<0.036 (U)	<0.036 (U)	<0.036 (U)		
3/28/2017	<0.036 (U)		0.044 (J)	<0.036 (U)	<0.036 (U)	<0.036 (U)	<0.036 (U)		
4/26/2017	0.12 (J)		0.058 (J)	<0.036 (U)	0.12 (J)				
4/27/2017						0.051 (J)	<0.036 (U)		
5/25/2017	0.043 (J)		<0.036 (U)	0.089 (J)	0.037 (J)	<0.036 (U)	<0.036 (U)		
6/28/2017	0.081 (J)		<0.036 (U)	<0.036 (U)	0.068 (J)	<0.036 (U)	<0.036 (U)		
8/17/2017	0.3 (J)		0.18 (J)	0.18 (J)	<0.036 (U)	0.38 (J)	0.22 (J)		
5/8/2018	<0.036 (U)		0.039 (J)	<0.036 (U)	<0.036 (U)	<0.036 (U)	<0.036 (U)		
10/9/2018	<0.099 (U)		<0.099 (U)	<0.099 (U)	<0.099 (U)	<0.099 (U)	<0.099 (U)		
4/22/2019	<0.27 (U)		<0.27 (U)	<0.27 (U)	<0.27 (U)	<0.27 (U)	<0.27 (U)		
4/23/2019									<0.27 (U)
10/28/2019	<0.27 (U)		<0.27 (U)						<0.27 (U)
10/29/2019				<0.27 (U)	<0.27 (U)	<0.27 (U)	<0.27 (U)		
1/9/2020									
4/27/2020	<0.26 (U)		<0.26 (U)	<0.26 (U)	<0.26 (U)	<0.26 (U)	<0.26 (U)		
5/27/2020									<0.26 (U)
9/15/2020		<0.26 (U)						<0.26 (U)	
4/26/2021									<0.26 (U)
4/27/2021	<0.26 (U)		<0.26 (U)	<0.26 (U)	<0.26 (U)	<0.26 (U)	<0.26 (U)	<0.26 (U)	
4/28/2021		<0.26 (U)							
10/20/2021						<0.26 (U)	<0.26 (U)	<0.26 (U)	
10/21/2021	<0.26 (U)		<0.26 (U)	<0.26 (U)	<0.26 (U)				<0.26 (U)
10/22/2021		<0.26 (U)							
4/25/2022	0.27 (J)		0.37 (J)						<0.26 (U)
4/26/2022				<0.26 (U)	<0.26 (U)	<0.26 (U)	<0.26 (U)	<0.26 (U)	
4/27/2022									
4/29/2022		<0.26 (U)							
10/12/2022	<0.26 (U)		<0.26 (U)	<0.26 (U)	<0.26 (U)	<0.26 (U)	<0.26 (U)	<0.26 (U)	<0.26 (U)
10/13/2022		<0.26 (U)							
4/19/2023				<1.3 (U)	<1.3 (U)	<1.3 (U)	<1.3 (U)		
4/20/2023	<1.3 (U)	<1.3 (U)	<1.3 (U)						<1.3 (U)
11/6/2023	<0.26 (U)								
11/7/2023		<0.26 (U)	0.26 (J)	<0.26 (U)	<0.26 (U)	<0.26 (U)	<0.26 (U)		<0.26 (U)
4/15/2024				<0.57	<0.57		<0.57		
4/16/2024						<0.57			
4/17/2024		<0.57	<0.57						
4/18/2024	0.57 (J)								<0.57
10/1/2024	0.84 (J)		0.96 (J)						<0.57
10/2/2024				0.7 (J)	0.6 (J)	0.6 (J)	<0.57		
10/3/2024		<0.57							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (ug/L) Analysis Run 2/3/2025 1:57 PM View: PCS

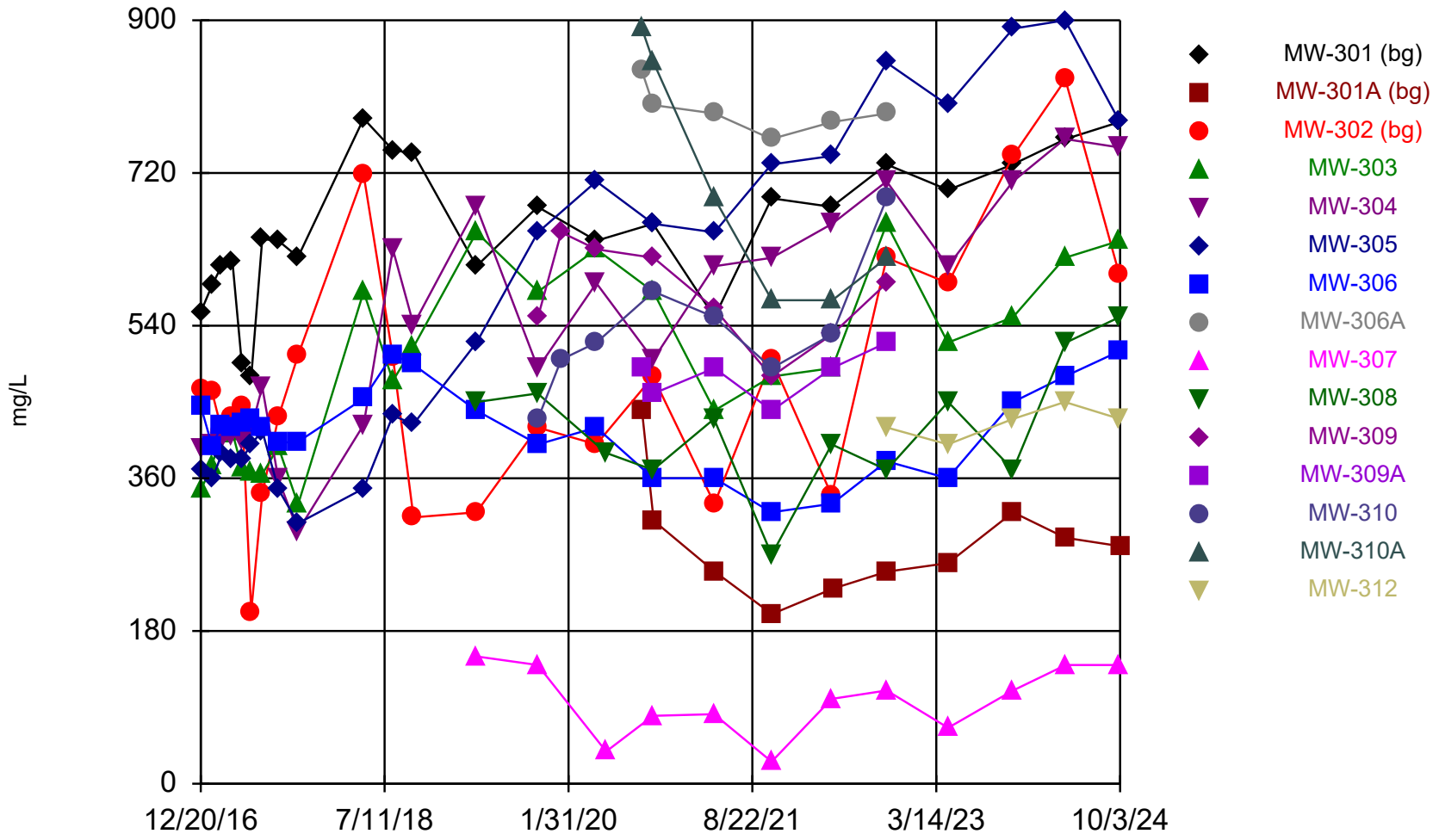
Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-308	MW-309	MW-309A	MW-310	MW-310A	MW-312
12/20/2016						
12/21/2016						
1/23/2017						
1/24/2017						
2/23/2017						
3/28/2017						
4/26/2017						
4/27/2017						
5/25/2017						
6/28/2017						
8/17/2017						
5/8/2018						
10/9/2018						
4/22/2019						
4/23/2019	<0.27 (U)					
10/28/2019	<0.27 (U)					
10/29/2019		<0.27 (U)		<0.27 (U)		
1/9/2020		<0.27 (U)		<0.27 (U)		
4/27/2020		<0.26 (U)		<0.26 (U)		
5/27/2020	<0.26 (U)					
9/15/2020			<0.26 (U)		<0.26 (U)	
4/26/2021	<0.26 (U)					
4/27/2021		<0.26 (U)	<0.26 (U)	<0.26 (U)	<0.26 (U)	
4/28/2021						
10/20/2021						
10/21/2021	<0.26 (U)	<0.26 (U)				
10/22/2021			<0.26 (U)	<0.26 (U)	<0.26 (U)	
4/25/2022	<0.26 (U)					
4/26/2022			<0.26 (U)			
4/27/2022		<0.26 (U)		<0.26 (U)	<0.26 (U)	
4/29/2022						
10/12/2022	<0.26 (U)	<0.26 (U)	<0.26 (U)	<0.26 (U)	<0.26 (U)	<0.26 (U)
10/13/2022						
4/19/2023						<1.3 (U)
4/20/2023	<1.3 (U)					
11/6/2023						
11/7/2023	<0.26 (U)					<0.26 (U)
4/15/2024						<0.57
4/16/2024						
4/17/2024						
4/18/2024	<0.57					
10/1/2024	<0.57					
10/2/2024						0.64 (J)
10/3/2024						

02/27/2026 - Classification: Internal - ECRM13684604

ND substitution: RL or RL/2 if <15% NDs.

Total Dissolved Solids



Time Series Analysis Run 2/3/2025 1:55 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-301A (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-306A	MW-307
12/20/2016	556		465	346					
12/21/2016					396	370	444		
1/23/2017	587		463	375					
1/24/2017					399	359	398		
2/23/2017	611		416	413	402	389	423		
3/28/2017	615		432	414	411	383	421		
4/26/2017	495		445	372	406				
4/27/2017						383	426		
5/25/2017	479		203	367	418	400	430		
6/28/2017	642		341	365	468	416	421		
8/17/2017	640		432	397	359	347	402		
10/17/2017	621		505	329	298	307	403		
5/8/2018	784		718	580	423	348	454		
8/6/2018	747		503	475	630	434	506		
10/9/2018	743		314	515	541	424	494		
4/22/2019	610		320	650	680	520	440		
4/23/2019									150
10/28/2019	680 (B)		420 (B)						140 (B)
10/29/2019				580	490	650	400		
1/9/2020									
4/27/2020	640		400	630	590	710	420		
5/27/2020									38
9/15/2020		440						840	
10/19/2020	660		480						80
10/20/2020				580	500	660	360	800	
10/21/2020		310							
4/26/2021									82
4/27/2021	550		330	440	610	650	360	790	
4/28/2021		250							
10/20/2021						730	320	760	
10/21/2021	690		500	480	620				26 (J)
10/22/2021		200							
4/25/2022	680		340						100
4/26/2022				490	660	740	330	780	
4/27/2022									
4/29/2022		230							
10/12/2022	730		620	660	710	850	380	790	110
10/13/2022		250							
4/19/2023				520	610	800	360		
4/20/2023	700	260	590						66
11/6/2023	730								
11/7/2023		320	740	550	710	890	450		110
4/15/2024				620	760		480		
4/16/2024						900			
4/17/2024		290	830						
4/18/2024	760								140
10/1/2024	780		600						140
10/2/2024				640	750	780	510		
10/3/2024		280							

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-308	MW-309	MW-309A	MW-310	MW-310A	MW-312
12/20/2016						
12/21/2016						
1/23/2017						
1/24/2017						
2/23/2017						
3/28/2017						
4/26/2017						
4/27/2017						
5/25/2017						
6/28/2017						
8/17/2017						
10/17/2017						
5/8/2018						
8/6/2018						
10/9/2018						
4/22/2019						
4/23/2019	450					
10/28/2019	460 (B)					
10/29/2019		550		430		
1/9/2020		650		500		
4/27/2020		630		520		
5/27/2020	390					
9/15/2020			490		890	
10/19/2020	370					
10/20/2020						
10/21/2020		620	460	580	850	
4/26/2021	430					
4/27/2021		560	490	550	690	
4/28/2021						
10/20/2021						
10/21/2021	270	480				
10/22/2021			440	490	570	
4/25/2022	400					
4/26/2022			490			
4/27/2022		530		530	570	
4/29/2022						
10/12/2022	370	590	520	690	620	420
10/13/2022						
4/19/2023						400
4/20/2023	450					
11/6/2023						
11/7/2023	370					430
4/15/2024						450
4/16/2024						
4/17/2024						
4/18/2024	520					
10/1/2024	550					
10/2/2024						430
10/3/2024						

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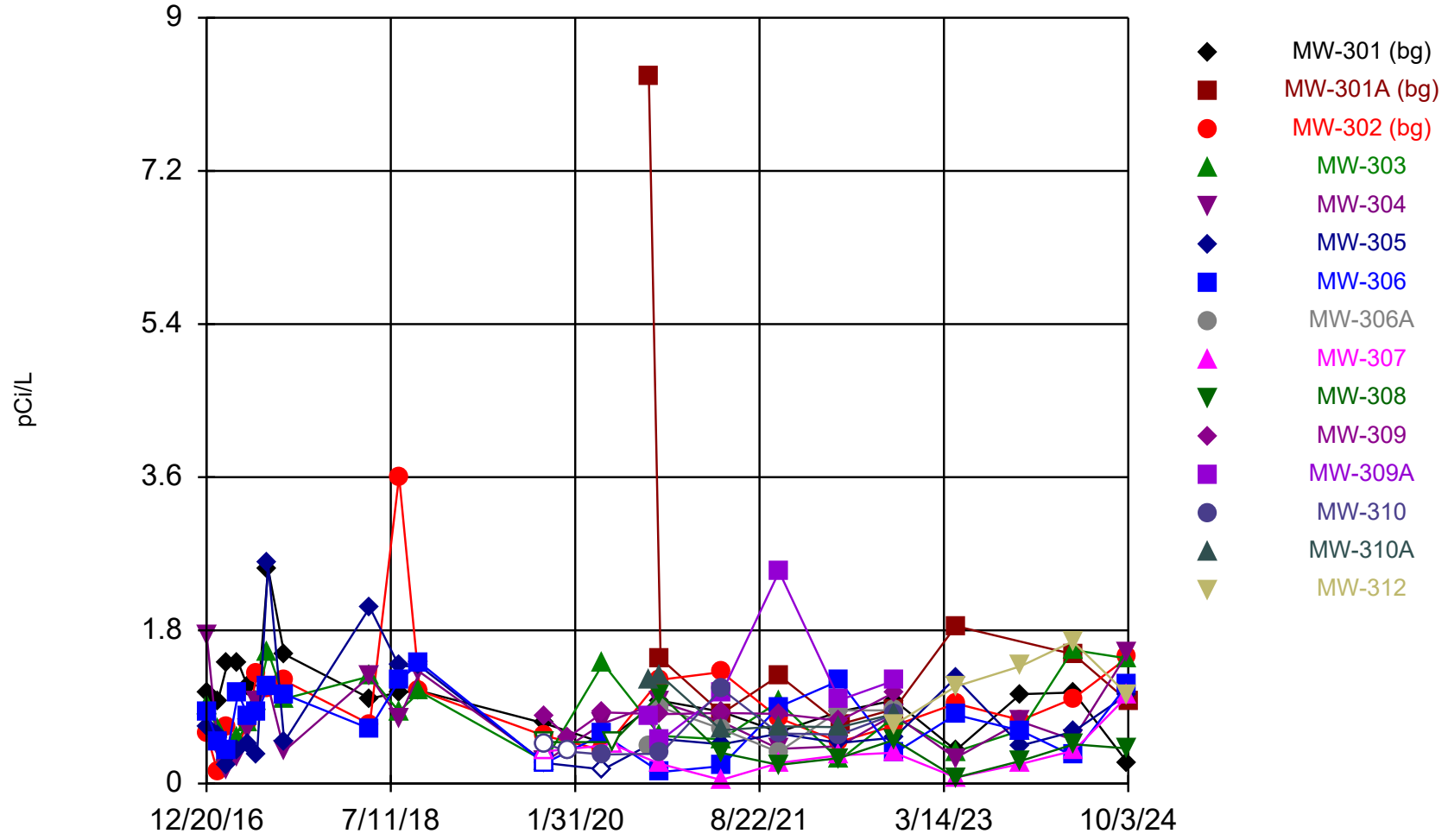
Hollow symbols indicate censored values.

Total Radium



Time Series Analysis Run 2/3/2025 1:55 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Time Series

Constituent: Total Radium (pCi/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-301A (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-306A	MW-307
12/20/2016	1.06		0.597	0.925					
12/21/2016					1.74	0.665	0.843		
1/23/2017	0.957		0.138	0.647					
1/24/2017					0.439	0.567	0.481		
2/23/2017	1.42		0.655	0.375	0.162	0.209	0.391		
3/28/2017	1.42		0.447	0.53	0.311	0.396	1.07		
4/26/2017	1.14		0.713	0.71	0.632				
4/27/2017						0.463	0.785		
5/25/2017	0.877		1.3	0.977	0.964	0.339	0.831		
6/28/2017	2.53		1.12	1.55	1.15	2.59	1.14		
8/17/2017	1.52		1.21	0.995	0.384	0.492	1.05		
5/8/2018	1		0.699	1.26	1.26	2.07	0.645		
8/6/2018	1.07		3.61	0.847	0.768	1.38	1.21		
10/9/2018	1.09		1.09	1.08	1.31	1.38	1.42		
10/28/2019	0.708		0.562						<0.377 (U)
10/29/2019				<0.522 (U)	<0.513 (U)	<0.484 (U)	<0.476 (U)		
1/9/2020									
4/27/2020	0.477		0.392	1.41	0.707	<0.333 (U)	0.578		
5/27/2020									<0.458 (U)
9/15/2020		8.3						0.427	
10/19/2020	0.975		1.22						0.233
10/20/2020				0.56	0.958	0.525	0.135	0.898	
10/21/2020		1.47							
4/26/2021									0.043
4/27/2021	0.844		1.31	0.519	0.726	0.461	0.205	0.642	
4/28/2021		0.823							
10/20/2021						0.586	0.899	0.368	
10/21/2021	0.606		0.77	0.963	0.407				0.242
10/22/2021		1.27							
4/25/2022	0.845		0.489						0.331
4/26/2022				0.276	0.439	0.478	1.21	0.859	
4/27/2022									
4/29/2022		0.698							
10/12/2022	0.977		0.681	0.783	0.811	0.539	0.356	0.861	0.362
10/13/2022		0.876							
4/19/2023				0.375	0.3	1.24	0.809		
4/20/2023	0.391	1.85	0.94						0.0723
11/6/2023	1.05								
11/7/2023			0.746	0.624	0.728	0.446	0.62		0.23
4/15/2024				1.57	0.515		0.328		
4/16/2024						0.609			
4/17/2024		1.52	1						
4/18/2024	1.07								0.386
10/1/2024	0.245		1.48						1.03
10/2/2024				1.47	1.54	1.05	1.17		
10/3/2024		0.966							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Radium (pCi/L) Analysis Run 2/3/2025 1:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-308	MW-309	MW-309A	MW-310	MW-310A	MW-312
12/20/2016						
12/21/2016						
1/23/2017						
1/24/2017						
2/23/2017						
3/28/2017						
4/26/2017						
4/27/2017						
5/25/2017						
6/28/2017						
8/17/2017						
5/8/2018						
8/6/2018						
10/9/2018						
10/28/2019	<0.488 (U)					
10/29/2019		0.801		<0.471 (U)		
1/9/2020		0.543		<0.377 (U)		
4/27/2020		0.837		0.341		
5/27/2020	<0.488 (U)					
9/15/2020			0.783		1.21	
10/19/2020	1.05					
10/20/2020						
10/21/2020		0.815	0.509	0.351	1.27	
4/26/2021	0.361					
4/27/2021		0.829	1.06	1.11	0.627	
4/28/2021						
10/20/2021						
10/21/2021	0.219	0.818				
10/22/2021			2.49	0.588	0.673	
4/25/2022	0.299					
4/26/2022			0.981			
4/27/2022		0.739		0.576	0.663	
4/29/2022						
10/12/2022	0.514	1.07	1.21	0.813	0.818	0.69
10/13/2022						
4/19/2023						1.14
4/20/2023	0.0698					
11/6/2023						
11/7/2023	0.267					1.38
4/15/2024						1.67
4/16/2024						
4/17/2024						
4/18/2024	0.462					
10/1/2024	0.412					
10/2/2024						1.04
10/3/2024						

ND substitution: RL or RL/2 if <15% NDs.

Attachment 2

Outliers Analysis

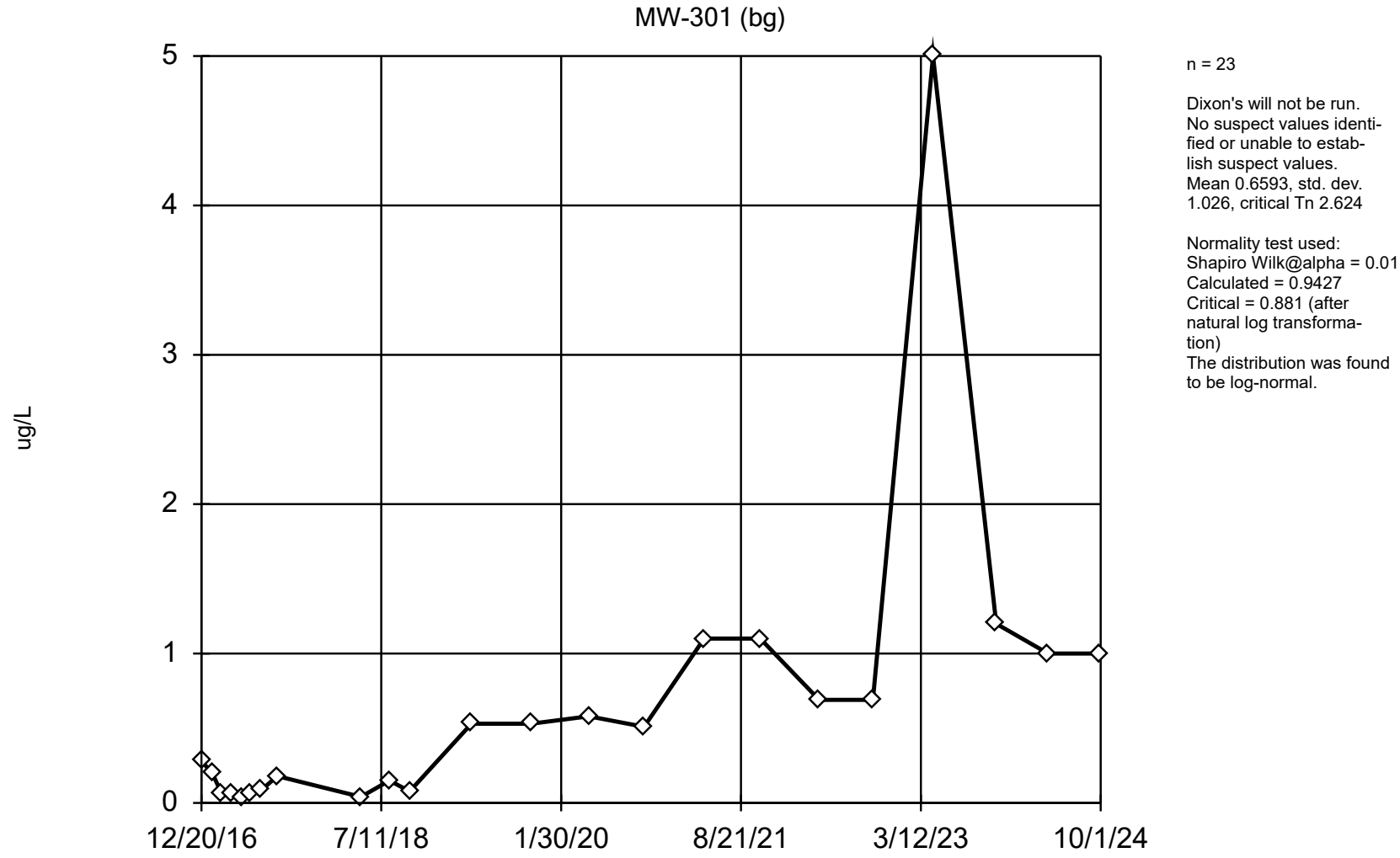
Outlier Analysis

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020 Printed 2/3/2025, 8:28 AM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (ug/L)	MW-301 (bg)	No	n/a	n/a	EPA 1989	0.05	23	0.6593	1.026	ln(x)	ShapiroWilk
Antimony (ug/L)	MW-302 (bg)	No	n/a	n/a	EPA 1989	0.05	23	0.6477	1.024	ln(x)	ShapiroWilk
Arsenic (ug/L)	**MW-301 (bg)**	**Yes**	**1.5,2.7,1.8**	**11/6/2023...**	**Dixon`s**	**0.05**	**23**	**0.8909**	**0.4983**	**normal**	**ShapiroWilk**
Arsenic (ug/L)	MW-302 (bg)	No	n/a	n/a	EPA 1989	0.05	23	2.659	2.064	ln(x)	ShapiroWilk
Barium (ug/L)	**MW-301 (bg)**	**Yes**	**211,205**	**4/26/2017...**	**Dixon`s**	**0.05**	**23**	**261.3**	**21.78**	**normal**	**ShapiroWilk**
Barium (ug/L)	MW-302 (bg)	No	n/a	n/a	EPA 1989	0.05	23	187.3	42.95	normal	ShapiroWilk
Beryllium (ug/L)	MW-301 (bg)	No	n/a	n/a	NP (nrm)	NaN	22	0.245	0.3469	unknown	ShapiroWilk
Beryllium (ug/L)	MW-302 (bg)	No	n/a	n/a	NP (nrm)	NaN	22	0.2394	0.3496	unknown	ShapiroWilk
Boron (ug/L)	**MW-301 (bg)**	**Yes**	**380**	**4/20/2023**	**Dixon`s**	**0.05**	**24**	**66.86**	**71.52**	**normal**	**ShapiroWilk**
Boron (ug/L)	**MW-302 (bg)**	**Yes**	**380**	**4/20/2023**	**Dixon`s**	**0.05**	**24**	**73.58**	**69.5**	**normal**	**ShapiroWilk**
Cadmium (ug/L)	**MW-301 (bg)**	**Yes**	**0.33,0.5,...**	**11/6/2023...**	**Dixon`s**	**0.05**	**23**	**0.1046**	**0.1031**	**ln(x)**	**ShapiroWilk**
Cadmium (ug/L)	MW-302 (bg)	No	n/a	n/a	EPA 1989	0.05	23	0.0977	0.1186	ln(x)	ShapiroWilk
Calcium (mg/L)	MW-301 (bg)	No	n/a	n/a	EPA 1989	0.05	24	151.5	22.68	normal	ShapiroWilk
Calcium (mg/L)	MW-302 (bg)	No	n/a	n/a	EPA 1989	0.05	24	105.2	36.72	normal	ShapiroWilk
Chloride (mg/L)	MW-301 (bg)	No	n/a	n/a	EPA 1989	0.05	24	56.15	32.39	ln(x)	ShapiroWilk
Chloride (mg/L)	MW-302 (bg)	No	n/a	n/a	EPA 1989	0.05	24	48.79	47.32	ln(x)	ShapiroWilk
Chromium (ug/L)	**MW-301 (bg)**	**Yes**	**9.9**	**8/17/2017**	**Dixon`s**	**0.05**	**23**	**4.811**	**1.335**	**normal**	**ShapiroWilk**
Chromium (ug/L)	MW-302 (bg)	No	n/a	n/a	EPA 1989	0.05	23	1.79	0.921	normal	ShapiroWilk
Cobalt (ug/L)	MW-301 (bg)	No	n/a	n/a	EPA 1989	0.05	23	0.3187	0.4319	ln(x)	ShapiroWilk
Cobalt (ug/L)	MW-302 (bg)	No	n/a	n/a	EPA 1989	0.05	23	3.019	6.239	ln(x)	ShapiroWilk
Field pH (Std. Units)	MW-301 (bg)	No	n/a	n/a	EPA 1989	0.05	24	6.89	0.3112	normal	ShapiroWilk
Field pH (Std. Units)	**MW-302 (bg)**	**Yes**	**7.71,5.35**	**10/17/201...**	**Dixon`s**	**0.05**	**24**	**6.578**	**0.4184**	**normal**	**ShapiroWilk**
Fluoride (mg/L)	MW-301 (bg)	No	n/a	n/a	EPA 1989	0.05	24	0.2162	0.09335	normal	ShapiroWilk
Fluoride (mg/L)	MW-302 (bg)	No	n/a	n/a	EPA 1989	0.05	24	0.2187	0.09221	normal	ShapiroWilk
Lead (ug/L)	MW-301 (bg)	No	n/a	n/a	EPA 1989	0.05	23	0.3633	0.4134	ln(x)	ShapiroWilk
Lead (ug/L)	MW-302 (bg)	No	n/a	n/a	EPA 1989	0.05	23	0.285	0.3089	ln(x)	ShapiroWilk
Lithium (ug/L)	MW-301 (bg)	No	n/a	n/a	EPA 1989	0.05	23	12.57	3.227	normal	ShapiroWilk
Lithium (ug/L)	MW-302 (bg)	No	n/a	n/a	EPA 1989	0.05	23	6.548	2.742	normal	ShapiroWilk
Mercury (ug/L)	MW-301 (bg)	n/a	n/a	n/a	NP (nrm)	NaN	21	0.08829	0.03928	unknown	ShapiroWilk
Mercury (ug/L)	MW-302 (bg)	n/a	n/a	n/a	NP (nrm)	NaN	21	0.08829	0.03928	unknown	ShapiroWilk
Molybdenum (ug/L)	MW-301 (bg)	No	n/a	n/a	EPA 1989	0.05	23	1.022	0.9481	ln(x)	ShapiroWilk
Molybdenum (ug/L)	MW-302 (bg)	No	n/a	n/a	NP (nrm)	NaN	23	1.031	0.8574	unknown	ShapiroWilk
Selenium (ug/L)	**MW-301 (bg)**	**Yes**	**7**	**4/20/2023**	**Dixon`s**	**0.05**	**22**	**1.571**	**1.352**	**ln(x)**	**ShapiroWilk**
Selenium (ug/L)	**MW-302 (bg)**	**Yes**	**7**	**4/20/2023**	**Dixon`s**	**0.05**	**22**	**1.239**	**1.492**	**ln(x)**	**ShapiroWilk**
Sulfate (mg/L)	**MW-301 (bg)**	**Yes**	**131**	**10/9/2018**	**Dixon`s**	**0.05**	**24**	**101.3**	**11.27**	**normal**	**ShapiroWilk**
Sulfate (mg/L)	**MW-302 (bg)**	**Yes**	**140,28.9**	**4/25/2022...**	**Dixon`s**	**0.05**	**24**	**73.9**	**19.99**	**normal**	**ShapiroWilk**
Thallium (ug/L)	MW-301 (bg)	No	n/a	n/a	EPA 1989	0.05	21	0.3129	0.3039	ln(x)	ShapiroWilk
Thallium (ug/L)	MW-302 (bg)	No	n/a	n/a	EPA 1989	0.05	21	0.3134	0.32	ln(x)	ShapiroWilk
Total Dissolved Solids (mg/L)	MW-301 (bg)	No	n/a	n/a	EPA 1989	0.05	24	655.4	84.6	normal	ShapiroWilk
Total Dissolved Solids (mg/L)	MW-302 (bg)	No	n/a	n/a	EPA 1989	0.05	24	475.3	148.3	normal	ShapiroWilk
Total Radium (pCi/L)	MW-301 (bg)	No	n/a	n/a	Dixon`s	0.05	22	1.012	0.4642	ln(x)	ShapiroWilk
Total Radium (pCi/L)	**MW-302 (bg)**	**Yes**	**3.61**	**8/6/2018**	**Dixon`s**	**0.05**	**22**	**0.9622**	**0.6852**	**normal**	**ShapiroWilk**

02/27/2026 - Classification: Internal - ECRM13684604

EPA Screening (suspected outliers for Dixon's Test)



Constituent: Antimony Analysis Run 2/3/2025 8:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

EPA 1989 Outlier Screening

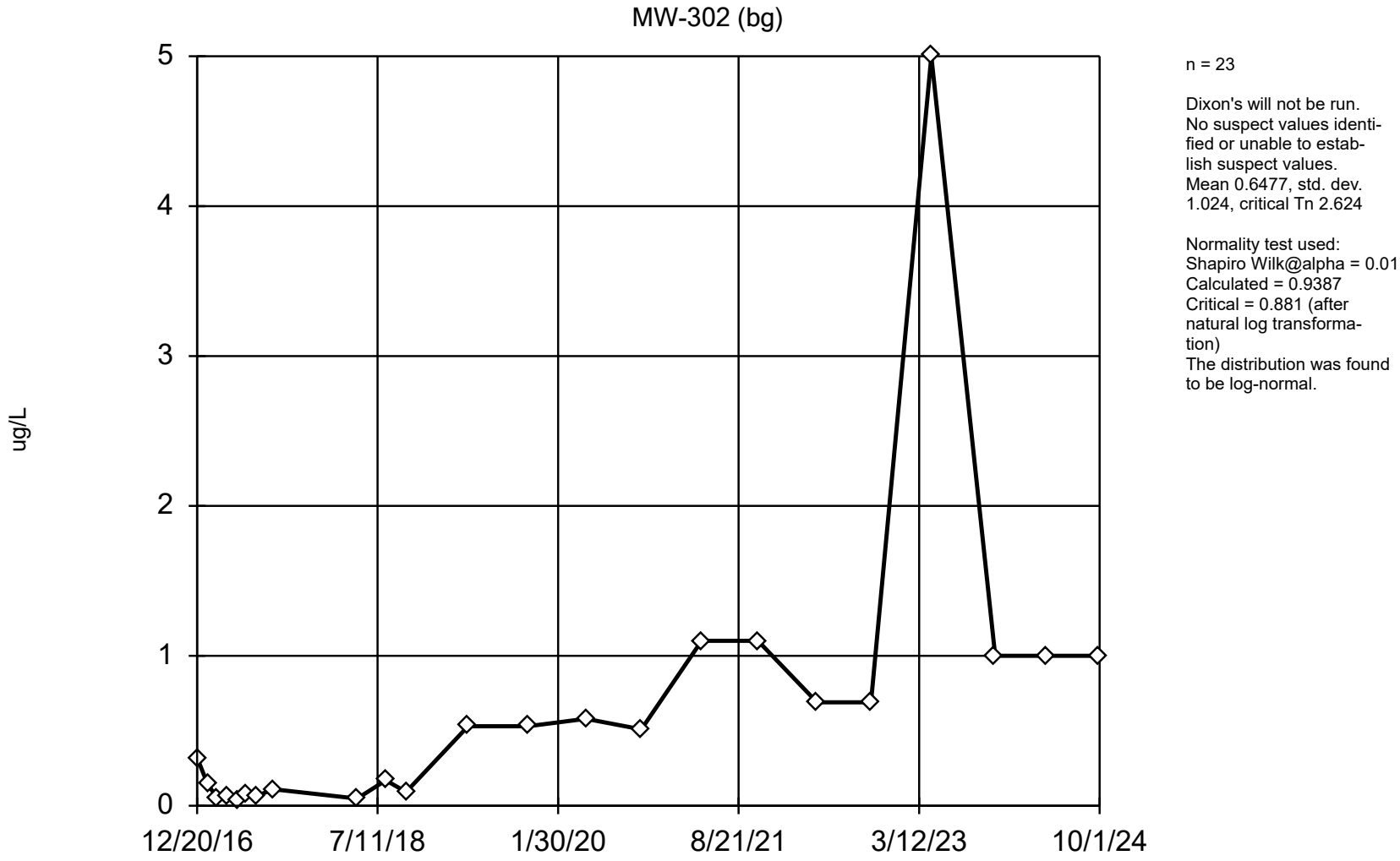
Constituent: Antimony (ug/L) Analysis Run 2/3/2025 8:28 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)
12/20/2016	0.28 (J)
1/23/2017	0.2 (J)
2/23/2017	0.057 (J)
3/28/2017	0.06 (J)
4/26/2017	0.034 (J)
5/25/2017	0.065 (J)
6/28/2017	0.088 (J)
8/17/2017	0.18 (J)
5/8/2018	0.041 (J)
8/6/2018	<0.15 (U)
10/9/2018	<0.078 (U)
4/22/2019	<0.53 (U)
10/28/2019	<0.53 (U)
4/27/2020	<0.58 (U)
10/19/2020	<0.51 (U)
4/27/2021	<1.1 (U)
10/21/2021	<1.1 (U)
4/25/2022	<0.69 (U)
10/12/2022	<0.69 (U)
4/20/2023	<5 (U)
11/6/2023	1.2 (J)
4/18/2024	<1
10/1/2024	<1

ND substitution: RL or RL/2 if <15% NDs.

EPA Screening (suspected outliers for Dixon's Test)



Constituent: Antimony Analysis Run 2/3/2025 8:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

EPA 1989 Outlier Screening

Constituent: Antimony (ug/L) Analysis Run 2/3/2025 8:28 AM View: PCS

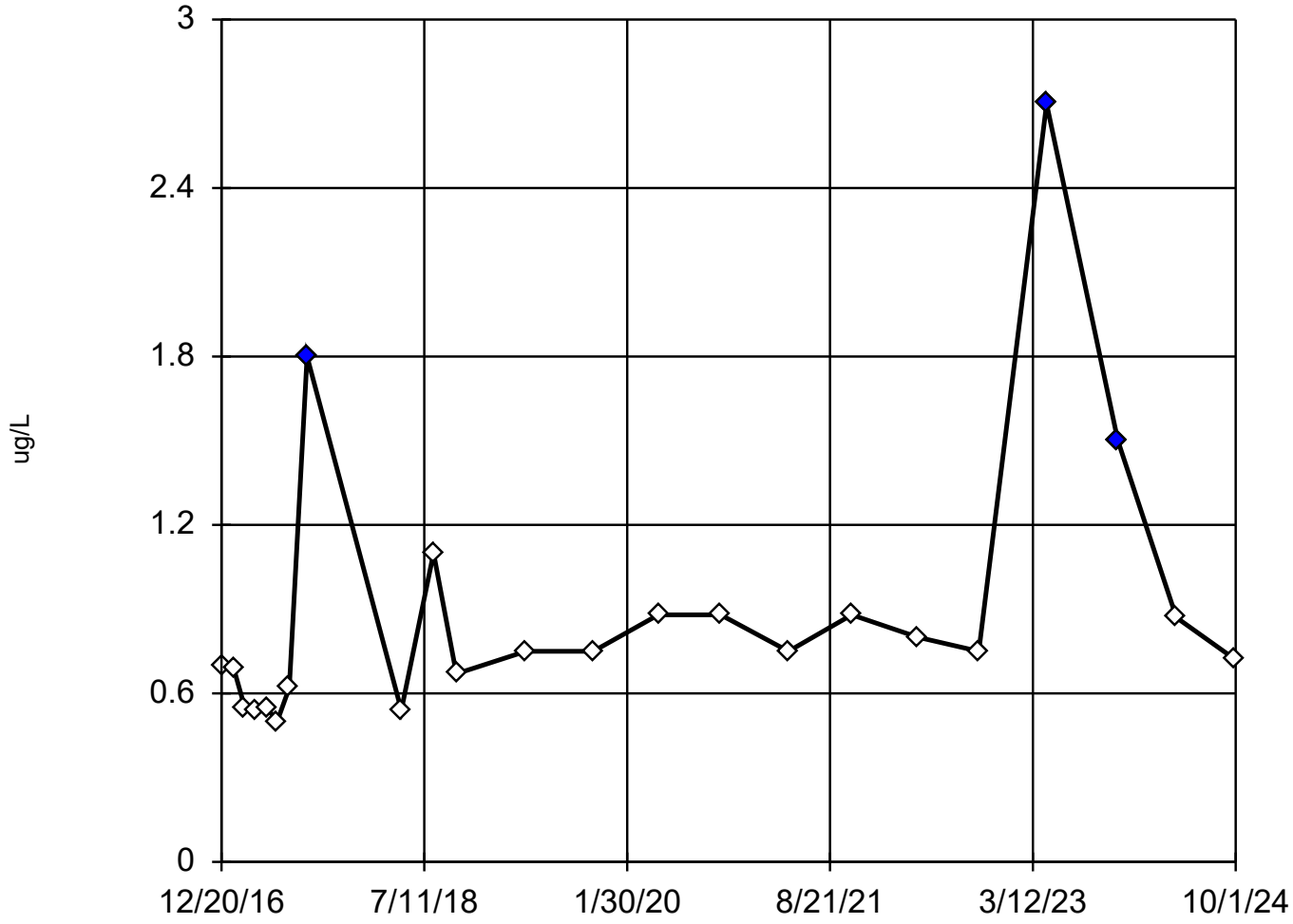
Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-302 (bg)
12/20/2016	0.32 (J)
1/23/2017	0.14 (J)
2/23/2017	0.049 (J)
3/28/2017	0.067 (J)
4/26/2017	0.028 (J)
5/25/2017	0.077 (J)
6/28/2017	0.067 (J)
8/17/2017	0.11 (J)
5/8/2018	0.048 (J)
8/6/2018	0.17 (J)
10/9/2018	0.092 (J)
4/22/2019	<0.53 (U)
10/28/2019	<0.53 (U)
4/27/2020	<0.58 (U)
10/19/2020	<0.51 (U)
4/27/2021	<1.1 (U)
10/21/2021	<1.1 (U)
4/25/2022	<0.69 (U)
10/12/2022	<0.69 (U)
4/20/2023	<5 (U)
11/7/2023	<1 (U)
4/17/2024	<1
10/1/2024	<1

ND substitution: RL or RL/2 if <15% NDs.

Dixon's Outlier Test

MW-301 (bg)



n = 23

Statistical outliers are drawn as solid.
Testing for 3 high outliers.
Mean = 0.8909.
Std. Dev. = 0.4983.
1.5 (J): c = 0.6458
tabl = 0.421.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9411
Critical = 0.868
The distribution, after removal of suspect values, was found to be normally distributed.

Constituent: Arsenic Analysis Run 2/3/2025 8:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Dixon's Outlier Test

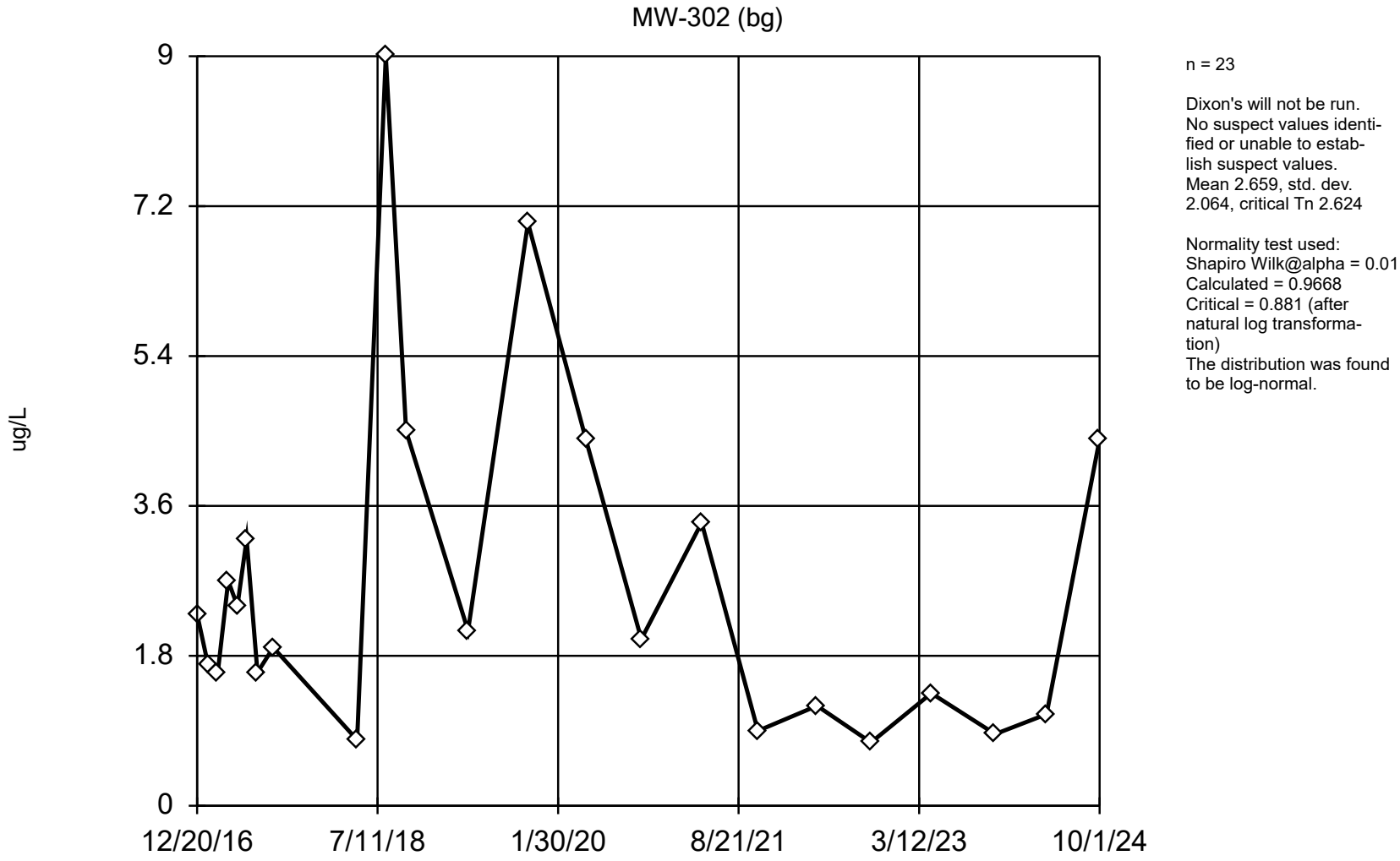
Constituent: Arsenic (ug/L) Analysis Run 2/3/2025 8:28 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)
12/20/2016	0.7 (J)
1/23/2017	0.69 (J)
2/23/2017	0.55 (J)
3/28/2017	0.54 (J)
4/26/2017	0.55 (J)
5/25/2017	0.5 (J)
6/28/2017	0.62 (J)
8/17/2017	1.8 (O)
5/8/2018	0.54 (J)
8/6/2018	1.1
10/9/2018	0.67 (J)
4/22/2019	<0.75 (U)
10/28/2019	<0.75 (U)
4/27/2020	<0.88 (U)
10/19/2020	<0.88 (U)
4/27/2021	<0.75 (U)
10/21/2021	0.88 (J)
4/25/2022	0.8 (J)
10/12/2022	<0.75 (U)
4/20/2023	<2.7 (UO)
11/6/2023	1.5 (JO)
4/18/2024	0.87 (J)
10/1/2024	0.72 (J)

ND substitution: RL or RL/2 if <15% NDs.

EPA Screening (suspected outliers for Dixon's Test)



n = 23

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 2.659, std. dev. 2.064, critical Tn 2.624

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9668
Critical = 0.881 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Arsenic Analysis Run 2/3/2025 8:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

EPA 1989 Outlier Screening

Constituent: Arsenic (ug/L) Analysis Run 2/3/2025 8:28 AM View: PCS

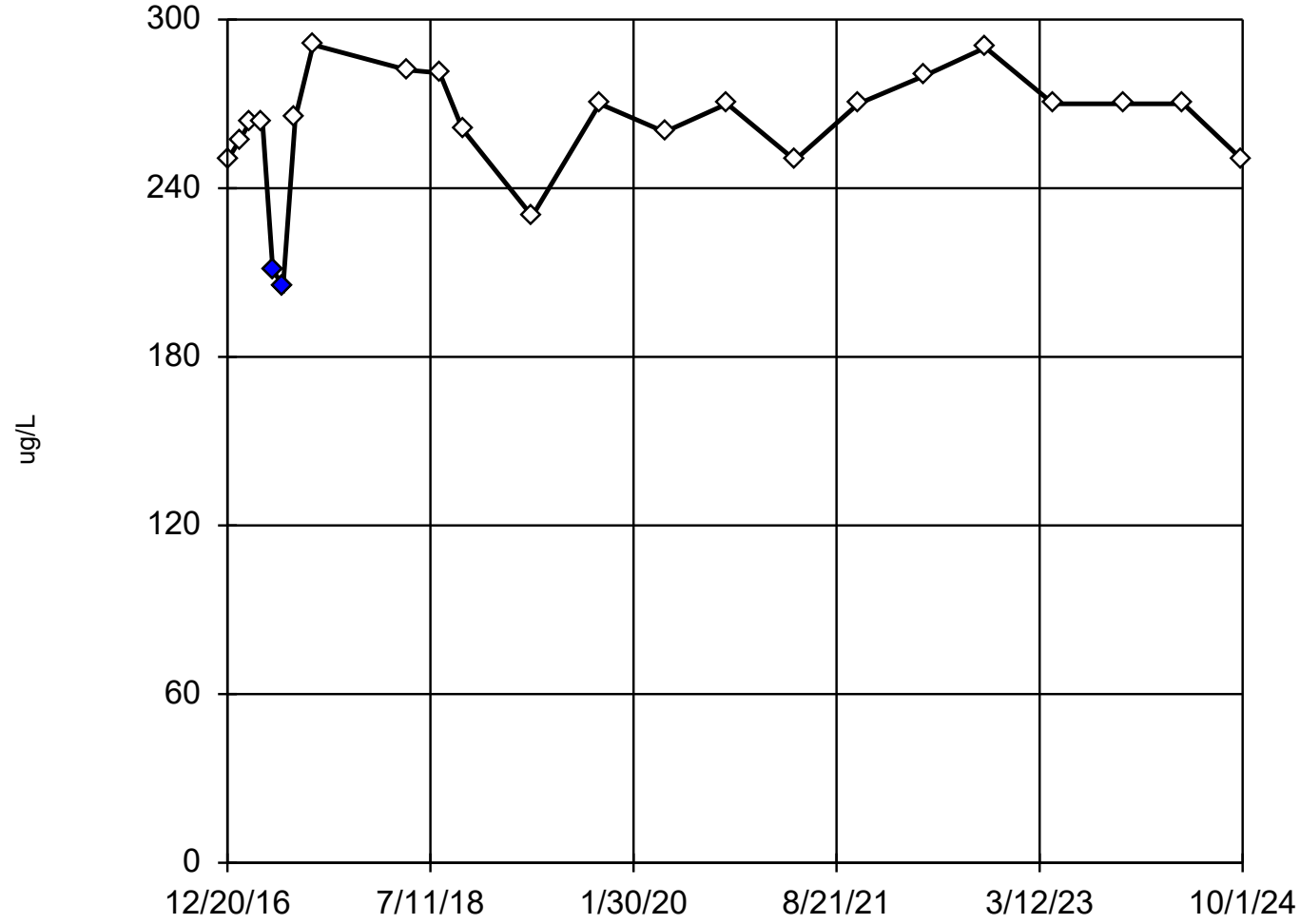
Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-302 (bg)
12/20/2016	2.3
1/23/2017	1.7
2/23/2017	1.6
3/28/2017	2.7
4/26/2017	2.4
5/25/2017	3.2
6/28/2017	1.6
8/17/2017	1.9
5/8/2018	0.79 (J)
8/6/2018	9
10/9/2018	4.5
4/22/2019	2.1
10/28/2019	7
4/27/2020	4.4
10/19/2020	2
4/27/2021	3.4
10/21/2021	0.9 (J)
4/25/2022	1.2 (J)
10/12/2022	0.76 (J)
4/20/2023	<2.7 (U)
11/7/2023	0.86 (J)
4/17/2024	1.1 (J)
10/1/2024	4.4

ND substitution: RL or RL/2 if <15% NDs.

Dixon's Outlier Test

MW-301 (bg)



n = 23

Statistical outliers are drawn as solid.
Testing for 3 low outliers.
Mean = 261.3.
Std. Dev. = 21.78.
230: c = 0.3846
tabl = 0.421.
Alpha = 0.05.
211: c = 0.5493
tabl = 0.421.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.954
Critical = 0.873
The distribution, after removal of suspect values, was found to be normally distributed.

Constituent: Barium Analysis Run 2/3/2025 8:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

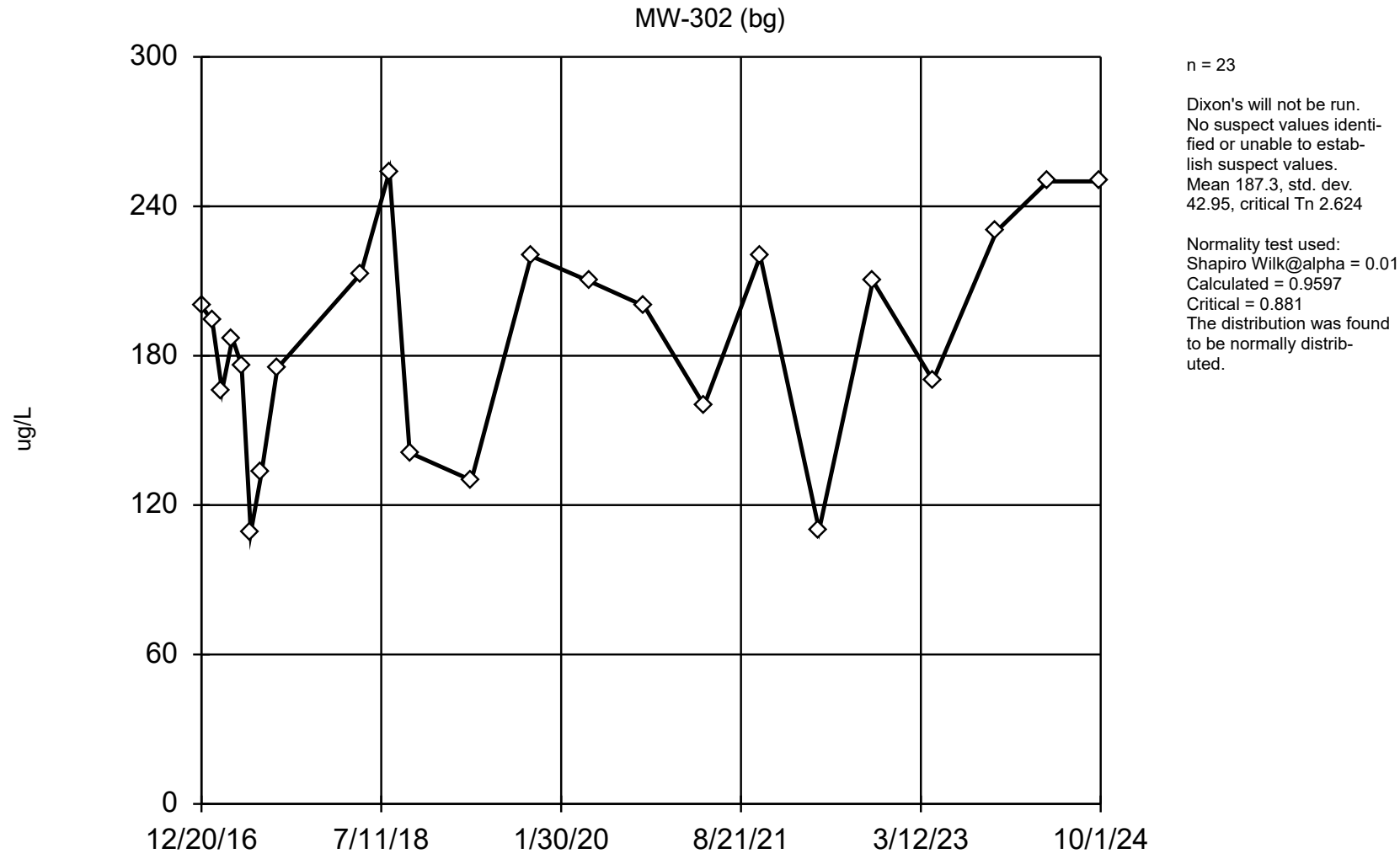
Dixon's Outlier Test

Constituent: Barium (ug/L) Analysis Run 2/3/2025 8:28 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)
12/20/2016	250
1/23/2017	257
2/23/2017	264
3/28/2017	264
4/26/2017	211 (O)
5/25/2017	205 (O)
6/28/2017	265
8/17/2017	291
5/8/2018	282
8/6/2018	281
10/9/2018	261
4/22/2019	230
10/28/2019	270
4/27/2020	260
10/19/2020	270
4/27/2021	250
10/21/2021	270
4/25/2022	280
10/12/2022	290
4/20/2023	270
11/6/2023	270
4/18/2024	270
10/1/2024	250

EPA Screening (suspected outliers for Dixon's Test)



Constituent: Barium Analysis Run 2/3/2025 8:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

EPA 1989 Outlier Screening

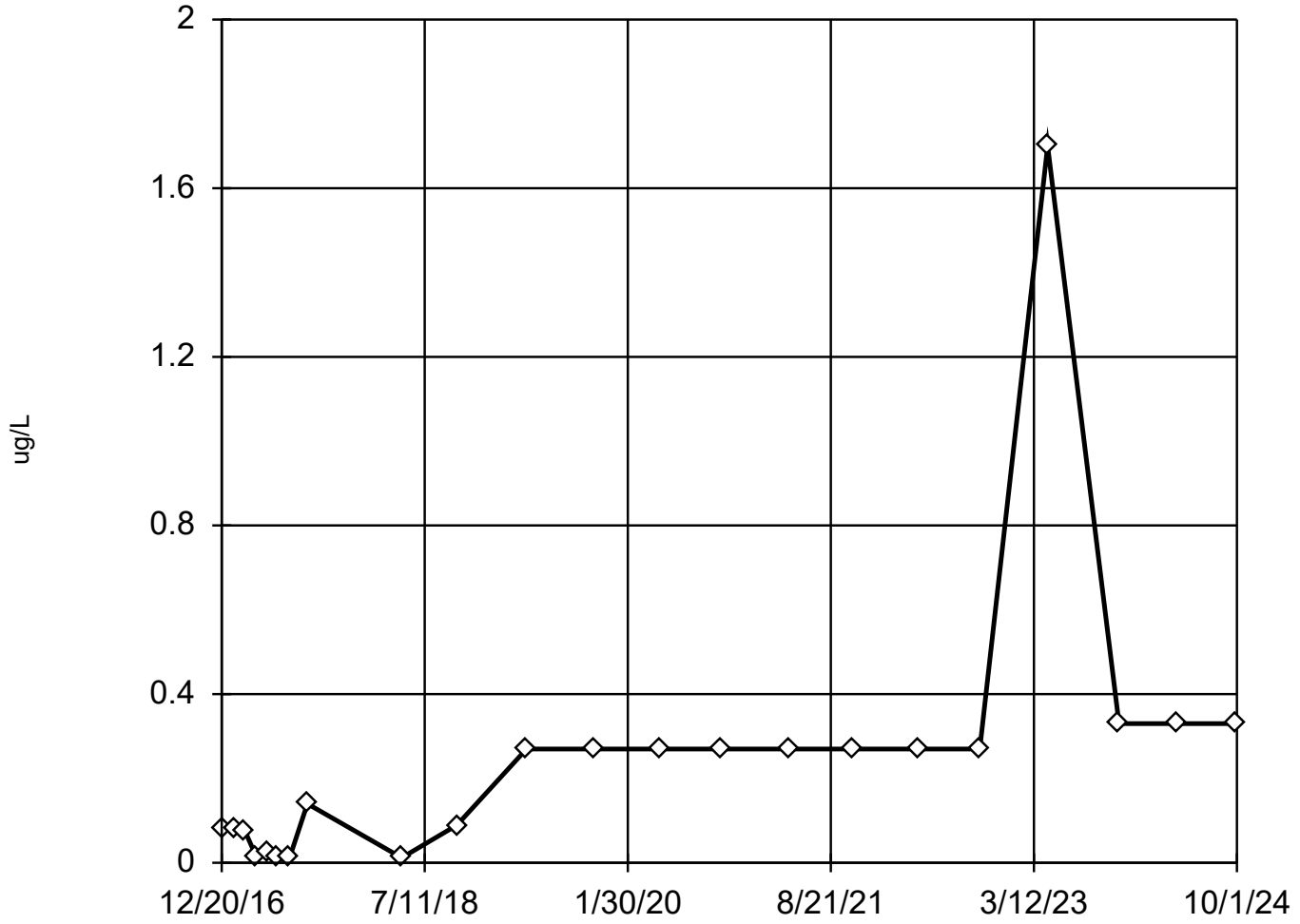
Constituent: Barium (ug/L) Analysis Run 2/3/2025 8:28 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-302 (bg)
12/20/2016	200
1/23/2017	194
2/23/2017	166
3/28/2017	187
4/26/2017	176
5/25/2017	109
6/28/2017	133
8/17/2017	175
5/8/2018	213
8/6/2018	254
10/9/2018	141
4/22/2019	130
10/28/2019	220
4/27/2020	210
10/19/2020	200
4/27/2021	160
10/21/2021	220
4/25/2022	110
10/12/2022	210
4/20/2023	170
11/7/2023	230
4/17/2024	250
10/1/2024	250

Tukey's Outlier Screening

MW-301 (bg)



n = 22

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 74.18, low cutoff = 0.0001512, based on IQR multiplier of 3.

Constituent: Beryllium Analysis Run 2/3/2025 8:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Tukey's Outlier Screening

Constituent: Beryllium (ug/L) Analysis Run 2/3/2025 8:28 AM View: PCS

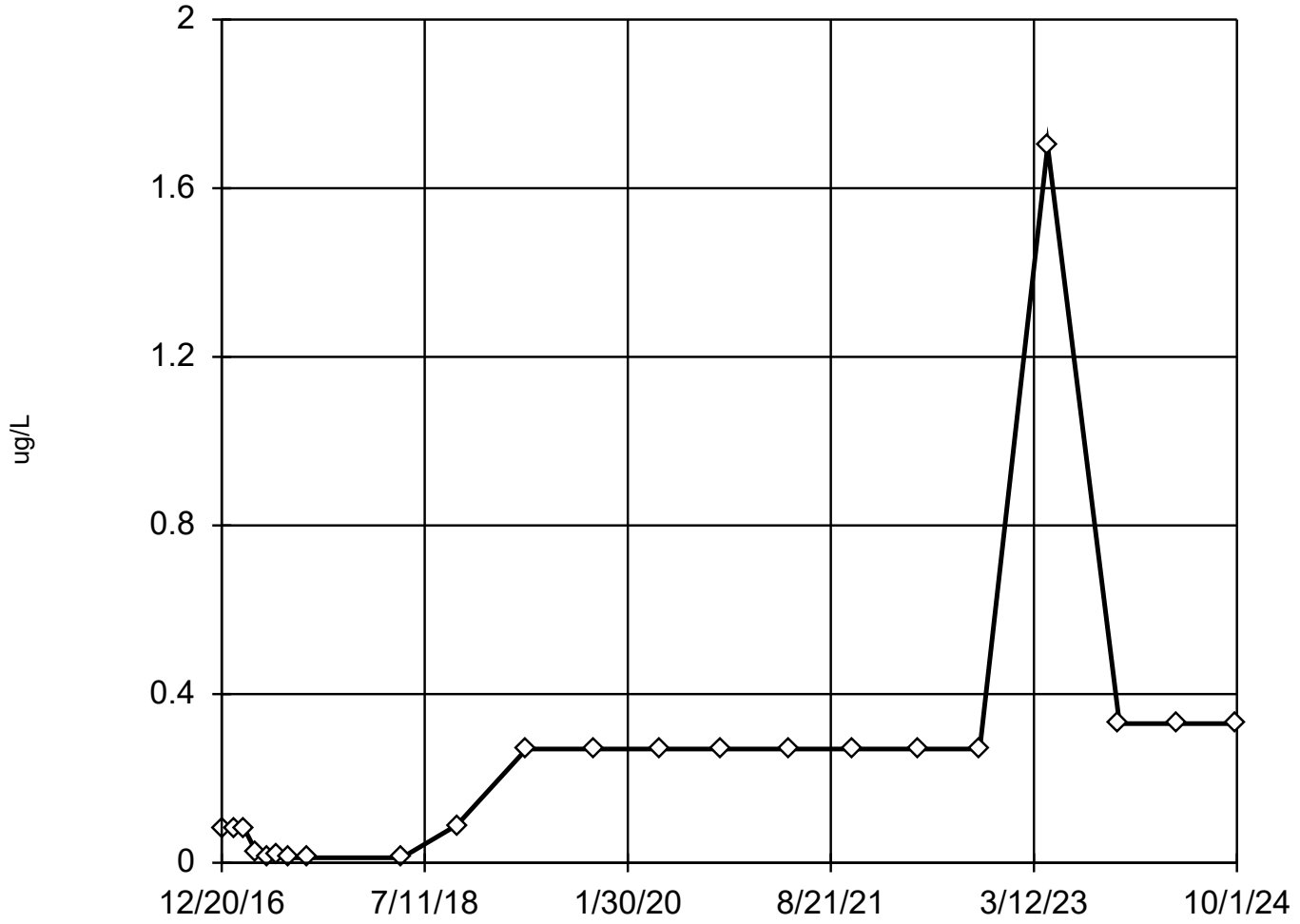
Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)
12/20/2016	<0.08 (U)
1/23/2017	<0.08 (U)
2/23/2017	0.075 (J)
3/28/2017	0.012 (J)
4/26/2017	0.023 (J)
5/25/2017	0.016 (J)
6/28/2017	<0.012 (U)
8/17/2017	0.14 (J)
5/8/2018	<0.012 (U)
10/9/2018	<0.089 (U)
4/22/2019	<0.27 (U)
10/28/2019	<0.27 (U)
4/27/2020	<0.27 (U)
10/19/2020	<0.27 (U)
4/27/2021	<0.27 (U)
10/21/2021	<0.27 (U)
4/25/2022	<0.27 (U)
10/12/2022	<0.27 (U)
4/20/2023	<1.7 (U)
11/6/2023	<0.33 (U)
4/18/2024	<0.33
10/1/2024	<0.33

ND substitution: RL or RL/2 if <15% NDs.

Tukey's Outlier Screening

MW-302 (bg)



n = 22

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 581.7, low cutoff = 0.000009702, based on IQR multiplier of 3.

Constituent: Beryllium Analysis Run 2/3/2025 8:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Tukey's Outlier Screening

Constituent: Beryllium (ug/L) Analysis Run 2/3/2025 8:28 AM View: PCS

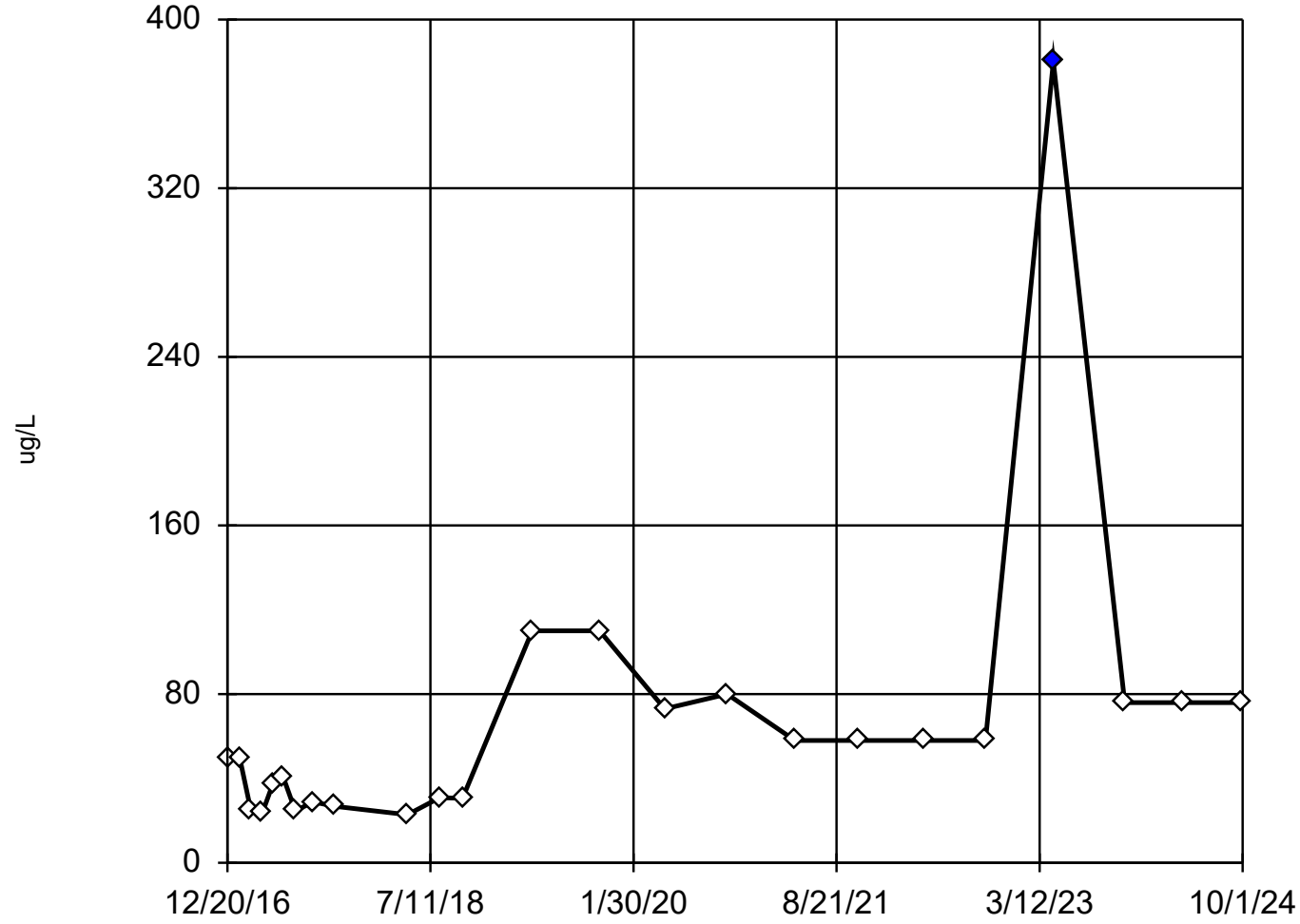
Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-302 (bg)
12/20/2016	<0.08 (U)
1/23/2017	<0.08 (U)
2/23/2017	0.078 (J)
3/28/2017	0.023 (J)
4/26/2017	<0.012 (U)
5/25/2017	0.019 (J)
6/28/2017	<0.012 (U)
8/17/2017	<0.012 (U)
5/8/2018	<0.012 (U)
10/9/2018	<0.089 (U)
4/22/2019	<0.27 (U)
10/28/2019	<0.27 (U)
4/27/2020	<0.27 (U)
10/19/2020	<0.27 (U)
4/27/2021	<0.27 (U)
10/21/2021	<0.27 (U)
4/25/2022	<0.27 (U)
10/12/2022	<0.27 (U)
4/20/2023	<1.7 (U)
11/7/2023	<0.33 (U)
4/17/2024	<0.33
10/1/2024	<0.33

ND substitution: RL or RL/2 if <15% NDs.

Dixon's Outlier Test

MW-301 (bg)



n = 24

Statistical outlier is drawn as solid.
Testing for 1 high outlier.
Mean = 66.86.
Std. Dev. = 71.52.
<380 (U): c = 0.7597
tabl = 0.413.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8998
Critical = 0.881
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Boron Analysis Run 2/3/2025 8:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Dixon's Outlier Test

Constituent: Boron (ug/L) Analysis Run 2/3/2025 8:28 AM View: PCS

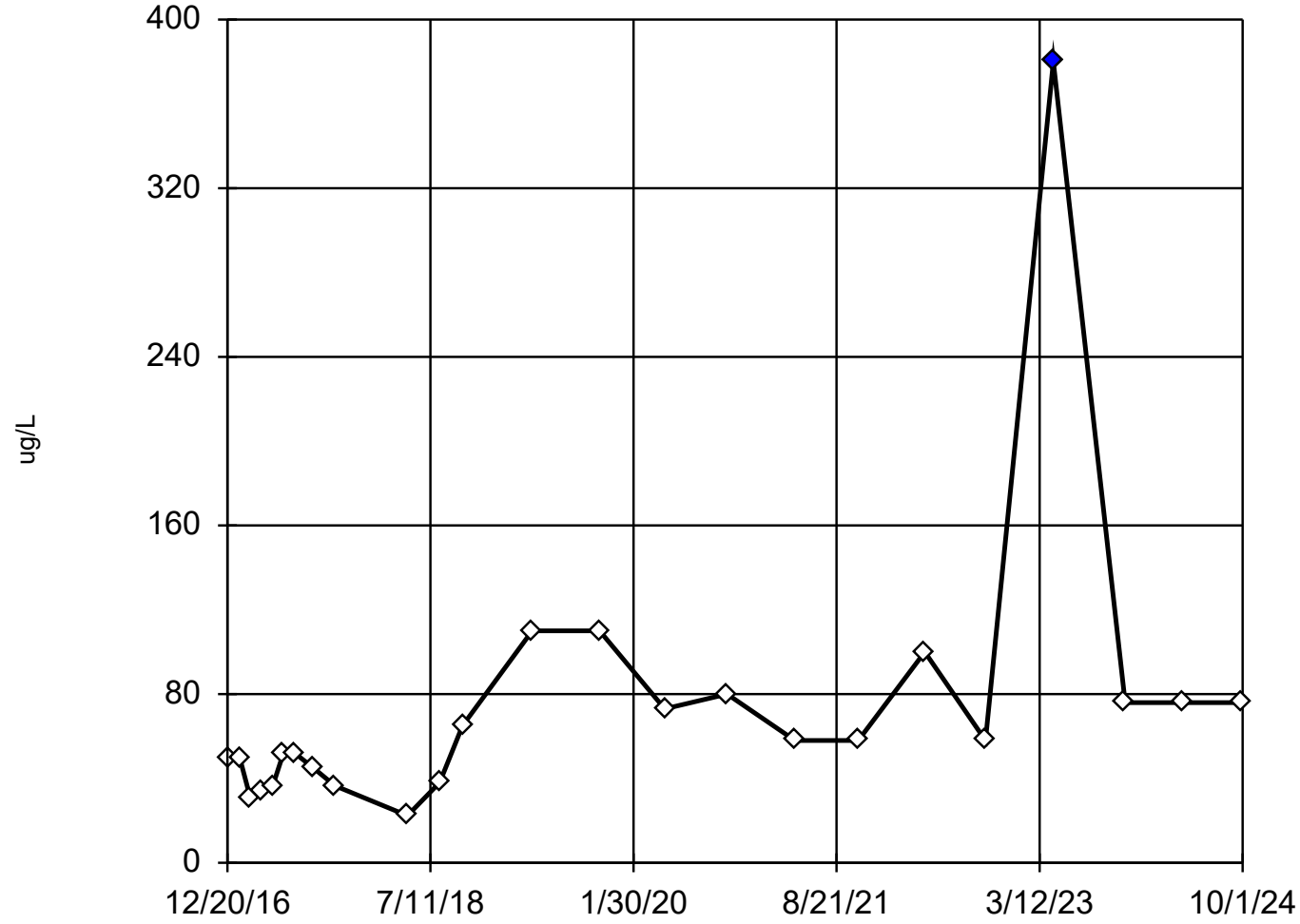
Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)
12/20/2016	<50 (U)
1/23/2017	<50 (U)
2/23/2017	25.2 (J)
3/28/2017	23.8 (J)
4/26/2017	37.3 (J)
5/25/2017	40.8 (J)
6/28/2017	24.6 (J)
8/17/2017	28.9 (J)
10/17/2017	26.8 (J)
5/8/2018	22.8 (J)
8/6/2018	30.9 (J)
10/9/2018	30.6 (J)
4/22/2019	<110 (U)
10/28/2019	<110 (U)
4/27/2020	<73 (U)
10/19/2020	<80 (U)
4/27/2021	<58 (U)
10/21/2021	<58 (U)
4/25/2022	<58 (U)
10/12/2022	<58 (U)
4/20/2023	<380 (UO)
11/6/2023	<76 (U)
4/18/2024	<76
10/1/2024	<76

ND substitution: RL or RL/2 if <15% NDs.

Dixon's Outlier Test

MW-302 (bg)



n = 24

Statistical outlier is drawn as solid.
Testing for 1 high outlier.
Mean = 73.58.
Std. Dev. = 69.5.
<380 (U): c = 0.7797
tabl = 0.413.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9408
Critical = 0.881
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Boron Analysis Run 2/3/2025 8:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Dixon's Outlier Test

Constituent: Boron (ug/L) Analysis Run 2/3/2025 8:28 AM View: PCS

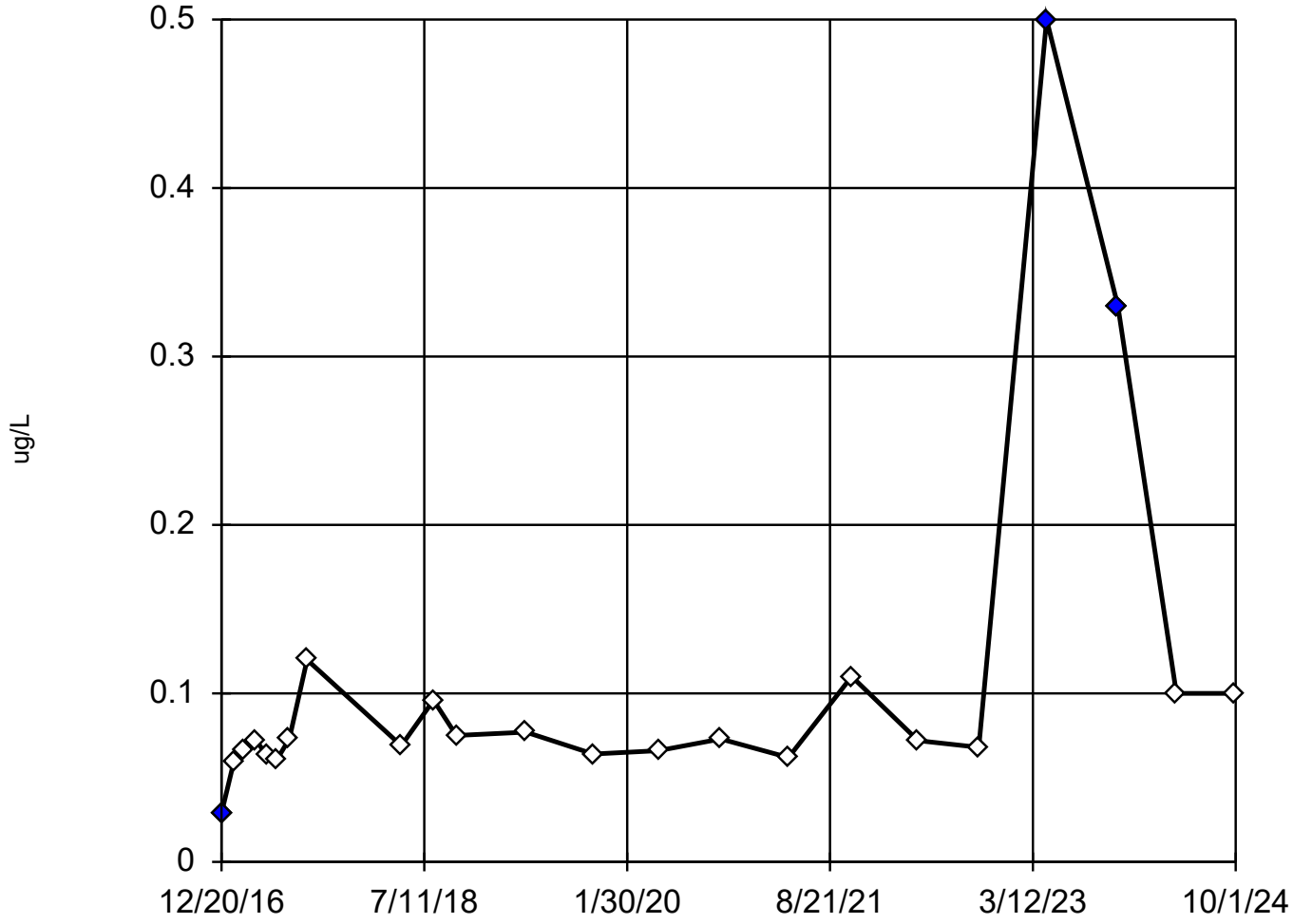
Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-302 (bg)
12/20/2016	<50 (U)
1/23/2017	<50 (U)
2/23/2017	30.1 (J)
3/28/2017	33.7 (J)
4/26/2017	36.5 (J)
5/25/2017	51.6 (J)
6/28/2017	51.8 (J)
8/17/2017	45.1 (J)
10/17/2017	36.5 (J)
5/8/2018	22.4 (J)
8/6/2018	38.1 (J)
10/9/2018	65 (J)
4/22/2019	<110 (U)
10/28/2019	<110 (U)
4/27/2020	<73 (U)
10/19/2020	<80 (U)
4/27/2021	<58 (U)
10/21/2021	<58 (U)
4/25/2022	100
10/12/2022	<58 (U)
4/20/2023	<380 (UO)
11/7/2023	<76 (U)
4/17/2024	<76
10/1/2024	<76

ND substitution: RL or RL/2 if <15% NDs.

Dixon's Outlier Test

MW-301 (bg)



n = 23

Statistical outliers are drawn as solid.
Testing for 2 high and 1 low outliers.
Mean = 0.1046.
Std. Dev. = 0.1031.
0.33: c = 0.6508
tabl = 0.421.
-3.54 (U): c = 0.5577
tabl = 0.421.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.868
Critical = 0.868 (after natural log transformation)
The distribution, after removal of suspect values, was found to be log-normal.

Constituent: Cadmium Analysis Run 2/3/2025 8:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Dixon's Outlier Test

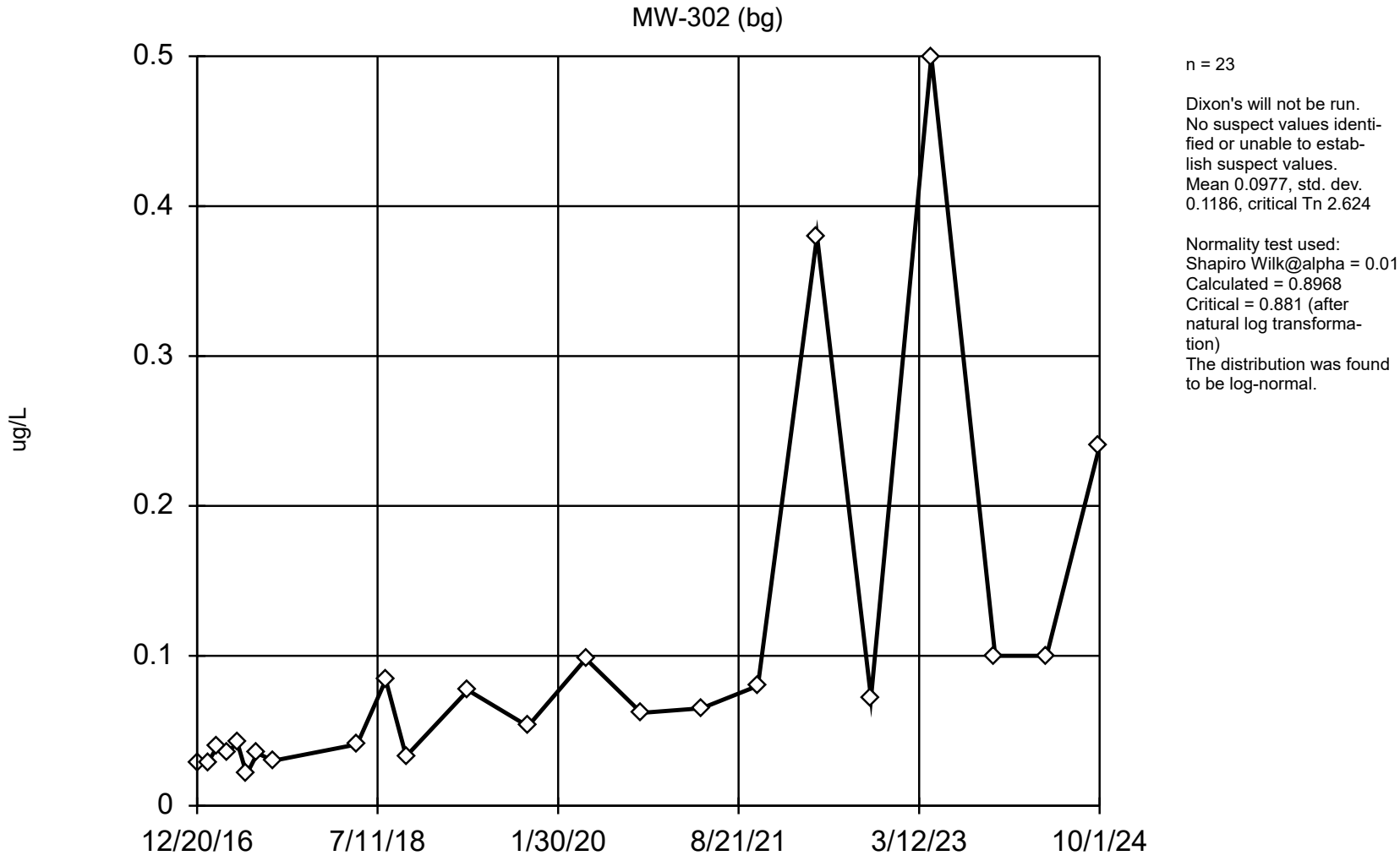
Constituent: Cadmium (ug/L) Analysis Run 2/3/2025 8:28 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)
12/20/2016	<0.029 (UO)
1/23/2017	0.059 (J)
2/23/2017	0.066 (J)
3/28/2017	0.072 (J)
4/26/2017	0.063 (J)
5/25/2017	0.061 (J)
6/28/2017	0.073 (J)
8/17/2017	0.12 (J)
5/8/2018	0.069 (J)
8/6/2018	0.096 (J)
10/9/2018	0.075 (J)
4/22/2019	<0.077 (U)
10/28/2019	0.064 (J)
4/27/2020	0.066 (J)
10/19/2020	0.073 (J)
4/27/2021	0.062 (J)
10/21/2021	0.11
4/25/2022	0.072 (J)
10/12/2022	0.068 (J)
4/20/2023	<0.5 (UO)
11/6/2023	0.33 (O)
4/18/2024	<0.1
10/1/2024	<0.1

ND substitution: RL or RL/2 if <15% NDs.

EPA Screening (suspected outliers for Dixon's Test)



n = 23

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.0977, std. dev. 0.1186, critical Tn 2.624

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8968
Critical = 0.881 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Cadmium Analysis Run 2/3/2025 8:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

EPA 1989 Outlier Screening

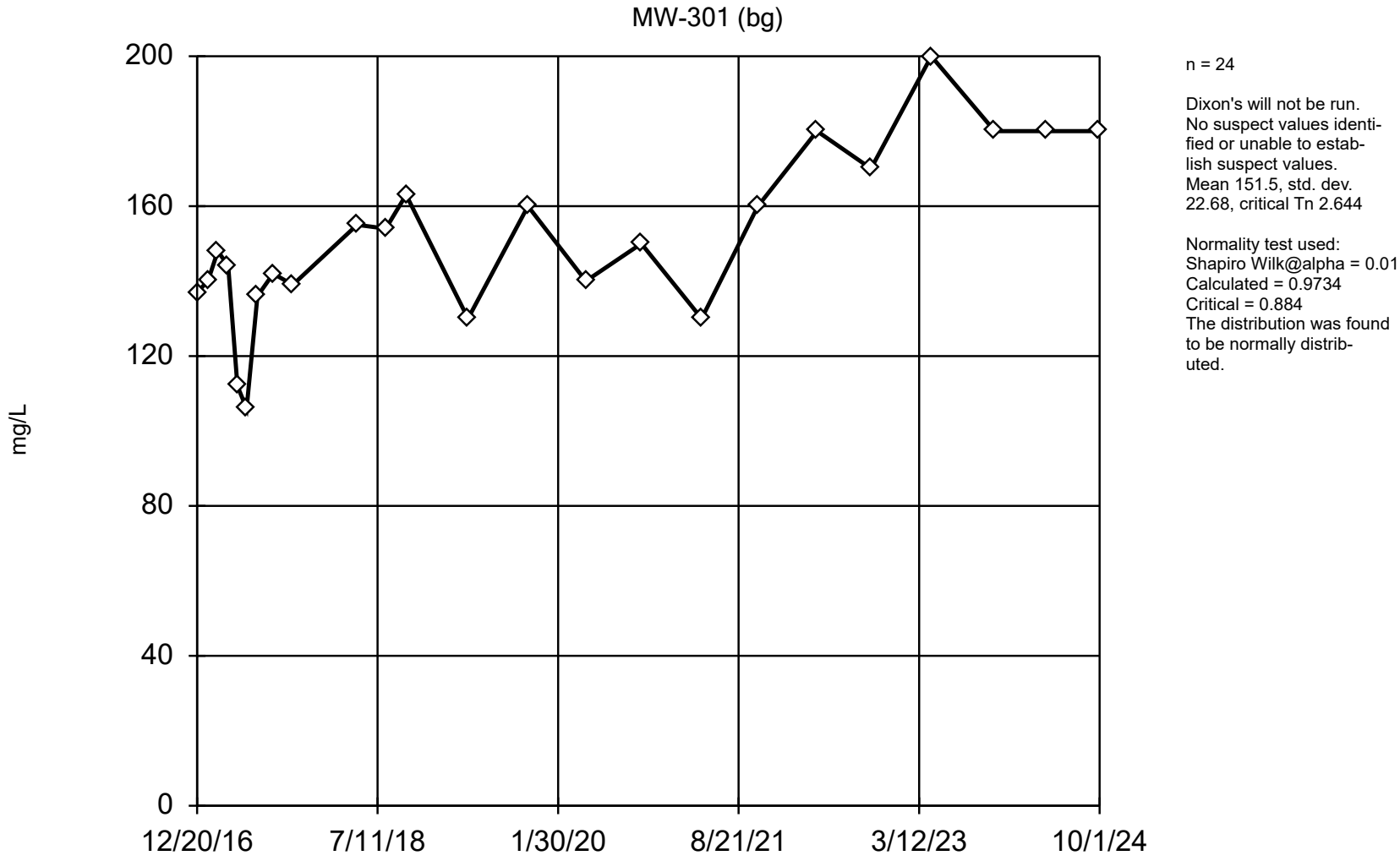
Constituent: Cadmium (ug/L) Analysis Run 2/3/2025 8:28 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-302 (bg)
12/20/2016	<0.029 (U)
1/23/2017	<0.029 (U)
2/23/2017	0.04 (J)
3/28/2017	0.036 (J)
4/26/2017	0.042 (J)
5/25/2017	0.021 (J)
6/28/2017	0.035 (J)
8/17/2017	0.03 (J)
5/8/2018	0.041 (J)
8/6/2018	0.084 (J)
10/9/2018	<0.033 (U)
4/22/2019	<0.077 (U)
10/28/2019	0.053 (J)
4/27/2020	0.098 (J)
10/19/2020	0.062 (J)
4/27/2021	0.065 (J)
10/21/2021	0.08 (J)
4/25/2022	0.38
10/12/2022	0.072 (J)
4/20/2023	<0.5 (U)
11/7/2023	<0.1 (U)
4/17/2024	<0.1
10/1/2024	0.24

ND substitution: RL or RL/2 if <15% NDs.

EPA Screening (suspected outliers for Dixon's Test)



n = 24

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 151.5, std. dev. 22.68, critical Tn 2.644

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9734
Critical = 0.884
The distribution was found to be normally distributed.

Constituent: Calcium Analysis Run 2/3/2025 8:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

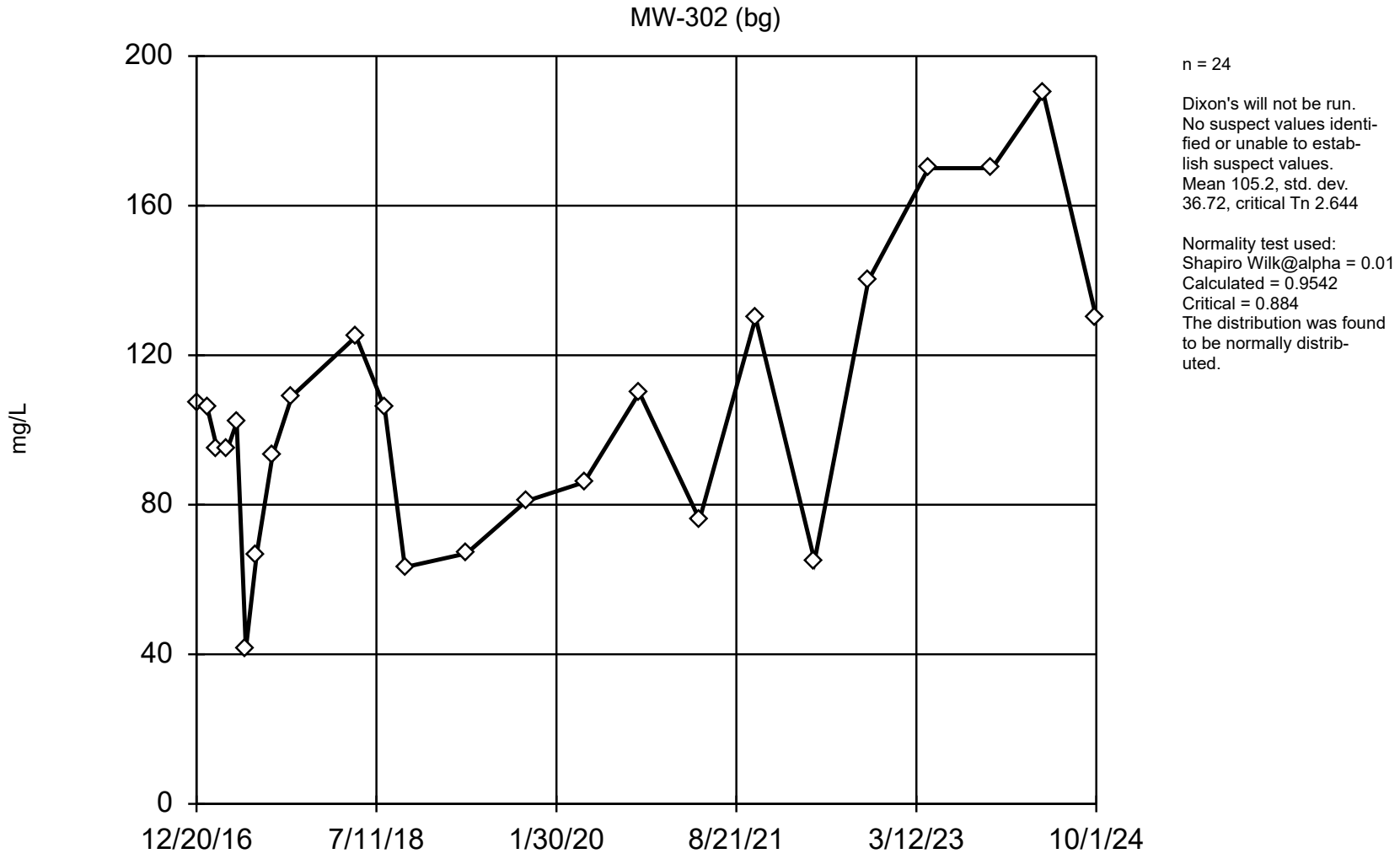
EPA 1989 Outlier Screening

Constituent: Calcium (mg/L) Analysis Run 2/3/2025 8:28 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)
12/20/2016	137
1/23/2017	140
2/23/2017	148
3/28/2017	144
4/26/2017	112
5/25/2017	106
6/28/2017	136
8/17/2017	142
10/17/2017	139
5/8/2018	155
8/6/2018	154
10/9/2018	163
4/22/2019	130
10/28/2019	160
4/27/2020	140
10/19/2020	150
4/27/2021	130
10/21/2021	160
4/25/2022	180
10/12/2022	170
4/20/2023	200
11/6/2023	180
4/18/2024	180
10/1/2024	180

EPA Screening (suspected outliers for Dixon's Test)



Constituent: Calcium Analysis Run 2/3/2025 8:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

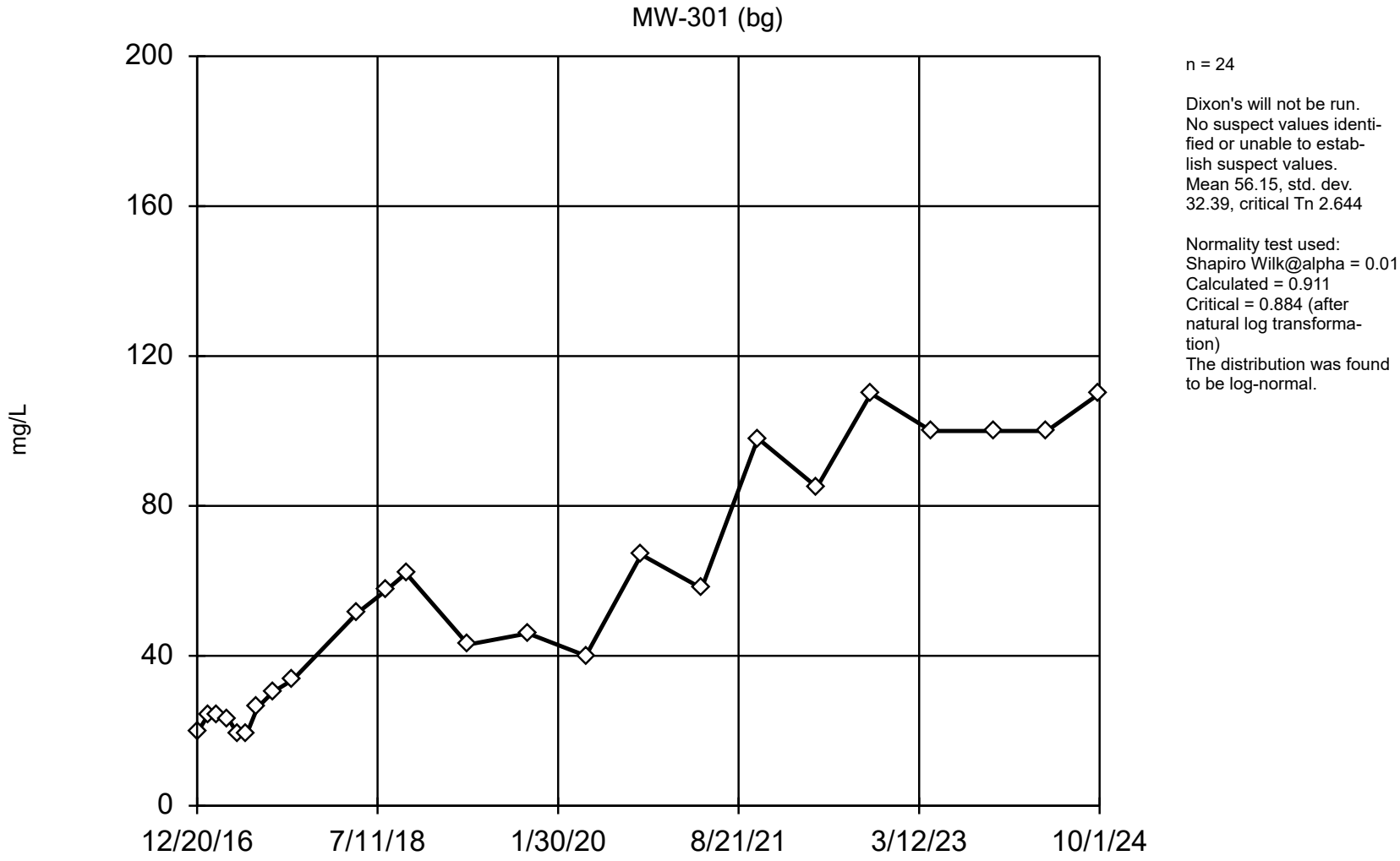
EPA 1989 Outlier Screening

Constituent: Calcium (mg/L) Analysis Run 2/3/2025 8:28 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-302 (bg)
12/20/2016	107
1/23/2017	106
2/23/2017	95
3/28/2017	95
4/26/2017	102
5/25/2017	41.4
6/28/2017	66.7
8/17/2017	93.1
10/17/2017	109
5/8/2018	125
8/6/2018	106
10/9/2018	63.3
4/22/2019	67
10/28/2019	81
4/27/2020	86
10/19/2020	110
4/27/2021	76
10/21/2021	130
4/25/2022	65
10/12/2022	140
4/20/2023	170
11/7/2023	170
4/17/2024	190
10/1/2024	130

EPA Screening (suspected outliers for Dixon's Test)



Constituent: Chloride Analysis Run 2/3/2025 8:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

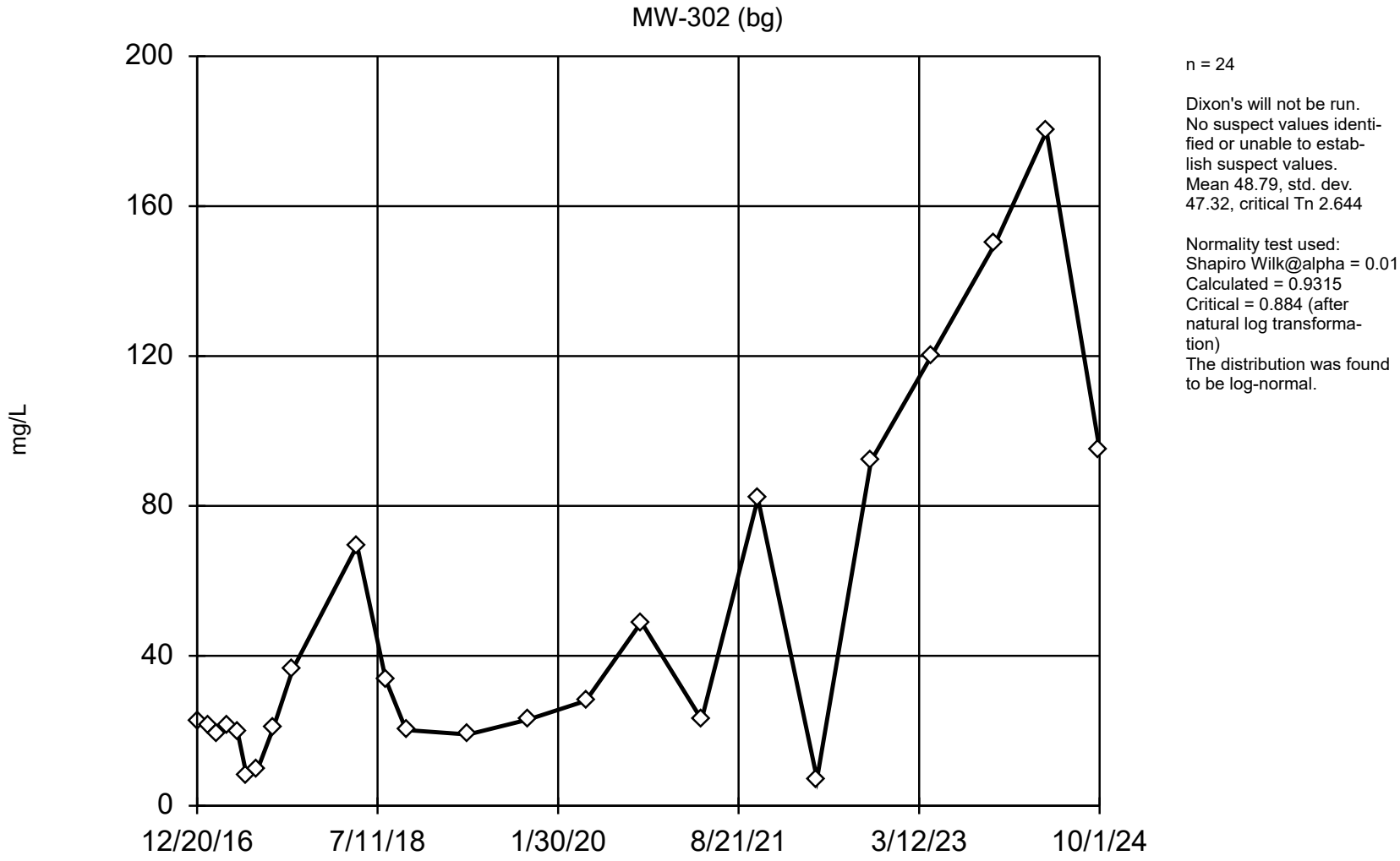
EPA 1989 Outlier Screening

Constituent: Chloride (mg/L) Analysis Run 2/3/2025 8:28 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)
12/20/2016	19.5
1/23/2017	24.1
2/23/2017	24.4
3/28/2017	23.3
4/26/2017	19.2
5/25/2017	19.1
6/28/2017	26.2
8/17/2017	30.4
10/17/2017	33.6
5/8/2018	51.4
8/6/2018	57.4
10/9/2018	62
4/22/2019	43
10/28/2019	46
4/27/2020	40
10/19/2020	67
4/27/2021	58
10/21/2021	98
4/25/2022	85
10/12/2022	110
4/20/2023	100
11/6/2023	100
4/18/2024	100
10/1/2024	110

EPA Screening (suspected outliers for Dixon's Test)



n = 24

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 48.79, std. dev. 47.32, critical Tn 2.644

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9315
Critical = 0.884 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Chloride Analysis Run 2/3/2025 8:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

EPA 1989 Outlier Screening

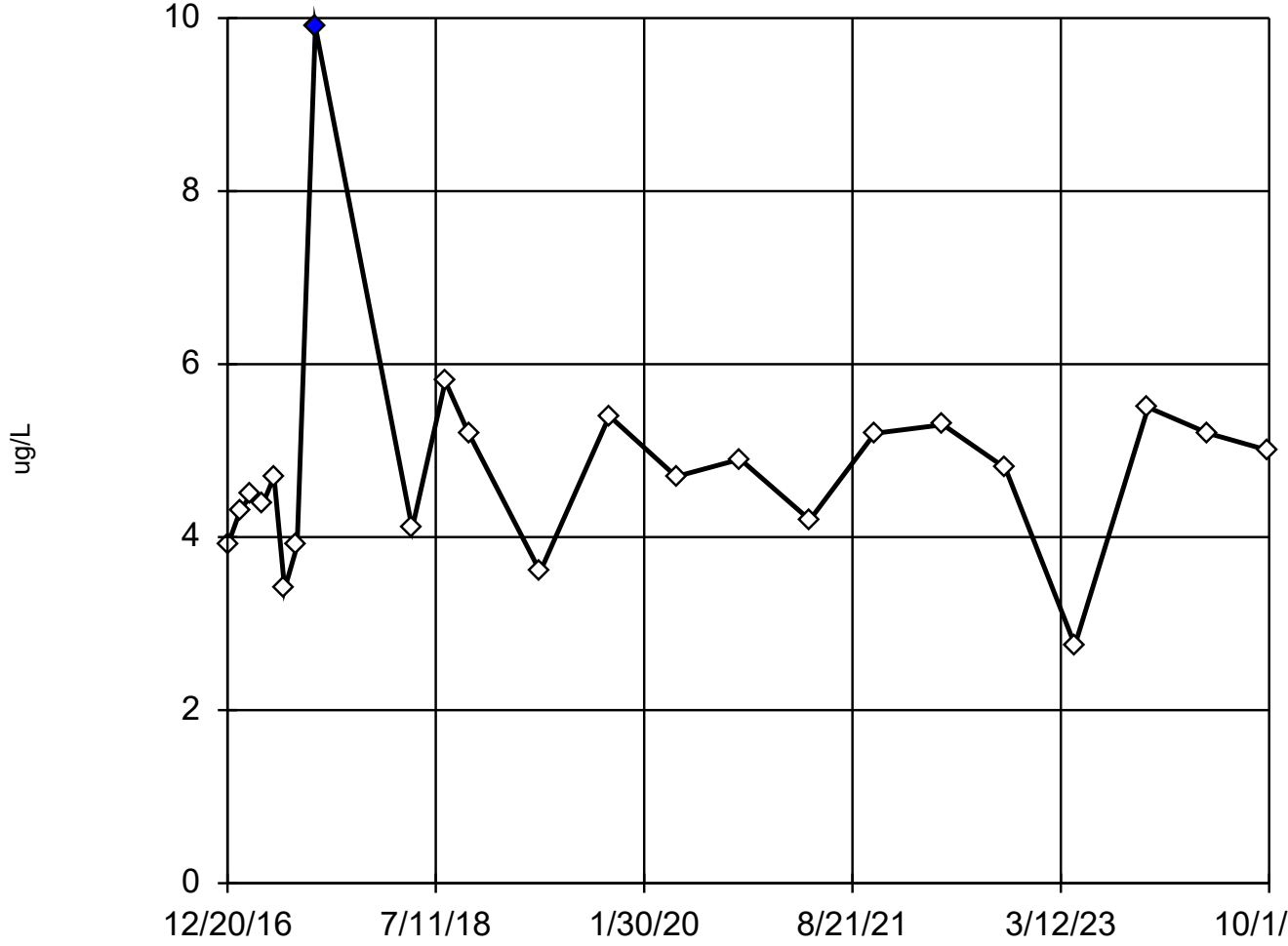
Constituent: Chloride (mg/L) Analysis Run 2/3/2025 8:28 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-302 (bg)
12/20/2016	22.6
1/23/2017	21.4
2/23/2017	19.2
3/28/2017	21.6
4/26/2017	19.9
5/25/2017	8.1
6/28/2017	9.6
8/17/2017	20.7
10/17/2017	36.4
5/8/2018	69.4
8/6/2018	33.6
10/9/2018	20.2
4/22/2019	19
10/28/2019	23
4/27/2020	28
10/19/2020	49
4/27/2021	23
10/21/2021	82
4/25/2022	7.2
10/12/2022	92
4/20/2023	120
11/7/2023	150
4/17/2024	180
10/1/2024	95

Dixon's Outlier Test

MW-301 (bg)



n = 23

Statistical outlier is drawn as solid.
Testing for 1 high and 1 low outliers.
Mean = 4.811.
Std. Dev. = 1.335.
9.9: c = 0.6984
tabl = 0.421.
<5.5 (U): c = 0.3091
tabl = 0.421.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9753
Critical = 0.873
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Chromium Analysis Run 2/3/2025 8:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Dixon's Outlier Test

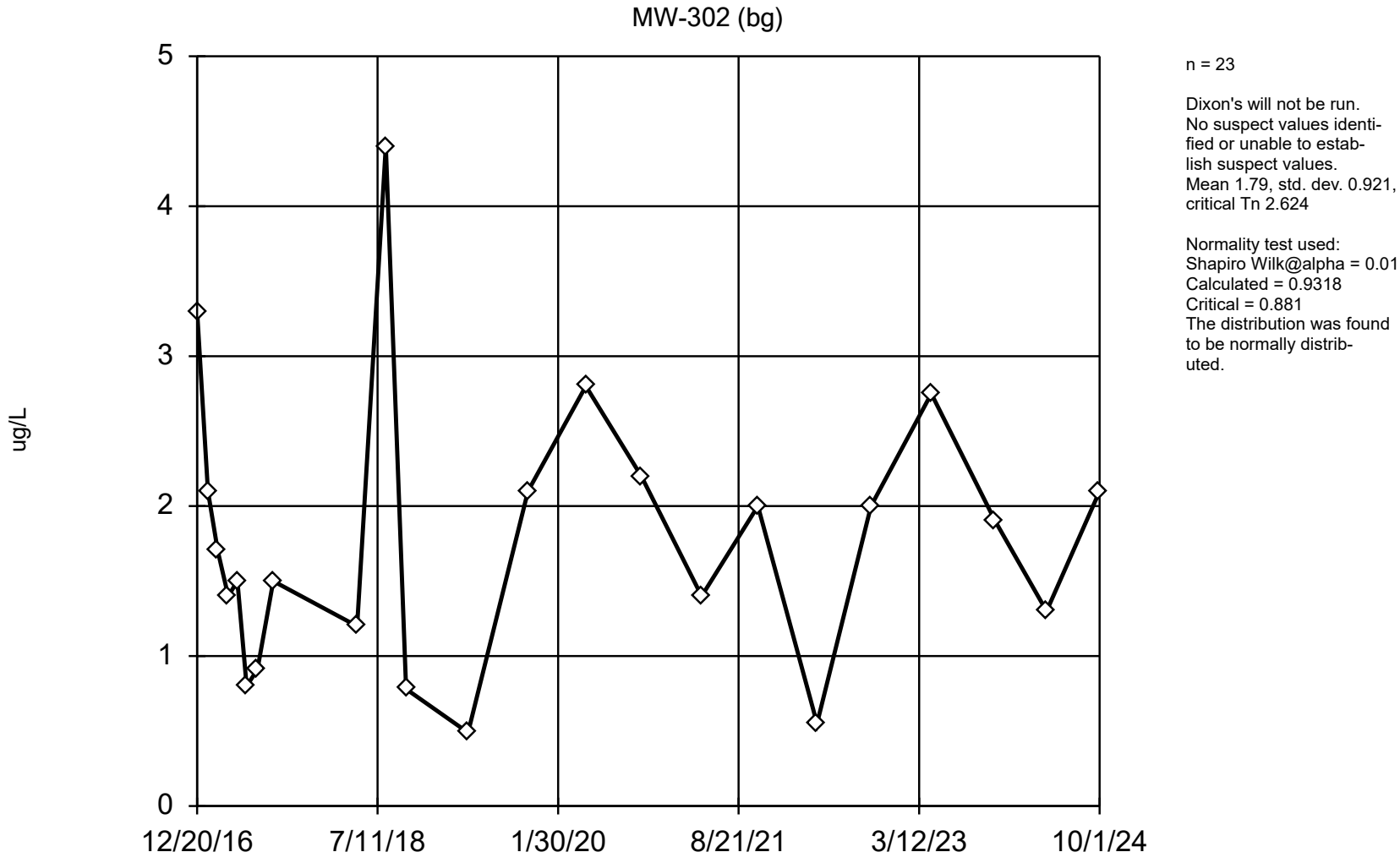
Constituent: Chromium (ug/L) Analysis Run 2/3/2025 8:28 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)
12/20/2016	3.9
1/23/2017	4.3
2/23/2017	4.5
3/28/2017	4.4
4/26/2017	4.7
5/25/2017	3.4
6/28/2017	3.9
8/17/2017	9.9 (O)
5/8/2018	4.1
8/6/2018	5.8
10/9/2018	5.2
4/22/2019	3.6 (J)
10/28/2019	5.4
4/27/2020	4.7 (J)
10/19/2020	4.9 (J)
4/27/2021	4.2 (J)
10/21/2021	5.2
4/25/2022	5.3
10/12/2022	4.8 (J)
4/20/2023	<5.5 (U)
11/6/2023	5.5
4/18/2024	5.2
10/1/2024	5

ND substitution: RL or RL/2 if <15% NDs.

EPA Screening (suspected outliers for Dixon's Test)



Constituent: Chromium Analysis Run 2/3/2025 8:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

EPA 1989 Outlier Screening

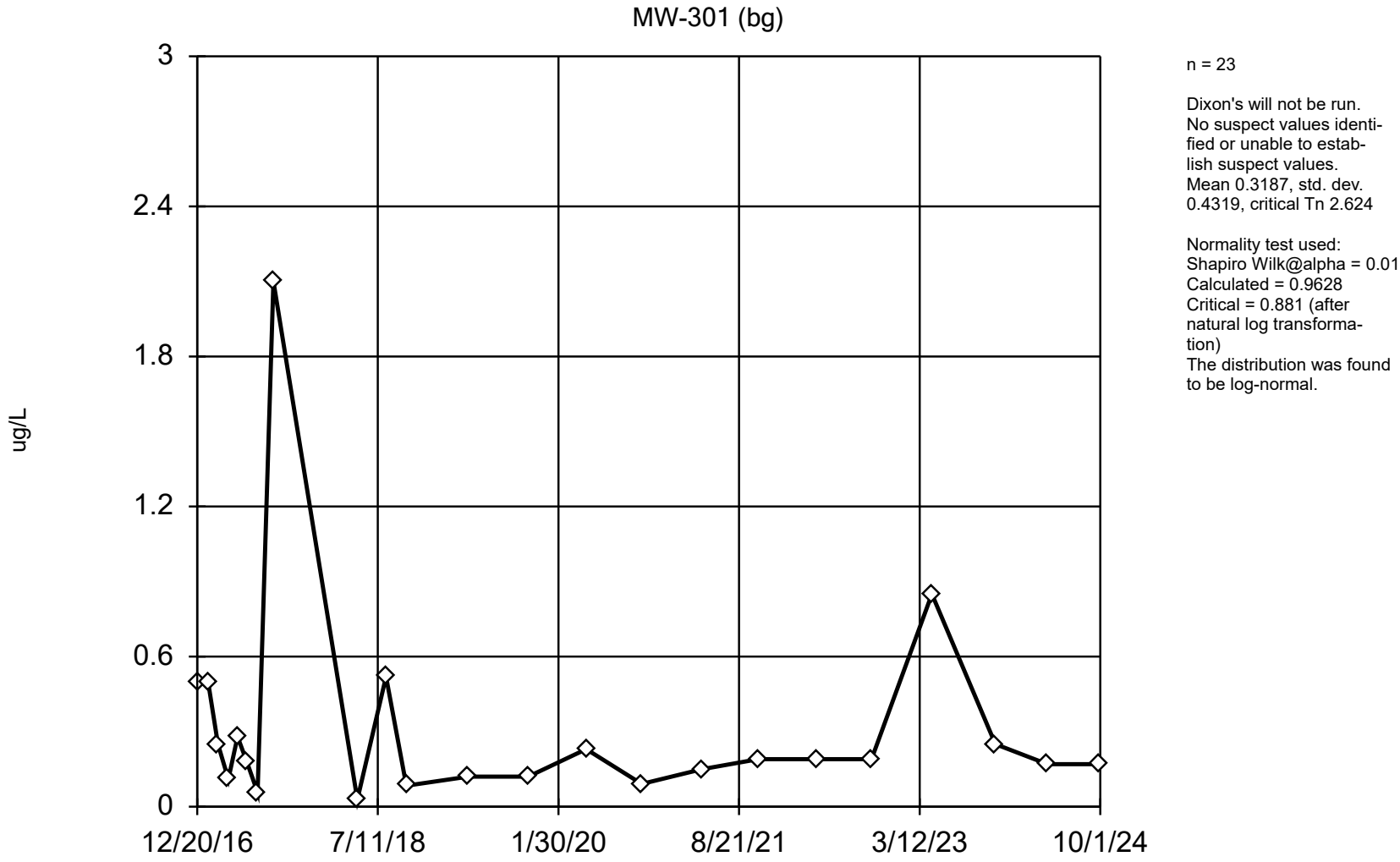
Constituent: Chromium (ug/L) Analysis Run 2/3/2025 8:28 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-302 (bg)
12/20/2016	3.3
1/23/2017	2.1
2/23/2017	1.7
3/28/2017	1.4
4/26/2017	1.5
5/25/2017	0.8 (J)
6/28/2017	0.91 (J)
8/17/2017	1.5
5/8/2018	1.2
8/6/2018	4.4
10/9/2018	0.78 (J)
4/22/2019	<0.98 (U)
10/28/2019	2.1 (J)
4/27/2020	2.8 (J)
10/19/2020	2.2 (J)
4/27/2021	1.4 (J)
10/21/2021	2 (J)
4/25/2022	<1.1 (U)
10/12/2022	2 (J)
4/20/2023	<5.5 (U)
11/7/2023	1.9 (J)
4/17/2024	1.3 (J)
10/1/2024	2.1 (J)

ND substitution: RL or RL/2 if <15% NDs.

EPA Screening (suspected outliers for Dixon's Test)



n = 23

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.3187, std. dev. 0.4319, critical Tn 2.624

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9628
Critical = 0.881 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Cobalt Analysis Run 2/3/2025 8:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

EPA 1989 Outlier Screening

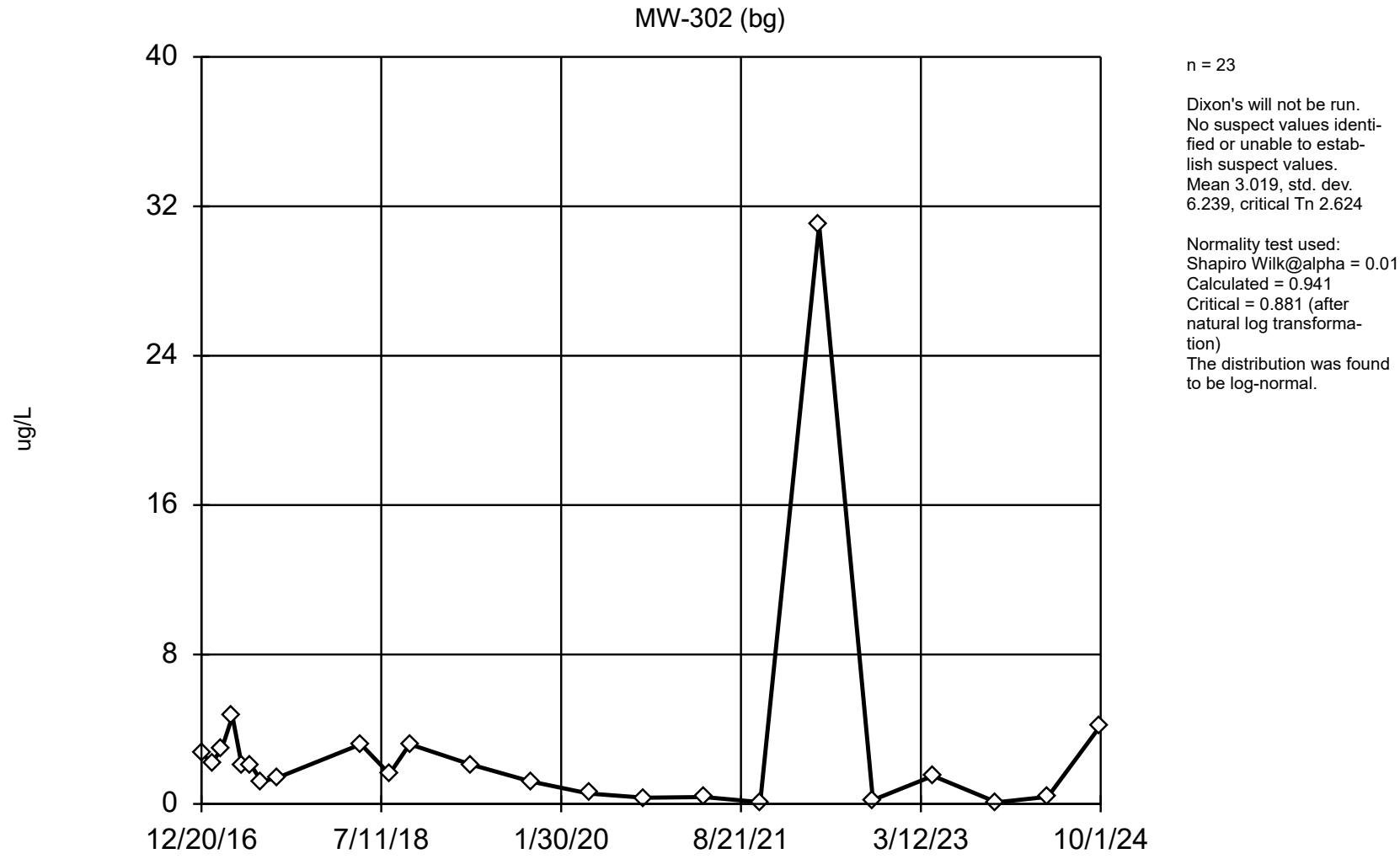
Constituent: Cobalt (ug/L) Analysis Run 2/3/2025 8:28 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)
12/20/2016	<0.5 (U)
1/23/2017	<0.5 (U)
2/23/2017	0.25 (J)
3/28/2017	0.11 (J)
4/26/2017	0.28 (J)
5/25/2017	0.18 (J)
6/28/2017	0.057 (J)
8/17/2017	2.1
5/8/2018	0.028 (J)
8/6/2018	0.52 (J)
10/9/2018	0.084 (J)
4/22/2019	0.12 (J)
10/28/2019	0.12 (J)
4/27/2020	0.23 (J)
10/19/2020	<0.091 (U)
4/27/2021	0.15 (J)
10/21/2021	<0.19 (U)
4/25/2022	<0.19 (U)
10/12/2022	<0.19 (U)
4/20/2023	<0.85 (U)
11/6/2023	0.25 (J)
4/18/2024	<0.17
10/1/2024	<0.17

ND substitution: RL or RL/2 if <15% NDs.

EPA Screening (suspected outliers for Dixon's Test)



Constituent: Cobalt Analysis Run 2/3/2025 8:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

EPA 1989 Outlier Screening

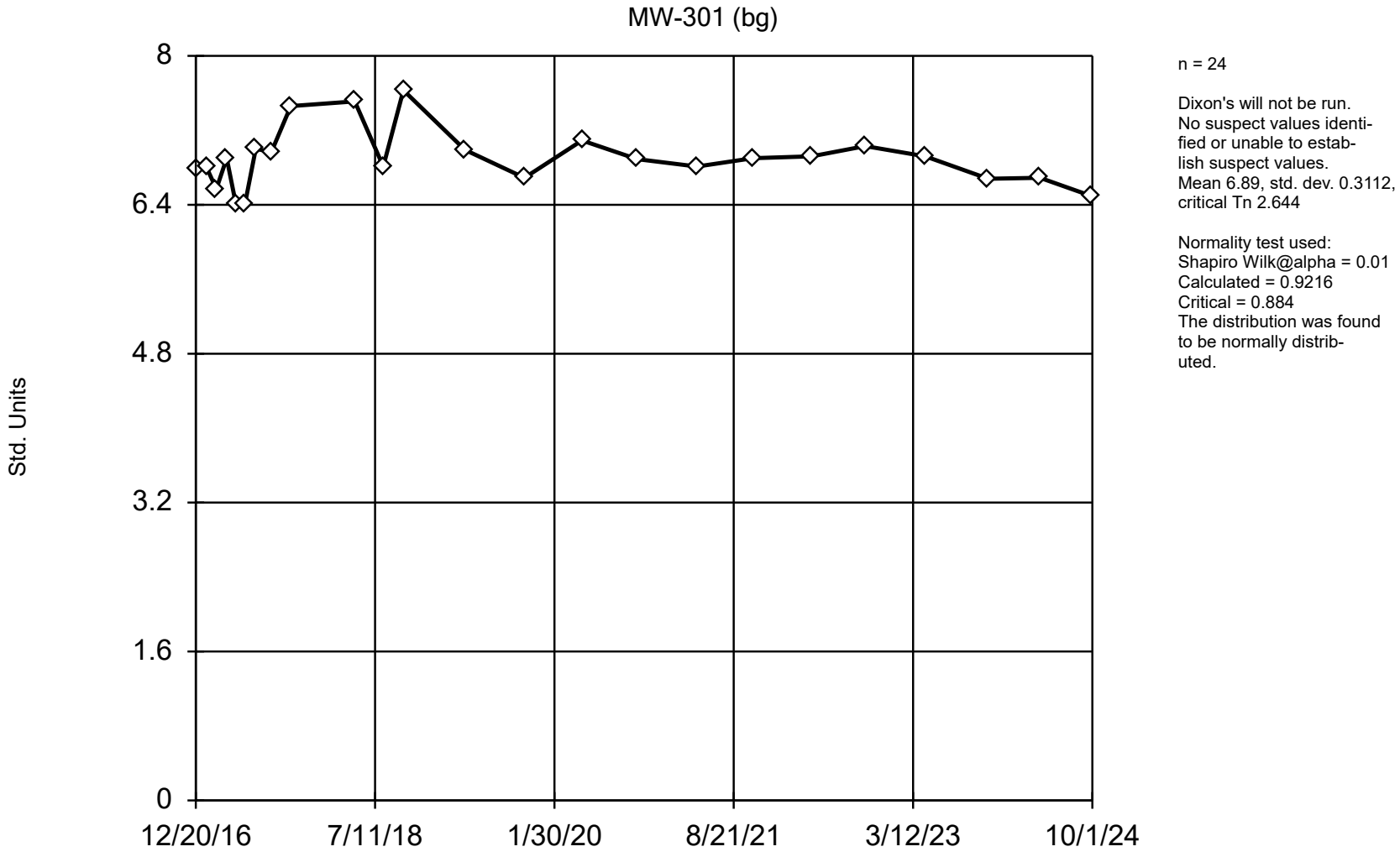
Constituent: Cobalt (ug/L) Analysis Run 2/3/2025 8:28 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-302 (bg)
12/20/2016	2.7
1/23/2017	2.2
2/23/2017	3
3/28/2017	4.7
4/26/2017	2.1
5/25/2017	2.1
6/28/2017	1.2
8/17/2017	1.4
5/8/2018	3.2
8/6/2018	1.6
10/9/2018	3.2
4/22/2019	2.1
10/28/2019	1.2
4/27/2020	0.56
10/19/2020	0.33 (J)
4/27/2021	0.37 (J)
10/21/2021	<0.19 (U)
4/25/2022	31 (X)
10/12/2022	0.21 (J)
4/20/2023	1.5 (J)
11/7/2023	<0.17 (U)
4/17/2024	0.38 (J)
10/1/2024	4.2

ND substitution: RL or RL/2 if <15% NDs.

EPA Screening (suspected outliers for Dixon's Test)



Constituent: Field pH Analysis Run 2/3/2025 8:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

EPA 1989 Outlier Screening

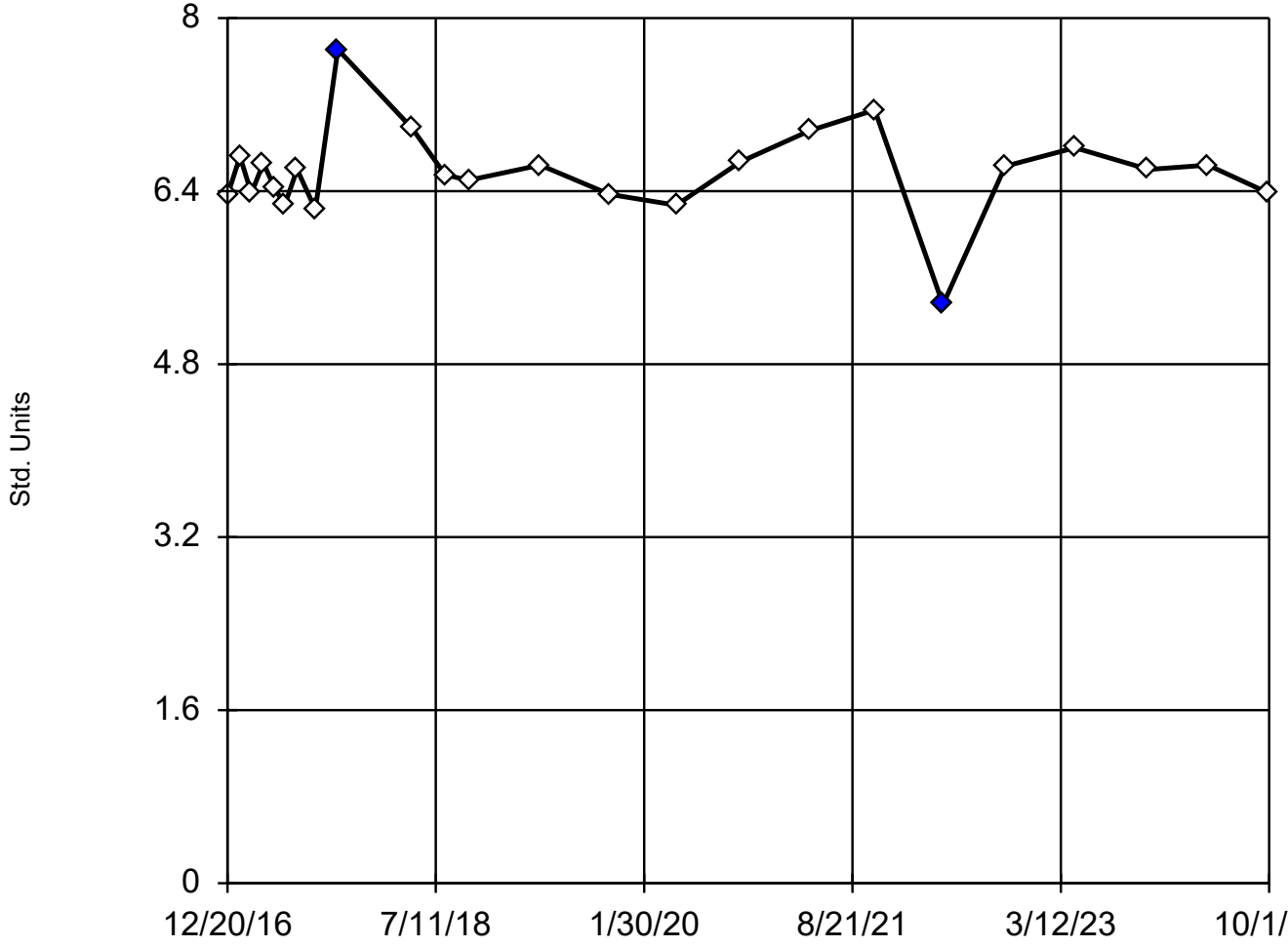
Constituent: Field pH (Std. Units) Analysis Run 2/3/2025 8:28 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)
12/20/2016	6.78
1/23/2017	6.8
2/23/2017	6.57
3/28/2017	6.9
4/26/2017	6.41
5/25/2017	6.41
6/28/2017	7
8/17/2017	6.97
10/17/2017	7.46
5/8/2018	7.51
8/6/2018	6.81
10/9/2018	7.63
4/22/2019	6.99
10/28/2019	6.69
4/27/2020	7.09
10/19/2020	6.89
4/27/2021	6.81
10/21/2021	6.9
4/25/2022	6.92
10/12/2022	7.03
4/20/2023	6.92
11/6/2023	6.68
4/18/2024	6.69
10/1/2024	6.49

Dixon's Outlier Test

MW-302 (bg)



n = 24

Statistical outliers are drawn as solid.
Testing for 1 high and 1 low outliers.
Mean = 6.578.
Std. Dev. = 0.4184.
7.71 (X): c = 0.5069
tabl = 0.413.
5.35 (X): c = 0.5644
tabl = 0.413.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9477
Critical = 0.878
The distribution, after removal of suspect values, was found to be normally distributed.

Constituent: Field pH Analysis Run 2/3/2025 8:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

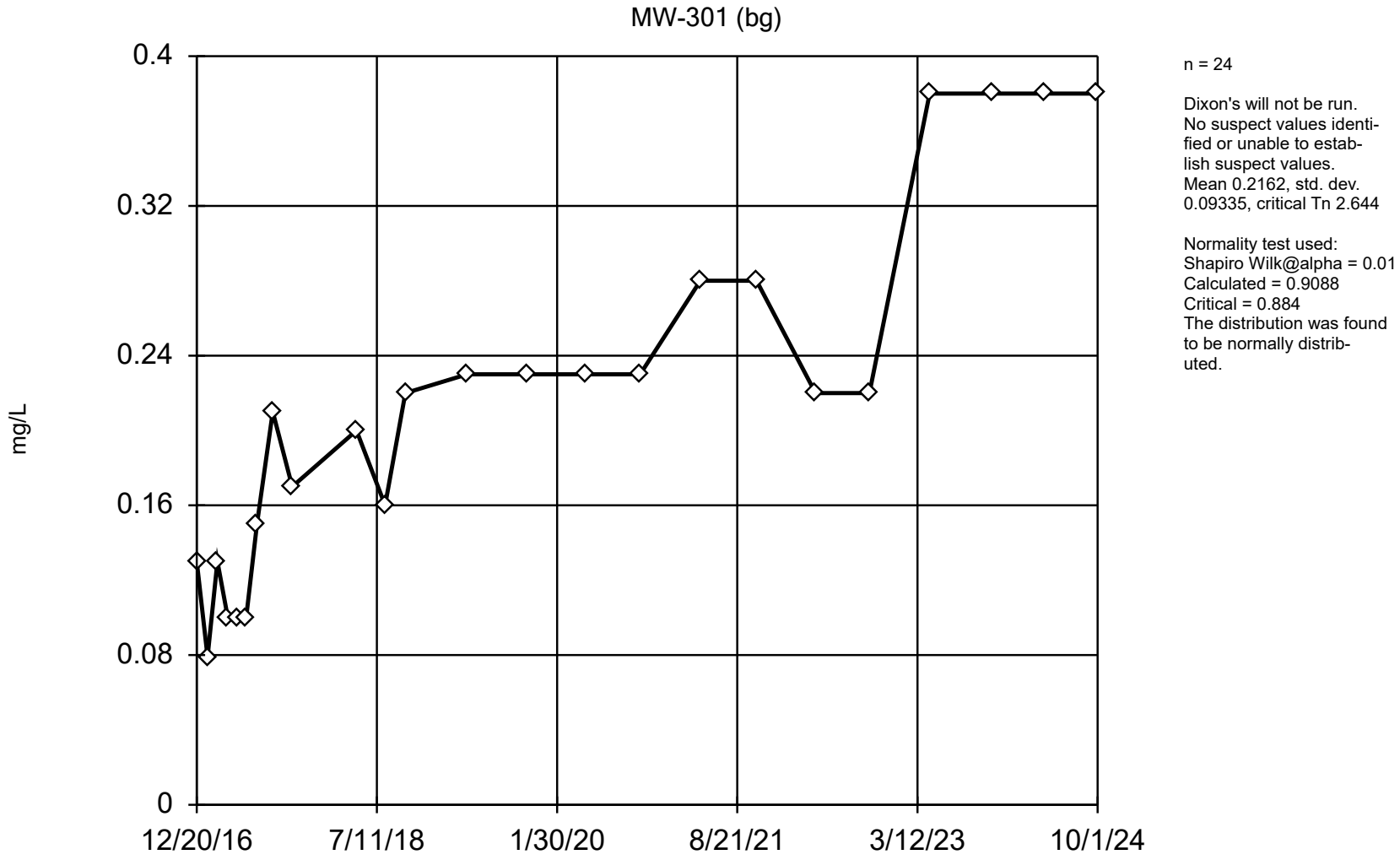
Dixon's Outlier Test

Constituent: Field pH (Std. Units) Analysis Run 2/3/2025 8:28 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-302 (bg)
12/20/2016	6.36
1/23/2017	6.72
2/23/2017	6.38
3/28/2017	6.66
4/26/2017	6.44
5/25/2017	6.27
6/28/2017	6.6
8/17/2017	6.23
10/17/2017	7.71 (XO)
5/8/2018	6.98
8/6/2018	6.55
10/9/2018	6.5
4/22/2019	6.64
10/28/2019	6.37
4/27/2020	6.27
10/19/2020	6.67
4/27/2021	6.96
10/21/2021	7.15
4/25/2022	5.35 (XO)
10/12/2022	6.63
4/20/2023	6.8
11/7/2023	6.6
4/17/2024	6.64
10/1/2024	6.38

EPA Screening (suspected outliers for Dixon's Test)



n = 24

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.2162, std. dev. 0.09335, critical Tn 2.644

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9088
Critical = 0.884
The distribution was found to be normally distributed.

Constituent: Fluoride Analysis Run 2/3/2025 8:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

EPA 1989 Outlier Screening

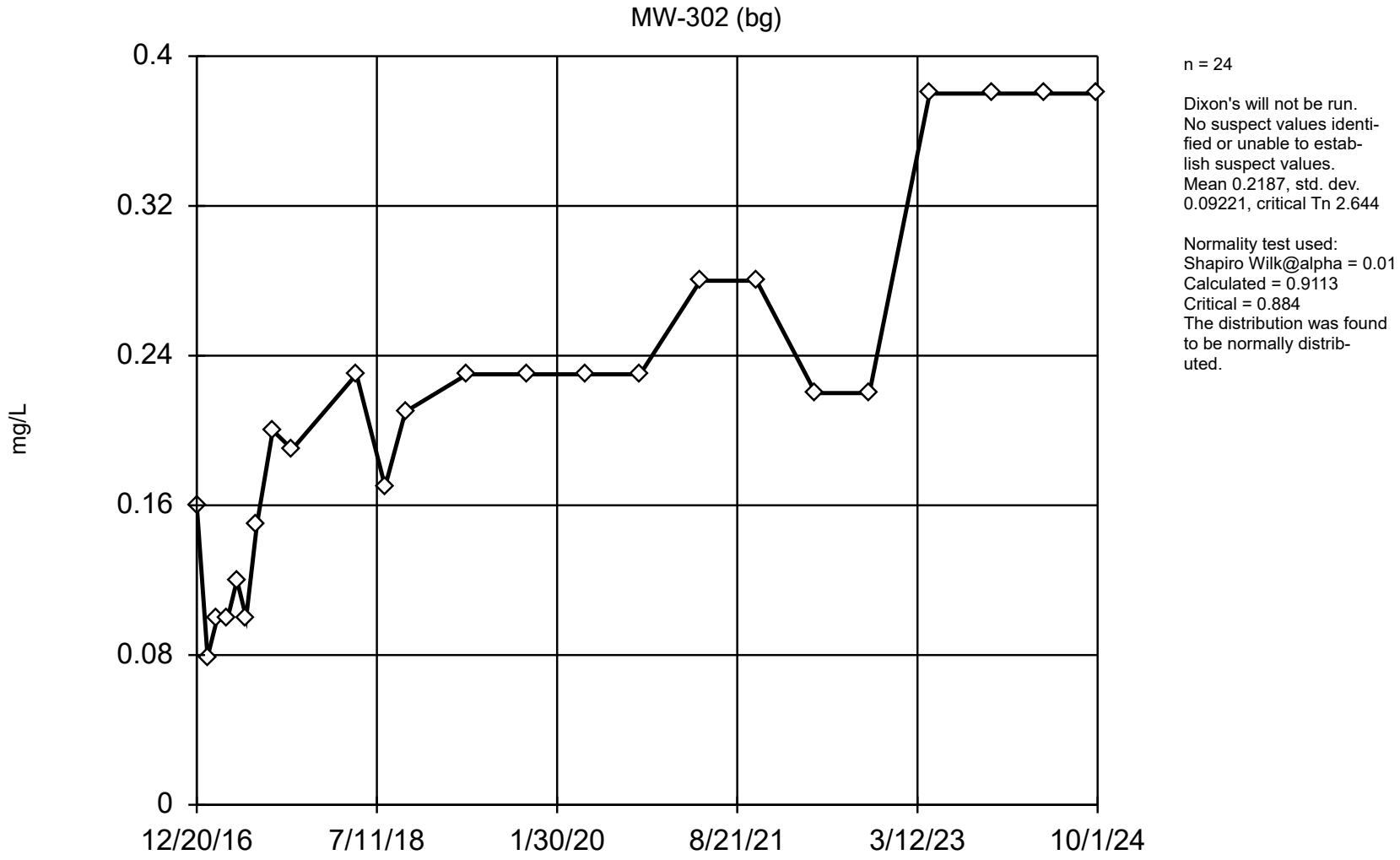
Constituent: Fluoride (mg/L) Analysis Run 2/3/2025 8:28 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)
12/20/2016	0.13 (J)
1/23/2017	0.079 (J)
2/23/2017	0.13 (J)
3/28/2017	0.1 (J)
4/26/2017	0.1 (J)
5/25/2017	<0.1 (U)
6/28/2017	0.15 (J)
8/17/2017	0.21
10/17/2017	0.17 (J)
5/8/2018	0.2 (J)
8/6/2018	0.16 (J)
10/9/2018	0.22
4/22/2019	<0.23 (U)
10/28/2019	<0.23 (U)
4/27/2020	<0.23 (U)
10/19/2020	<0.23 (U)
4/27/2021	<0.28 (U)
10/21/2021	<0.28 (U)
4/25/2022	<0.22 (U)
10/12/2022	<0.22 (U)
4/20/2023	<0.38 (U)
11/6/2023	<0.38 (U)
4/18/2024	<0.38
10/1/2024	<0.38

ND substitution: RL or RL/2 if <15% NDs.

EPA Screening (suspected outliers for Dixon's Test)



Constituent: Fluoride Analysis Run 2/3/2025 8:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

EPA 1989 Outlier Screening

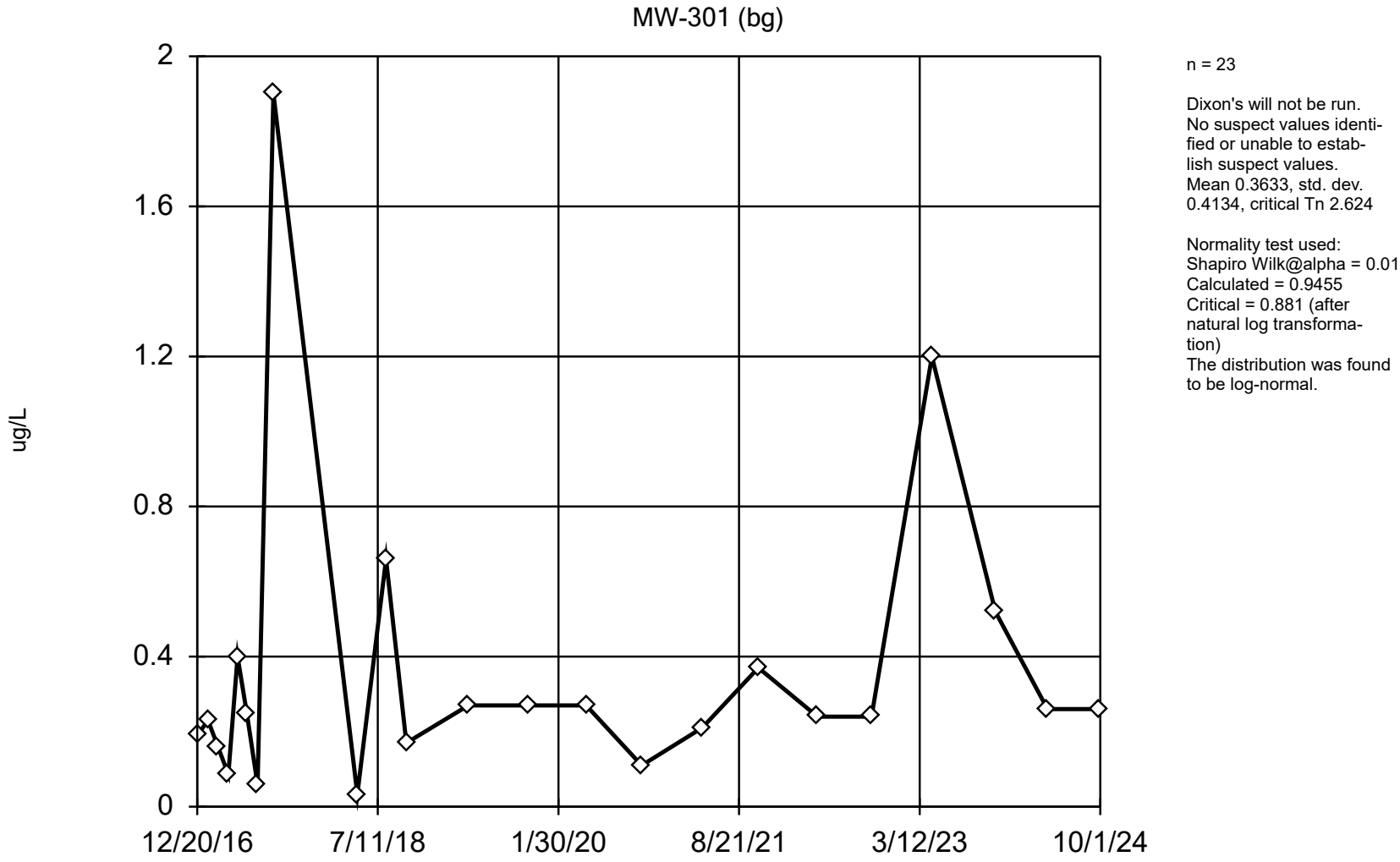
Constituent: Fluoride (mg/L) Analysis Run 2/3/2025 8:28 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-302 (bg)
12/20/2016	0.16 (J)
1/23/2017	0.079 (J)
2/23/2017	0.1 (J)
3/28/2017	<0.1 (U)
4/26/2017	0.12 (J)
5/25/2017	<0.1 (U)
6/28/2017	0.15 (J)
8/17/2017	0.2 (J)
10/17/2017	0.19 (J)
5/8/2018	0.23
8/6/2018	0.17 (J)
10/9/2018	0.21
4/22/2019	<0.23 (U)
10/28/2019	<0.23 (U)
4/27/2020	<0.23 (U)
10/19/2020	<0.23 (U)
4/27/2021	<0.28 (U)
10/21/2021	<0.28 (U)
4/25/2022	<0.22 (U)
10/12/2022	<0.22 (U)
4/20/2023	<0.38 (U)
11/7/2023	<0.38 (U)
4/17/2024	<0.38
10/1/2024	<0.38

ND substitution: RL or RL/2 if <15% NDs.

EPA Screening (suspected outliers for Dixon's Test)



n = 23

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.3633, std. dev. 0.4134, critical Tn 2.624

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9455
Critical = 0.881 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Lead Analysis Run 2/3/2025 8:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

EPA 1989 Outlier Screening

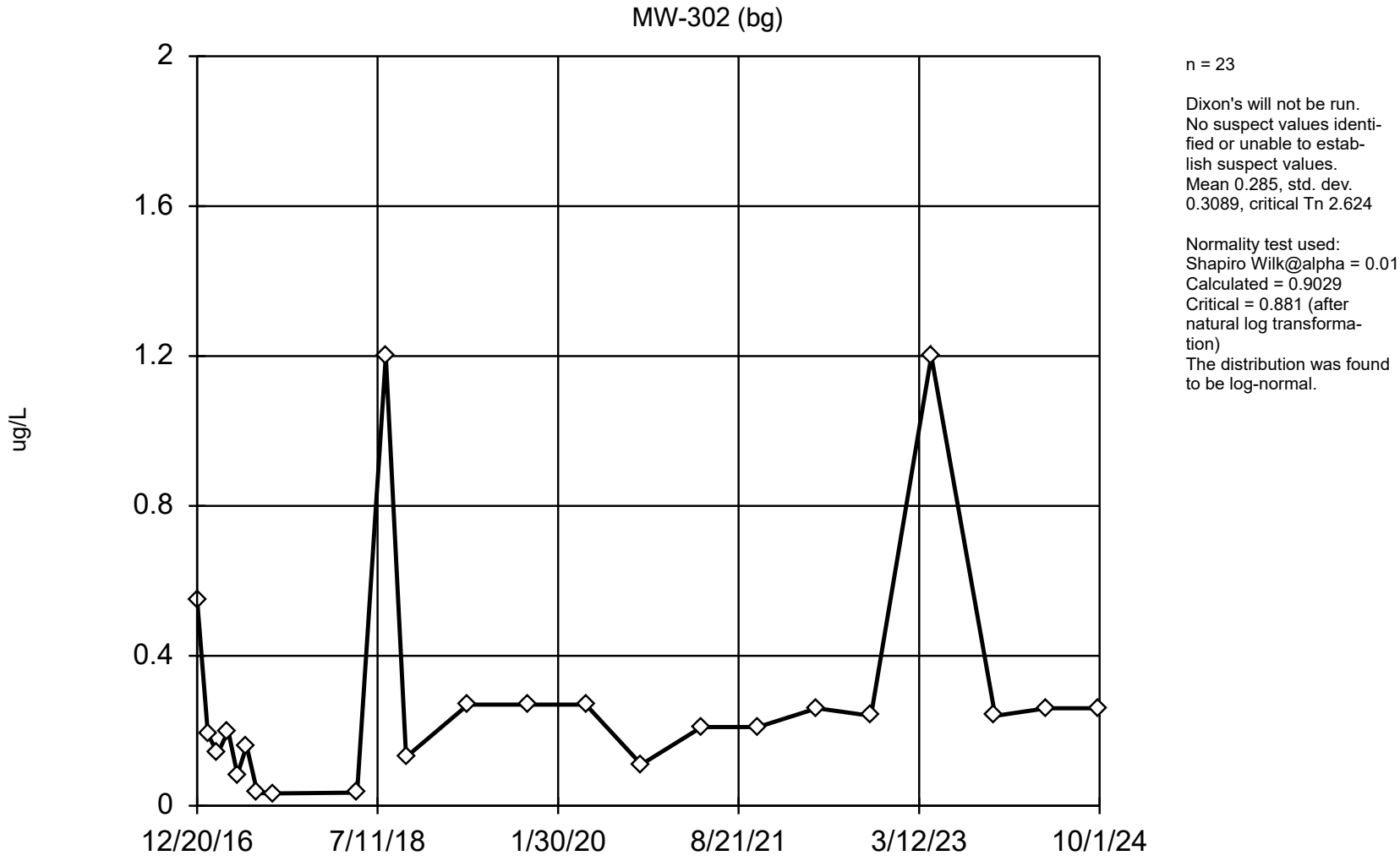
Constituent: Lead (ug/L) Analysis Run 2/3/2025 8:28 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)
12/20/2016	<0.19 (U)
1/23/2017	0.23 (J)
2/23/2017	0.16 (J)
3/28/2017	0.086 (J)
4/26/2017	0.4 (J)
5/25/2017	0.25 (J)
6/28/2017	0.058 (J)
8/17/2017	1.9
5/8/2018	<0.033 (U)
8/6/2018	0.66 (J)
10/9/2018	0.17 (J)
4/22/2019	<0.27 (U)
10/28/2019	<0.27 (U)
4/27/2020	0.27 (J)
10/19/2020	<0.11 (U)
4/27/2021	<0.21 (U)
10/21/2021	0.37 (J)
4/25/2022	<0.24 (U)
10/12/2022	<0.24 (U)
4/20/2023	<1.2 (U)
11/6/2023	0.52
4/18/2024	<0.26
10/1/2024	<0.26

ND substitution: RL or RL/2 if <15% NDs.

EPA Screening (suspected outliers for Dixon's Test)



n = 23

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Mean 0.285, std. dev. 0.3089, critical Tn 2.624

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9029
Critical = 0.881 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Lead Analysis Run 2/3/2025 8:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

EPA 1989 Outlier Screening

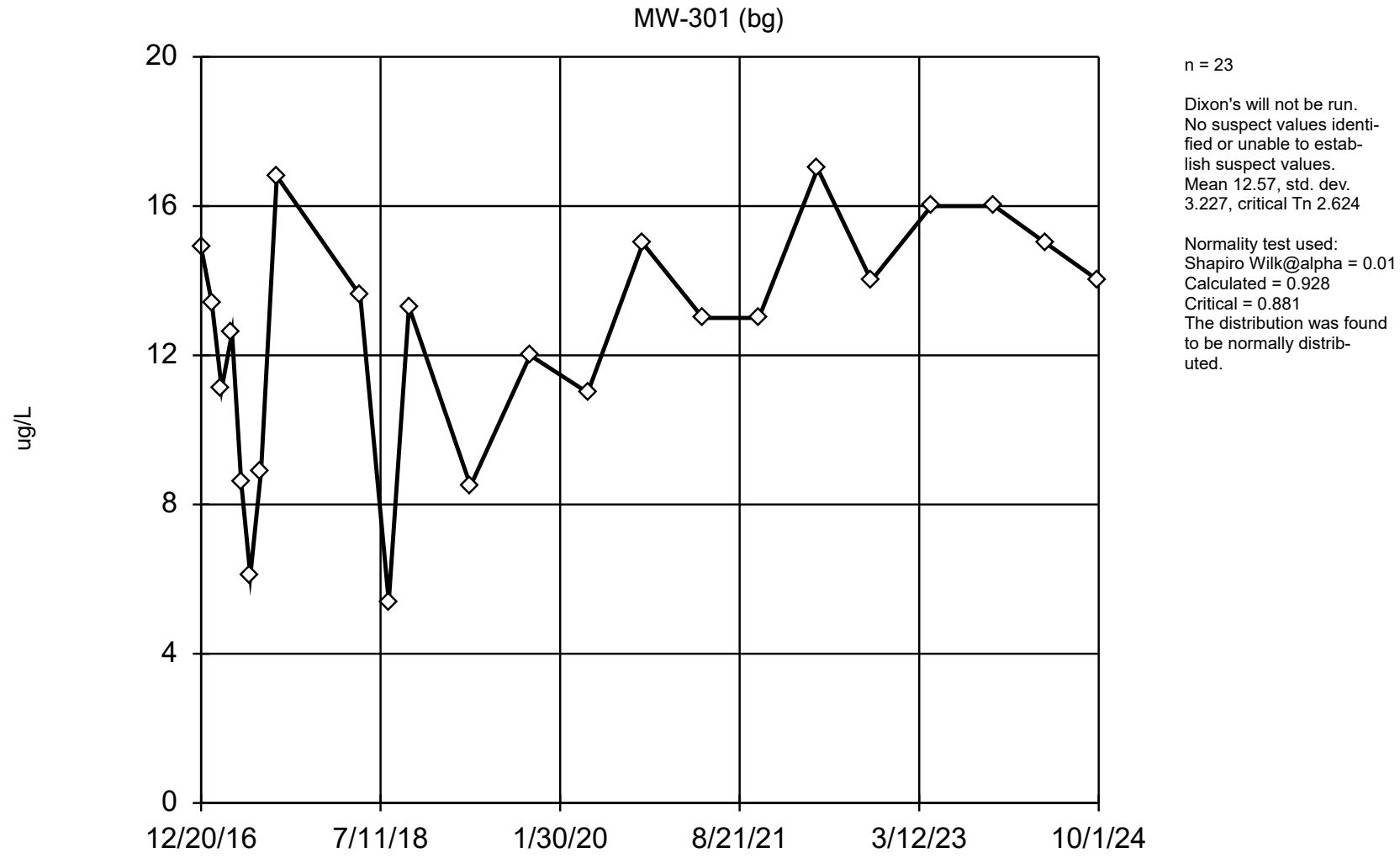
Constituent: Lead (ug/L) Analysis Run 2/3/2025 8:28 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-302 (bg)
12/20/2016	0.55 (J)
1/23/2017	<0.19 (U)
2/23/2017	0.14 (J)
3/28/2017	0.2 (J)
4/26/2017	0.083 (J)
5/25/2017	0.16 (J)
6/28/2017	0.034 (J)
8/17/2017	<0.033 (U)
5/8/2018	0.035 (J)
8/6/2018	1.2
10/9/2018	0.13 (J)
4/22/2019	<0.27 (U)
10/28/2019	<0.27 (U)
4/27/2020	<0.27 (U)
10/19/2020	<0.11 (U)
4/27/2021	<0.21 (U)
10/21/2021	<0.21 (U)
4/25/2022	0.26 (J)
10/12/2022	<0.24 (U)
4/20/2023	<1.2 (U)
11/7/2023	<0.24 (U)
4/17/2024	<0.26
10/1/2024	0.26 (J)

ND substitution: RL or RL/2 if <15% NDs.

EPA Screening (suspected outliers for Dixon's Test)



Constituent: Lithium Analysis Run 2/3/2025 8:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

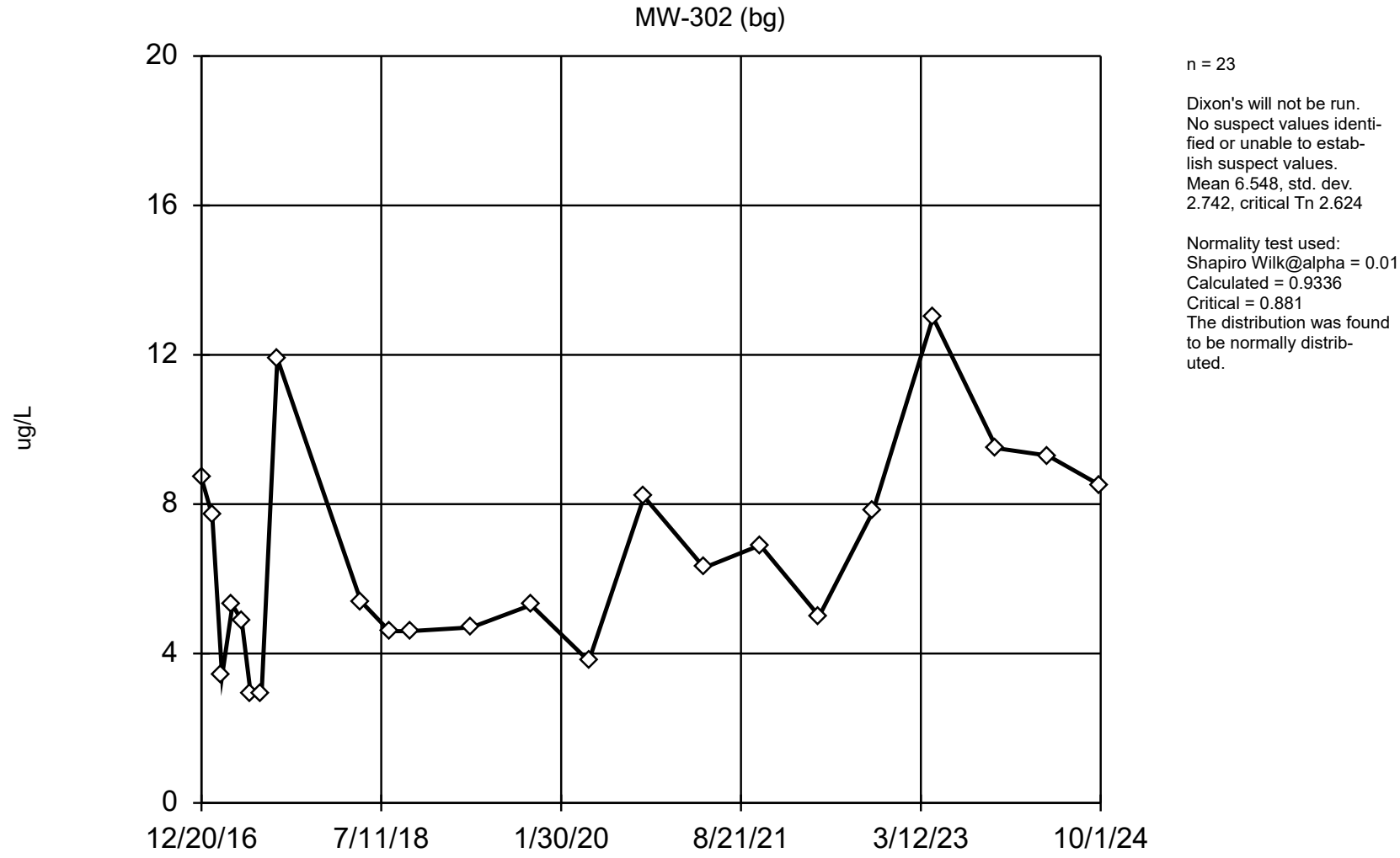
EPA 1989 Outlier Screening

Constituent: Lithium (ug/L) Analysis Run 2/3/2025 8:28 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)
12/20/2016	14.9
1/23/2017	13.4
2/23/2017	11.1
3/28/2017	12.6
4/26/2017	8.6 (J)
5/25/2017	6.1 (J)
6/28/2017	8.9 (J)
8/17/2017	16.8
5/8/2018	13.6
8/6/2018	5.4 (J)
10/9/2018	13.3
4/22/2019	8.5 (J)
10/28/2019	12
4/27/2020	11
10/19/2020	15
4/27/2021	13
10/21/2021	13
4/25/2022	17
10/12/2022	14
4/20/2023	16 (J)
11/6/2023	16
4/18/2024	15
10/1/2024	14

EPA Screening (suspected outliers for Dixon's Test)



Constituent: Lithium Analysis Run 2/3/2025 8:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

EPA 1989 Outlier Screening

Constituent: Lithium (ug/L) Analysis Run 2/3/2025 8:28 AM View: PCS

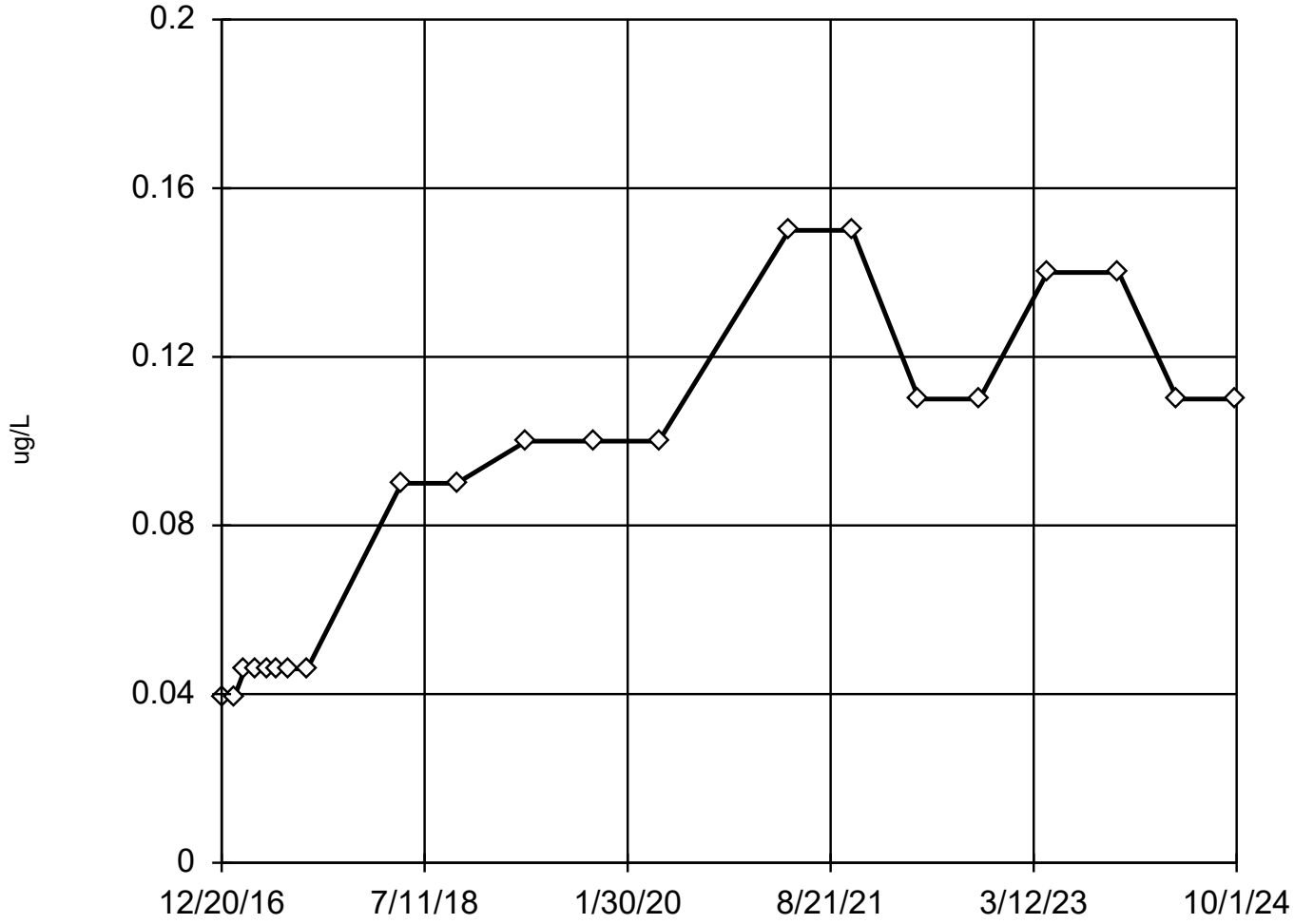
Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-302 (bg)
12/20/2016	8.7 (J)
1/23/2017	7.7 (J)
2/23/2017	3.4 (J)
3/28/2017	5.3 (J)
4/26/2017	4.9 (J)
5/25/2017	<2.9 (U)
6/28/2017	<2.9 (U)
8/17/2017	11.9
5/8/2018	5.4 (J)
8/6/2018	<4.6 (U)
10/9/2018	4.6 (J)
4/22/2019	4.7 (J)
10/28/2019	5.3 (J)
4/27/2020	3.8 (J)
10/19/2020	8.2 (J)
4/27/2021	6.3 (J)
10/21/2021	6.9 (J)
4/25/2022	5 (J)
10/12/2022	7.8 (J)
4/20/2023	<13 (U)
11/7/2023	9.5 (J)
4/17/2024	9.3 (J)
10/1/2024	8.5 (J)

ND substitution: RL or RL/2 if <15% NDs.

Tukey's Outlier Screening

MW-301 (bg)



n = 21

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Mercury Analysis Run 2/3/2025 8:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Tukey's Outlier Screening

Constituent: Mercury (ug/L) Analysis Run 2/3/2025 8:28 AM View: PCS

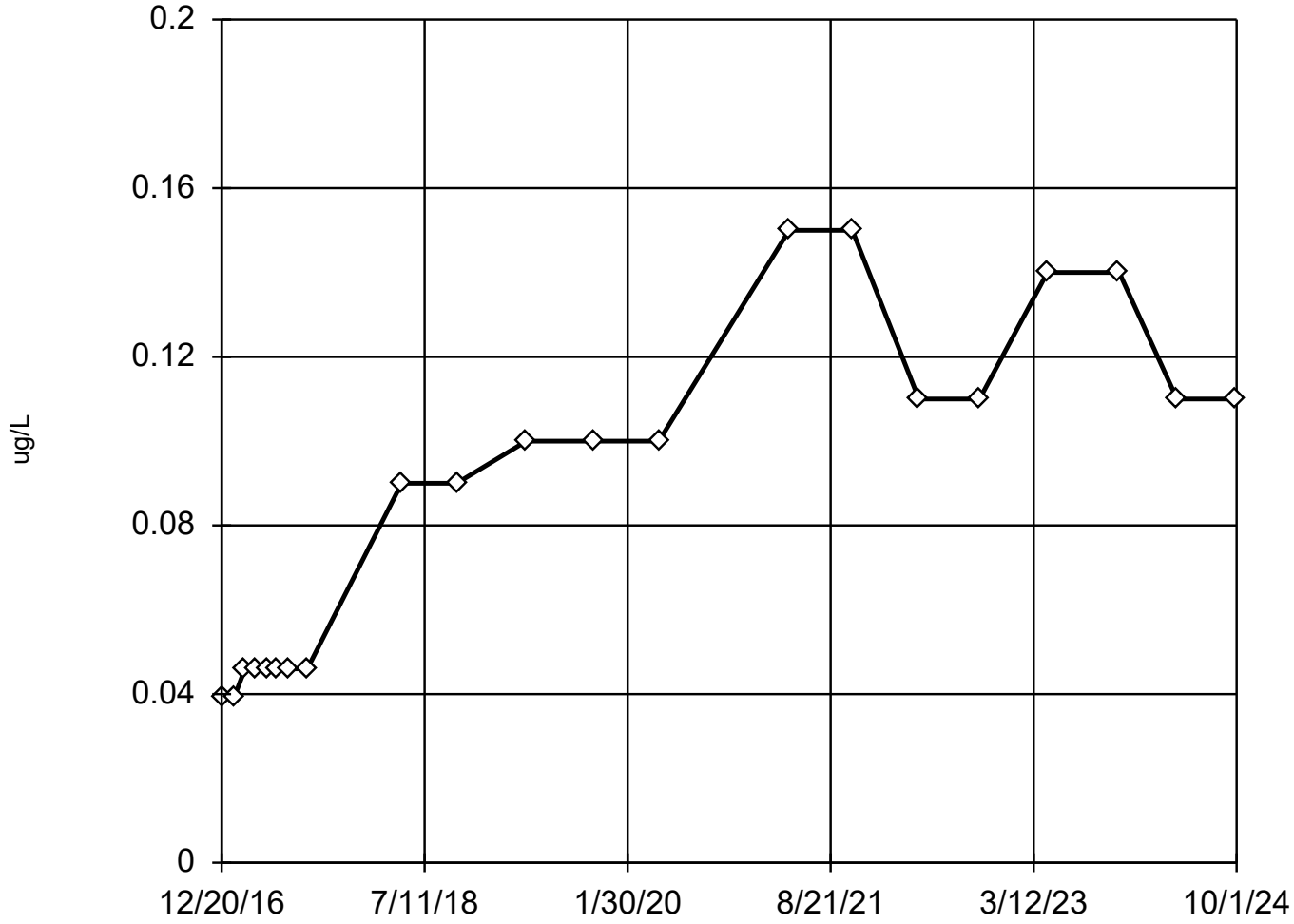
Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)
12/20/2016	<0.039 (U)
1/23/2017	<0.039 (U)
2/23/2017	<0.046 (U)
3/28/2017	<0.046 (U)
4/26/2017	<0.046 (U)
5/25/2017	<0.046 (U)
6/28/2017	<0.046 (U)
8/17/2017	<0.046 (U)
5/8/2018	<0.09 (U)
10/9/2018	<0.09 (U)
4/22/2019	<0.1 (U)
10/28/2019	<0.1 (U)
4/27/2020	<0.1 (U)
4/27/2021	<0.15 (U)
10/21/2021	<0.15 (U)
4/25/2022	<0.11 (U)
10/12/2022	<0.11 (U)
4/20/2023	<0.14 (U)
11/6/2023	<0.14 (U)
4/18/2024	<0.11
10/1/2024	<0.11

ND substitution: RL or RL/2 if <15% NDs.

Tukey's Outlier Screening

MW-302 (bg)



n = 21

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Mercury Analysis Run 2/3/2025 8:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Tukey's Outlier Screening

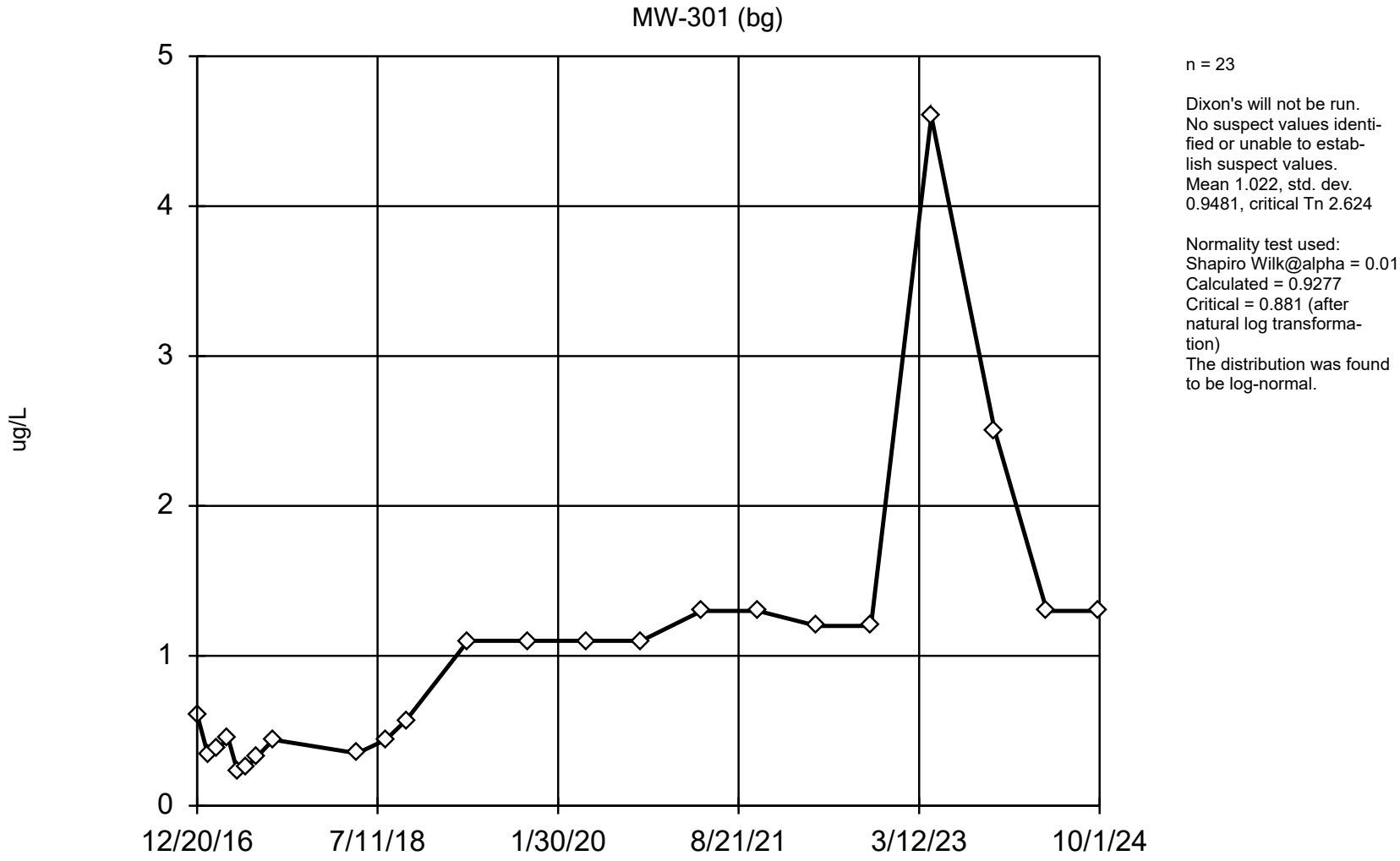
Constituent: Mercury (ug/L) Analysis Run 2/3/2025 8:28 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-302 (bg)
12/20/2016	<0.039 (U)
1/23/2017	<0.039 (U)
2/23/2017	<0.046 (U)
3/28/2017	<0.046 (U)
4/26/2017	<0.046 (U)
5/25/2017	<0.046 (U)
6/28/2017	<0.046 (U)
8/17/2017	<0.046 (U)
5/8/2018	<0.09 (U)
10/9/2018	<0.09 (U)
4/22/2019	<0.1 (U)
10/28/2019	<0.1 (U)
4/27/2020	<0.1 (U)
4/27/2021	<0.15 (U)
10/21/2021	<0.15 (U)
4/25/2022	<0.11 (U)
10/12/2022	<0.11 (U)
4/20/2023	<0.14 (U)
11/7/2023	<0.14 (U)
4/17/2024	<0.11
10/1/2024	<0.11

ND substitution: RL or RL/2 if <15% NDs.

EPA Screening (suspected outliers for Dixon's Test)



Constituent: Molybdenum Analysis Run 2/3/2025 8:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

EPA 1989 Outlier Screening

Constituent: Molybdenum (ug/L) Analysis Run 2/3/2025 8:28 AM View: PCS

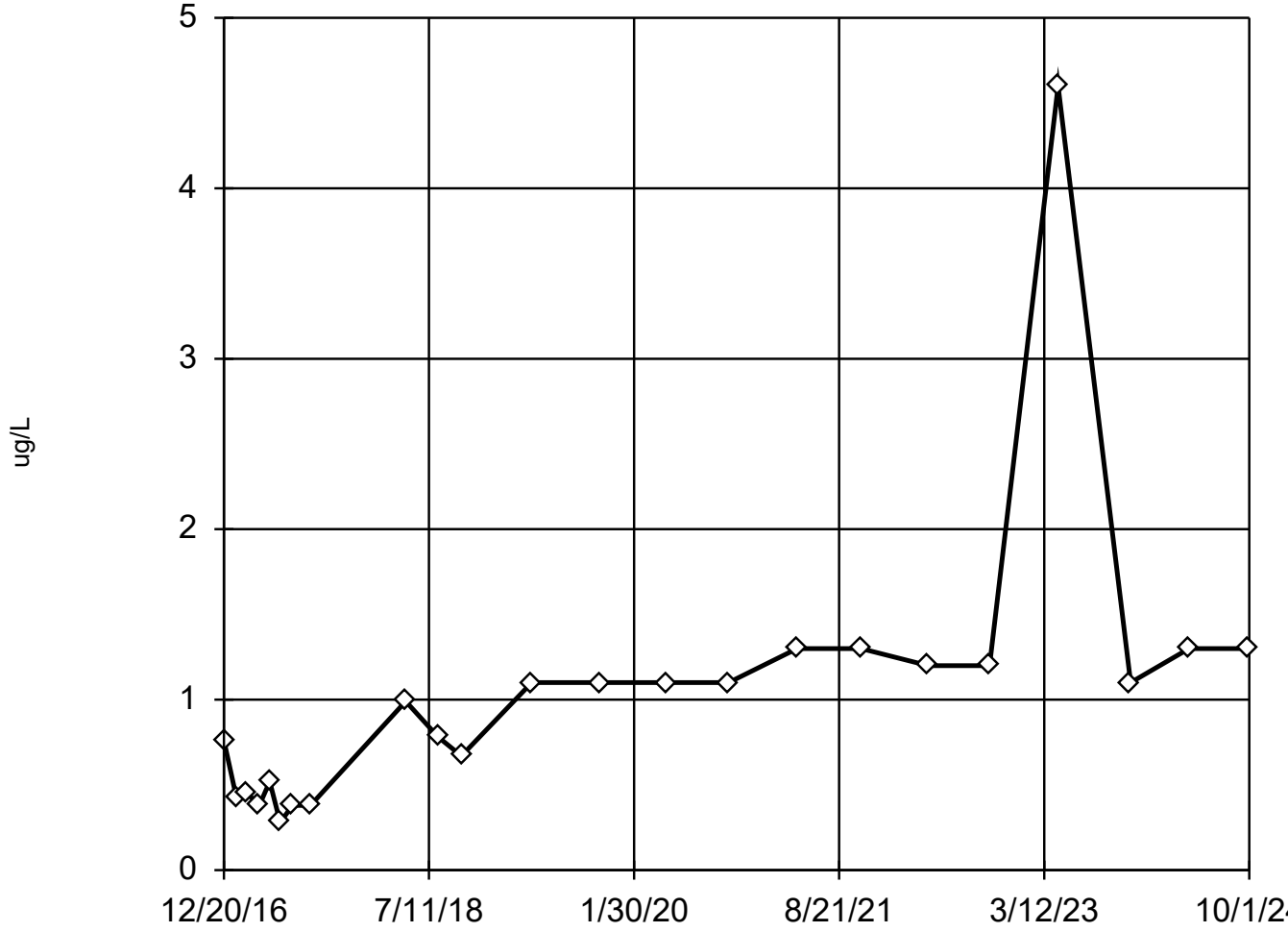
Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)
12/20/2016	0.61 (J)
1/23/2017	0.34 (J)
2/23/2017	0.38 (J)
3/28/2017	0.45 (J)
4/26/2017	0.23 (J)
5/25/2017	0.26 (J)
6/28/2017	0.33 (J)
8/17/2017	0.44 (J)
5/8/2018	0.35 (J)
8/6/2018	0.44 (J)
10/9/2018	<0.57 (U)
4/22/2019	<1.1 (U)
10/28/2019	<1.1 (U)
4/27/2020	<1.1 (U)
10/19/2020	<1.1 (U)
4/27/2021	<1.3 (U)
10/21/2021	<1.3 (U)
4/25/2022	<1.2 (U)
10/12/2022	<1.2 (U)
4/20/2023	<4.6 (U)
11/6/2023	2.5
4/18/2024	<1.3
10/1/2024	<1.3

ND substitution: RL or RL/2 if <15% NDs.

Tukey's Outlier Screening

MW-302 (bg)



n = 23

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 22.76, low cutoff = 0.02373, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 2/3/2025 8:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Tukey's Outlier Screening

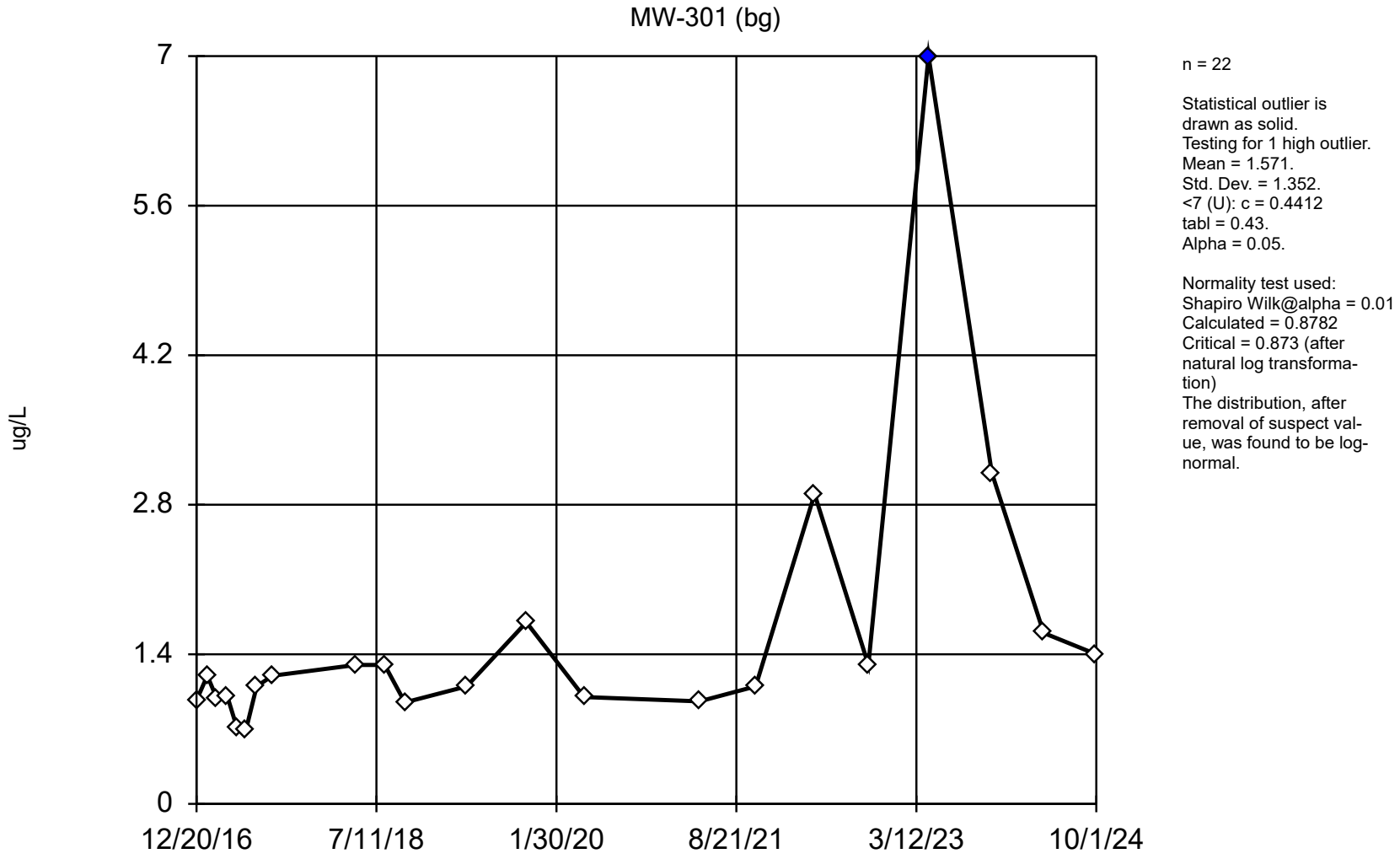
Constituent: Molybdenum (ug/L) Analysis Run 2/3/2025 8:29 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-302 (bg)
12/20/2016	0.76 (J)
1/23/2017	0.43 (J)
2/23/2017	0.45 (J)
3/28/2017	0.38 (J)
4/26/2017	0.52 (J)
5/25/2017	0.28 (J)
6/28/2017	0.38 (J)
8/17/2017	0.38 (J)
5/8/2018	0.99 (J)
8/6/2018	0.78 (J)
10/9/2018	0.67 (J)
4/22/2019	<1.1 (U)
10/28/2019	<1.1 (U)
4/27/2020	<1.1 (U)
10/19/2020	<1.1 (U)
4/27/2021	<1.3 (U)
10/21/2021	<1.3 (U)
4/25/2022	<1.2 (U)
10/12/2022	<1.2 (U)
4/20/2023	<4.6 (U)
11/7/2023	1.1 (J)
4/17/2024	<1.3
10/1/2024	<1.3

ND substitution: RL or RL/2 if <15% NDs.

Dixon's Outlier Test



n = 22

Statistical outlier is drawn as solid.
Testing for 1 high outlier.
Mean = 1.571.
Std. Dev. = 1.352.
<7 (U): c = 0.4412
tabl = 0.43.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8782
Critical = 0.873 (after natural log transformation)
The distribution, after removal of suspect value, was found to be log-normal.

Constituent: Selenium Analysis Run 2/3/2025 8:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Dixon's Outlier Test

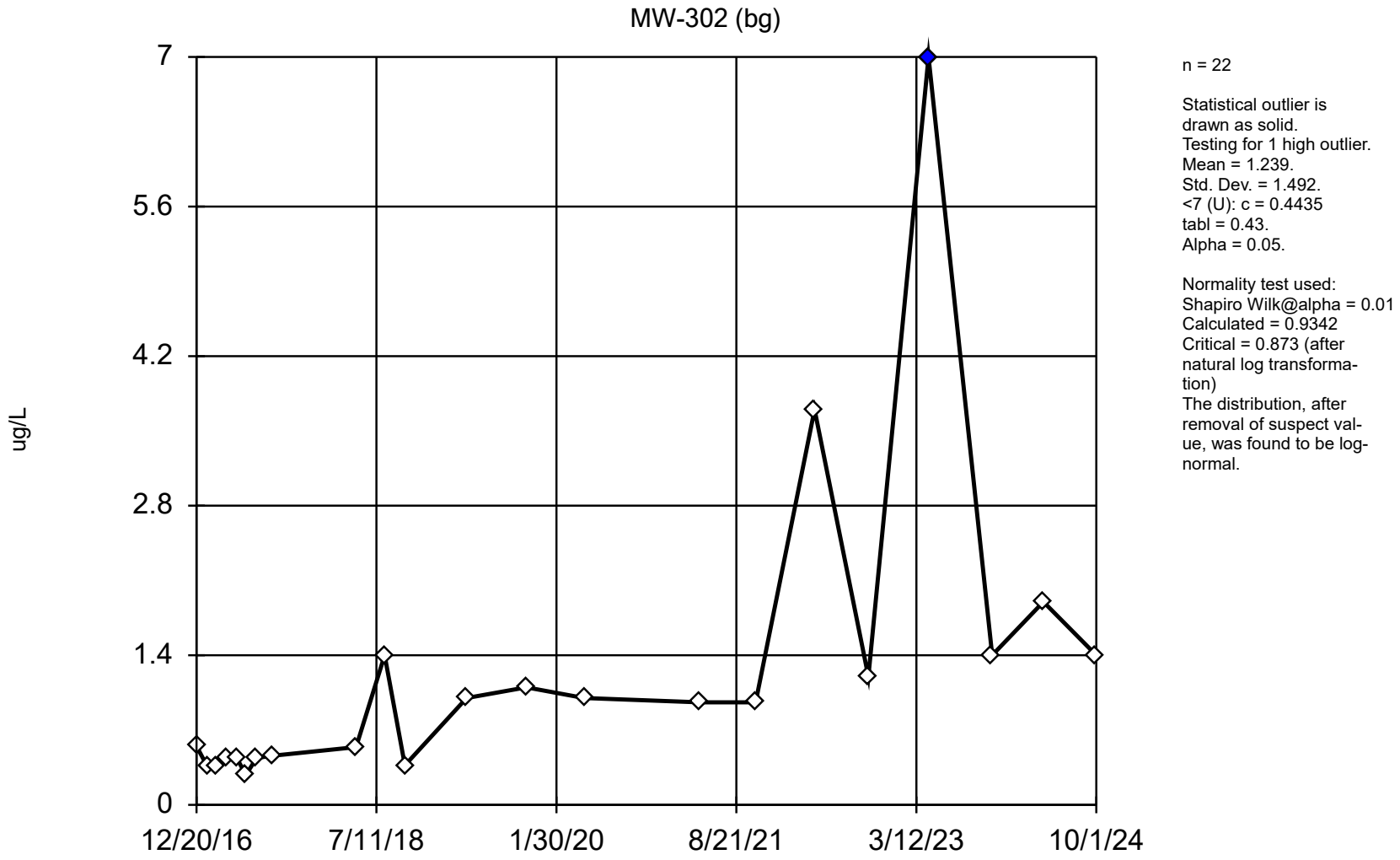
Constituent: Selenium (ug/L) Analysis Run 2/3/2025 8:29 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)
12/20/2016	0.97 (J)
1/23/2017	1.2
2/23/2017	0.98 (J)
3/28/2017	1
4/26/2017	0.72 (J)
5/25/2017	0.69 (J)
6/28/2017	1.1
8/17/2017	1.2
5/8/2018	1.3
8/6/2018	1.3
10/9/2018	0.95 (J)
4/22/2019	1.1 (J)
10/28/2019	1.7 (J)
4/27/2020	<1 (U)
4/27/2021	<0.96 (U)
10/21/2021	1.1 (J)
4/25/2022	2.9 (J)
10/12/2022	1.3 (J)
4/20/2023	<7 (UO)
11/6/2023	3.1 (J)
4/18/2024	1.6 (J)
10/1/2024	<1.4

ND substitution: RL or RL/2 if <15% NDs.

Dixon's Outlier Test



Constituent: Selenium Analysis Run 2/3/2025 8:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Dixon's Outlier Test

Constituent: Selenium (ug/L) Analysis Run 2/3/2025 8:29 AM View: PCS

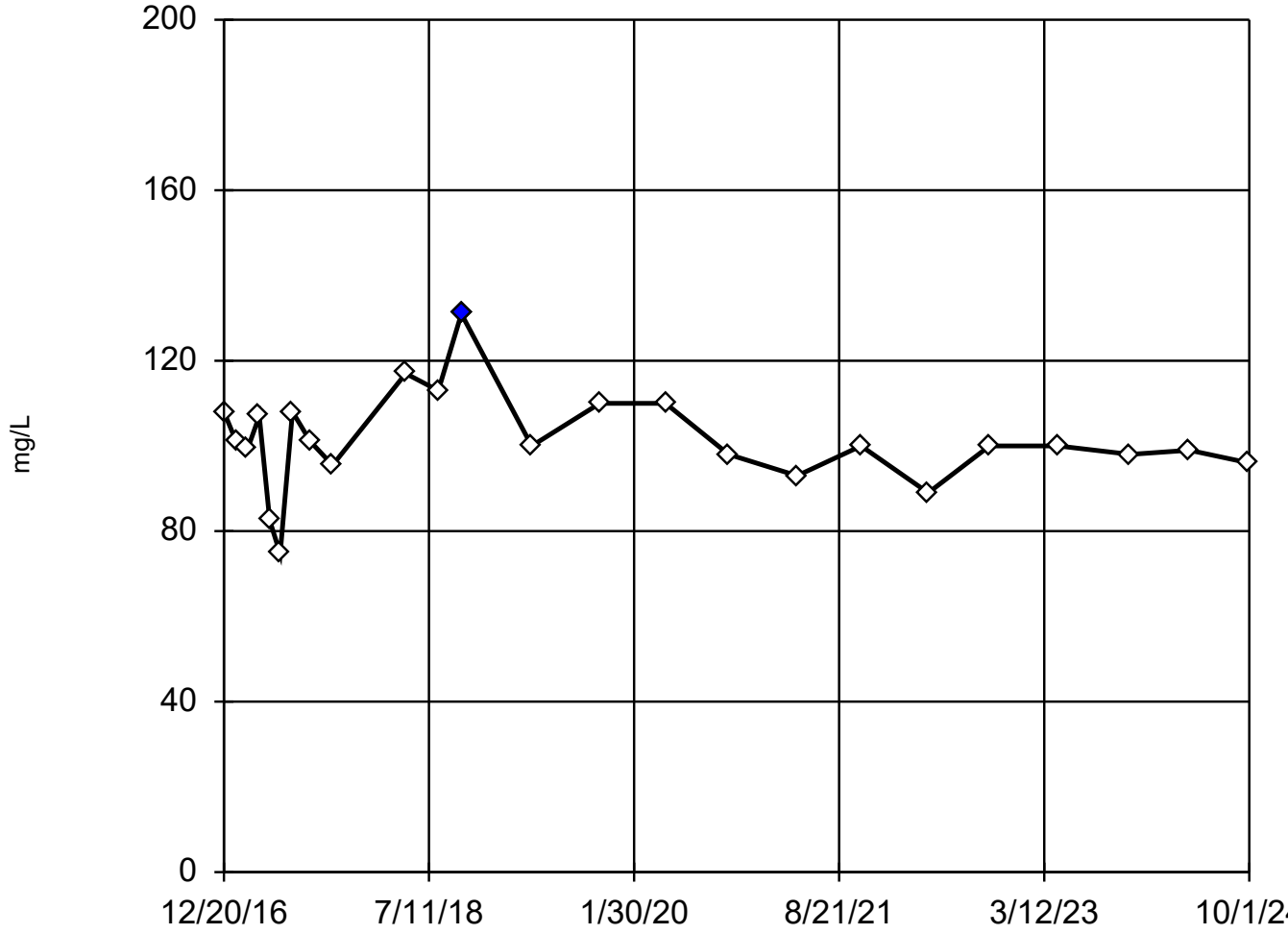
Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-302 (bg)
12/20/2016	0.55 (J)
1/23/2017	0.36 (J)
2/23/2017	0.37 (J)
3/28/2017	0.43 (J)
4/26/2017	0.44 (J)
5/25/2017	0.28 (J)
6/28/2017	0.44 (J)
8/17/2017	0.46 (J)
5/8/2018	0.54 (J)
8/6/2018	1.4
10/9/2018	0.37 (J)
4/22/2019	<1 (U)
10/28/2019	1.1 (J)
4/27/2020	<1 (U)
4/27/2021	0.96 (J)
10/21/2021	<0.96 (U)
4/25/2022	3.7 (J)
10/12/2022	1.2 (J)
4/20/2023	<7 (UO)
11/7/2023	<1.4 (U)
4/17/2024	1.9 (J)
10/1/2024	<1.4

ND substitution: RL or RL/2 if <15% NDs.

Dixon's Outlier Test

MW-301 (bg)



n = 24

Statistical outlier is drawn as solid.
Testing for 1 high and 1 low outliers.
Mean = 101.3.
Std. Dev. = 11.27.
131: c = 0.4286
tabl = 0.413.
74.7: c = 0.3734
tabl = 0.413.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9609
Critical = 0.878
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Sulfate Analysis Run 2/3/2025 8:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Dixon's Outlier Test

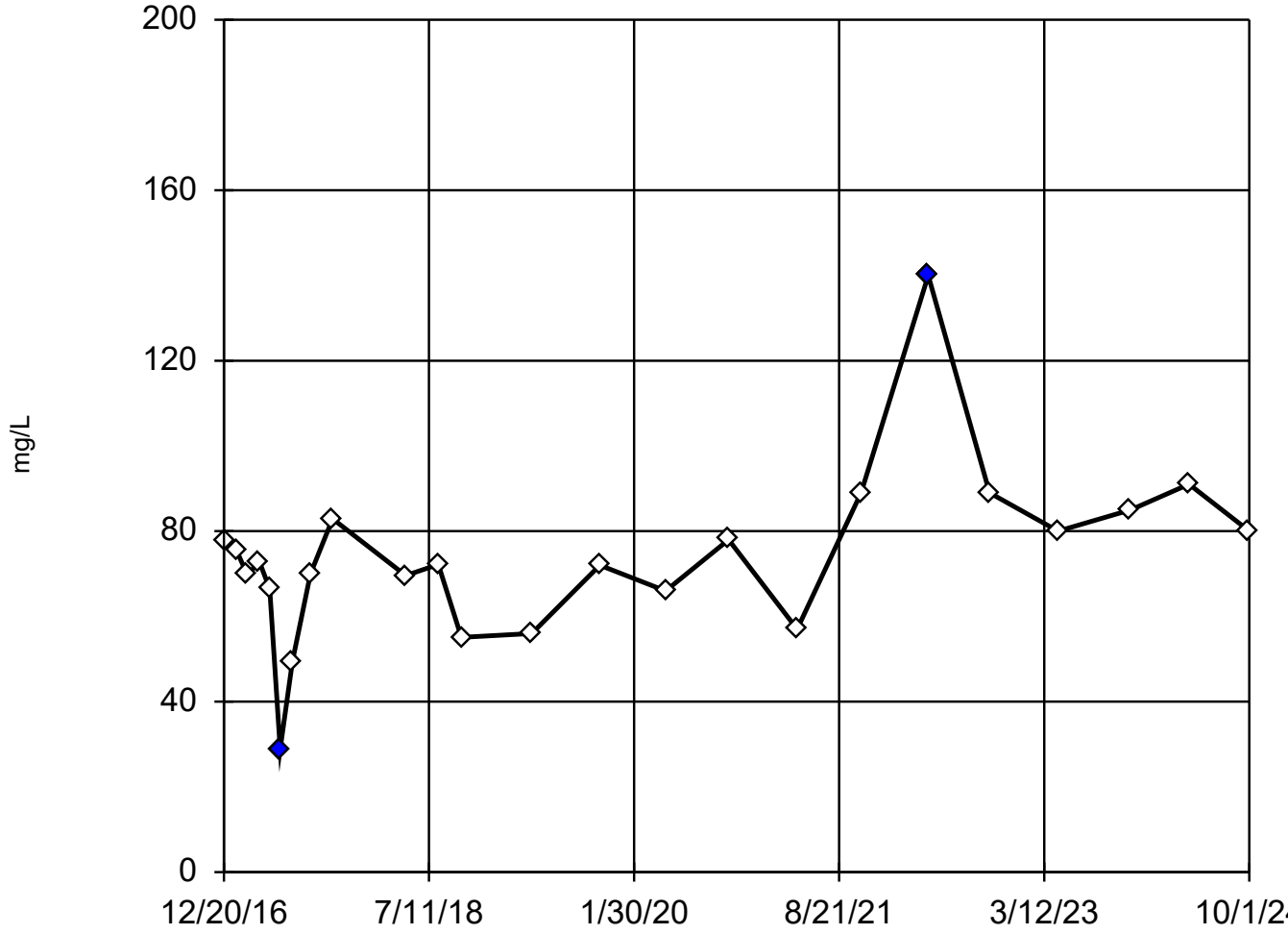
Constituent: Sulfate (mg/L) Analysis Run 2/3/2025 8:29 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)
12/20/2016	108
1/23/2017	101
2/23/2017	99.2
3/28/2017	107
4/26/2017	82.5
5/25/2017	74.7
6/28/2017	108
8/17/2017	101
10/17/2017	95.5
5/8/2018	117
8/6/2018	113
10/9/2018	131 (O)
4/22/2019	100
10/28/2019	110
4/27/2020	110
10/19/2020	98
4/27/2021	93
10/21/2021	100
4/25/2022	89
10/12/2022	100
4/20/2023	100
11/6/2023	98
4/18/2024	99
10/1/2024	96

Dixon's Outlier Test

MW-302 (bg)



n = 24

Statistical outliers are drawn as solid.
Testing for 1 high and 1 low outliers.
Mean = 73.9.
Std. Dev. = 19.99.
140: c = 0.6007
tabl = 0.413.
28.9: c = 0.4359
tabl = 0.413.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9633
Critical = 0.878
The distribution, after removal of suspect values, was found to be normally distributed.

Constituent: Sulfate Analysis Run 2/3/2025 8:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

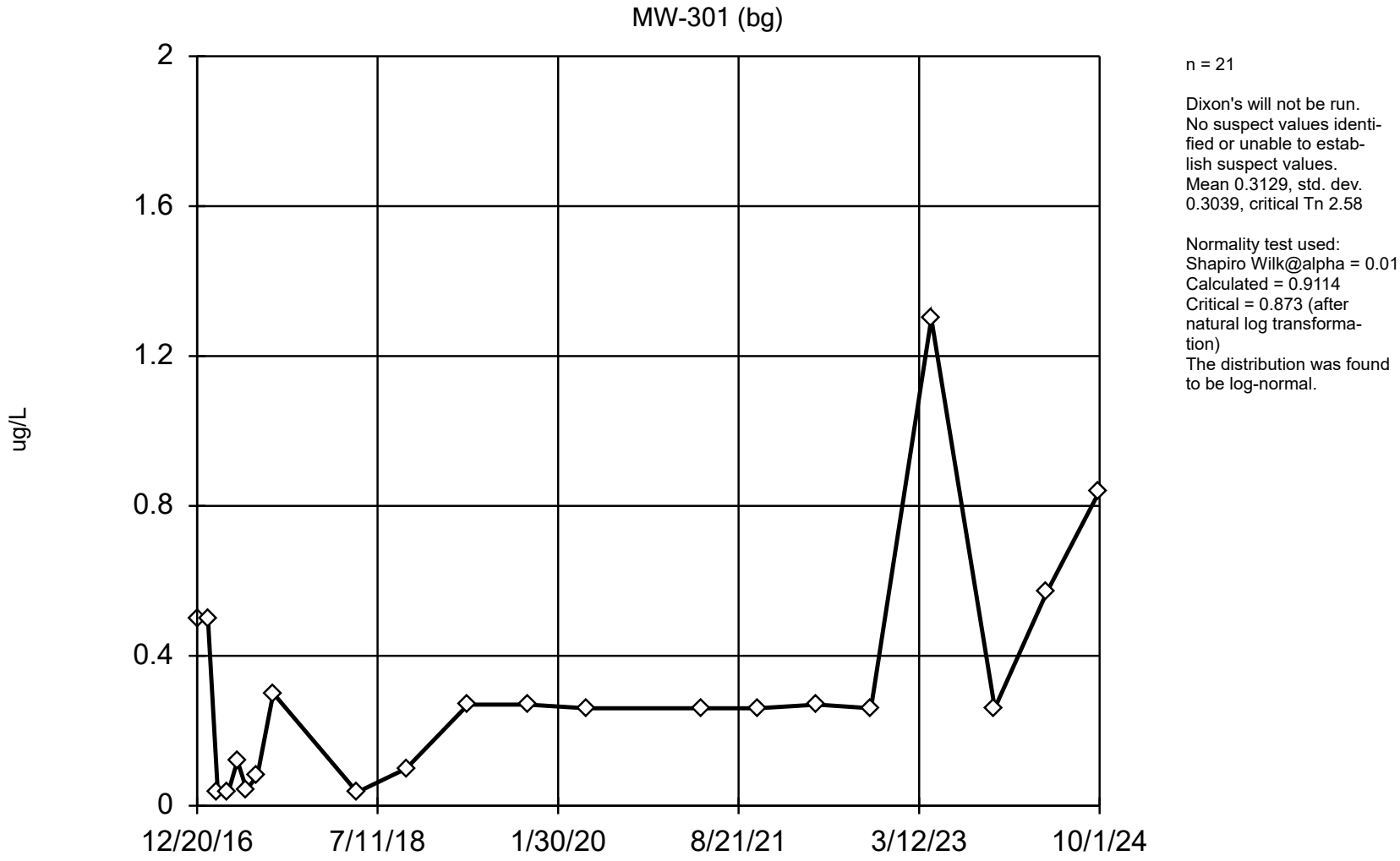
Dixon's Outlier Test

Constituent: Sulfate (mg/L) Analysis Run 2/3/2025 8:29 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-302 (bg)
12/20/2016	77.7
1/23/2017	75.6
2/23/2017	69.7
3/28/2017	72.9
4/26/2017	66.4
5/25/2017	28.9 (O)
6/28/2017	49.5
8/17/2017	70
10/17/2017	82.9
5/8/2018	69.6
8/6/2018	72.2
10/9/2018	55.1
4/22/2019	56
10/28/2019	72
4/27/2020	66
10/19/2020	78
4/27/2021	57
10/21/2021	89
4/25/2022	140 (O)
10/12/2022	89
4/20/2023	80
11/7/2023	85
4/17/2024	91
10/1/2024	80

EPA Screening (suspected outliers for Dixon's Test)



Constituent: Thallium Analysis Run 2/3/2025 8:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

EPA 1989 Outlier Screening

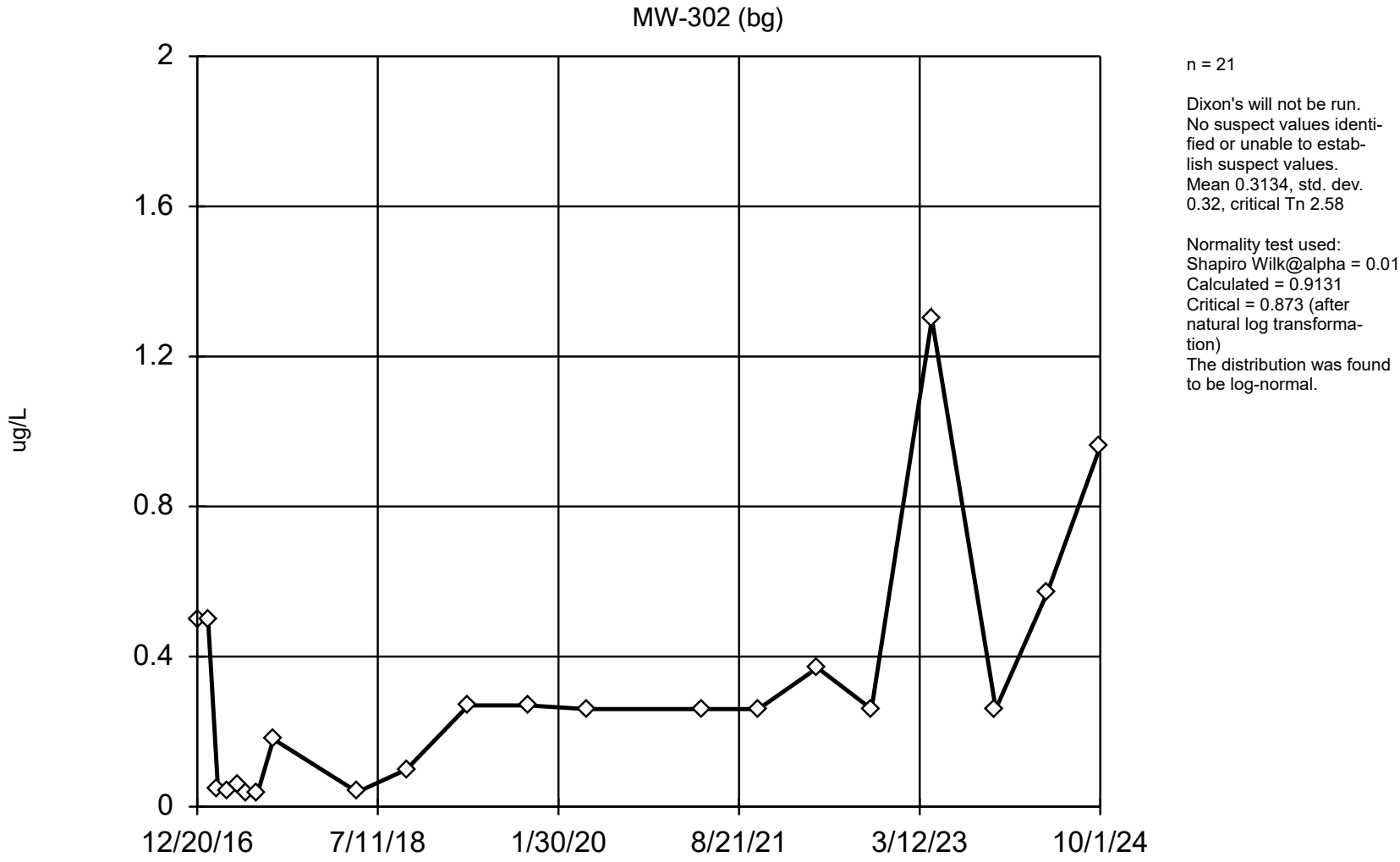
Constituent: Thallium (ug/L) Analysis Run 2/3/2025 8:29 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)
12/20/2016	<0.5 (U)
1/23/2017	<0.5 (U)
2/23/2017	<0.036 (U)
3/28/2017	<0.036 (U)
4/26/2017	0.12 (J)
5/25/2017	0.043 (J)
6/28/2017	0.081 (J)
8/17/2017	0.3 (J)
5/8/2018	<0.036 (U)
10/9/2018	<0.099 (U)
4/22/2019	<0.27 (U)
10/28/2019	<0.27 (U)
4/27/2020	<0.26 (U)
4/27/2021	<0.26 (U)
10/21/2021	<0.26 (U)
4/25/2022	0.27 (J)
10/12/2022	<0.26 (U)
4/20/2023	<1.3 (U)
11/6/2023	<0.26 (U)
4/18/2024	0.57 (J)
10/1/2024	0.84 (J)

ND substitution: RL or RL/2 if <15% NDs.

EPA Screening (suspected outliers for Dixon's Test)



Constituent: Thallium Analysis Run 2/3/2025 8:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

EPA 1989 Outlier Screening

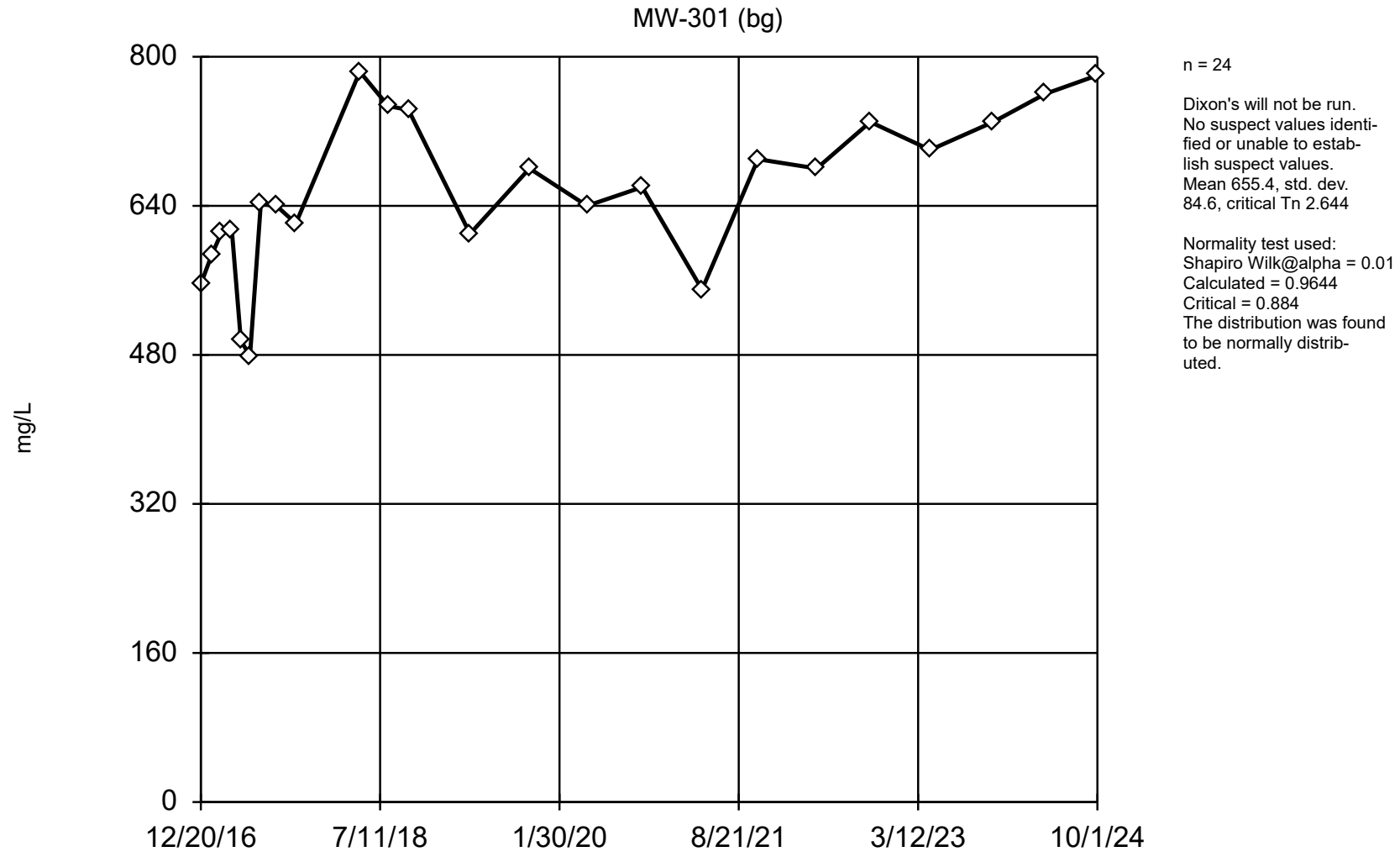
Constituent: Thallium (ug/L) Analysis Run 2/3/2025 8:29 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-302 (bg)
12/20/2016	<0.5 (U)
1/23/2017	<0.5 (U)
2/23/2017	0.05 (J)
3/28/2017	0.044 (J)
4/26/2017	0.058 (J)
5/25/2017	<0.036 (U)
6/28/2017	<0.036 (U)
8/17/2017	0.18 (J)
5/8/2018	0.039 (J)
10/9/2018	<0.099 (U)
4/22/2019	<0.27 (U)
10/28/2019	<0.27 (U)
4/27/2020	<0.26 (U)
4/27/2021	<0.26 (U)
10/21/2021	<0.26 (U)
4/25/2022	0.37 (J)
10/12/2022	<0.26 (U)
4/20/2023	<1.3 (U)
11/7/2023	0.26 (J)
4/17/2024	<0.57
10/1/2024	0.96 (J)

ND substitution: RL or RL/2 if <15% NDs.

EPA Screening (suspected outliers for Dixon's Test)



Constituent: Total Dissolved Solids Analysis Run 2/3/2025 8:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

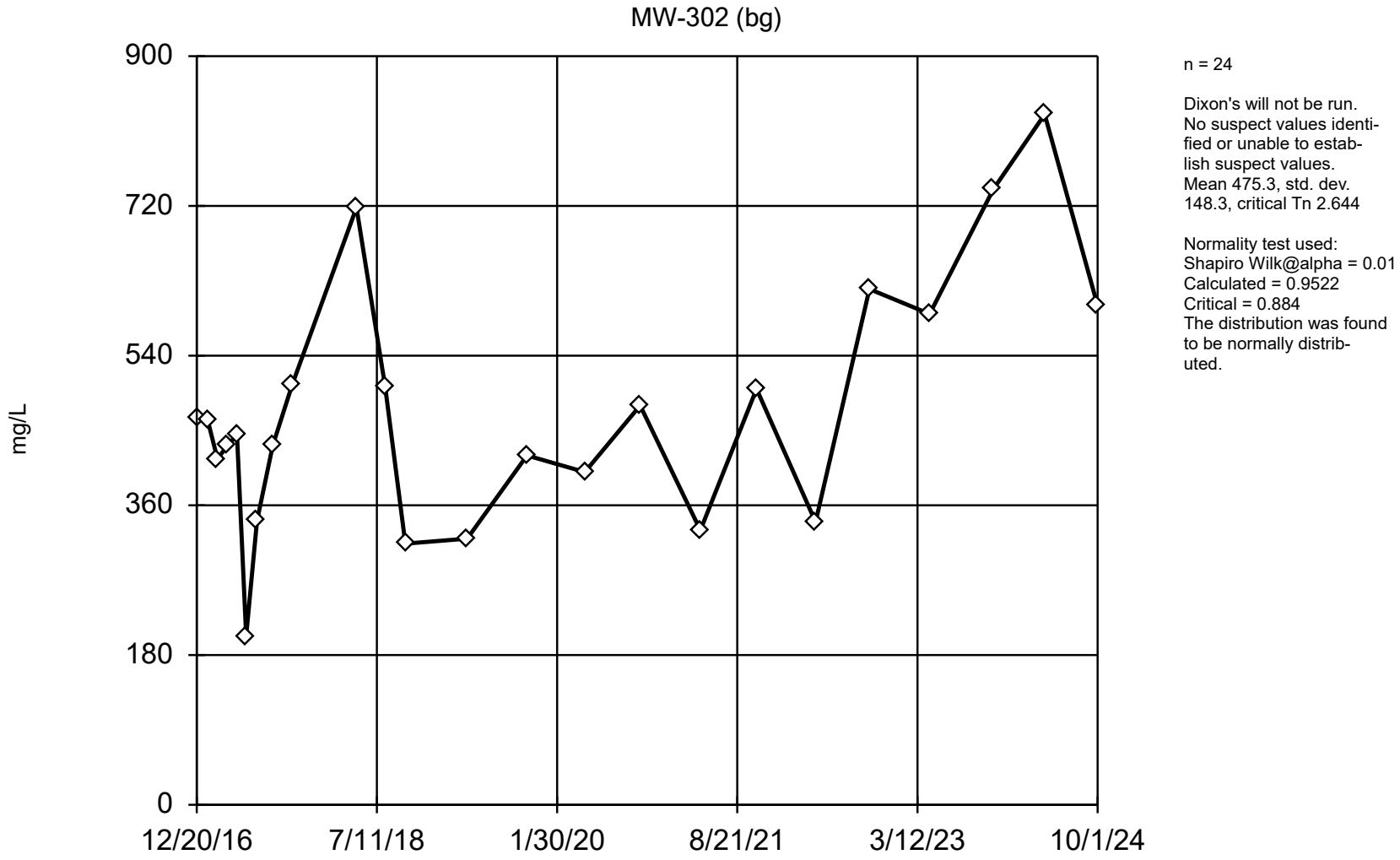
EPA 1989 Outlier Screening

Constituent: Total Dissolved Solids (mg/L) Analysis Run 2/3/2025 8:29 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)
12/20/2016	556
1/23/2017	587
2/23/2017	611
3/28/2017	615
4/26/2017	495
5/25/2017	479
6/28/2017	642
8/17/2017	640
10/17/2017	621
5/8/2018	784
8/6/2018	747
10/9/2018	743
4/22/2019	610
10/28/2019	680 (B)
4/27/2020	640
10/19/2020	660
4/27/2021	550
10/21/2021	690
4/25/2022	680
10/12/2022	730
4/20/2023	700
11/6/2023	730
4/18/2024	760
10/1/2024	780

EPA Screening (suspected outliers for Dixon's Test)



Constituent: Total Dissolved Solids Analysis Run 2/3/2025 8:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

EPA 1989 Outlier Screening

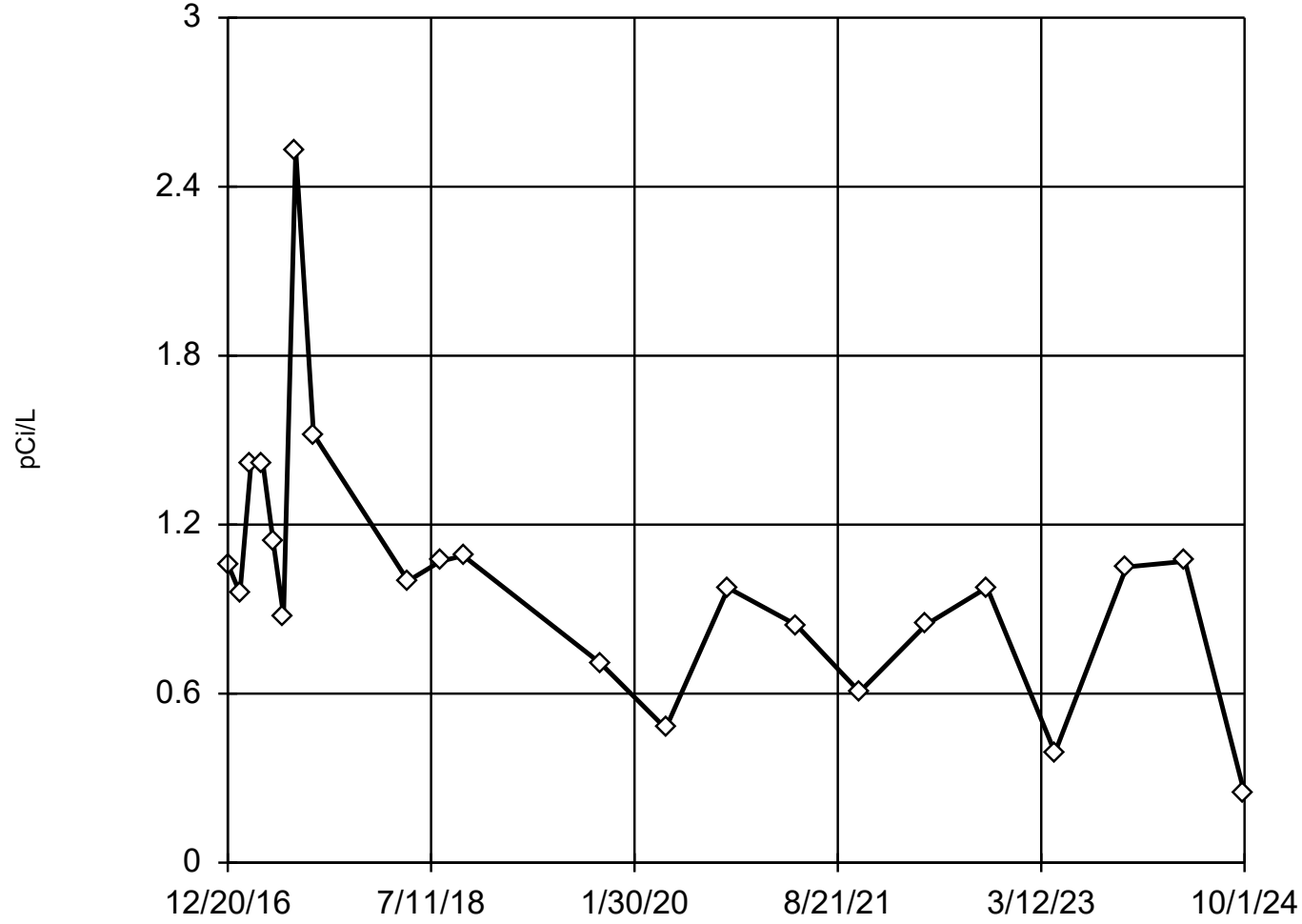
Constituent: Total Dissolved Solids (mg/L) Analysis Run 2/3/2025 8:29 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-302 (bg)
12/20/2016	465
1/23/2017	463
2/23/2017	416
3/28/2017	432
4/26/2017	445
5/25/2017	203
6/28/2017	341
8/17/2017	432
10/17/2017	505
5/8/2018	718
8/6/2018	503
10/9/2018	314
4/22/2019	320
10/28/2019	420 (B)
4/27/2020	400
10/19/2020	480
4/27/2021	330
10/21/2021	500
4/25/2022	340
10/12/2022	620
4/20/2023	590
11/7/2023	740
4/17/2024	830
10/1/2024	600

Dixon's Outlier Test

MW-301 (bg)



n = 22

No statistical outliers.
Testing for 1 low outlier.
Mean = 1.012.
Std. Dev. = 0.4642.
-1.406: c = 0.3792
tabl = 0.43.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9378
Critical = 0.873 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Total Radium Analysis Run 2/3/2025 8:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Dixon's Outlier Test

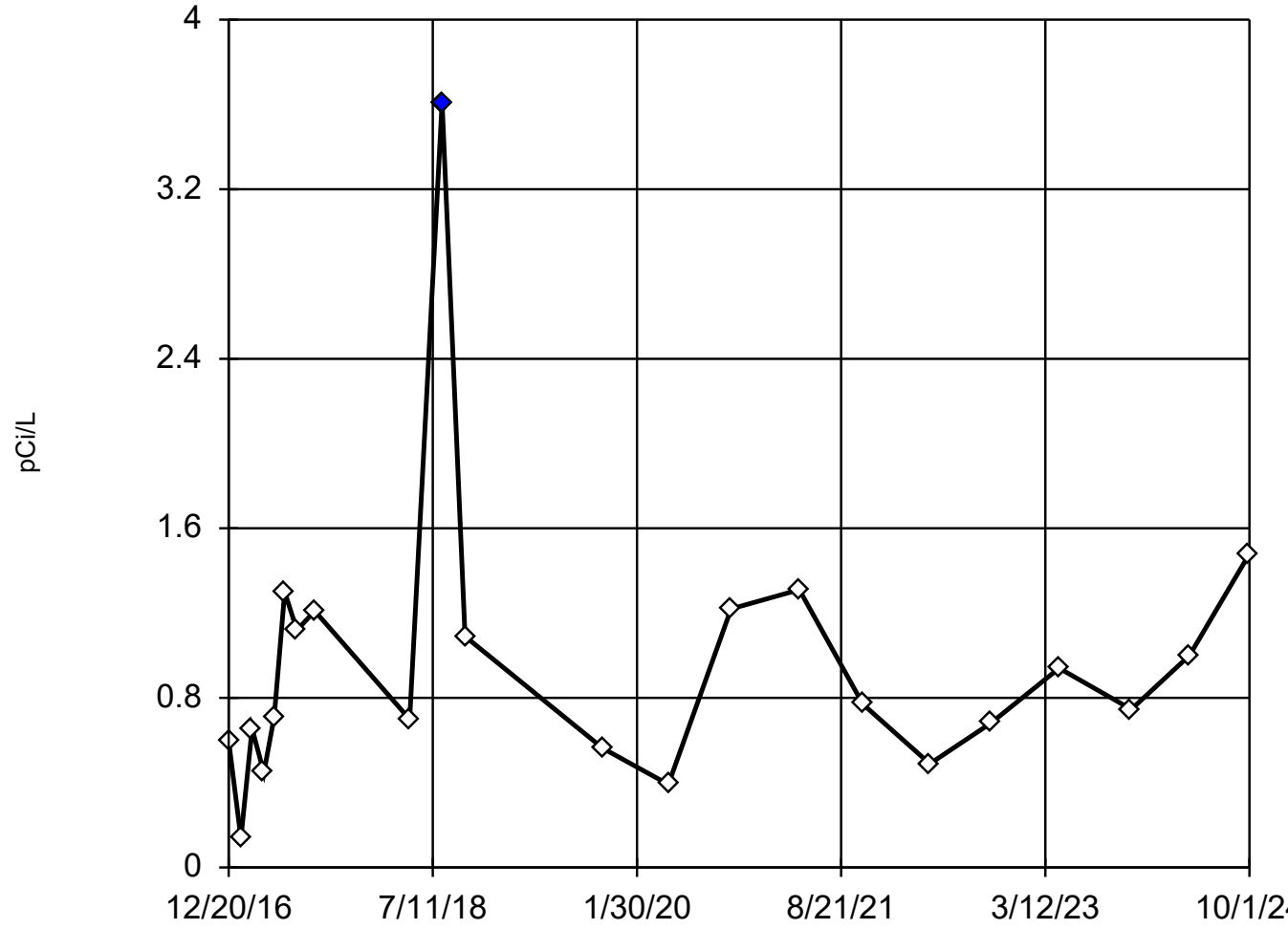
Constituent: Total Radium (pCi/L) Analysis Run 2/3/2025 8:29 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)
12/20/2016	1.06
1/23/2017	0.957
2/23/2017	1.42
3/28/2017	1.42
4/26/2017	1.14
5/25/2017	0.877
6/28/2017	2.53
8/17/2017	1.52
5/8/2018	1
8/6/2018	1.07
10/9/2018	1.09
10/28/2019	0.708
4/27/2020	0.477
10/19/2020	0.975
4/27/2021	0.844
10/21/2021	0.606
4/25/2022	0.845
10/12/2022	0.977
4/20/2023	0.391
11/6/2023	1.05
4/18/2024	1.07
10/1/2024	0.245

Dixon's Outlier Test

MW-302 (bg)



n = 22

Statistical outlier is drawn as solid.
Testing for 1 high and 1 low outliers.
Mean = 0.9622.
Std. Dev. = 0.6852.
3.61: c = 0.7272
tabl = 0.43.
0.138: c = 0.2637
tabl = 0.43.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9439
Critical = 0.868
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Total Radium Analysis Run 2/3/2025 8:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Dixon's Outlier Test

Constituent: Total Radium (pCi/L) Analysis Run 2/3/2025 8:29 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-302 (bg)
12/20/2016	0.597
1/23/2017	0.138
2/23/2017	0.655
3/28/2017	0.447
4/26/2017	0.713
5/25/2017	1.3
6/28/2017	1.12
8/17/2017	1.21
5/8/2018	0.699
8/6/2018	3.61 (O)
10/9/2018	1.09
10/28/2019	0.562
4/27/2020	0.392
10/19/2020	1.22
4/27/2021	1.31
10/21/2021	0.77
4/25/2022	0.489
10/12/2022	0.681
4/20/2023	0.94
11/7/2023	0.746
4/17/2024	1
10/1/2024	1.48

Attachment 3

Welch’s/Mann-Whitney Comparison

Welch's t-test/Mann-Whitney

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek Printed 8/7/2025, 10:25 AM

Constituent	Well	Calc.	0.1	0.05	0.025	0.01	Method
Antimony (ug/L)	MW-301 (bg)	2.299	Yes	Yes	Yes	No	Mann-W
Antimony (ug/L)	MW-302 (bg)	2.11	Yes	Yes	Yes	No	Mann-W
Arsenic (ug/L)	MW-301 (bg)	1.152	No	No	No	No	Mann-W
Arsenic (ug/L)	MW-302 (bg)	-0....	No	No	No	No	Mann-W
Barium (ug/L)	MW-301 (bg)	0.2458	No	No	No	No	Mann-W
Barium (ug/L)	MW-302 (bg)	1.827	Yes	Yes	No	No	Mann-W
Beryllium (ug/L)	**MW-301 (bg)**	**2.745**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
Beryllium (ug/L)	**MW-302 (bg)**	**2.753**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
Boron (ug/L)	MW-301 (bg)	1.879	Yes	Yes	No	No	Mann-W
Boron (ug/L)	MW-302 (bg)	1.602	Yes	No	No	No	Mann-W
Cadmium (ug/L)	MW-301 (bg)	-0....	No	No	No	No	Mann-W
Cadmium (ug/L)	**MW-302 (bg)**	**2.393**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
Calcium (mg/L)	**MW-301 (bg)**	**2.952**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
Calcium (mg/L)	**MW-302 (bg)**	**2.946**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
Chloride (mg/L)	**MW-301 (bg)**	**2.792**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
Chloride (mg/L)	**MW-302 (bg)**	**3.06**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
Chromium (ug/L)	MW-301 (bg)	1.438	Yes	No	No	No	Mann-W
Chromium (ug/L)	MW-302 (bg)	0.1917	No	No	No	No	Mann-W
Cobalt (ug/L)	MW-301 (bg)	0.0...	No	No	No	No	Mann-W
Cobalt (ug/L)	MW-302 (bg)	-0....	No	No	No	No	Mann-W
Field pH (Std. Units)	MW-301 (bg)	-1.59	No	No	No	No	Mann-W
Field pH (Std. Units)	MW-302 (bg)	0.4261	No	No	No	No	Mann-W
Fluoride (mg/L)	**MW-301 (bg)**	**3.076**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
Fluoride (mg/L)	**MW-302 (bg)**	**3.075**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
Lead (ug/L)	MW-301 (bg)	1.149	No	No	No	No	Mann-W
Lead (ug/L)	MW-302 (bg)	0.9586	No	No	No	No	Mann-W
Lithium (ug/L)	MW-301 (bg)	2.152	Yes	Yes	Yes	No	Mann-W
Lithium (ug/L)	MW-302 (bg)	2.297	Yes	Yes	Yes	No	Mann-W
Mercury (ug/L)	MW-301 (bg)	2.142	Yes	Yes	Yes	No	Mann-W
Mercury (ug/L)	MW-302 (bg)	2.142	Yes	Yes	Yes	No	Mann-W
Molybdenum (ug/L)	**MW-301 (bg)**	**2.503**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
Molybdenum (ug/L)	MW-302 (bg)	1.734	Yes	Yes	No	No	Mann-W
Selenium (ug/L)	MW-301 (bg)	0.9576	No	No	No	No	Mann-W
Selenium (ug/L)	MW-302 (bg)	2.164	Yes	Yes	Yes	No	Mann-W
Sulfate (mg/L)	MW-301 (bg)	-1.204	No	No	No	No	Mann-W
Sulfate (mg/L)	MW-302 (bg)	2.131	Yes	Yes	Yes	No	Mann-W
Thallium (ug/L)	MW-301 (bg)	1.817	Yes	Yes	No	No	Mann-W
Thallium (ug/L)	MW-302 (bg)	2.127	Yes	Yes	Yes	No	Mann-W
Total Dissolved Solids (mg/L)	MW-301 (bg)	2.325	Yes	Yes	Yes	No	Mann-W
Total Dissolved Solids (mg/L)	**MW-302 (bg)**	**2.75**	**Yes**	**Yes**	**Yes**	**Yes**	**Mann-W**
Total Radium (pCi/L)	MW-301 (bg)	-1.278	No	No	No	No	Mann-W
Total Radium (pCi/L)	MW-302 (bg)	1.064	No	No	No	No	Mann-W

02/27/2026 - Classification: Internal - ECRM13684604

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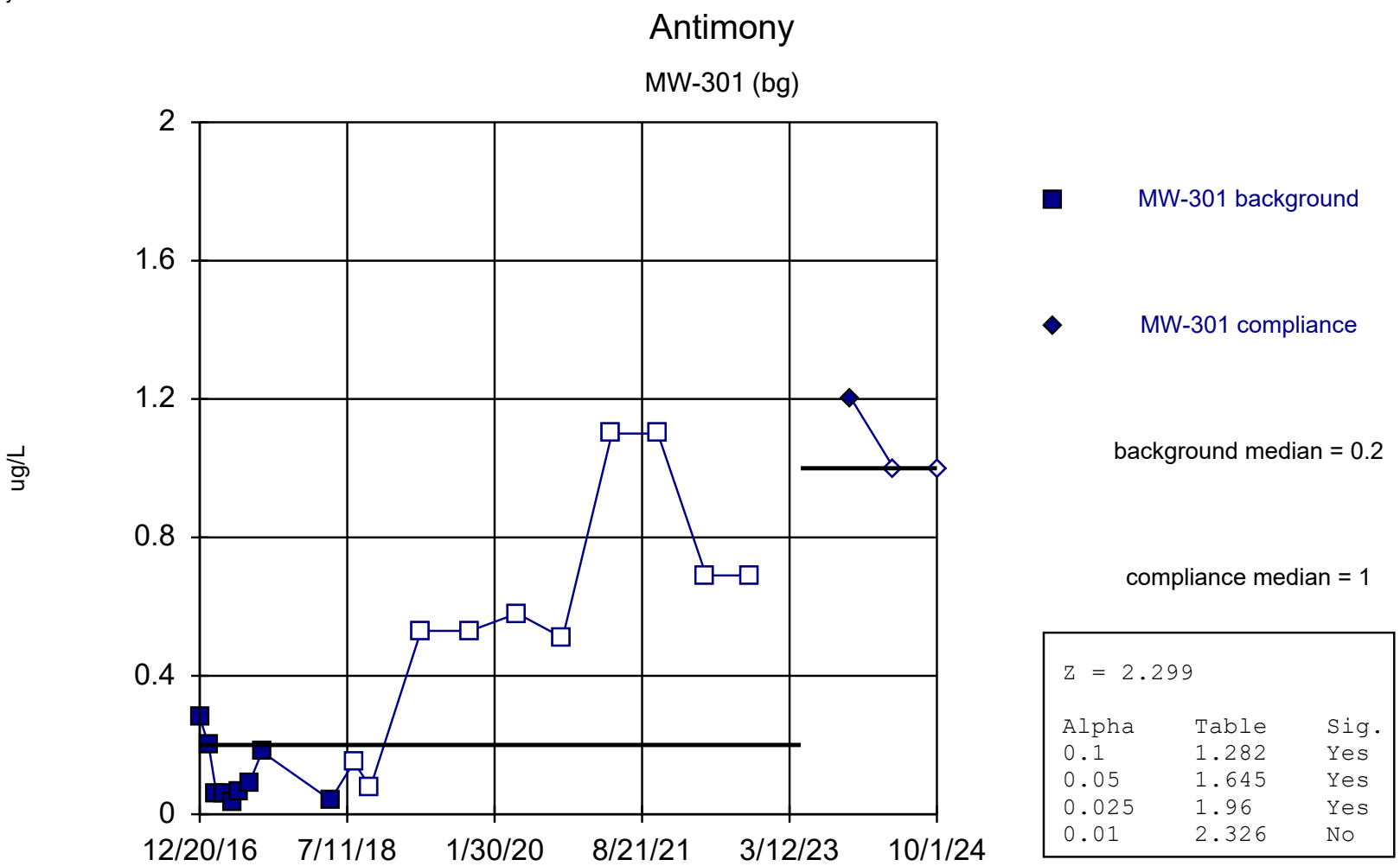
Hollow symbols indicate censored values.



Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Antimony (ug/L) Analysis Run 8/7/2025 10:25 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301	MW-301
12/20/2016	0.28 (J)	
1/23/2017	0.2 (J)	
2/23/2017	0.057 (J)	
3/28/2017	0.06 (J)	
4/26/2017	0.034 (J)	
5/25/2017	0.065 (J)	
6/28/2017	0.088 (J)	
8/17/2017	0.18 (J)	
5/8/2018	0.041 (J)	
8/6/2018	<0.15 (U)	
10/9/2018	<0.078 (U)	
4/22/2019	<0.53 (U)	
10/28/2019	<0.53 (U)	
4/27/2020	<0.58 (U)	
10/19/2020	<0.51 (U)	
4/27/2021	<1.1 (U)	
10/21/2021	<1.1 (U)	
4/25/2022	<0.69 (U)	
10/12/2022	<0.69 (U)	
4/20/2023	<5 (UX)	
11/6/2023		1.2 (J)
4/18/2024		<1
10/1/2024		<1

ND substitution: RL or RL/2 if <15% NDs.

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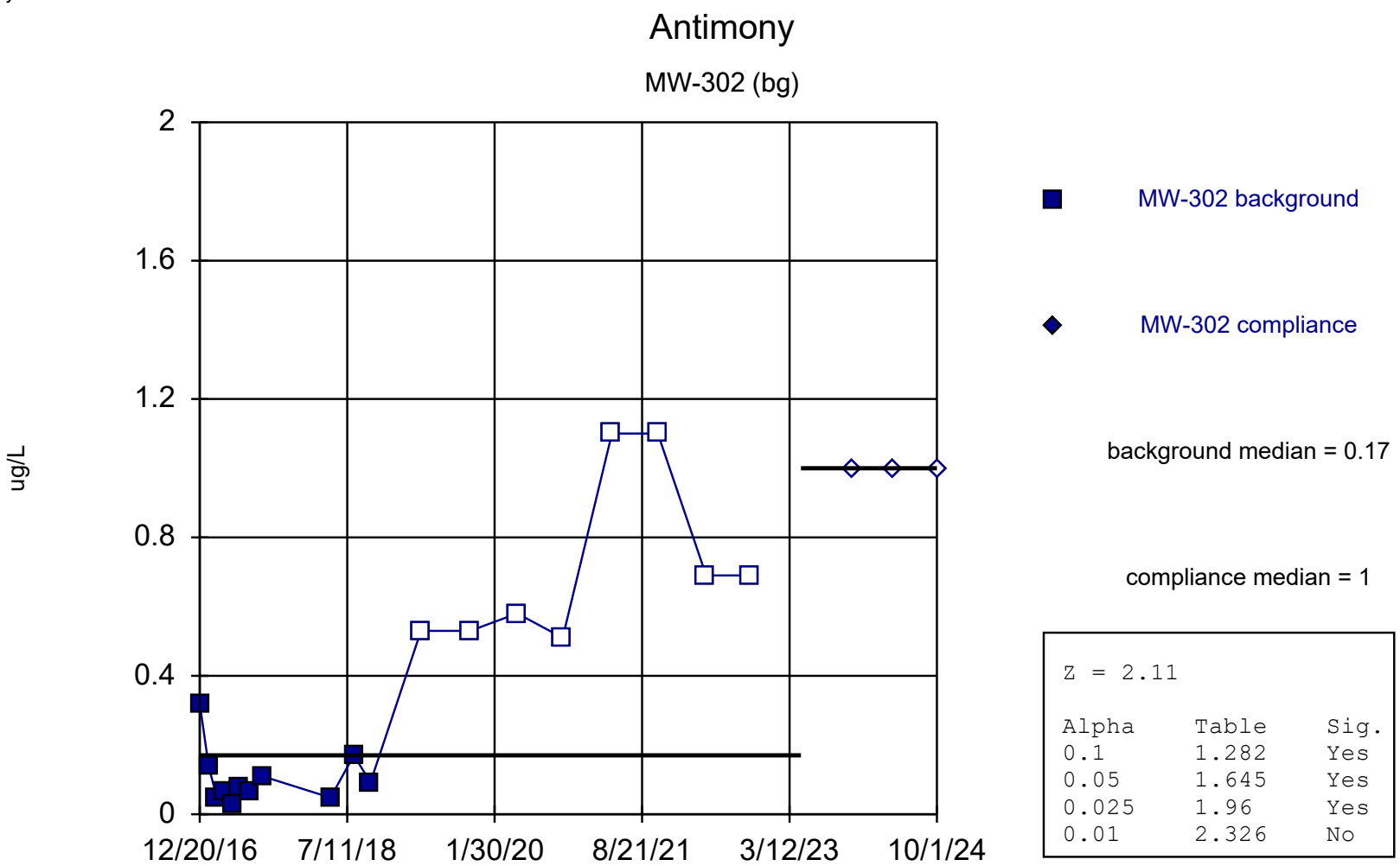
Hollow symbols indicate censored values.



Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

02/27/2026 - Classification: Internal - ECRM13684604

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Antimony (ug/L) Analysis Run 8/7/2025 10:25 AM View: PCS

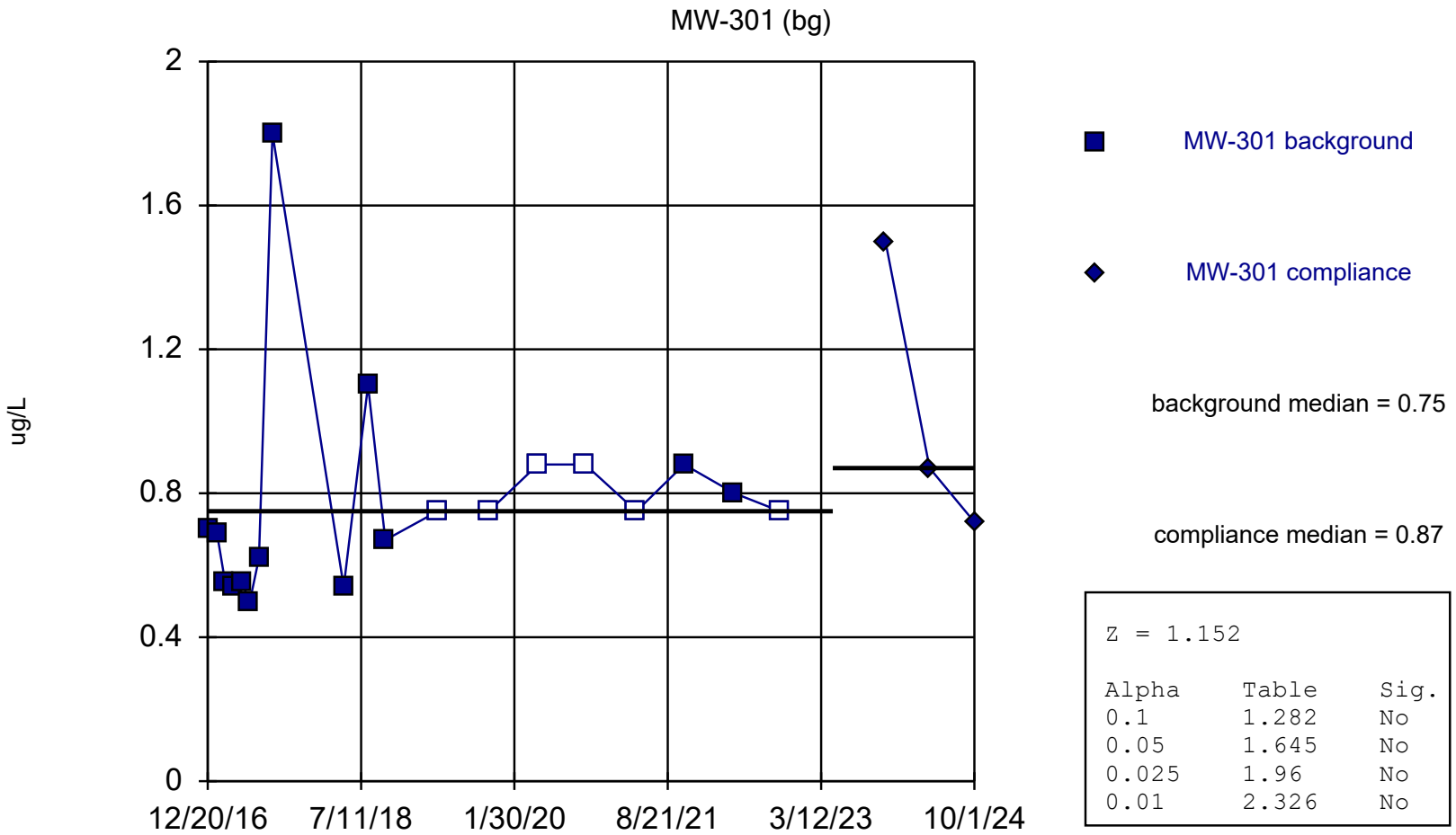
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-302	MW-302
12/20/2016	0.32 (J)	
1/23/2017	0.14 (J)	
2/23/2017	0.049 (J)	
3/28/2017	0.067 (J)	
4/26/2017	0.028 (J)	
5/25/2017	0.077 (J)	
6/28/2017	0.067 (J)	
8/17/2017	0.11 (J)	
5/8/2018	0.048 (J)	
8/6/2018	0.17 (J)	
10/9/2018	0.092 (J)	
4/22/2019	<0.53 (U)	
10/28/2019	<0.53 (U)	
4/27/2020	<0.58 (U)	
10/19/2020	<0.51 (U)	
4/27/2021	<1.1 (U)	
10/21/2021	<1.1 (U)	
4/25/2022	<0.69 (U)	
10/12/2022	<0.69 (U)	
4/20/2023	<5 (UX)	
11/7/2023		<1 (U)
4/17/2024		<1
10/1/2024		<1

ND substitution: RL or RL/2 if <15% NDs.

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Arsenic



Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

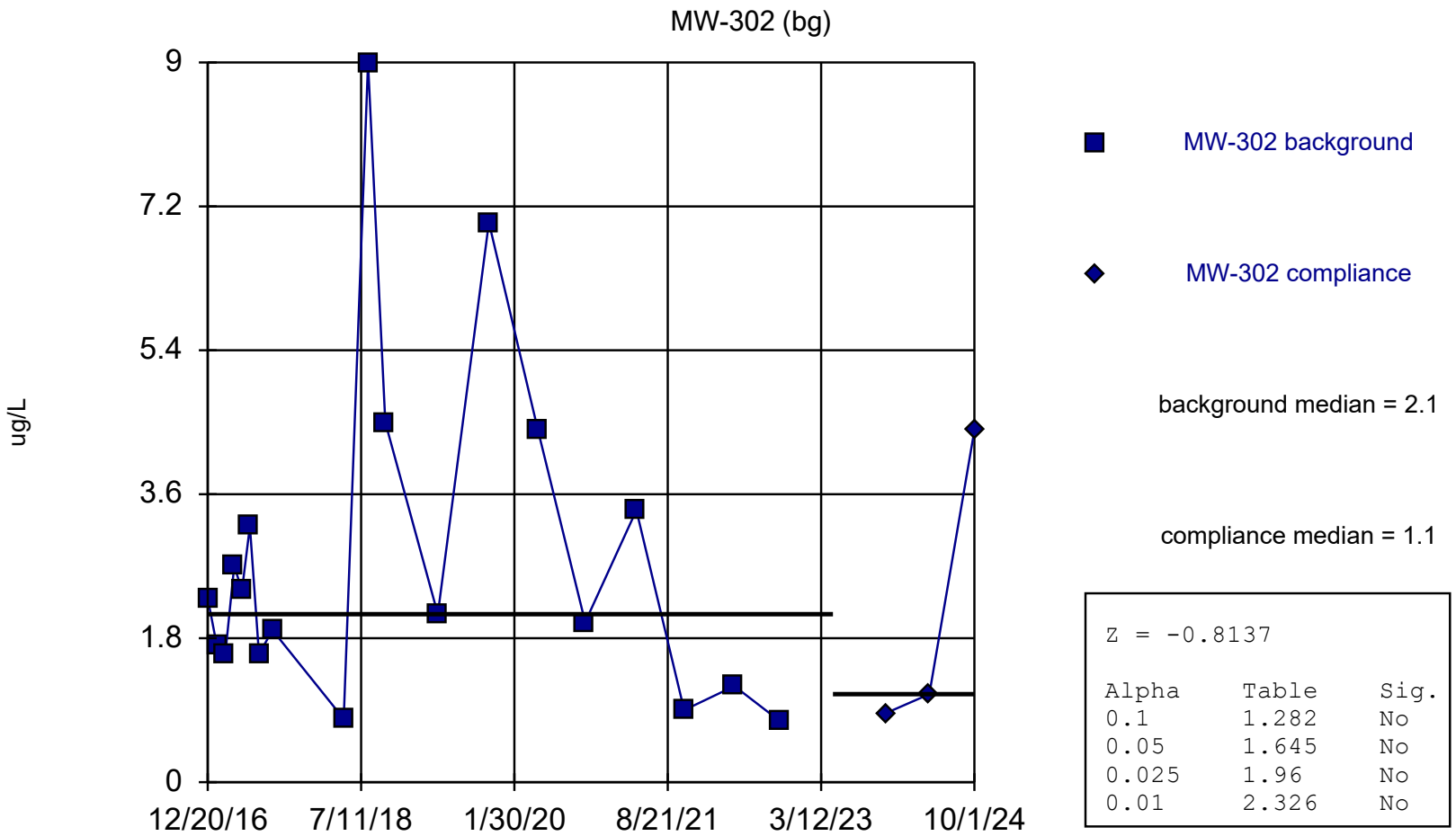
Constituent: Arsenic (ug/L) Analysis Run 8/7/2025 10:25 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301	MW-301
12/20/2016	0.7 (J)	
1/23/2017	0.69 (J)	
2/23/2017	0.55 (J)	
3/28/2017	0.54 (J)	
4/26/2017	0.55 (J)	
5/25/2017	0.5 (J)	
6/28/2017	0.62 (J)	
8/17/2017	1.8	
5/8/2018	0.54 (J)	
8/6/2018	1.1	
10/9/2018	0.67 (J)	
4/22/2019	<0.75 (U)	
10/28/2019	<0.75 (U)	
4/27/2020	<0.88 (U)	
10/19/2020	<0.88 (U)	
4/27/2021	<0.75 (U)	
10/21/2021	0.88 (J)	
4/25/2022	0.8 (J)	
10/12/2022	<0.75 (U)	
4/20/2023	<2.7 (UX)	
11/6/2023		1.5 (J)
4/18/2024		0.87 (J)
10/1/2024		0.72 (J)

ND substitution: RL or RL/2 if <15% NDs.

Arsenic



Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:18 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

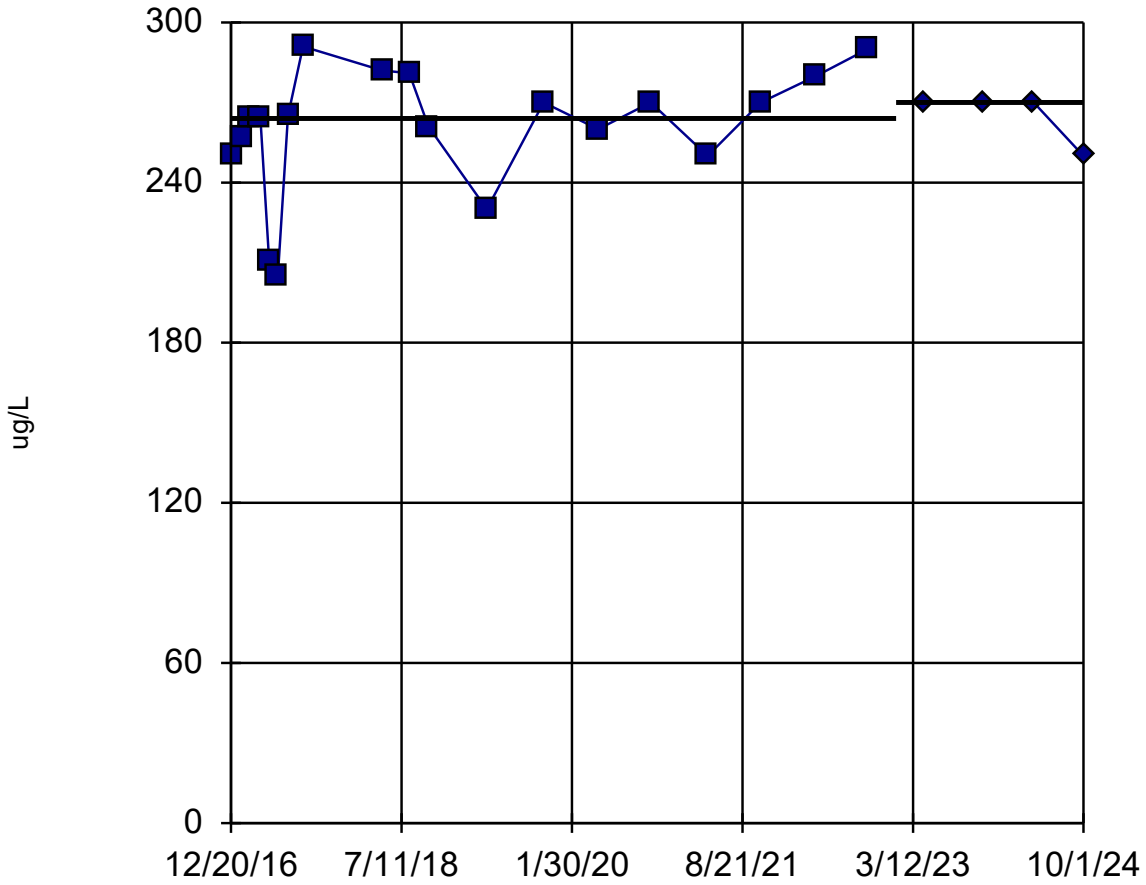
Constituent: Arsenic (ug/L) Analysis Run 8/7/2025 10:25 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-302	MW-302
12/20/2016	2.3	
1/23/2017	1.7	
2/23/2017	1.6	
3/28/2017	2.7	
4/26/2017	2.4	
5/25/2017	3.2	
6/28/2017	1.6	
8/17/2017	1.9	
5/8/2018	0.79 (J)	
8/6/2018	9	
10/9/2018	4.5	
4/22/2019	2.1	
10/28/2019	7	
4/27/2020	4.4	
10/19/2020	2	
4/27/2021	3.4	
10/21/2021	0.9 (J)	
4/25/2022	1.2 (J)	
10/12/2022	0.76 (J)	
4/20/2023	<2.7 (UX)	
11/7/2023		0.86 (J)
4/17/2024		1.1 (J)
10/1/2024		4.4

Barium

MW-301 (bg)



MW-301 background

MW-301 compliance

background median = 264

compliance median = 270

Z = 0.2458

Alpha	Table	Sig.
0.1	1.282	No
0.05	1.645	No
0.025	1.96	No
0.01	2.326	No

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

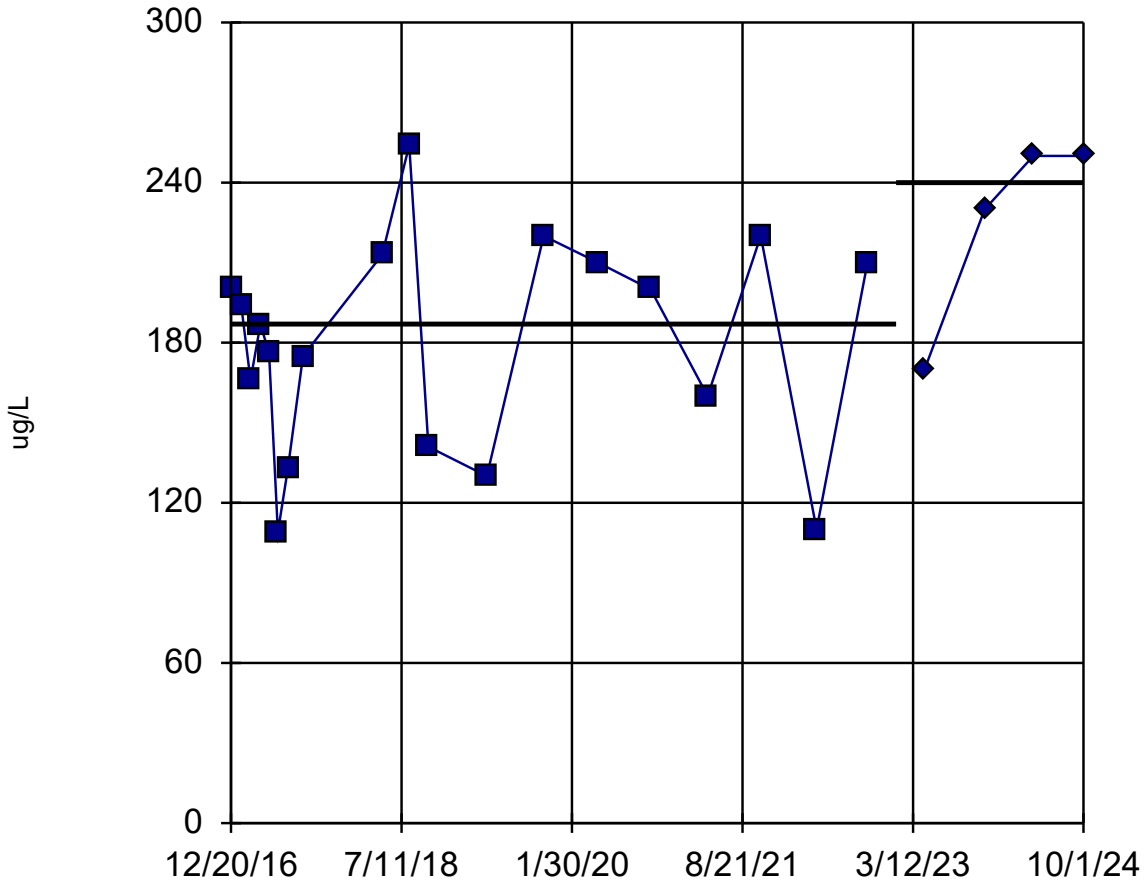
Constituent: Barium (ug/L) Analysis Run 8/7/2025 10:25 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301	MW-301
12/20/2016	250	
1/23/2017	257	
2/23/2017	264	
3/28/2017	264	
4/26/2017	211	
5/25/2017	205	
6/28/2017	265	
8/17/2017	291	
5/8/2018	282	
8/6/2018	281	
10/9/2018	261	
4/22/2019	230	
10/28/2019	270	
4/27/2020	260	
10/19/2020	270	
4/27/2021	250	
10/21/2021	270	
4/25/2022	280	
10/12/2022	290	
4/20/2023		270
11/6/2023		270
4/18/2024		270
10/1/2024		250

Barium

MW-302 (bg)



MW-302 background

MW-302 compliance

background median = 187

compliance median = 240

Z = 1.827

Alpha	Table	Sig.
0.1	1.282	Yes
0.05	1.645	Yes
0.025	1.96	No
0.01	2.326	No

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Barium (ug/L) Analysis Run 8/7/2025 10:25 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-302	MW-302
12/20/2016	200	
1/23/2017	194	
2/23/2017	166	
3/28/2017	187	
4/26/2017	176	
5/25/2017	109	
6/28/2017	133	
8/17/2017	175	
5/8/2018	213	
8/6/2018	254	
10/9/2018	141	
4/22/2019	130	
10/28/2019	220	
4/27/2020	210	
10/19/2020	200	
4/27/2021	160	
10/21/2021	220	
4/25/2022	110	
10/12/2022	210	
4/20/2023		170
11/7/2023		230
4/17/2024		250
10/1/2024		250

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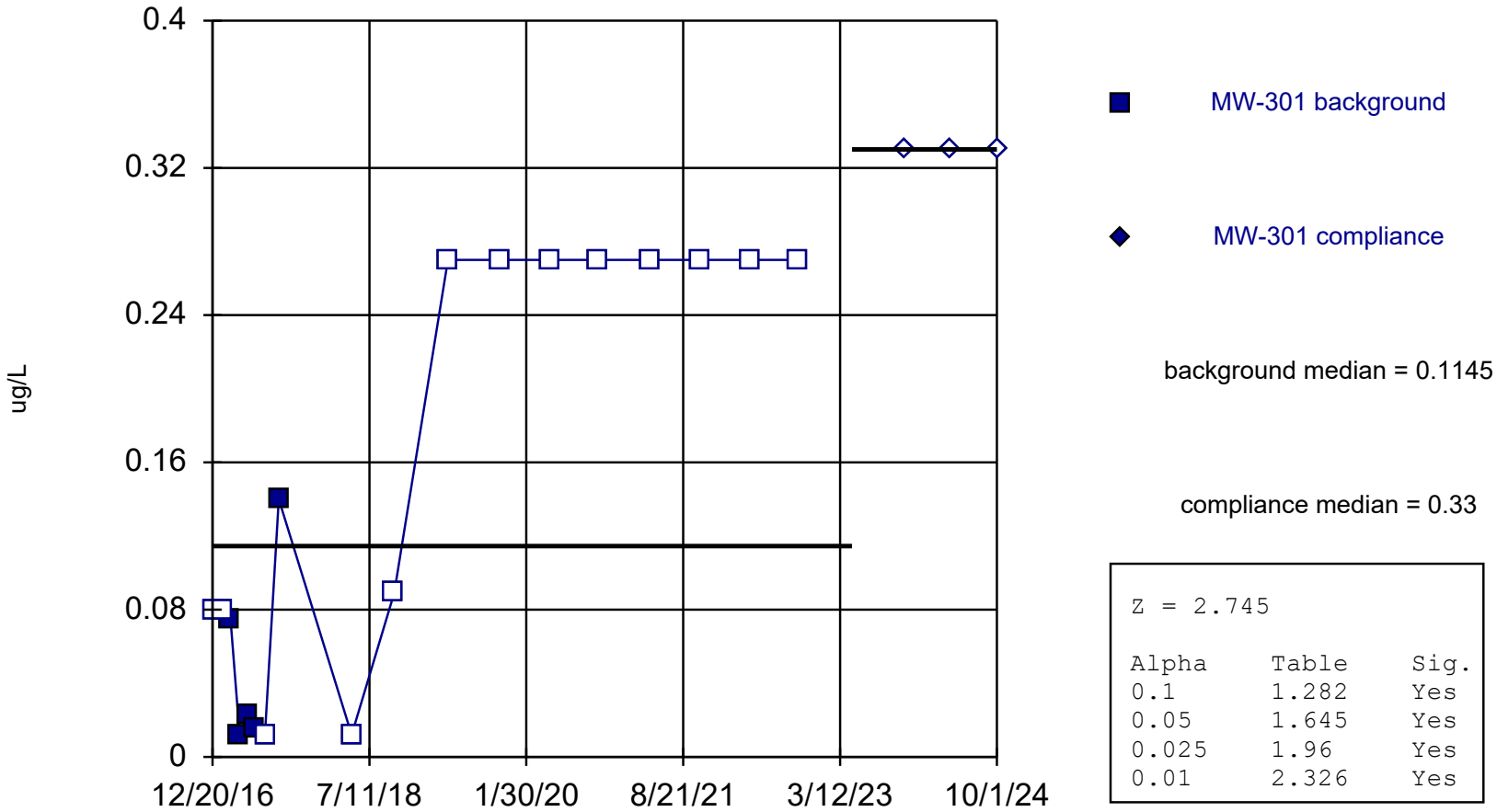
Hollow symbols indicate censored values.

Beryllium

MW-301 (bg)



Z = 2.745

Alpha	Table	Sig.
0.1	1.282	Yes
0.05	1.645	Yes
0.025	1.96	Yes
0.01	2.326	Yes

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

02/27/2026 - Classification: Internal - ECRM13684604

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Beryllium (ug/L) Analysis Run 8/7/2025 10:25 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

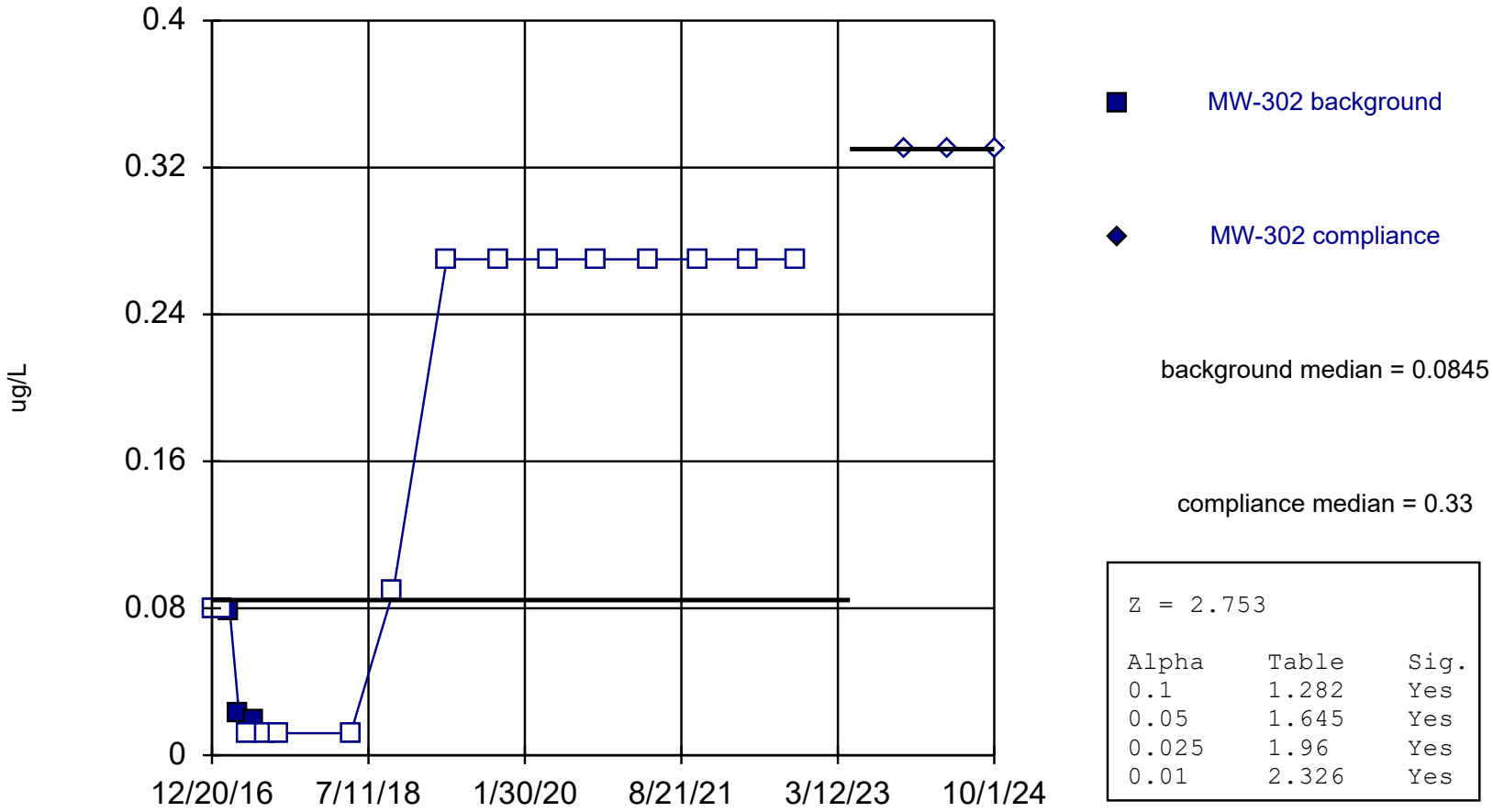
	MW-301	MW-301
12/20/2016	<0.08 (U)	
1/23/2017	<0.08 (U)	
2/23/2017	0.075 (J)	
3/28/2017	0.012 (J)	
4/26/2017	0.023 (J)	
5/25/2017	0.016 (J)	
6/28/2017	<0.012 (U)	
8/17/2017	0.14 (J)	
5/8/2018	<0.012 (U)	
10/9/2018	<0.089 (U)	
4/22/2019	<0.27 (U)	
10/28/2019	<0.27 (U)	
4/27/2020	<0.27 (U)	
10/19/2020	<0.27 (U)	
4/27/2021	<0.27 (U)	
10/21/2021	<0.27 (U)	
4/25/2022	<0.27 (U)	
10/12/2022	<0.27 (U)	
4/20/2023	<1.7 (UX)	
11/6/2023		<0.33 (U)
4/18/2024		<0.33
10/1/2024		<0.33

ND substitution: RL or RL/2 if <15% NDs.

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Beryllium

MW-302 (bg)



background median = 0.0845

compliance median = 0.33

Z = 2.753

Alpha	Table	Sig.
0.1	1.282	Yes
0.05	1.645	Yes
0.025	1.96	Yes
0.01	2.326	Yes

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Beryllium (ug/L) Analysis Run 8/7/2025 10:25 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

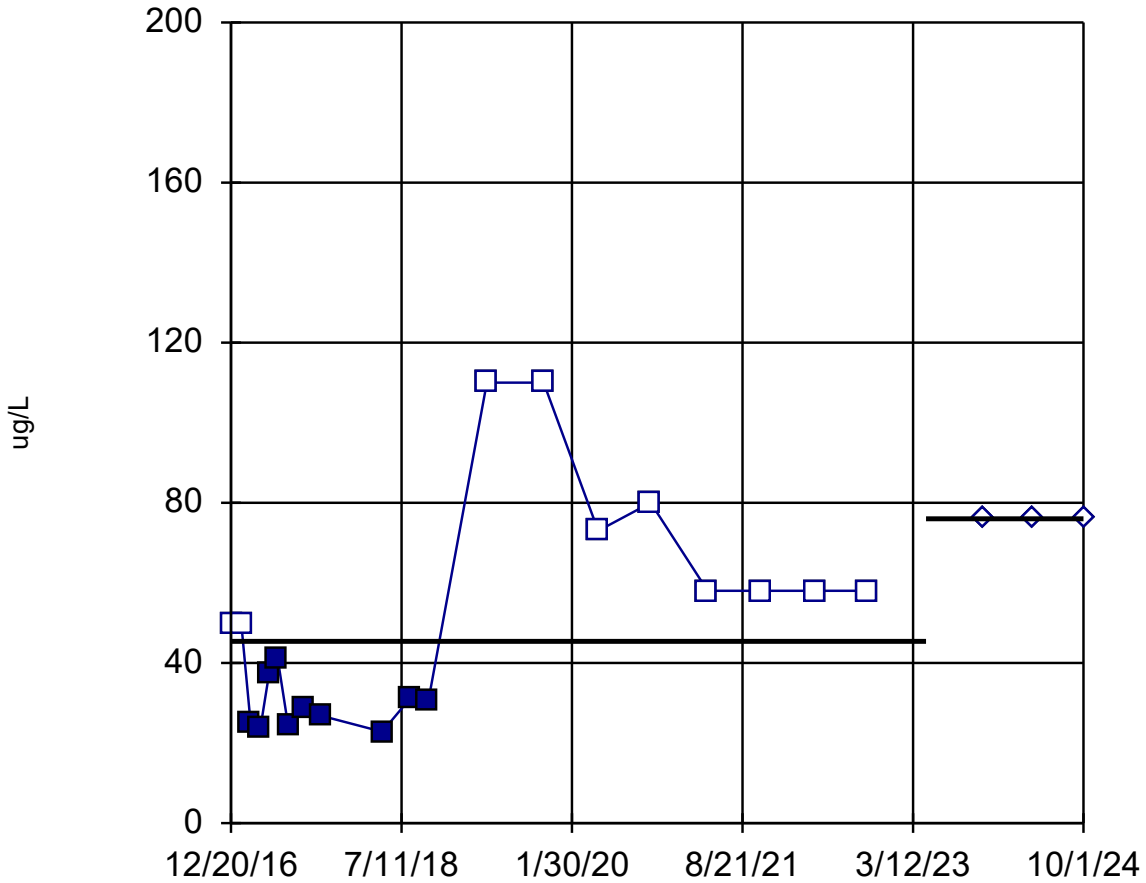
	MW-302	MW-302
12/20/2016	<0.08 (U)	
1/23/2017	<0.08 (U)	
2/23/2017	0.078 (J)	
3/28/2017	0.023 (J)	
4/26/2017	<0.012 (U)	
5/25/2017	0.019 (J)	
6/28/2017	<0.012 (U)	
8/17/2017	<0.012 (U)	
5/8/2018	<0.012 (U)	
10/9/2018	<0.089 (U)	
4/22/2019	<0.27 (U)	
10/28/2019	<0.27 (U)	
4/27/2020	<0.27 (U)	
10/19/2020	<0.27 (U)	
4/27/2021	<0.27 (U)	
10/21/2021	<0.27 (U)	
4/25/2022	<0.27 (U)	
10/12/2022	<0.27 (U)	
4/20/2023	<1.7 (UX)	
11/7/2023		<0.33 (U)
4/17/2024		<0.33
10/1/2024		<0.33

ND substitution: RL or RL/2 if <15% NDs.

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Boron

MW-301 (bg)



MW-301 background

MW-301 compliance

background median = 45.4

compliance median = 76

Z = 1.879

Alpha	Table	Sig.
0.1	1.282	Yes
0.05	1.645	Yes
0.025	1.96	No
0.01	2.326	No

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Boron (ug/L) Analysis Run 8/7/2025 10:25 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

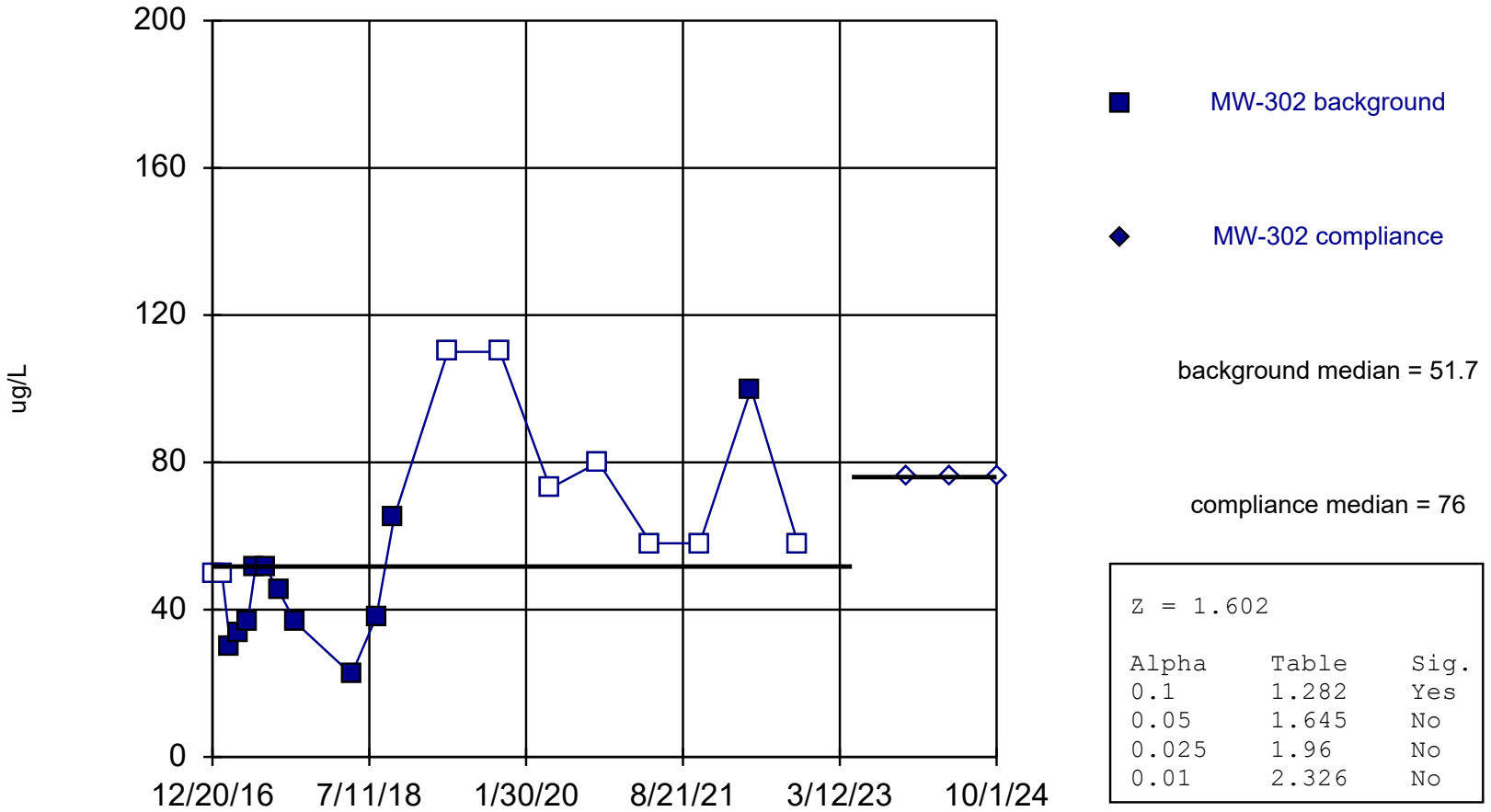
	MW-301	MW-301
12/20/2016	<50 (U)	
1/23/2017	<50 (U)	
2/23/2017	25.2 (J)	
3/28/2017	23.8 (J)	
4/26/2017	37.3 (J)	
5/25/2017	40.8 (J)	
6/28/2017	24.6 (J)	
8/17/2017	28.9 (J)	
10/17/2017	26.8 (J)	
5/8/2018	22.8 (J)	
8/6/2018	30.9 (J)	
10/9/2018	30.6 (J)	
4/22/2019	<110 (U)	
10/28/2019	<110 (U)	
4/27/2020	<73 (U)	
10/19/2020	<80 (U)	
4/27/2021	<58 (U)	
10/21/2021	<58 (U)	
4/25/2022	<58 (U)	
10/12/2022	<58 (U)	
4/20/2023	<380 (UX)	
11/6/2023		<76 (U)
4/18/2024		<76
10/1/2024		<76

ND substitution: RL or RL/2 if <15% NDs.

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Boron

MW-302 (bg)



Z = 1.602

Alpha	Table	Sig.
0.1	1.282	Yes
0.05	1.645	No
0.025	1.96	No
0.01	2.326	No

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Boron (ug/L) Analysis Run 8/7/2025 10:25 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

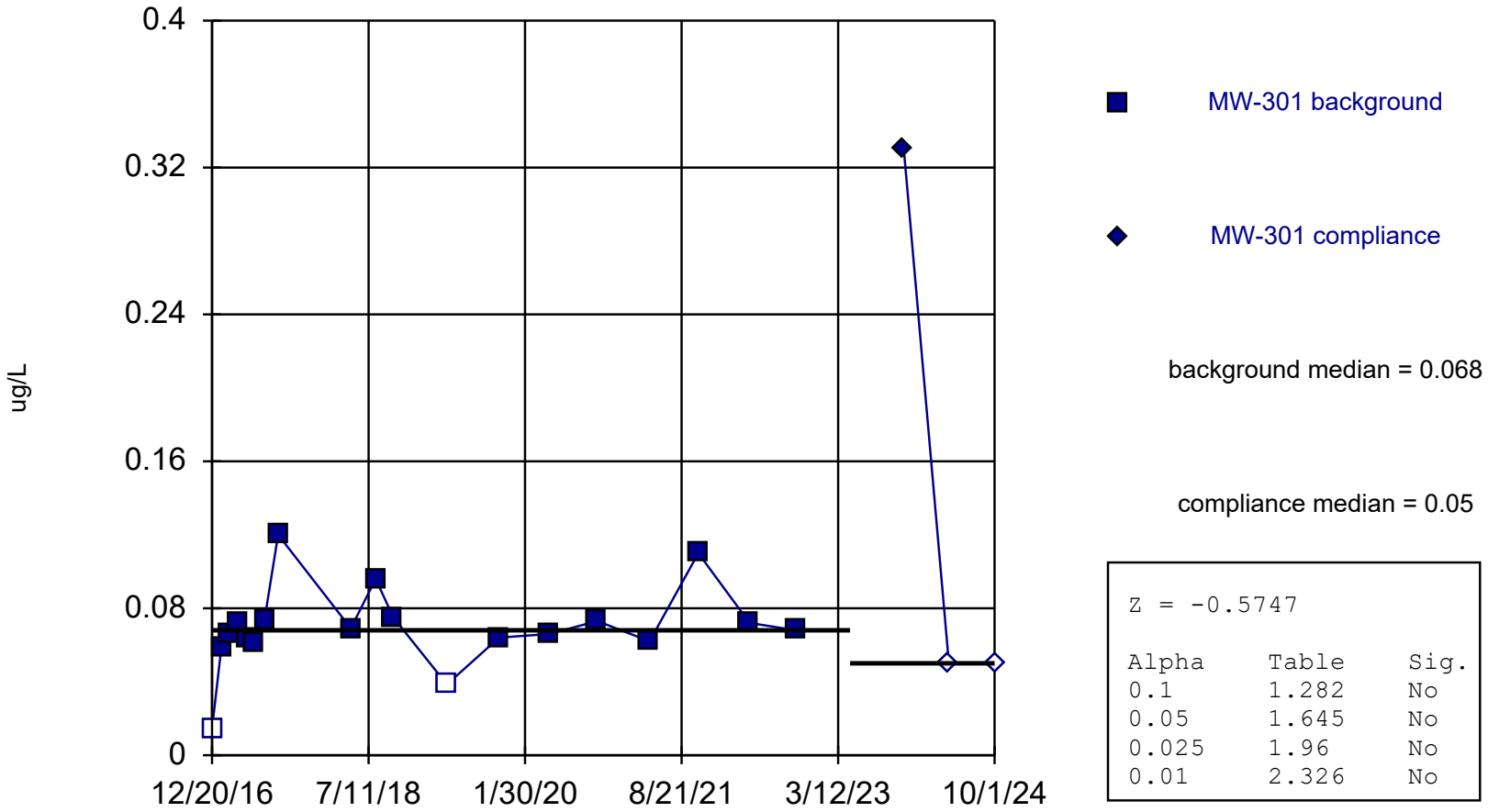
	MW-302	MW-302
12/20/2016	<50 (U)	
1/23/2017	<50 (U)	
2/23/2017	30.1 (J)	
3/28/2017	33.7 (J)	
4/26/2017	36.5 (J)	
5/25/2017	51.6 (J)	
6/28/2017	51.8 (J)	
8/17/2017	45.1 (J)	
10/17/2017	36.5 (J)	
5/8/2018	22.4 (J)	
8/6/2018	38.1 (J)	
10/9/2018	65 (J)	
4/22/2019	<110 (U)	
10/28/2019	<110 (U)	
4/27/2020	<73 (U)	
10/19/2020	<80 (U)	
4/27/2021	<58 (U)	
10/21/2021	<58 (U)	
4/25/2022	100	
10/12/2022	<58 (U)	
4/20/2023	<380 (UX)	
11/7/2023		<76 (U)
4/17/2024		<76
10/1/2024		<76

ND substitution: RL or RL/2 if <15% NDs.

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Cadmium

MW-301 (bg)



Z = -0.5747

Alpha	Table	Sig.
0.1	1.282	No
0.05	1.645	No
0.025	1.96	No
0.01	2.326	No

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Cadmium (ug/L) Analysis Run 8/7/2025 10:25 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

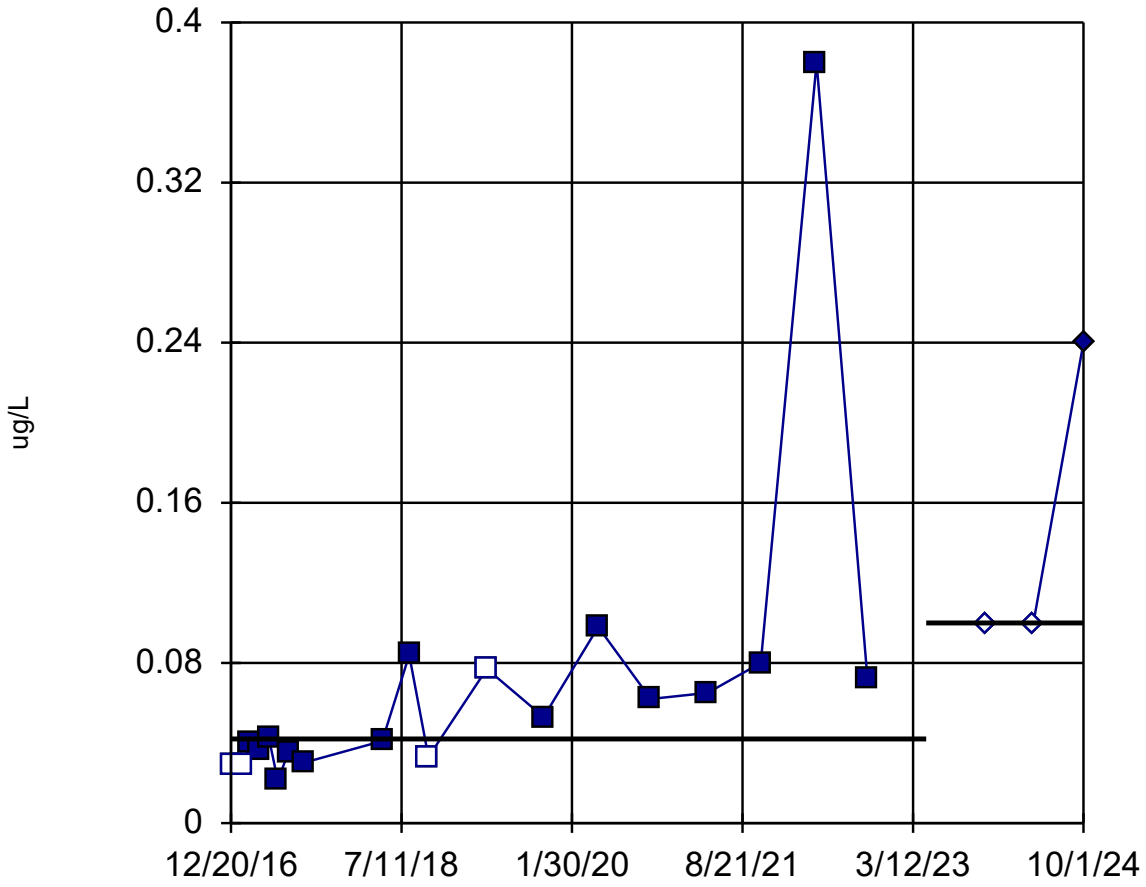
	MW-301	MW-301
12/20/2016	<0.029 (U)	
1/23/2017	0.059 (J)	
2/23/2017	0.066 (J)	
3/28/2017	0.072 (J)	
4/26/2017	0.063 (J)	
5/25/2017	0.061 (J)	
6/28/2017	0.073 (J)	
8/17/2017	0.12 (J)	
5/8/2018	0.069 (J)	
8/6/2018	0.096 (J)	
10/9/2018	0.075 (J)	
4/22/2019	<0.077 (U)	
10/28/2019	0.064 (J)	
4/27/2020	0.066 (J)	
10/19/2020	0.073 (J)	
4/27/2021	0.062 (J)	
10/21/2021	0.11	
4/25/2022	0.072 (J)	
10/12/2022	0.068 (J)	
4/20/2023	<0.5 (UX)	
11/6/2023		0.33
4/18/2024		<0.1
10/1/2024		<0.1

ND substitution: RL or RL/2 if <15% NDs.

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Cadmium

MW-302 (bg)



MW-302 background

MW-302 compliance

background median = 0.042

compliance median = 0.1

Z = 2.393

Alpha	Table	Sig.
0.1	1.282	Yes
0.05	1.645	Yes
0.025	1.96	Yes
0.01	2.326	Yes

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Cadmium (ug/L) Analysis Run 8/7/2025 10:25 AM View: PCS

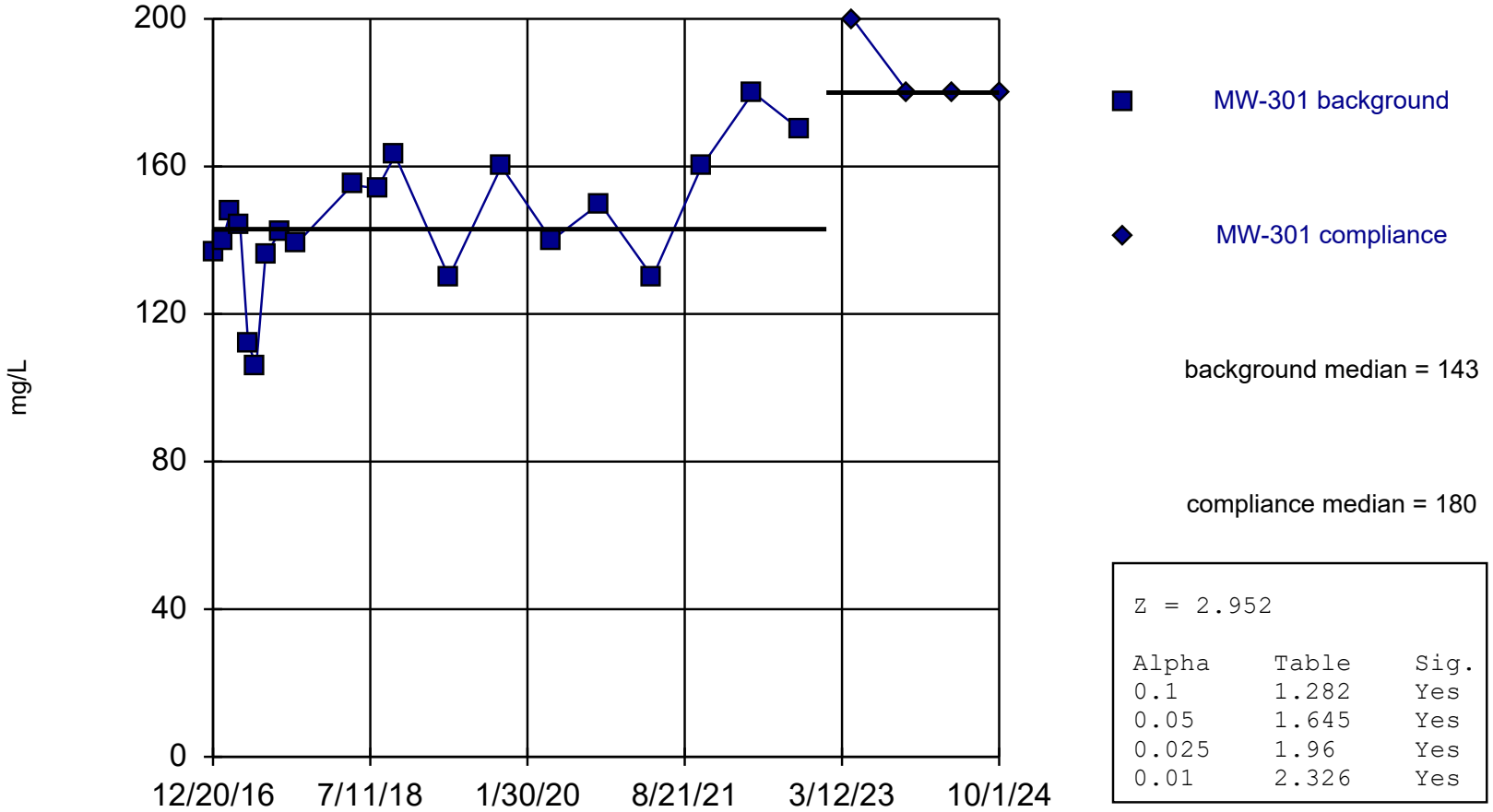
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-302	MW-302
12/20/2016	<0.029 (U)	
1/23/2017	<0.029 (U)	
2/23/2017	0.04 (J)	
3/28/2017	0.036 (J)	
4/26/2017	0.042 (J)	
5/25/2017	0.021 (J)	
6/28/2017	0.035 (J)	
8/17/2017	0.03 (J)	
5/8/2018	0.041 (J)	
8/6/2018	0.084 (J)	
10/9/2018	<0.033 (U)	
4/22/2019	<0.077 (U)	
10/28/2019	0.053 (J)	
4/27/2020	0.098 (J)	
10/19/2020	0.062 (J)	
4/27/2021	0.065 (J)	
10/21/2021	0.08 (J)	
4/25/2022	0.38	
10/12/2022	0.072 (J)	
4/20/2023	<0.5 (UX)	
11/7/2023		<0.1 (U)
4/17/2024		<0.1
10/1/2024		0.24

ND substitution: RL or RL/2 if <15% NDs.

Calcium

MW-301 (bg)



Z = 2.952

Alpha	Table	Sig.
0.1	1.282	Yes
0.05	1.645	Yes
0.025	1.96	Yes
0.01	2.326	Yes

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

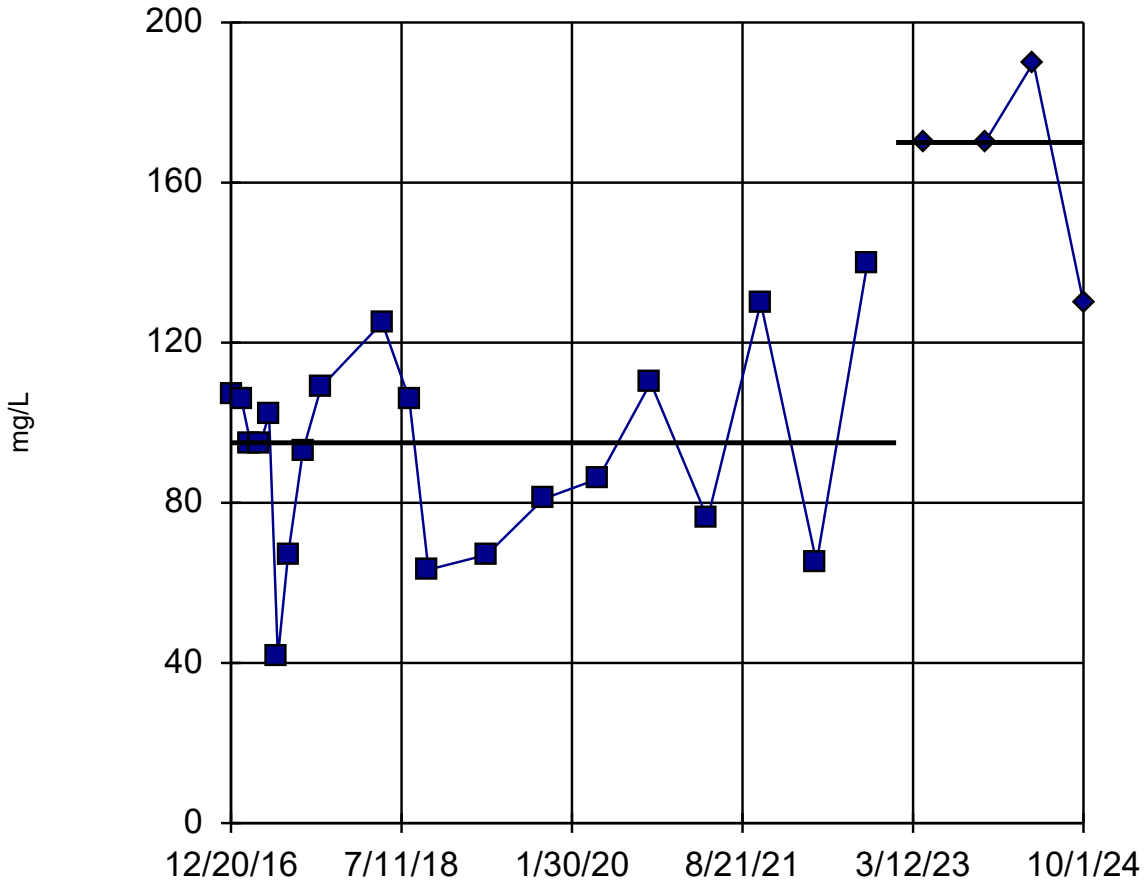
Constituent: Calcium (mg/L) Analysis Run 8/7/2025 10:25 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301	MW-301
12/20/2016	137	
1/23/2017	140	
2/23/2017	148	
3/28/2017	144	
4/26/2017	112	
5/25/2017	106	
6/28/2017	136	
8/17/2017	142	
10/17/2017	139	
5/8/2018	155	
8/6/2018	154	
10/9/2018	163	
4/22/2019	130	
10/28/2019	160	
4/27/2020	140	
10/19/2020	150	
4/27/2021	130	
10/21/2021	160	
4/25/2022	180	
10/12/2022	170	
4/20/2023		200
11/6/2023		180
4/18/2024		180
10/1/2024		180

Calcium

MW-302 (bg)



MW-302 background

MW-302 compliance

background median = 95

compliance median = 170

Z = 2.946

Alpha	Table	Sig.
0.1	1.282	Yes
0.05	1.645	Yes
0.025	1.96	Yes
0.01	2.326	Yes

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:19 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

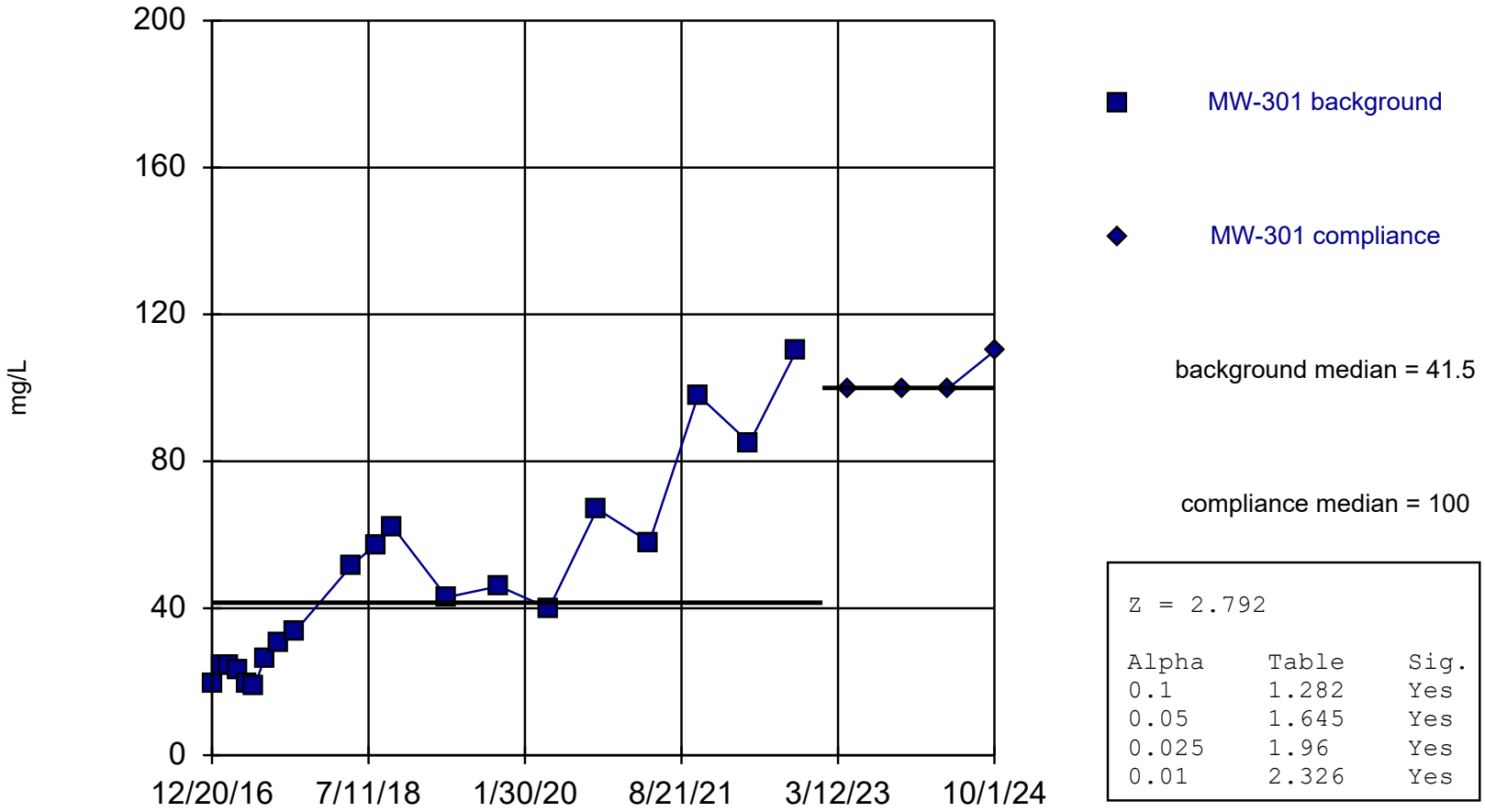
Constituent: Calcium (mg/L) Analysis Run 8/7/2025 10:25 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-302	MW-302
12/20/2016	107	
1/23/2017	106	
2/23/2017	95	
3/28/2017	95	
4/26/2017	102	
5/25/2017	41.4	
6/28/2017	66.7	
8/17/2017	93.1	
10/17/2017	109	
5/8/2018	125	
8/6/2018	106	
10/9/2018	63.3	
4/22/2019	67	
10/28/2019	81	
4/27/2020	86	
10/19/2020	110	
4/27/2021	76	
10/21/2021	130	
4/25/2022	65	
10/12/2022	140	
4/20/2023		170
11/7/2023		170
4/17/2024		190
10/1/2024		130

Chloride

MW-301 (bg)



Z = 2.792

Alpha	Table	Sig.
0.1	1.282	Yes
0.05	1.645	Yes
0.025	1.96	Yes
0.01	2.326	Yes

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:20 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

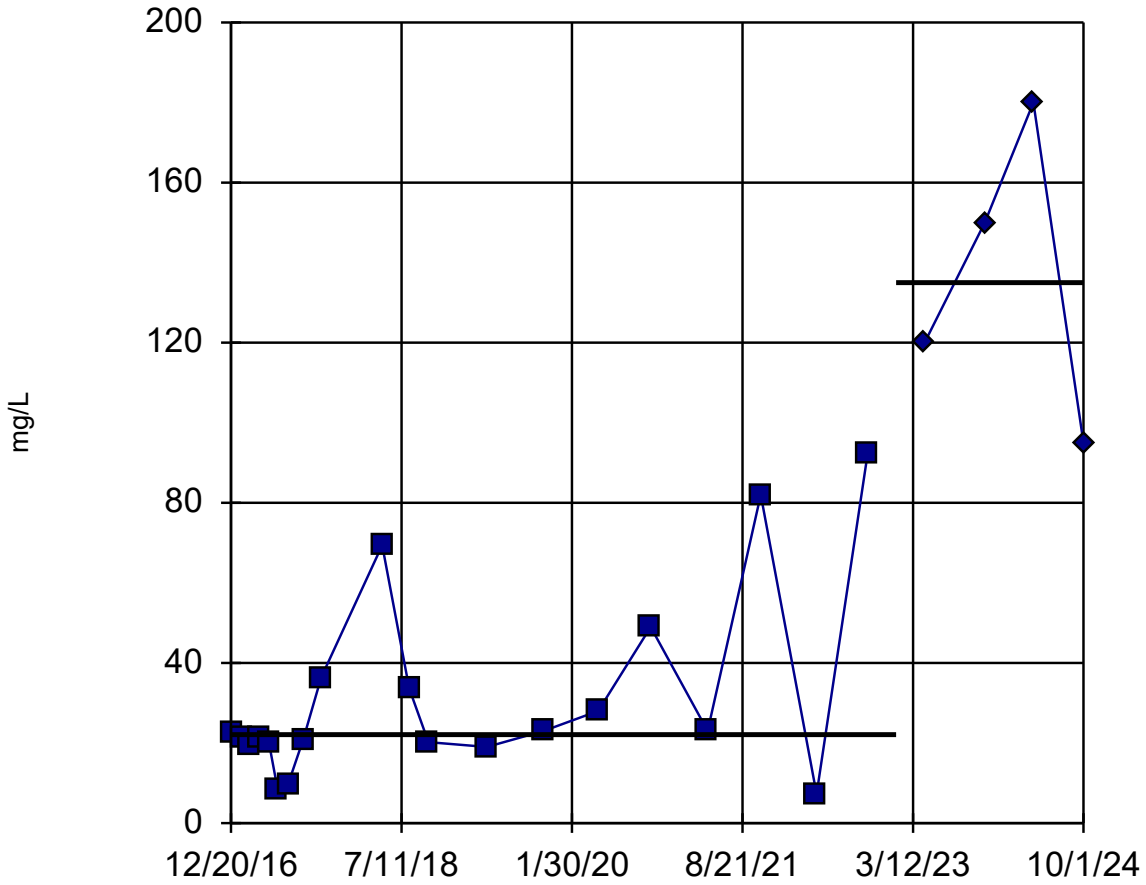
Constituent: Chloride (mg/L) Analysis Run 8/7/2025 10:25 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301	MW-301
12/20/2016	19.5	
1/23/2017	24.1	
2/23/2017	24.4	
3/28/2017	23.3	
4/26/2017	19.2	
5/25/2017	19.1	
6/28/2017	26.2	
8/17/2017	30.4	
10/17/2017	33.6	
5/8/2018	51.4	
8/6/2018	57.4	
10/9/2018	62	
4/22/2019	43	
10/28/2019	46	
4/27/2020	40	
10/19/2020	67	
4/27/2021	58	
10/21/2021	98	
4/25/2022	85	
10/12/2022	110	
4/20/2023		100
11/6/2023		100
4/18/2024		100
10/1/2024		110

Chloride

MW-302 (bg)



MW-302 background

MW-302 compliance

background median = 22.1

compliance median = 135

Z = 3.06

Alpha	Table	Sig.
0.1	1.282	Yes
0.05	1.645	Yes
0.025	1.96	Yes
0.01	2.326	Yes

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:20 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

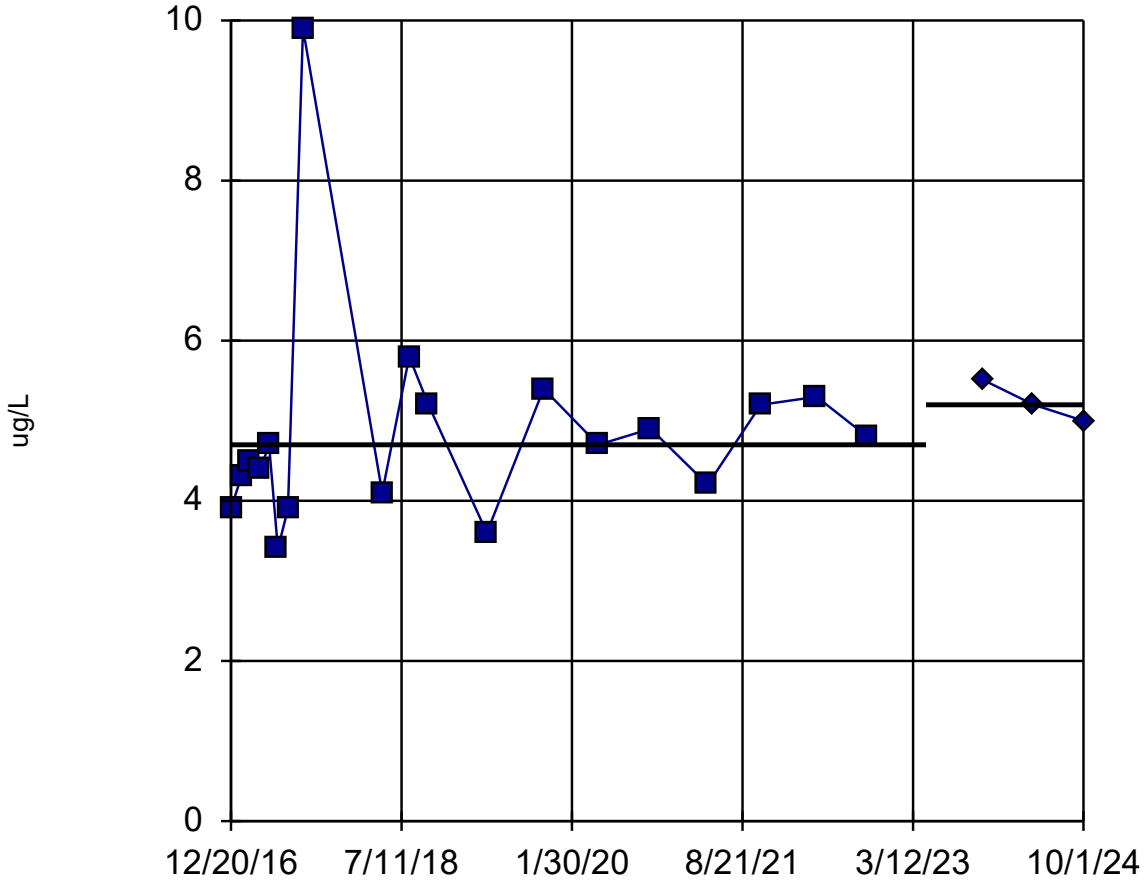
Constituent: Chloride (mg/L) Analysis Run 8/7/2025 10:25 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-302	MW-302
12/20/2016	22.6	
1/23/2017	21.4	
2/23/2017	19.2	
3/28/2017	21.6	
4/26/2017	19.9	
5/25/2017	8.1	
6/28/2017	9.6	
8/17/2017	20.7	
10/17/2017	36.4	
5/8/2018	69.4	
8/6/2018	33.6	
10/9/2018	20.2	
4/22/2019	19	
10/28/2019	23	
4/27/2020	28	
10/19/2020	49	
4/27/2021	23	
10/21/2021	82	
4/25/2022	7.2	
10/12/2022	92	
4/20/2023		120
11/7/2023		150
4/17/2024		180
10/1/2024		95

Chromium

MW-301 (bg)



MW-301 background

MW-301 compliance

background median = 4.7

compliance median = 5.2

Z = 1.438

Alpha	Table	Sig.
0.1	1.282	Yes
0.05	1.645	No
0.025	1.96	No
0.01	2.326	No

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:20 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chromium (ug/L) Analysis Run 8/7/2025 10:25 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301	MW-301
12/20/2016	3.9	
1/23/2017	4.3	
2/23/2017	4.5	
3/28/2017	4.4	
4/26/2017	4.7	
5/25/2017	3.4	
6/28/2017	3.9	
8/17/2017	9.9	
5/8/2018	4.1	
8/6/2018	5.8	
10/9/2018	5.2	
4/22/2019	3.6 (J)	
10/28/2019	5.4	
4/27/2020	4.7 (J)	
10/19/2020	4.9 (J)	
4/27/2021	4.2 (J)	
10/21/2021	5.2	
4/25/2022	5.3	
10/12/2022	4.8 (J)	
4/20/2023	<5.5 (UX)	
11/6/2023		5.5
4/18/2024		5.2
10/1/2024		5

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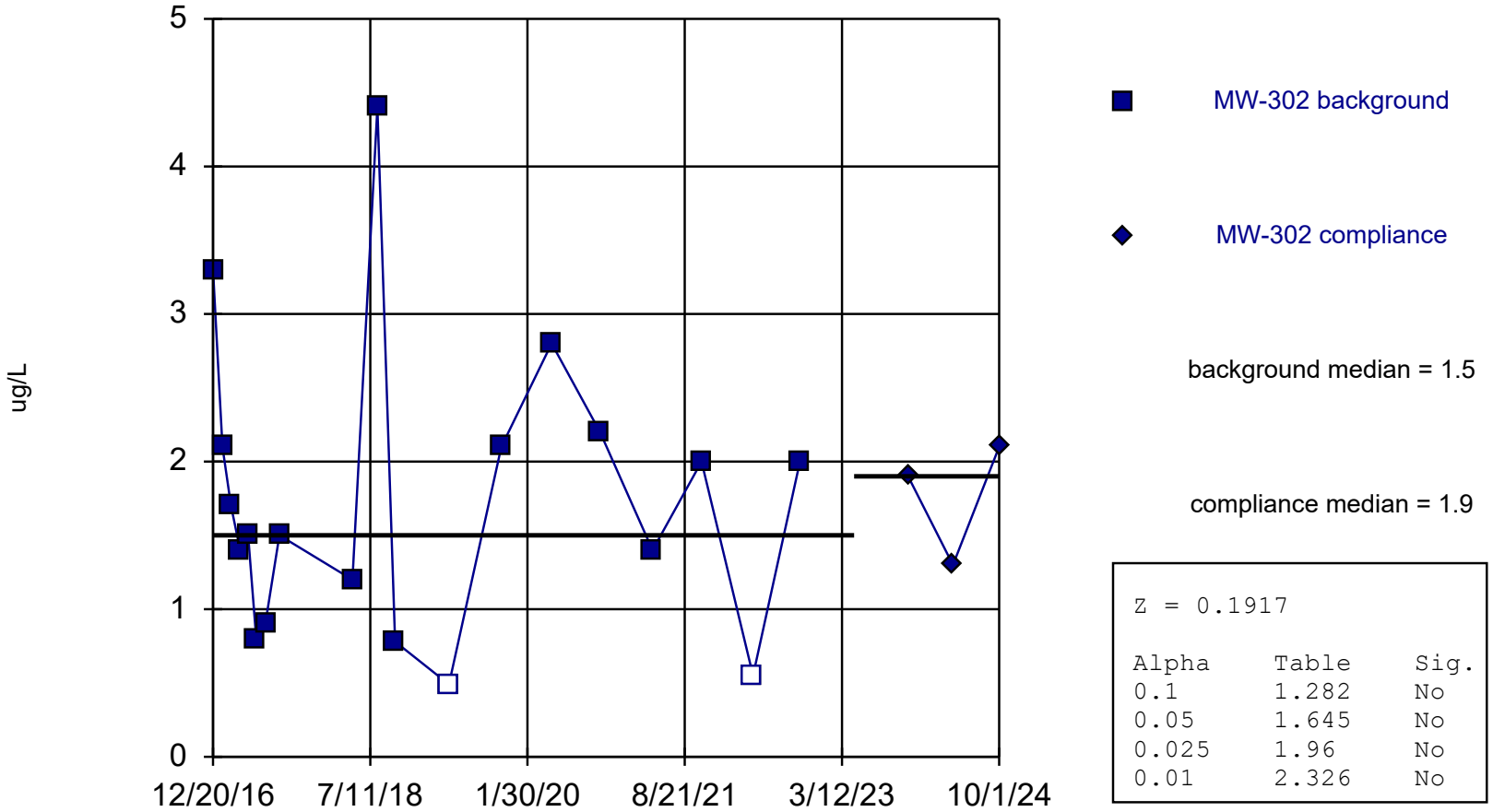
Hollow symbols indicate censored values.

Chromium

MW-302 (bg)



Z = 0.1917

Alpha	Table	Sig.
0.1	1.282	No
0.05	1.645	No
0.025	1.96	No
0.01	2.326	No

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:20 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chromium (ug/L) Analysis Run 8/7/2025 10:25 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-302	MW-302
12/20/2016	3.3	
1/23/2017	2.1	
2/23/2017	1.7	
3/28/2017	1.4	
4/26/2017	1.5	
5/25/2017	0.8 (J)	
6/28/2017	0.91 (J)	
8/17/2017	1.5	
5/8/2018	1.2	
8/6/2018	4.4	
10/9/2018	0.78 (J)	
4/22/2019	<0.98 (U)	
10/28/2019	2.1 (J)	
4/27/2020	2.8 (J)	
10/19/2020	2.2 (J)	
4/27/2021	1.4 (J)	
10/21/2021	2 (J)	
4/25/2022	<1.1 (U)	
10/12/2022	2 (J)	
4/20/2023	<5.5 (UX)	
11/7/2023		1.9 (J)
4/17/2024		1.3 (J)
10/1/2024		2.1 (J)

ND substitution: RL or RL/2 if <15% NDs.

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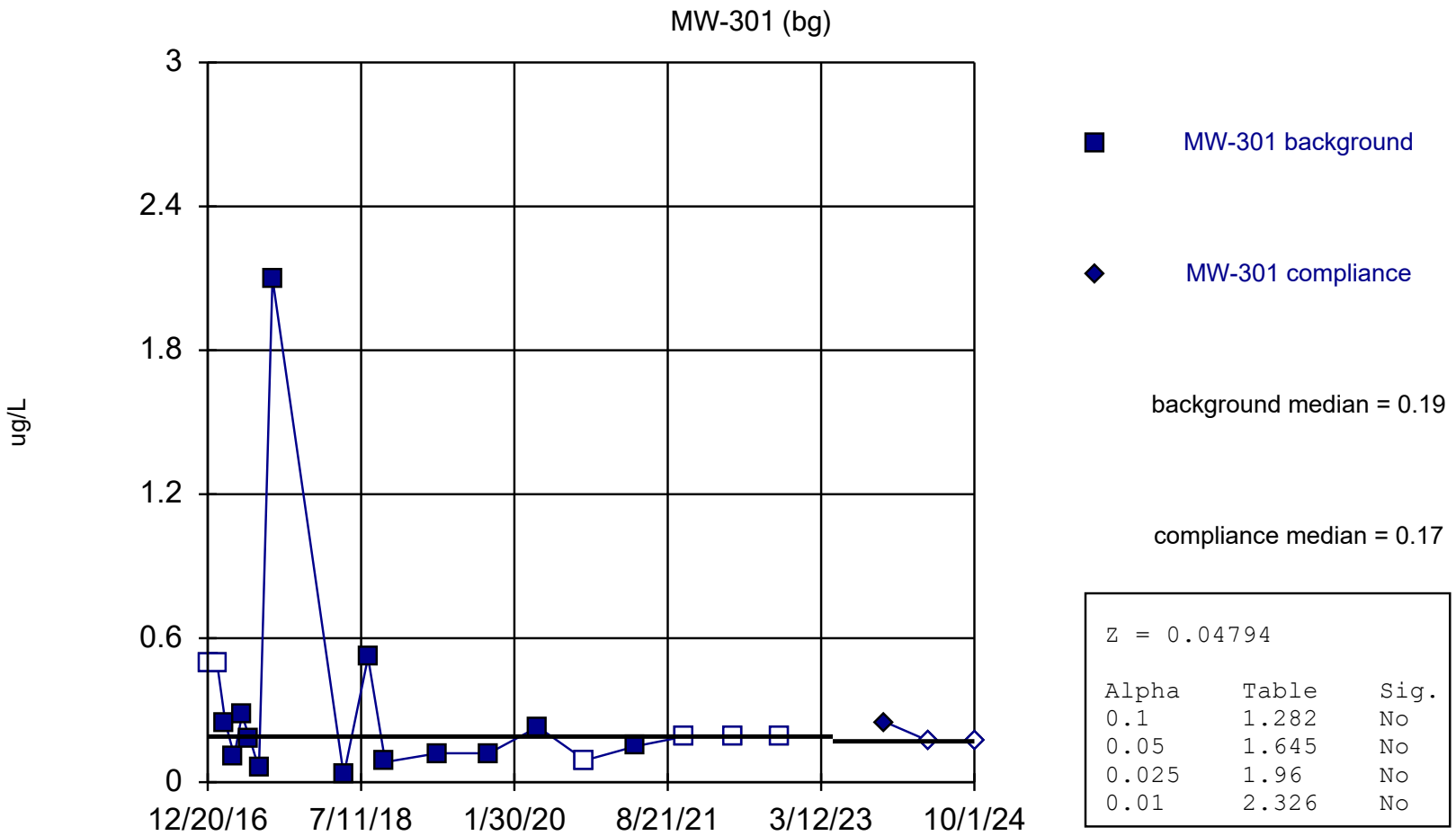
Hollow symbols indicate censored values.

Cobalt



Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:20 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Cobalt (ug/L) Analysis Run 8/7/2025 10:25 AM View: PCS

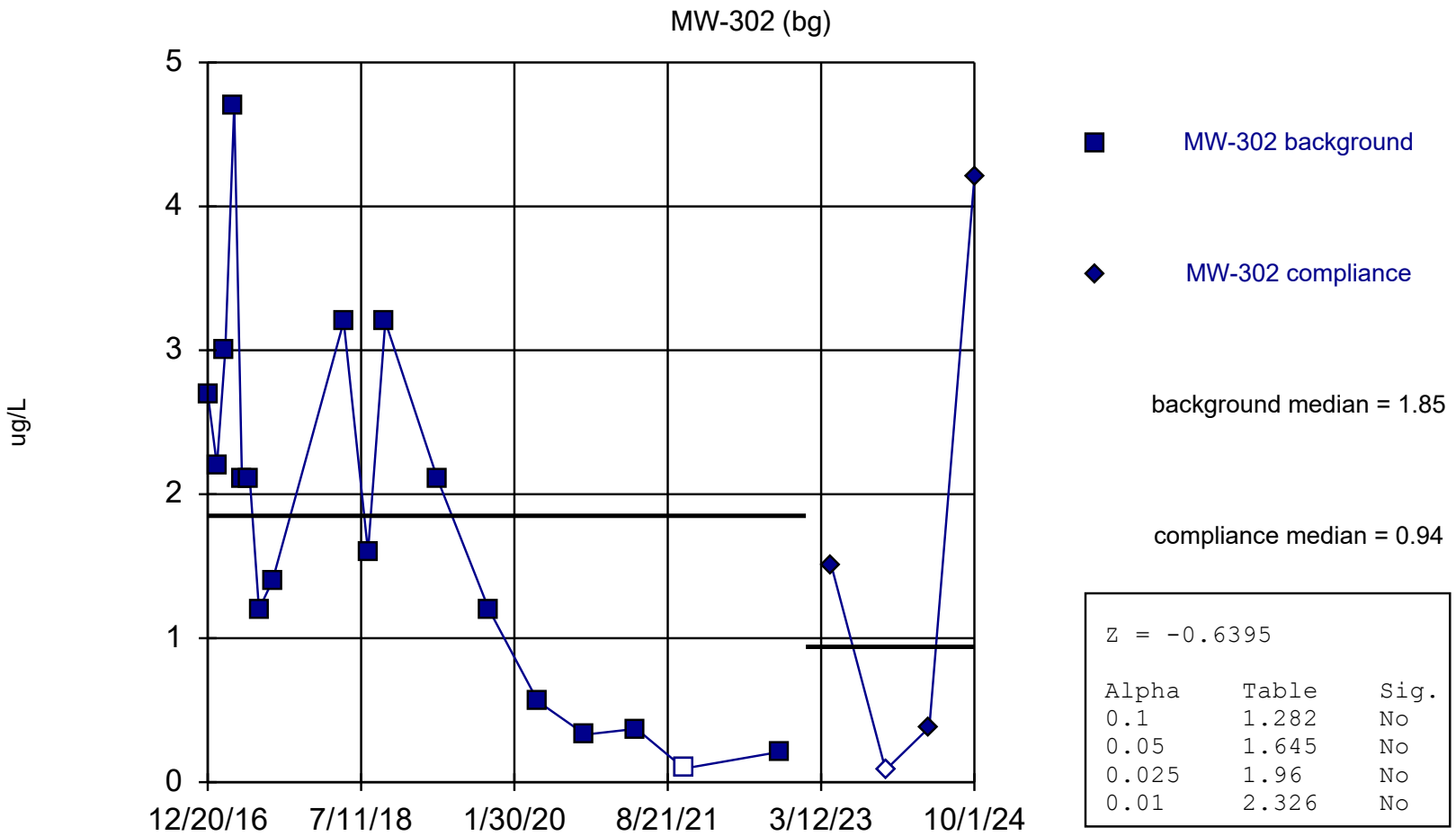
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301	MW-301
12/20/2016	<0.5 (U)	
1/23/2017	<0.5 (U)	
2/23/2017	0.25 (J)	
3/28/2017	0.11 (J)	
4/26/2017	0.28 (J)	
5/25/2017	0.18 (J)	
6/28/2017	0.057 (J)	
8/17/2017	2.1	
5/8/2018	0.028 (J)	
8/6/2018	0.52 (J)	
10/9/2018	0.084 (J)	
4/22/2019	0.12 (J)	
10/28/2019	0.12 (J)	
4/27/2020	0.23 (J)	
10/19/2020	<0.091 (U)	
4/27/2021	0.15 (J)	
10/21/2021	<0.19 (U)	
4/25/2022	<0.19 (U)	
10/12/2022	<0.19 (U)	
4/20/2023	<0.85 (UX)	
11/6/2023		0.25 (J)
4/18/2024		<0.17
10/1/2024		<0.17

ND substitution: RL or RL/2 if <15% NDs.

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Cobalt



Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:20 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Cobalt (ug/L) Analysis Run 8/7/2025 10:25 AM View: PCS

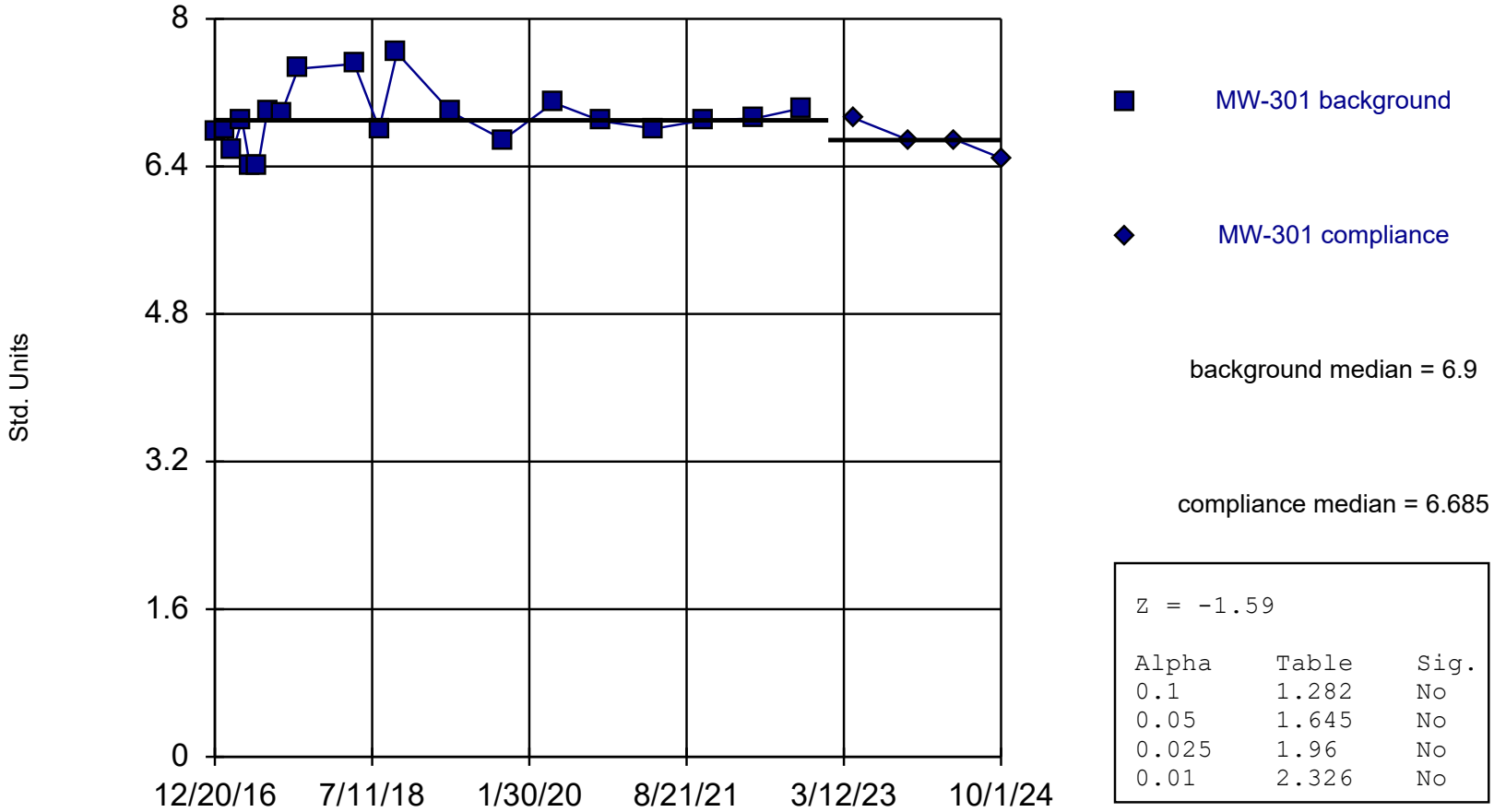
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-302	MW-302
12/20/2016	2.7	
1/23/2017	2.2	
2/23/2017	3	
3/28/2017	4.7	
4/26/2017	2.1	
5/25/2017	2.1	
6/28/2017	1.2	
8/17/2017	1.4	
5/8/2018	3.2	
8/6/2018	1.6	
10/9/2018	3.2	
4/22/2019	2.1	
10/28/2019	1.2	
4/27/2020	0.56	
10/19/2020	0.33 (J)	
4/27/2021	0.37 (J)	
10/21/2021	<0.19 (U)	
4/25/2022	31 (X)	
10/12/2022	0.21 (J)	
4/20/2023		1.5 (J)
11/7/2023		<0.17 (U)
4/17/2024		0.38 (J)
10/1/2024		4.2

ND substitution: RL or RL/2 if <15% NDs.

Field pH

MW-301 (bg)



Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:20 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

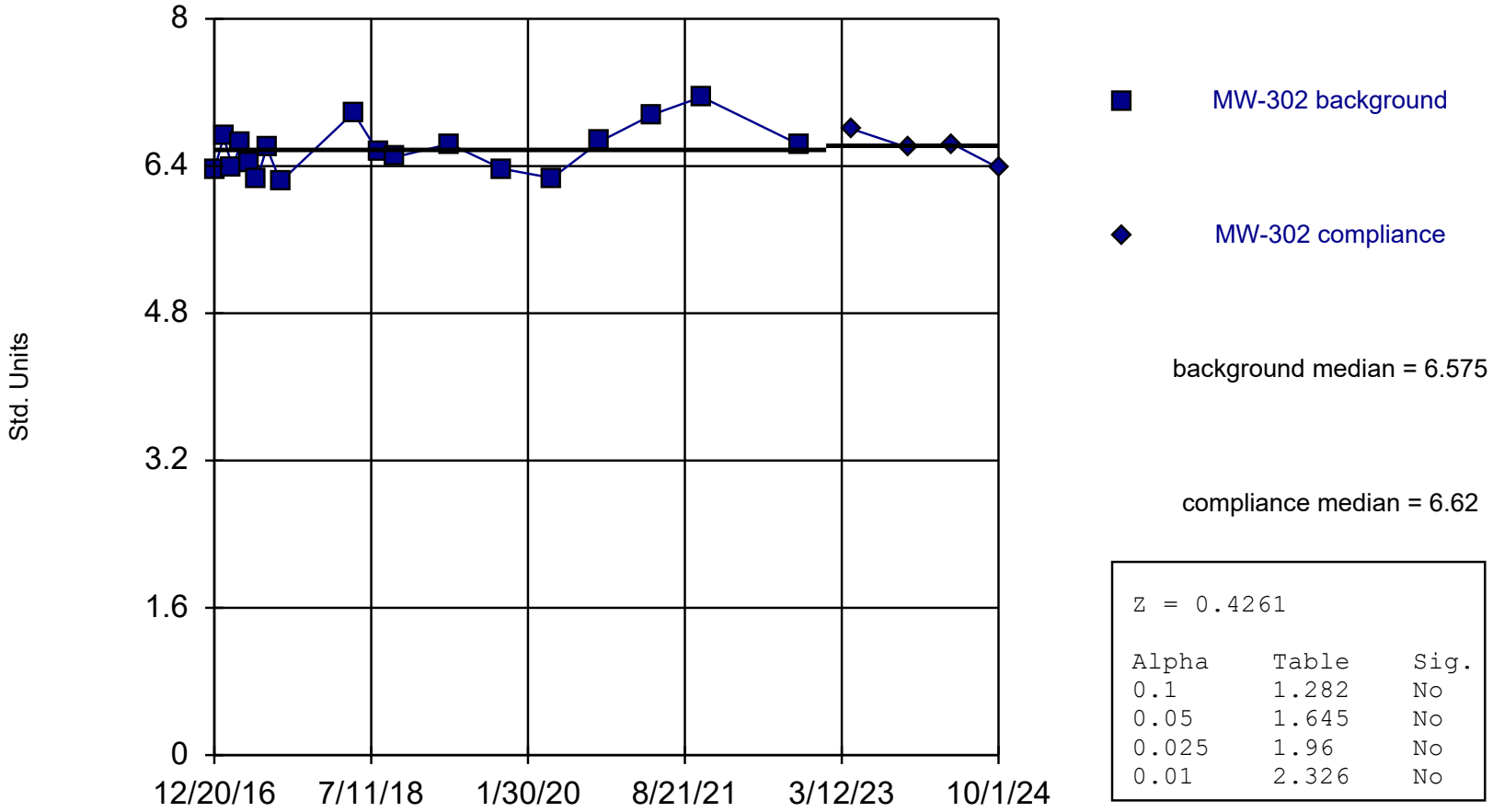
Constituent: Field pH (Std. Units) Analysis Run 8/7/2025 10:25 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301	MW-301
12/20/2016	6.78	
1/23/2017	6.8	
2/23/2017	6.57	
3/28/2017	6.9	
4/26/2017	6.41	
5/25/2017	6.41	
6/28/2017	7	
8/17/2017	6.97	
10/17/2017	7.46	
5/8/2018	7.51	
8/6/2018	6.81	
10/9/2018	7.63	
4/22/2019	6.99	
10/28/2019	6.69	
4/27/2020	7.09	
10/19/2020	6.89	
4/27/2021	6.81	
10/21/2021	6.9	
4/25/2022	6.92	
10/12/2022	7.03	
4/20/2023		6.92
11/6/2023		6.68
4/18/2024		6.69
10/1/2024		6.49

Field pH

MW-302 (bg)



background median = 6.575

compliance median = 6.62

Z = 0.4261

Alpha	Table	Sig.
0.1	1.282	No
0.05	1.645	No
0.025	1.96	No
0.01	2.326	No

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:20 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Field pH (Std. Units) Analysis Run 8/7/2025 10:25 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-302	MW-302
12/20/2016	6.36	
1/23/2017	6.72	
2/23/2017	6.38	
3/28/2017	6.66	
4/26/2017	6.44	
5/25/2017	6.27	
6/28/2017	6.6	
8/17/2017	6.23	
10/17/2017	7.71 (X)	
5/8/2018	6.98	
8/6/2018	6.55	
10/9/2018	6.5	
4/22/2019	6.64	
10/28/2019	6.37	
4/27/2020	6.27	
10/19/2020	6.67	
4/27/2021	6.96	
10/21/2021	7.15	
4/25/2022	5.35 (X)	
10/12/2022	6.63	
4/20/2023		6.8
11/7/2023		6.6
4/17/2024		6.64
10/1/2024		6.38

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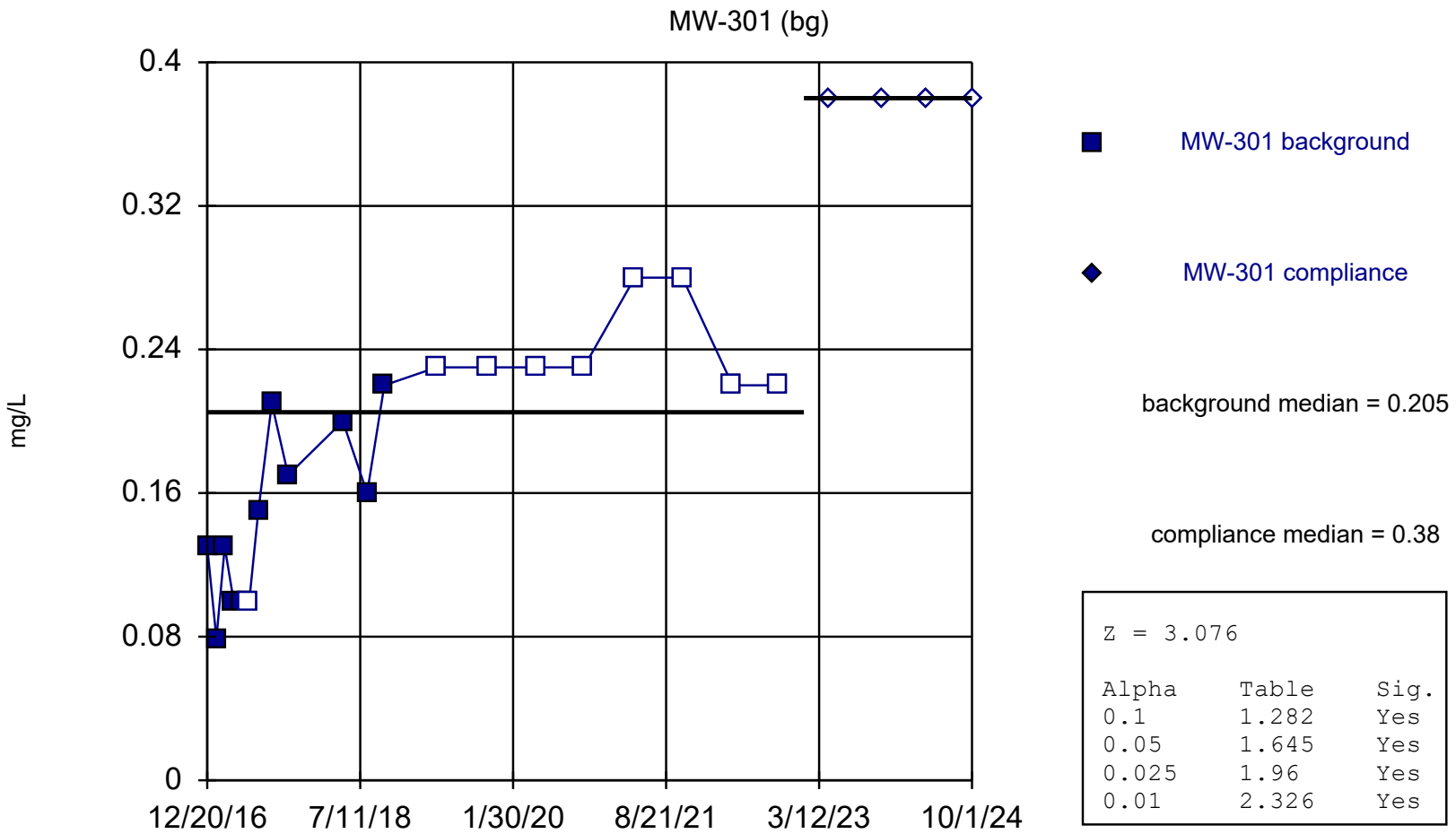
Hollow symbols indicate censored values.

Fluoride



Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:20 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Fluoride (mg/L) Analysis Run 8/7/2025 10:25 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301	MW-301
12/20/2016	0.13 (J)	
1/23/2017	0.079 (J)	
2/23/2017	0.13 (J)	
3/28/2017	0.1 (J)	
4/26/2017	0.1 (J)	
5/25/2017	<0.1 (U)	
6/28/2017	0.15 (J)	
8/17/2017	0.21	
10/17/2017	0.17 (J)	
5/8/2018	0.2 (J)	
8/6/2018	0.16 (J)	
10/9/2018	0.22	
4/22/2019	<0.23 (U)	
10/28/2019	<0.23 (U)	
4/27/2020	<0.23 (U)	
10/19/2020	<0.23 (U)	
4/27/2021	<0.28 (U)	
10/21/2021	<0.28 (U)	
4/25/2022	<0.22 (U)	
10/12/2022	<0.22 (U)	
4/20/2023		<0.38 (U)
11/6/2023		<0.38 (U)
4/18/2024		<0.38
10/1/2024		<0.38

ND substitution: RL or RL/2 if <15% NDs.

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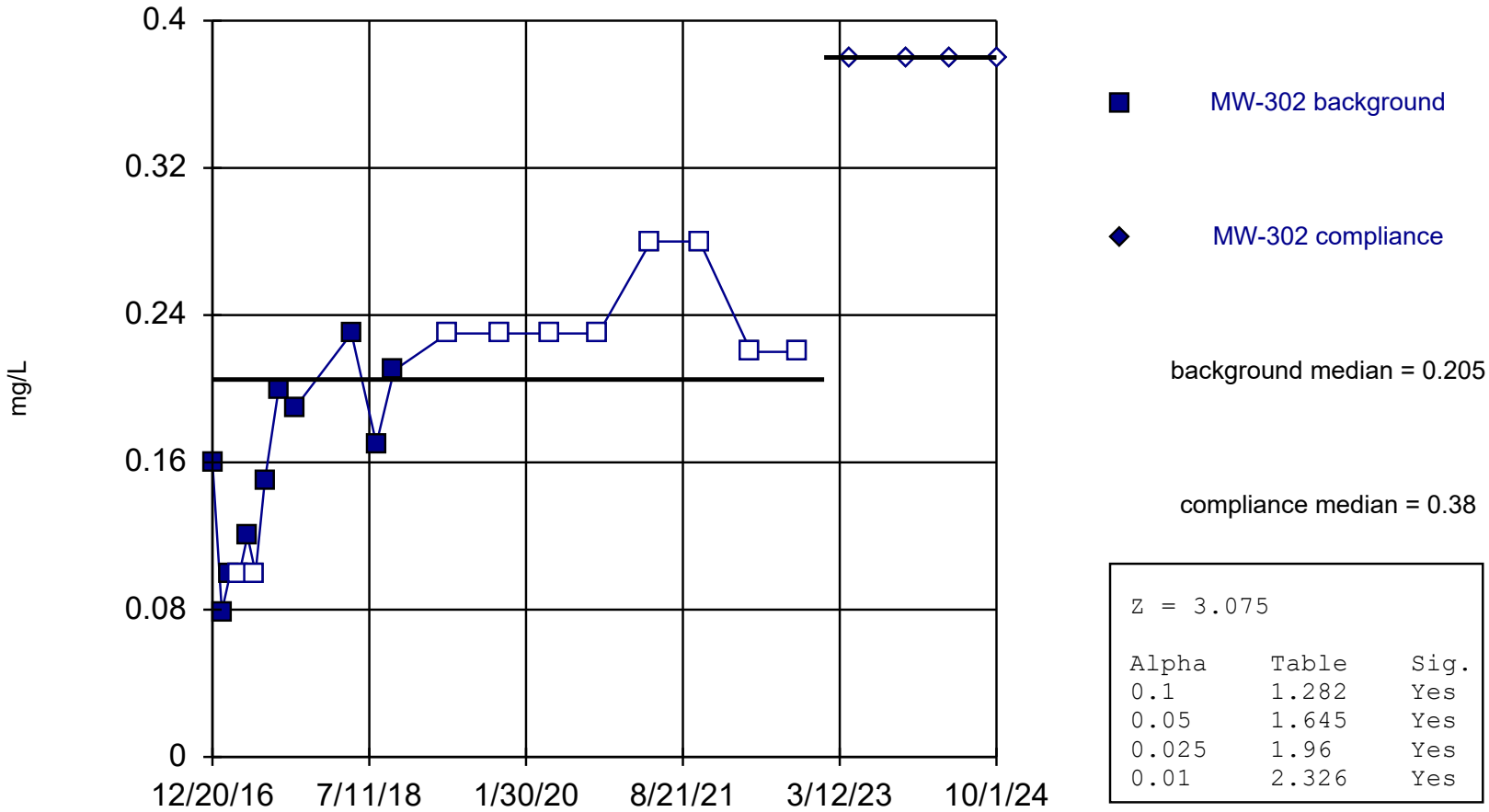
Hollow symbols indicate censored values.

Fluoride

MW-302 (bg)



Z = 3.075

Alpha	Table	Sig.
0.1	1.282	Yes
0.05	1.645	Yes
0.025	1.96	Yes
0.01	2.326	Yes

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:20 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

02/27/2026 - Classification: Internal - ECRM13684604

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Fluoride (mg/L) Analysis Run 8/7/2025 10:25 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-302	MW-302
12/20/2016	0.16 (J)	
1/23/2017	0.079 (J)	
2/23/2017	0.1 (J)	
3/28/2017	<0.1 (U)	
4/26/2017	0.12 (J)	
5/25/2017	<0.1 (U)	
6/28/2017	0.15 (J)	
8/17/2017	0.2 (J)	
10/17/2017	0.19 (J)	
5/8/2018	0.23	
8/6/2018	0.17 (J)	
10/9/2018	0.21	
4/22/2019	<0.23 (U)	
10/28/2019	<0.23 (U)	
4/27/2020	<0.23 (U)	
10/19/2020	<0.23 (U)	
4/27/2021	<0.28 (U)	
10/21/2021	<0.28 (U)	
4/25/2022	<0.22 (U)	
10/12/2022	<0.22 (U)	
4/20/2023		<0.38 (U)
11/7/2023		<0.38 (U)
4/17/2024		<0.38
10/1/2024		<0.38

ND substitution: RL or RL/2 if <15% NDs.

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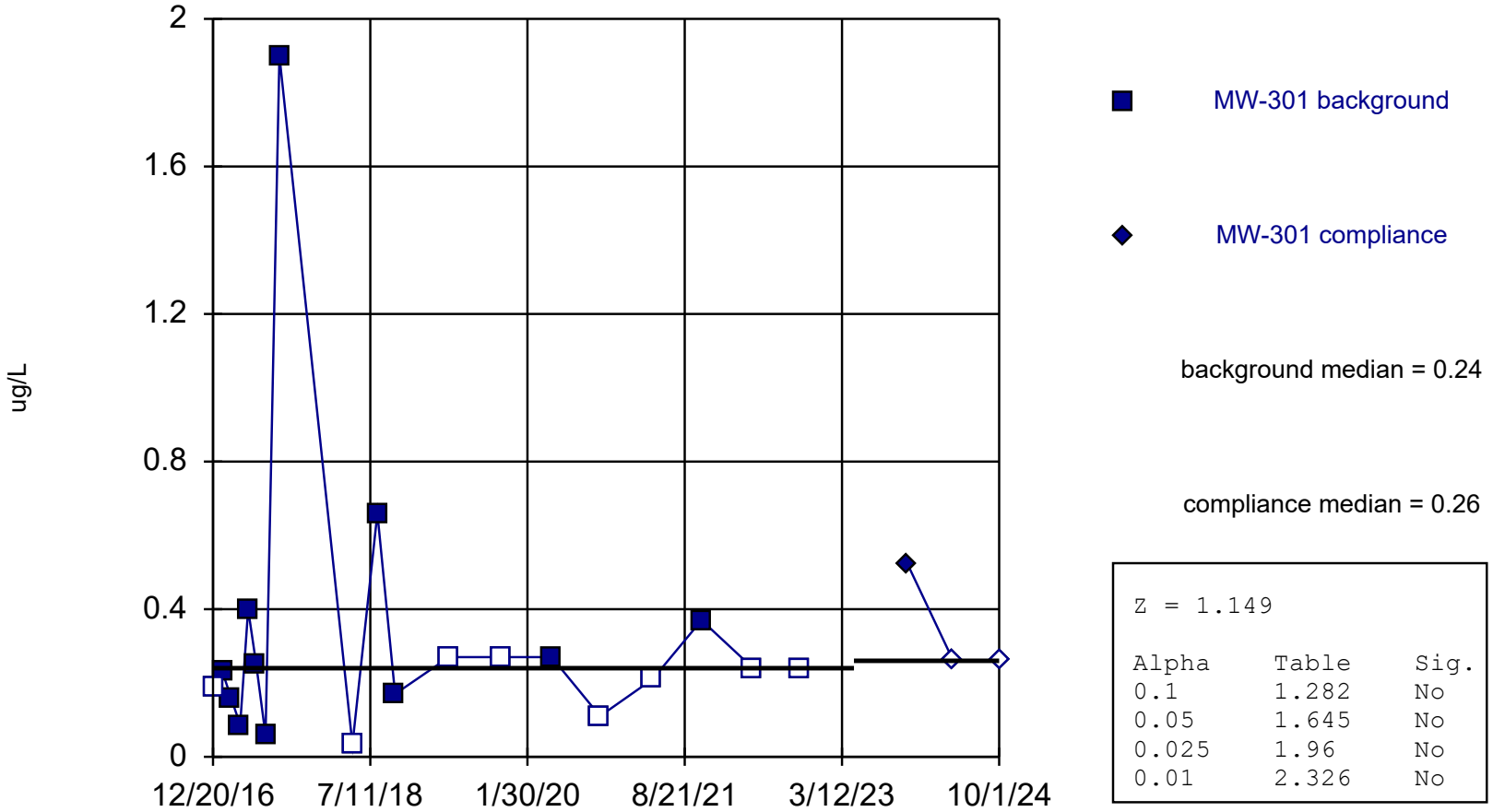
Hollow symbols indicate censored values.

Lead

MW-301 (bg)



Z = 1.149

Alpha	Table	Sig.
0.1	1.282	No
0.05	1.645	No
0.025	1.96	No
0.01	2.326	No

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:21 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

02/27/2026 - Classification: Internal - ECRM13684604

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Lead (ug/L) Analysis Run 8/7/2025 10:25 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301	MW-301
12/20/2016	<0.19 (U)	
1/23/2017	0.23 (J)	
2/23/2017	0.16 (J)	
3/28/2017	0.086 (J)	
4/26/2017	0.4 (J)	
5/25/2017	0.25 (J)	
6/28/2017	0.058 (J)	
8/17/2017	1.9	
5/8/2018	<0.033 (U)	
8/6/2018	0.66 (J)	
10/9/2018	0.17 (J)	
4/22/2019	<0.27 (U)	
10/28/2019	<0.27 (U)	
4/27/2020	0.27 (J)	
10/19/2020	<0.11 (U)	
4/27/2021	<0.21 (U)	
10/21/2021	0.37 (J)	
4/25/2022	<0.24 (U)	
10/12/2022	<0.24 (U)	
4/20/2023	<1.2 (UX)	
11/6/2023		0.52
4/18/2024		<0.26
10/1/2024		<0.26

ND substitution: RL or RL/2 if <15% NDs.

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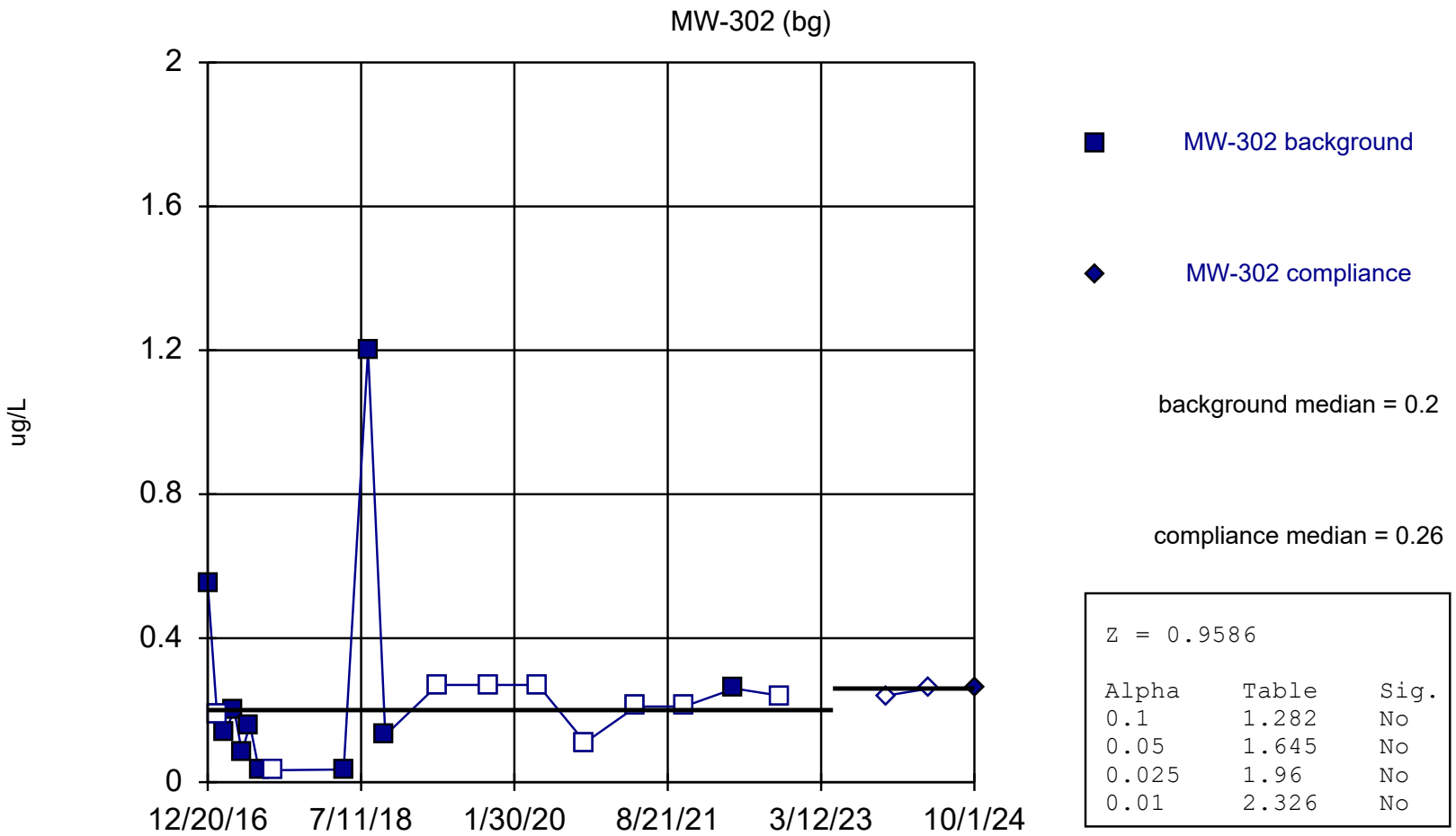
Hollow symbols indicate censored values.

Lead



Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:21 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Lead (ug/L) Analysis Run 8/7/2025 10:25 AM View: PCS

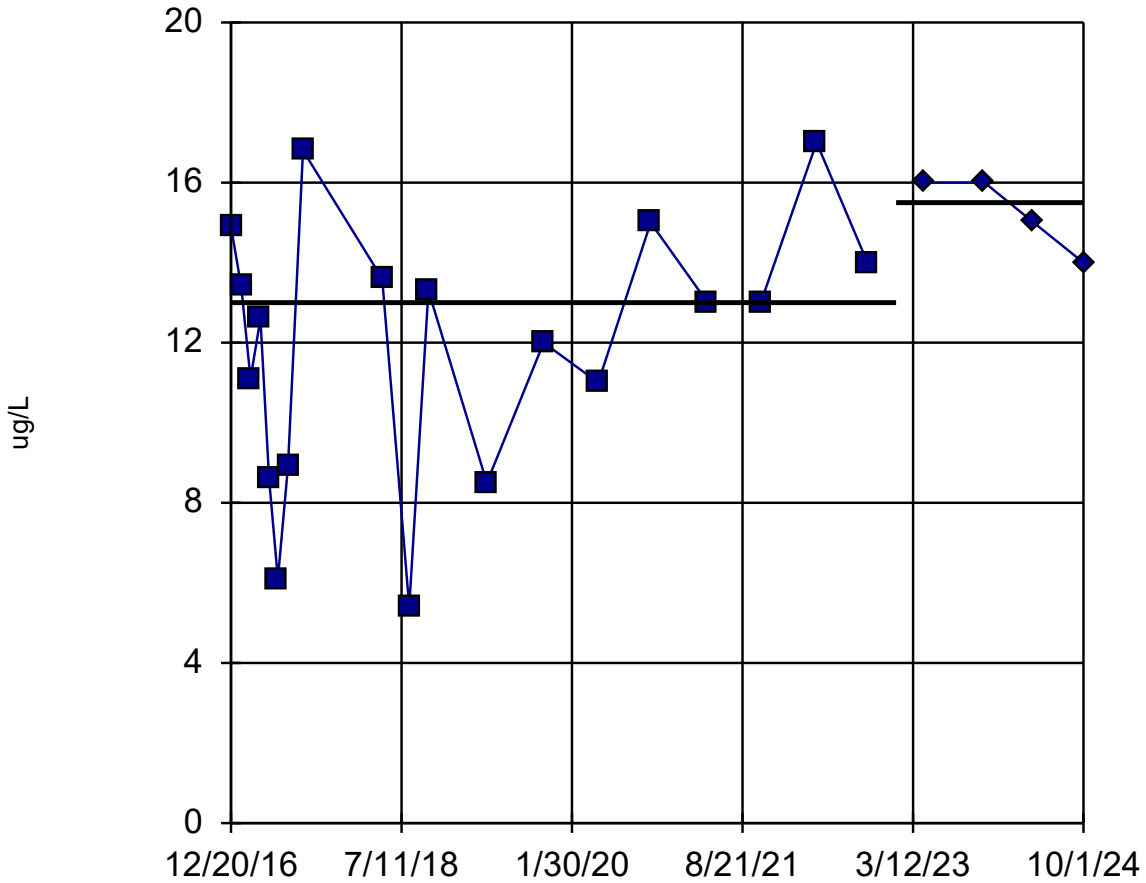
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-302	MW-302
12/20/2016	0.55 (J)	
1/23/2017	<0.19 (U)	
2/23/2017	0.14 (J)	
3/28/2017	0.2 (J)	
4/26/2017	0.083 (J)	
5/25/2017	0.16 (J)	
6/28/2017	0.034 (J)	
8/17/2017	<0.033 (U)	
5/8/2018	0.035 (J)	
8/6/2018	1.2	
10/9/2018	0.13 (J)	
4/22/2019	<0.27 (U)	
10/28/2019	<0.27 (U)	
4/27/2020	<0.27 (U)	
10/19/2020	<0.11 (U)	
4/27/2021	<0.21 (U)	
10/21/2021	<0.21 (U)	
4/25/2022	0.26 (J)	
10/12/2022	<0.24 (U)	
4/20/2023	<1.2 (UX)	
11/7/2023		<0.24 (U)
4/17/2024		<0.26
10/1/2024		0.26 (J)

ND substitution: RL or RL/2 if <15% NDs.

Lithium

MW-301 (bg)



MW-301 background

MW-301 compliance

background median = 13

compliance median = 15.5

Z = 2.152

Alpha	Table	Sig.
0.1	1.282	Yes
0.05	1.645	Yes
0.025	1.96	Yes
0.01	2.326	No

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:21 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Lithium (ug/L) Analysis Run 8/7/2025 10:25 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301	MW-301
12/20/2016	14.9	
1/23/2017	13.4	
2/23/2017	11.1	
3/28/2017	12.6	
4/26/2017	8.6 (J)	
5/25/2017	6.1 (J)	
6/28/2017	8.9 (J)	
8/17/2017	16.8	
5/8/2018	13.6	
8/6/2018	5.4 (J)	
10/9/2018	13.3	
4/22/2019	8.5 (J)	
10/28/2019	12	
4/27/2020	11	
10/19/2020	15	
4/27/2021	13	
10/21/2021	13	
4/25/2022	17	
10/12/2022	14	
4/20/2023		16 (J)
11/6/2023		16
4/18/2024		15
10/1/2024		14

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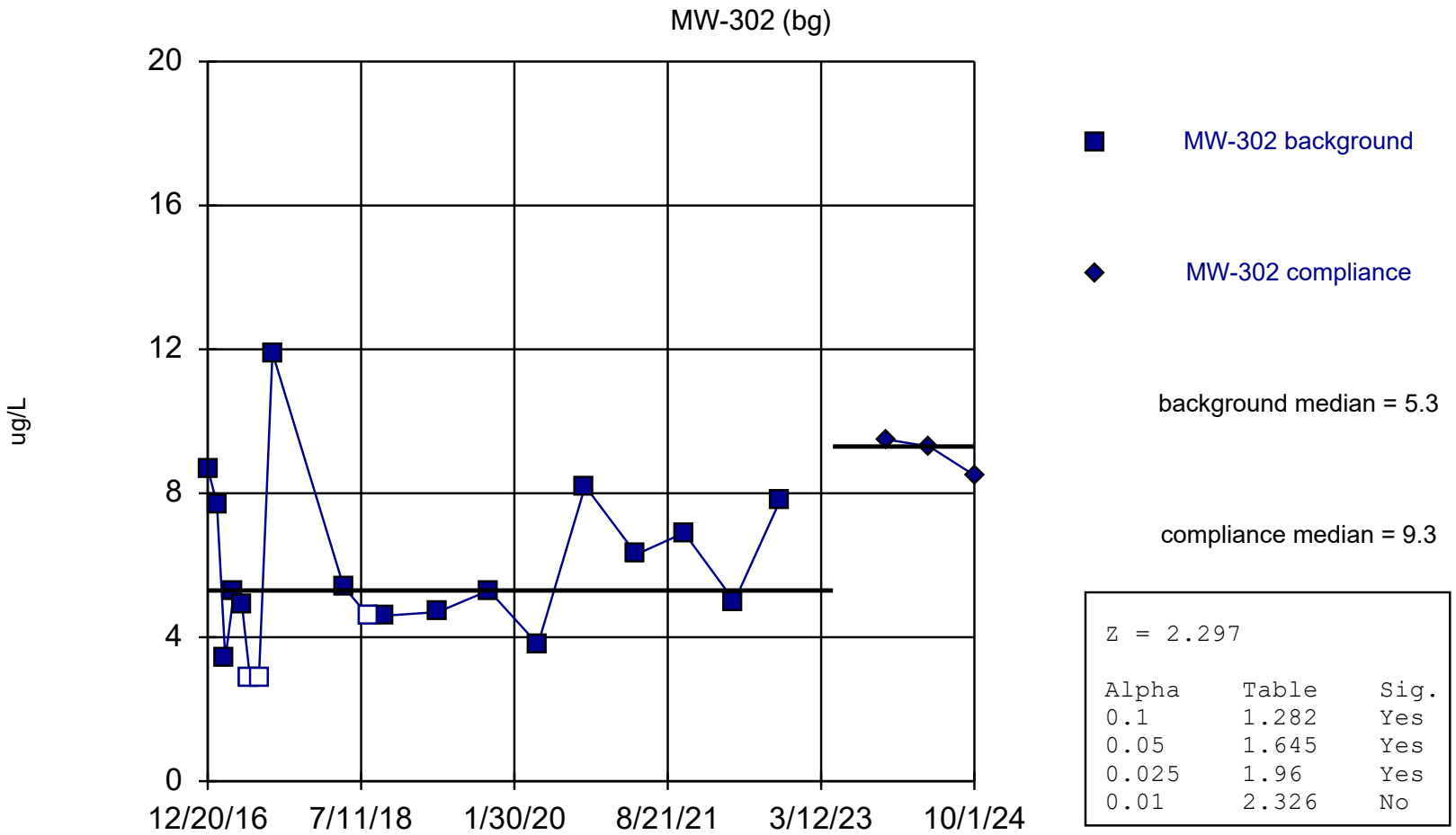
Hollow symbols indicate censored values.

Lithium



Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:21 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Lithium (ug/L) Analysis Run 8/7/2025 10:26 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

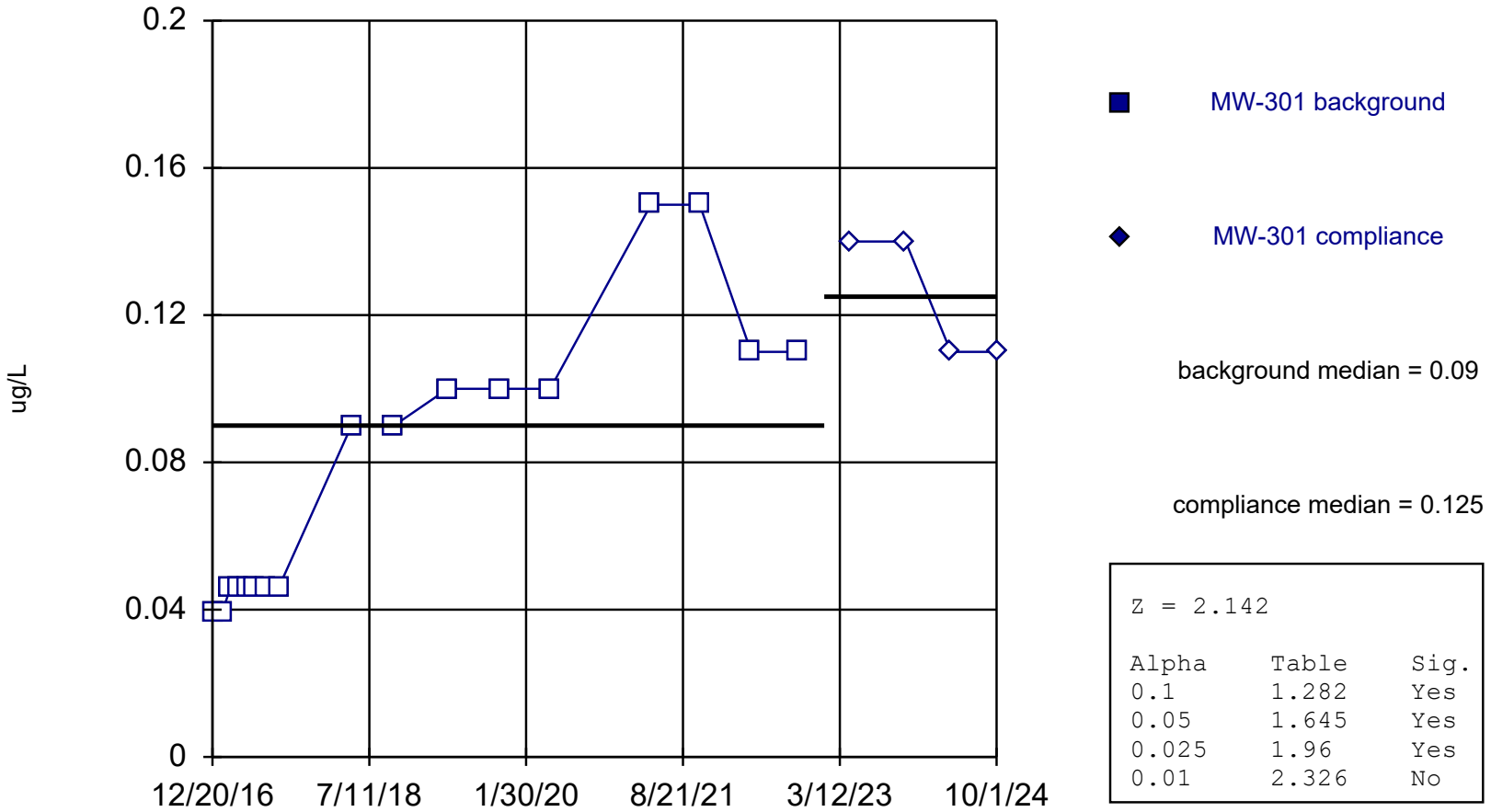
	MW-302	MW-302
12/20/2016	8.7 (J)	
1/23/2017	7.7 (J)	
2/23/2017	3.4 (J)	
3/28/2017	5.3 (J)	
4/26/2017	4.9 (J)	
5/25/2017	<2.9 (U)	
6/28/2017	<2.9 (U)	
8/17/2017	11.9	
5/8/2018	5.4 (J)	
8/6/2018	<4.6 (U)	
10/9/2018	4.6 (J)	
4/22/2019	4.7 (J)	
10/28/2019	5.3 (J)	
4/27/2020	3.8 (J)	
10/19/2020	8.2 (J)	
4/27/2021	6.3 (J)	
10/21/2021	6.9 (J)	
4/25/2022	5 (J)	
10/12/2022	7.8 (J)	
4/20/2023	<13 (UX)	
11/7/2023		9.5 (J)
4/17/2024		9.3 (J)
10/1/2024		8.5 (J)

ND substitution: RL or RL/2 if <15% NDs.

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Mercury

MW-301 (bg)



Z = 2.142

Alpha	Table	Sig.
0.1	1.282	Yes
0.05	1.645	Yes
0.025	1.96	Yes
0.01	2.326	No

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:21 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Mercury (ug/L) Analysis Run 8/7/2025 10:26 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301	MW-301
12/20/2016	<0.039 (U)	
1/23/2017	<0.039 (U)	
2/23/2017	<0.046 (U)	
3/28/2017	<0.046 (U)	
4/26/2017	<0.046 (U)	
5/25/2017	<0.046 (U)	
6/28/2017	<0.046 (U)	
8/17/2017	<0.046 (U)	
5/8/2018	<0.09 (U)	
10/9/2018	<0.09 (U)	
4/22/2019	<0.1 (U)	
10/28/2019	<0.1 (U)	
4/27/2020	<0.1 (U)	
4/27/2021	<0.15 (U)	
10/21/2021	<0.15 (U)	
4/25/2022	<0.11 (U)	
10/12/2022	<0.11 (U)	
4/20/2023		<0.14 (U)
11/6/2023		<0.14 (U)
4/18/2024		<0.11
10/1/2024		<0.11

ND substitution: RL or RL/2 if <15% NDs.

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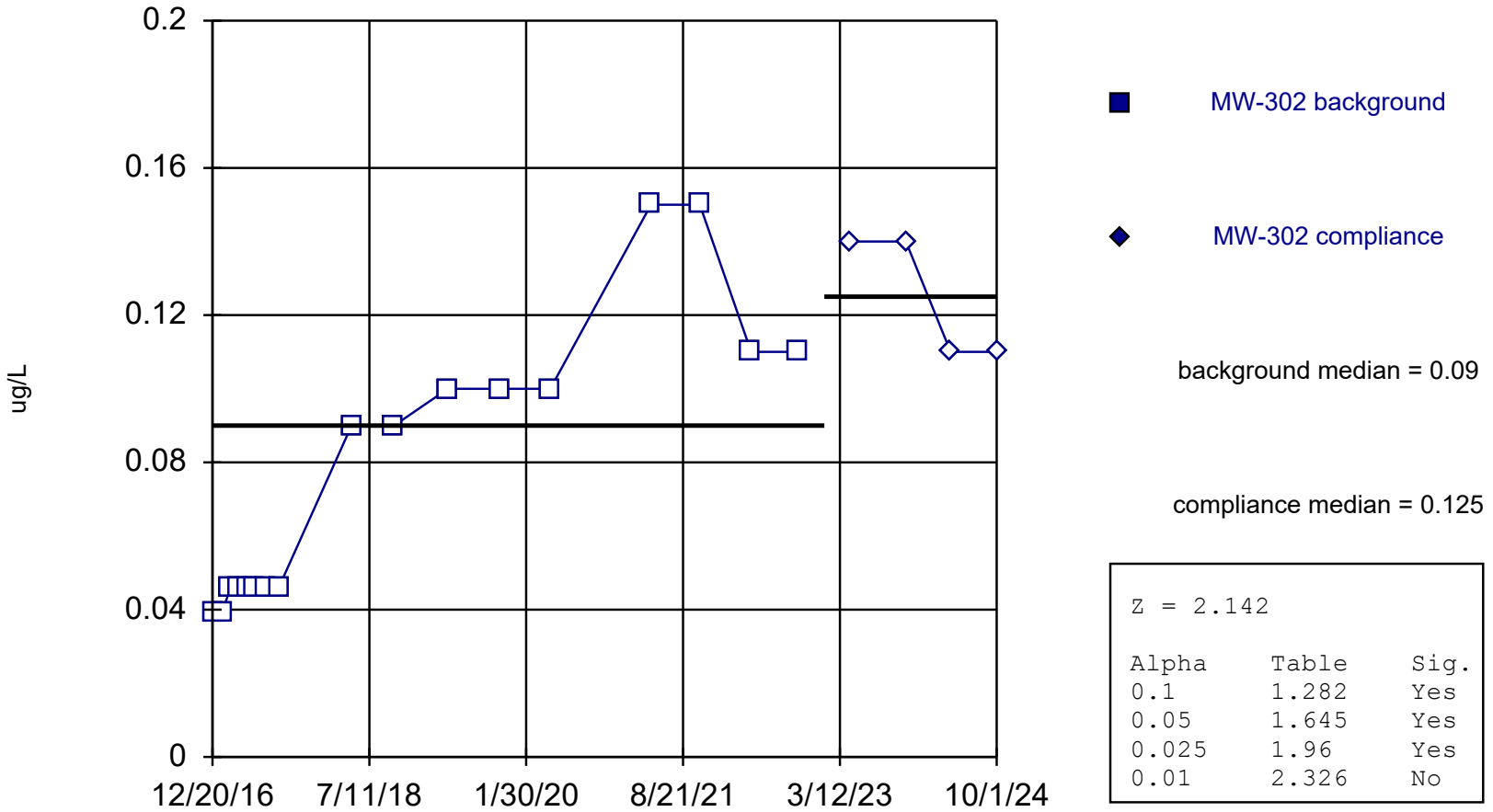
Hollow symbols indicate censored values.

Mercury

MW-302 (bg)



Z = 2.142

Alpha	Table	Sig.
0.1	1.282	Yes
0.05	1.645	Yes
0.025	1.96	Yes
0.01	2.326	No

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:21 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Mercury (ug/L) Analysis Run 8/7/2025 10:26 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-302	MW-302
12/20/2016	<0.039 (U)	
1/23/2017	<0.039 (U)	
2/23/2017	<0.046 (U)	
3/28/2017	<0.046 (U)	
4/26/2017	<0.046 (U)	
5/25/2017	<0.046 (U)	
6/28/2017	<0.046 (U)	
8/17/2017	<0.046 (U)	
5/8/2018	<0.09 (U)	
10/9/2018	<0.09 (U)	
4/22/2019	<0.1 (U)	
10/28/2019	<0.1 (U)	
4/27/2020	<0.1 (U)	
4/27/2021	<0.15 (U)	
10/21/2021	<0.15 (U)	
4/25/2022	<0.11 (U)	
10/12/2022	<0.11 (U)	
4/20/2023		<0.14 (U)
11/7/2023		<0.14 (U)
4/17/2024		<0.11
10/1/2024		<0.11

ND substitution: RL or RL/2 if <15% NDs.

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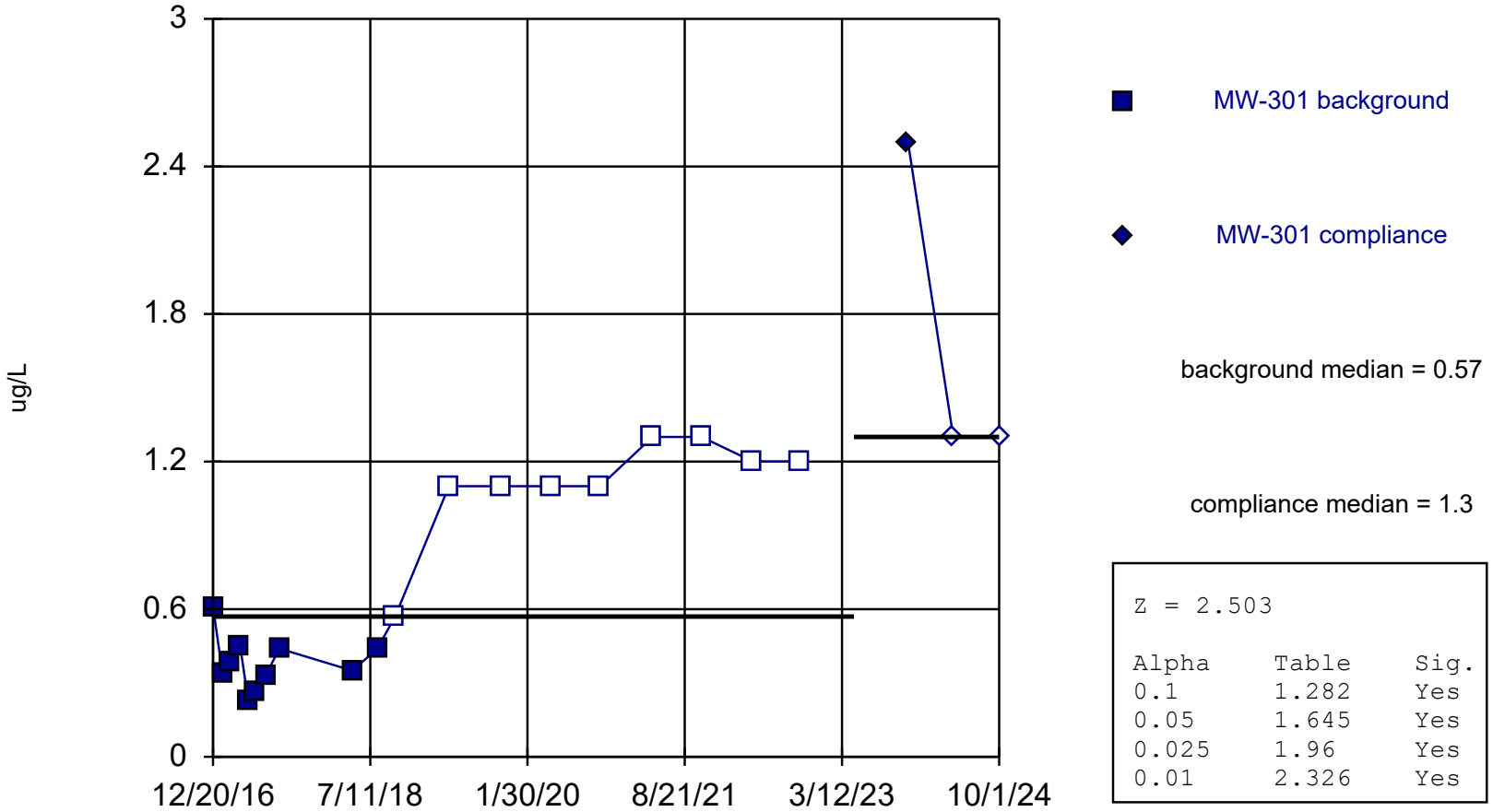
Hollow symbols indicate censored values.

Molybdenum

MW-301 (bg)



Z = 2.503

Alpha	Table	Sig.
0.1	1.282	Yes
0.05	1.645	Yes
0.025	1.96	Yes
0.01	2.326	Yes

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:21 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Molybdenum (ug/L) Analysis Run 8/7/2025 10:26 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

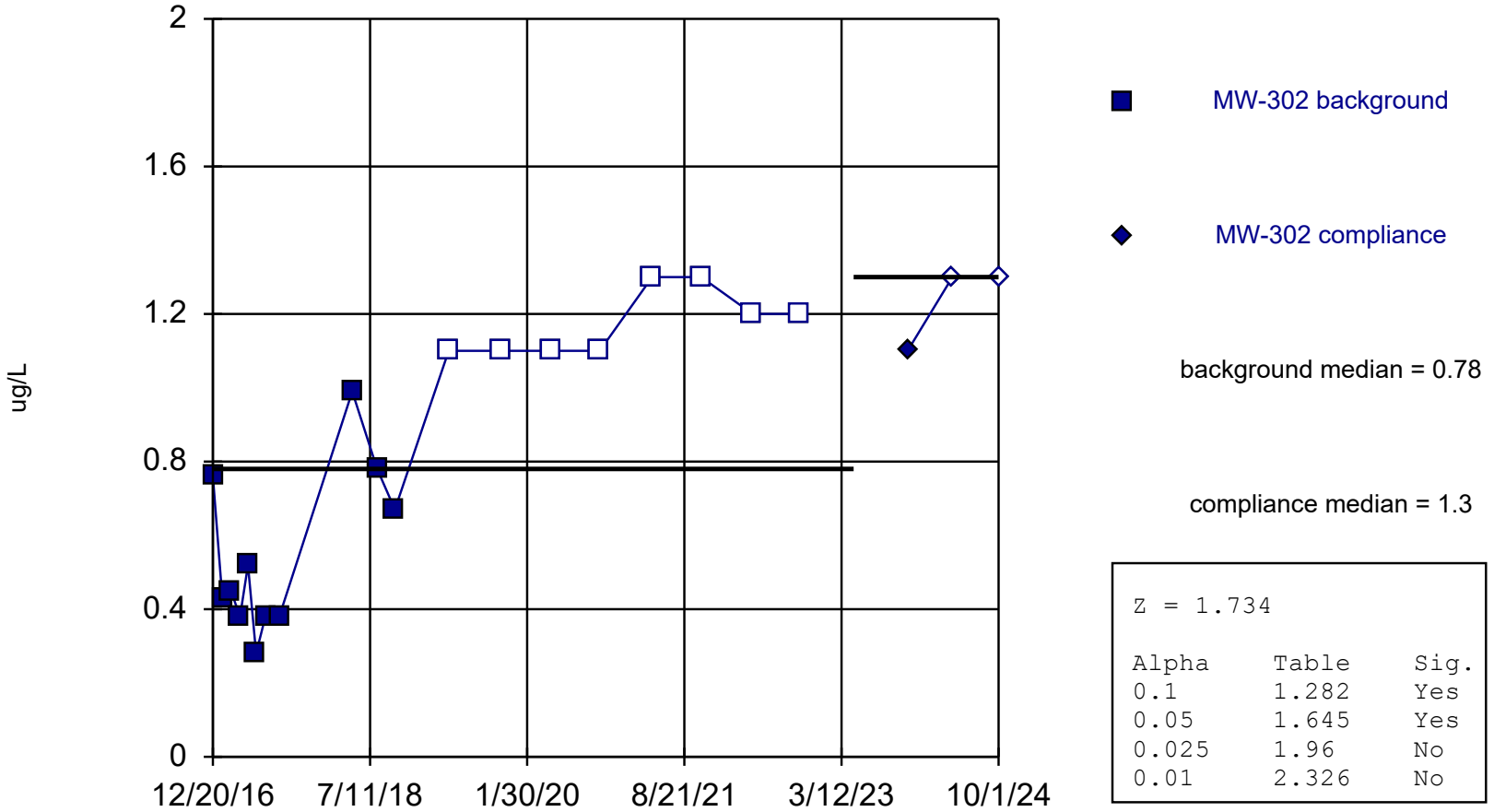
	MW-301	MW-301
12/20/2016	0.61 (J)	
1/23/2017	0.34 (J)	
2/23/2017	0.38 (J)	
3/28/2017	0.45 (J)	
4/26/2017	0.23 (J)	
5/25/2017	0.26 (J)	
6/28/2017	0.33 (J)	
8/17/2017	0.44 (J)	
5/8/2018	0.35 (J)	
8/6/2018	0.44 (J)	
10/9/2018	<0.57 (U)	
4/22/2019	<1.1 (U)	
10/28/2019	<1.1 (U)	
4/27/2020	<1.1 (U)	
10/19/2020	<1.1 (U)	
4/27/2021	<1.3 (U)	
10/21/2021	<1.3 (U)	
4/25/2022	<1.2 (U)	
10/12/2022	<1.2 (U)	
4/20/2023	<4.6 (UX)	
11/6/2023		2.5
4/18/2024		<1.3
10/1/2024		<1.3

ND substitution: RL or RL/2 if <15% NDs.

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Molybdenum

MW-302 (bg)



Z = 1.734

Alpha	Table	Sig.
0.1	1.282	Yes
0.05	1.645	Yes
0.025	1.96	No
0.01	2.326	No

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:21 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Molybdenum (ug/L) Analysis Run 8/7/2025 10:26 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

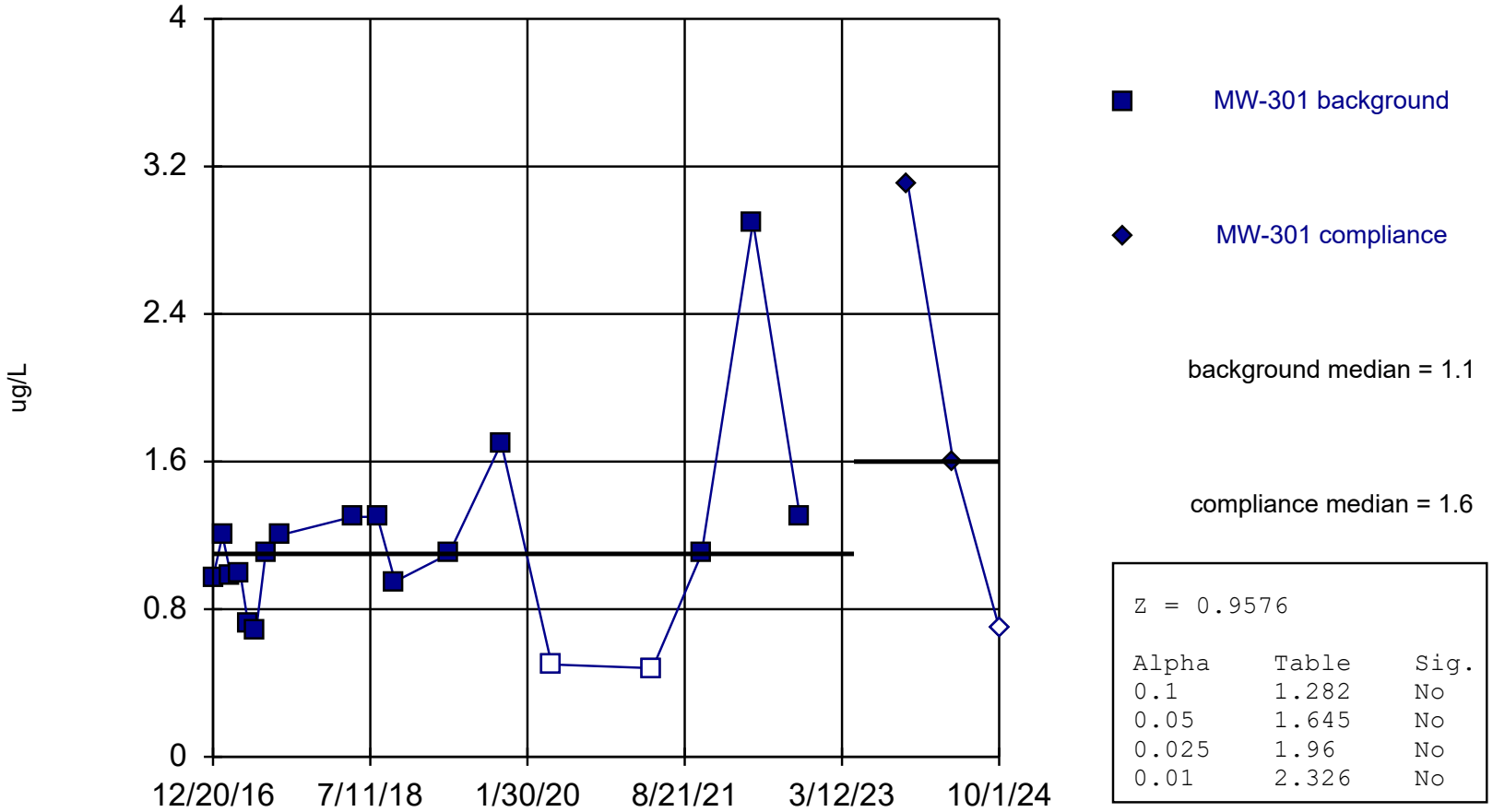
	MW-302	MW-302
12/20/2016	0.76 (J)	
1/23/2017	0.43 (J)	
2/23/2017	0.45 (J)	
3/28/2017	0.38 (J)	
4/26/2017	0.52 (J)	
5/25/2017	0.28 (J)	
6/28/2017	0.38 (J)	
8/17/2017	0.38 (J)	
5/8/2018	0.99 (J)	
8/6/2018	0.78 (J)	
10/9/2018	0.67 (J)	
4/22/2019	<1.1 (U)	
10/28/2019	<1.1 (U)	
4/27/2020	<1.1 (U)	
10/19/2020	<1.1 (U)	
4/27/2021	<1.3 (U)	
10/21/2021	<1.3 (U)	
4/25/2022	<1.2 (U)	
10/12/2022	<1.2 (U)	
4/20/2023	<4.6 (UX)	
11/7/2023		1.1 (J)
4/17/2024		<1.3
10/1/2024		<1.3

ND substitution: RL or RL/2 if <15% NDs.

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Selenium

MW-301 (bg)



Z = 0.9576

Alpha	Table	Sig.
0.1	1.282	No
0.05	1.645	No
0.025	1.96	No
0.01	2.326	No

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:21 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Selenium (ug/L) Analysis Run 8/7/2025 10:26 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301	MW-301
12/20/2016	0.97 (J)	
1/23/2017	1.2	
2/23/2017	0.98 (J)	
3/28/2017	1	
4/26/2017	0.72 (J)	
5/25/2017	0.69 (J)	
6/28/2017	1.1	
8/17/2017	1.2	
5/8/2018	1.3	
8/6/2018	1.3	
10/9/2018	0.95 (J)	
4/22/2019	1.1 (J)	
10/28/2019	1.7 (J)	
4/27/2020	<1 (U)	
4/27/2021	<0.96 (U)	
10/21/2021	1.1 (J)	
4/25/2022	2.9 (J)	
10/12/2022	1.3 (J)	
4/20/2023	<7 (UX)	
11/6/2023		3.1 (J)
4/18/2024		1.6 (J)
10/1/2024		<1.4

ND substitution: RL or RL/2 if <15% NDs.

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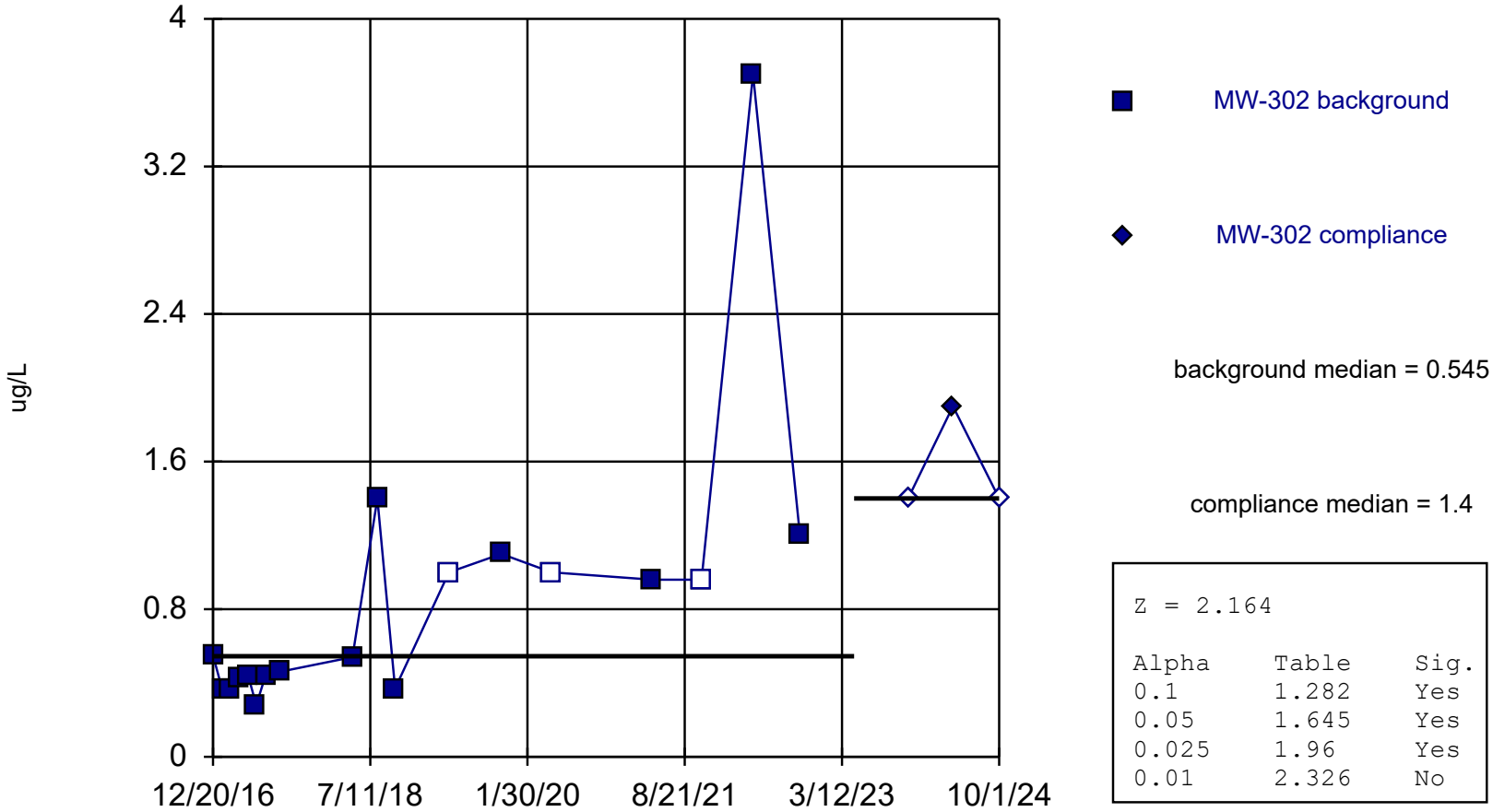
Hollow symbols indicate censored values.

Selenium

MW-302 (bg)



Z = 2.164

Alpha	Table	Sig.
0.1	1.282	Yes
0.05	1.645	Yes
0.025	1.96	Yes
0.01	2.326	No

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:21 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Selenium (ug/L) Analysis Run 8/7/2025 10:26 AM View: PCS

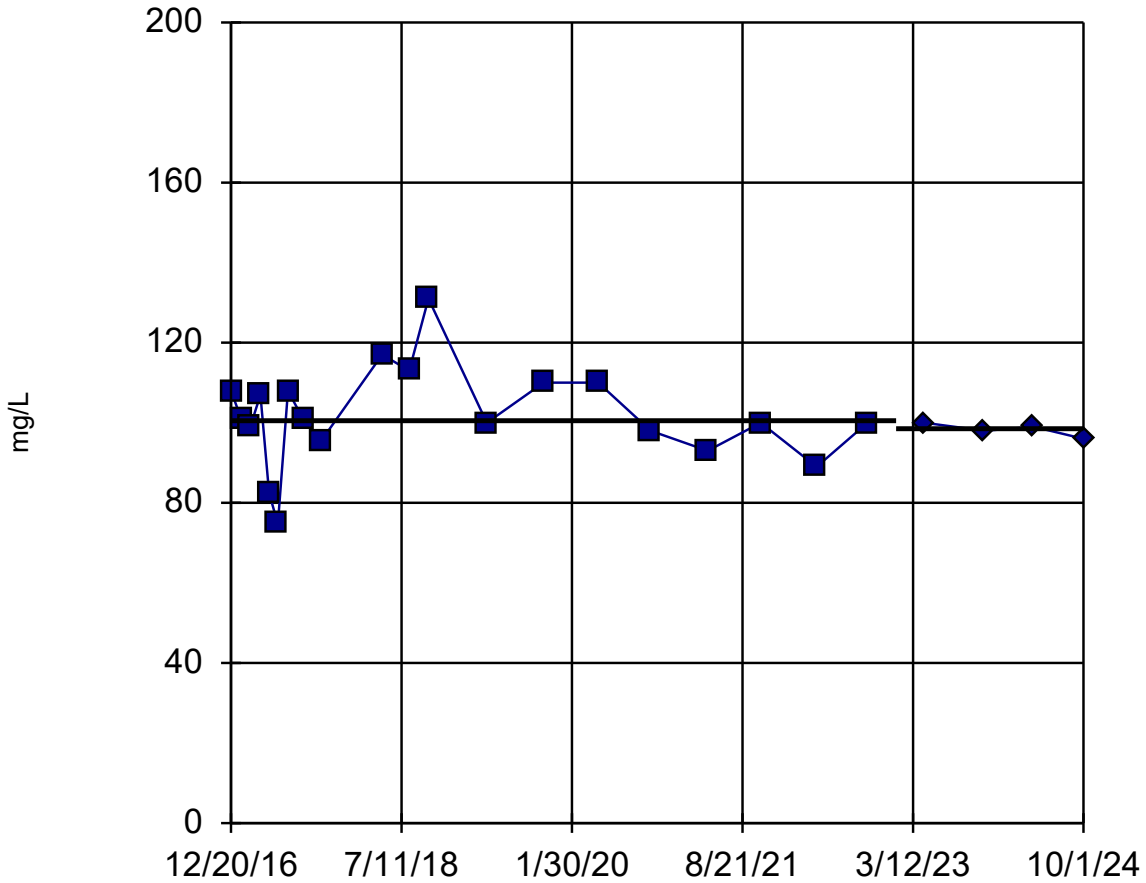
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-302	MW-302
12/20/2016	0.55 (J)	
1/23/2017	0.36 (J)	
2/23/2017	0.37 (J)	
3/28/2017	0.43 (J)	
4/26/2017	0.44 (J)	
5/25/2017	0.28 (J)	
6/28/2017	0.44 (J)	
8/17/2017	0.46 (J)	
5/8/2018	0.54 (J)	
8/6/2018	1.4	
10/9/2018	0.37 (J)	
4/22/2019	<1 (U)	
10/28/2019	1.1 (J)	
4/27/2020	<1 (U)	
4/27/2021	0.96 (J)	
10/21/2021	<0.96 (U)	
4/25/2022	3.7 (J)	
10/12/2022	1.2 (J)	
4/20/2023	<7 (UX)	
11/7/2023		<1.4 (U)
4/17/2024		1.9 (J)
10/1/2024		<1.4

ND substitution: RL or RL/2 if <15% NDs.

Sulfate

MW-301 (bg)



MW-301 background

MW-301 compliance

background median = 100.5

compliance median = 98.5

Z = -1.204

Alpha	Table	Sig.
0.1	1.282	No
0.05	1.645	No
0.025	1.96	No
0.01	2.326	No

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:22 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

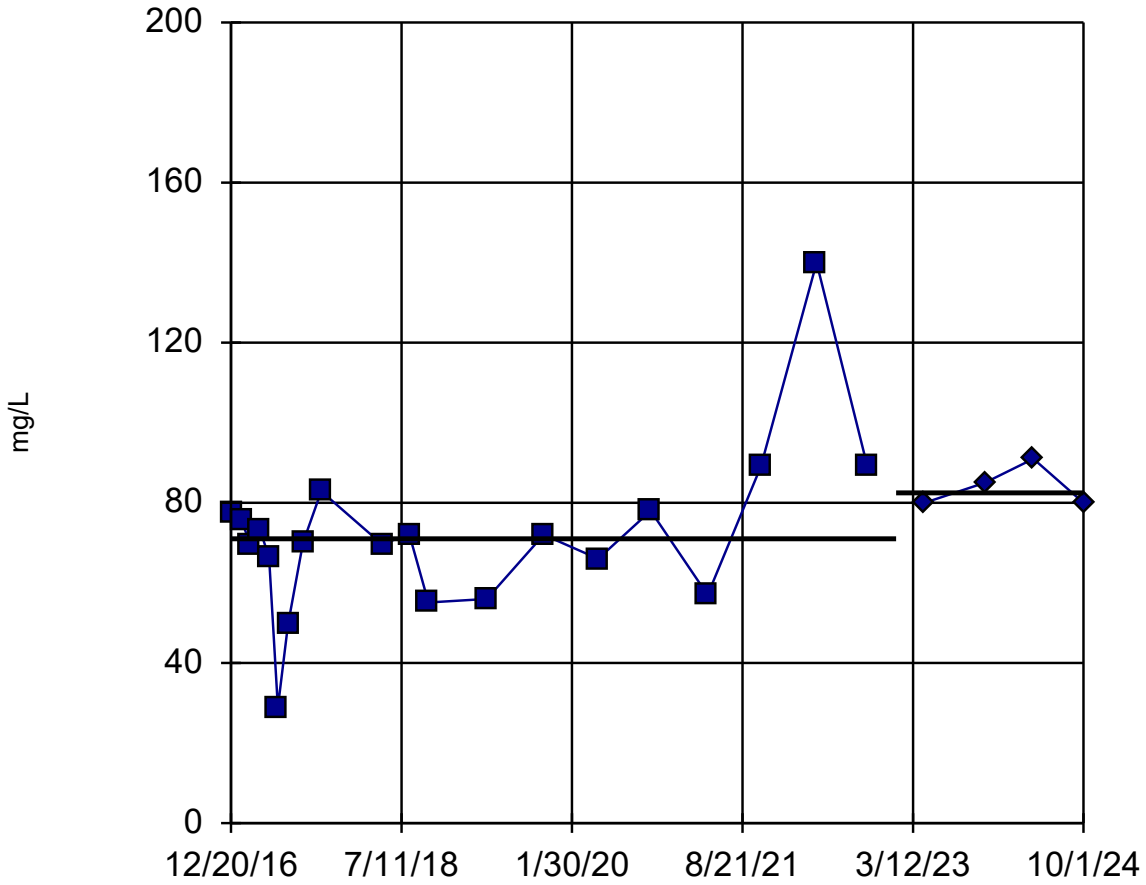
Constituent: Sulfate (mg/L) Analysis Run 8/7/2025 10:26 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301	MW-301
12/20/2016	108	
1/23/2017	101	
2/23/2017	99.2	
3/28/2017	107	
4/26/2017	82.5	
5/25/2017	74.7	
6/28/2017	108	
8/17/2017	101	
10/17/2017	95.5	
5/8/2018	117	
8/6/2018	113	
10/9/2018	131	
4/22/2019	100	
10/28/2019	110	
4/27/2020	110	
10/19/2020	98	
4/27/2021	93	
10/21/2021	100	
4/25/2022	89	
10/12/2022	100	
4/20/2023		100
11/6/2023		98
4/18/2024		99
10/1/2024		96

Sulfate

MW-302 (bg)



MW-302 background

MW-302 compliance

background median = 71

compliance median = 82.5

Z = 2.131

Alpha	Table	Sig.
0.1	1.282	Yes
0.05	1.645	Yes
0.025	1.96	Yes
0.01	2.326	No

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:22 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Sulfate (mg/L) Analysis Run 8/7/2025 10:26 AM View: PCS

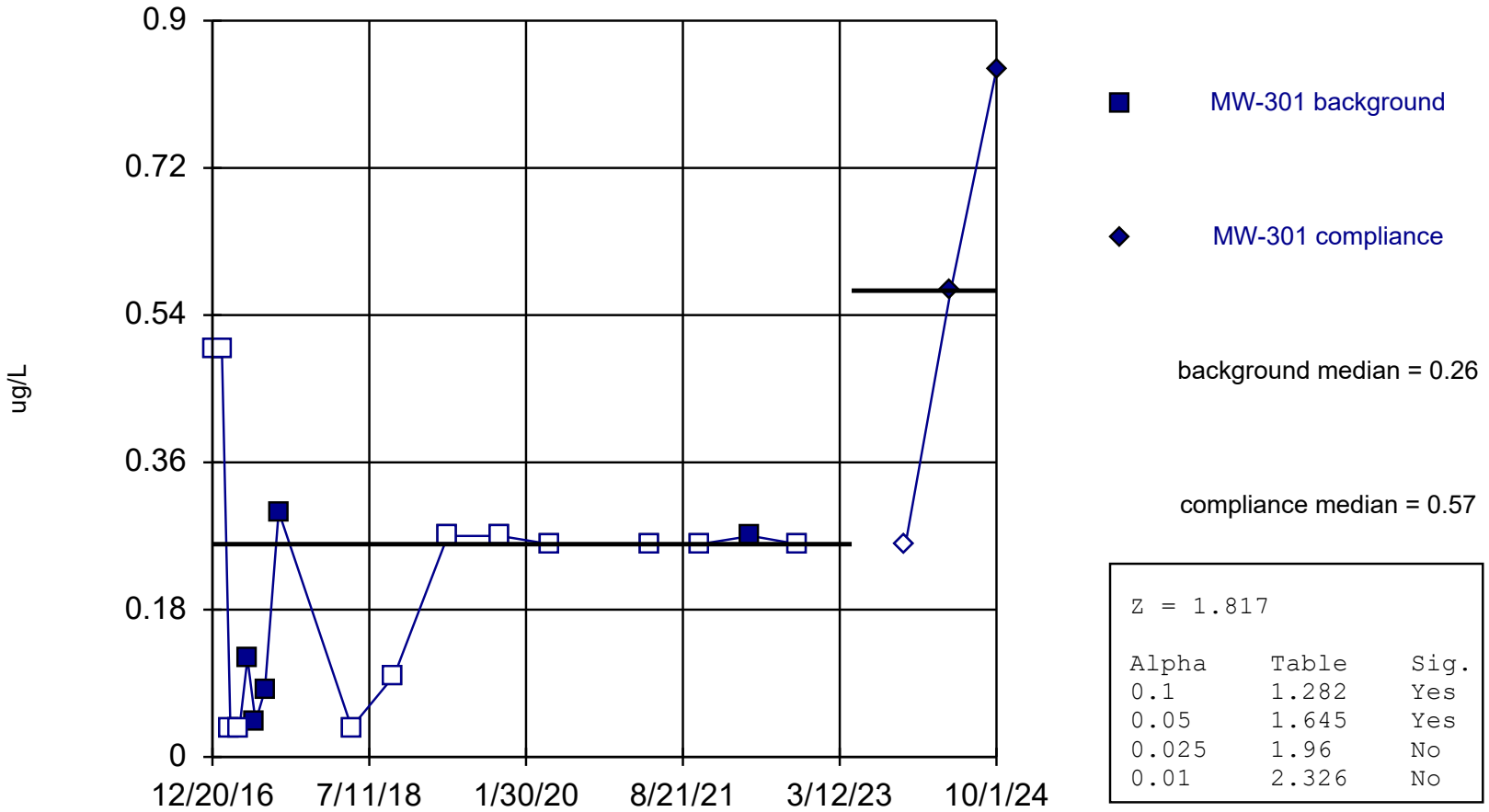
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-302	MW-302
12/20/2016	77.7	
1/23/2017	75.6	
2/23/2017	69.7	
3/28/2017	72.9	
4/26/2017	66.4	
5/25/2017	28.9	
6/28/2017	49.5	
8/17/2017	70	
10/17/2017	82.9	
5/8/2018	69.6	
8/6/2018	72.2	
10/9/2018	55.1	
4/22/2019	56	
10/28/2019	72	
4/27/2020	66	
10/19/2020	78	
4/27/2021	57	
10/21/2021	89	
4/25/2022	140	
10/12/2022	89	
4/20/2023		80
11/7/2023		85
4/17/2024		91
10/1/2024		80

Sanitas™ v.10.0.27 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Thallium

MW-301 (bg)



Z = 1.817

Alpha	Table	Sig.
0.1	1.282	Yes
0.05	1.645	Yes
0.025	1.96	No
0.01	2.326	No

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:22 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Thallium (ug/L) Analysis Run 8/7/2025 10:26 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301	MW-301
12/20/2016	<0.5 (U)	
1/23/2017	<0.5 (U)	
2/23/2017	<0.036 (U)	
3/28/2017	<0.036 (U)	
4/26/2017	0.12 (J)	
5/25/2017	0.043 (J)	
6/28/2017	0.081 (J)	
8/17/2017	0.3 (J)	
5/8/2018	<0.036 (U)	
10/9/2018	<0.099 (U)	
4/22/2019	<0.27 (U)	
10/28/2019	<0.27 (U)	
4/27/2020	<0.26 (U)	
4/27/2021	<0.26 (U)	
10/21/2021	<0.26 (U)	
4/25/2022	0.27 (J)	
10/12/2022	<0.26 (U)	
4/20/2023	<1.3 (UX)	
11/6/2023		<0.26 (U)
4/18/2024		0.57 (J)
10/1/2024		0.84 (J)

ND substitution: RL or RL/2 if <15% NDs.

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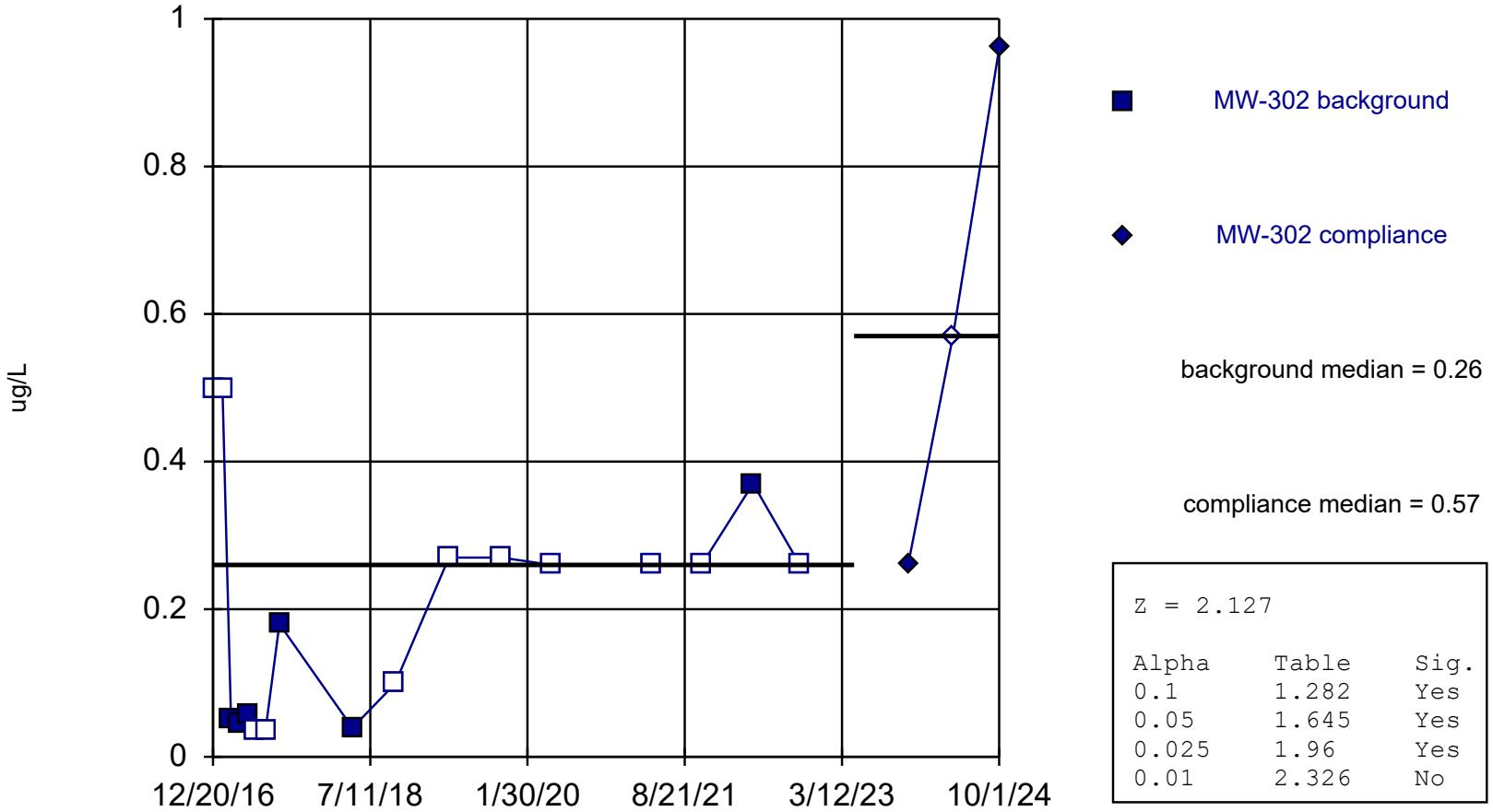
Hollow symbols indicate censored values.

Thallium

MW-302 (bg)



Z = 2.127

Alpha	Table	Sig.
0.1	1.282	Yes
0.05	1.645	Yes
0.025	1.96	Yes
0.01	2.326	No

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:22 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Thallium (ug/L) Analysis Run 8/7/2025 10:26 AM View: PCS

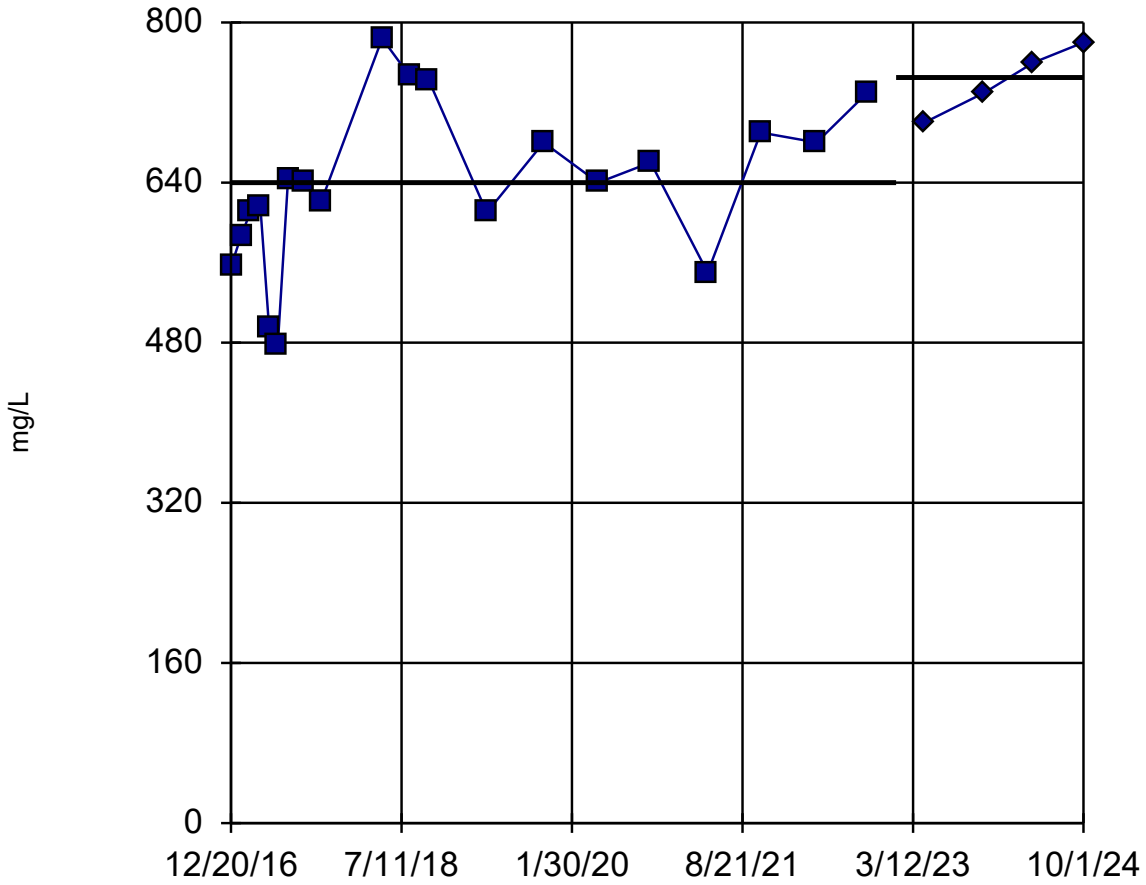
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-302	MW-302
12/20/2016	<0.5 (U)	
1/23/2017	<0.5 (U)	
2/23/2017	0.05 (J)	
3/28/2017	0.044 (J)	
4/26/2017	0.058 (J)	
5/25/2017	<0.036 (U)	
6/28/2017	<0.036 (U)	
8/17/2017	0.18 (J)	
5/8/2018	0.039 (J)	
10/9/2018	<0.099 (U)	
4/22/2019	<0.27 (U)	
10/28/2019	<0.27 (U)	
4/27/2020	<0.26 (U)	
4/27/2021	<0.26 (U)	
10/21/2021	<0.26 (U)	
4/25/2022	0.37 (J)	
10/12/2022	<0.26 (U)	
4/20/2023	<1.3 (UX)	
11/7/2023		0.26 (J)
4/17/2024		<0.57
10/1/2024		0.96 (J)

ND substitution: RL or RL/2 if <15% NDs.

Total Dissolved Solids

MW-301 (bg)



MW-301 background

MW-301 compliance

background median = 640

compliance median = 745

Z = 2.325

Alpha	Table	Sig.
0.1	1.282	Yes
0.05	1.645	Yes
0.025	1.96	Yes
0.01	2.326	No

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:22 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/7/2025 10:26 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301	MW-301
12/20/2016	556	
1/23/2017	587	
2/23/2017	611	
3/28/2017	615	
4/26/2017	495	
5/25/2017	479	
6/28/2017	642	
8/17/2017	640	
10/17/2017	621	
5/8/2018	784	
8/6/2018	747	
10/9/2018	743	
4/22/2019	610	
10/28/2019	680 (B)	
4/27/2020	640	
10/19/2020	660	
4/27/2021	550	
10/21/2021	690	
4/25/2022	680	
10/12/2022	730	
4/20/2023		700
11/6/2023		730
4/18/2024		760
10/1/2024		780

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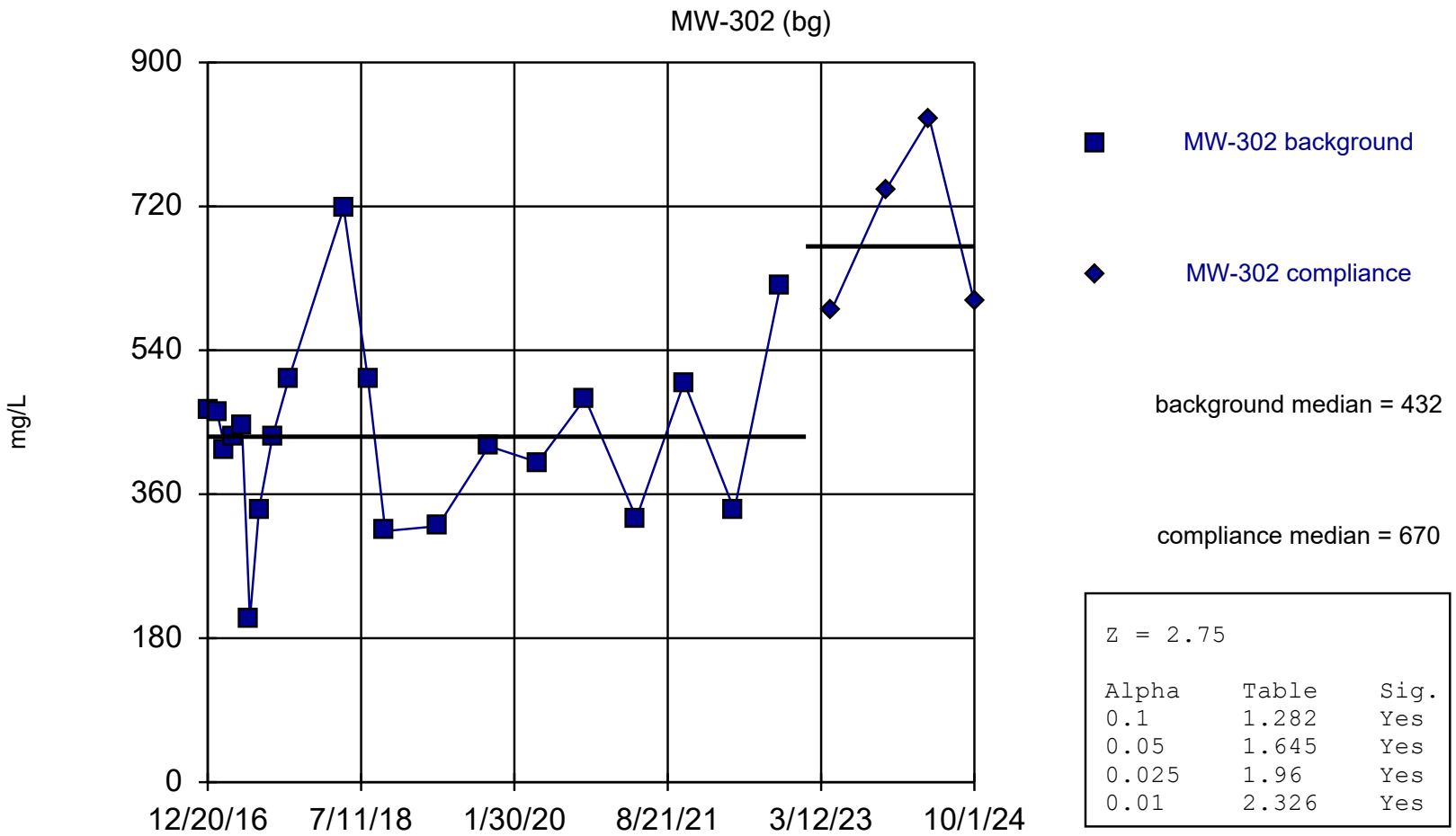
Total Dissolved Solids



Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:22 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/7/2025 10:26 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-302	MW-302
12/20/2016	465	
1/23/2017	463	
2/23/2017	416	
3/28/2017	432	
4/26/2017	445	
5/25/2017	203	
6/28/2017	341	
8/17/2017	432	
10/17/2017	505	
5/8/2018	718	
8/6/2018	503	
10/9/2018	314	
4/22/2019	320	
10/28/2019	420 (B)	
4/27/2020	400	
10/19/2020	480	
4/27/2021	330	
10/21/2021	500	
4/25/2022	340	
10/12/2022	620	
4/20/2023		590
11/7/2023		740
4/17/2024		830
10/1/2024		600

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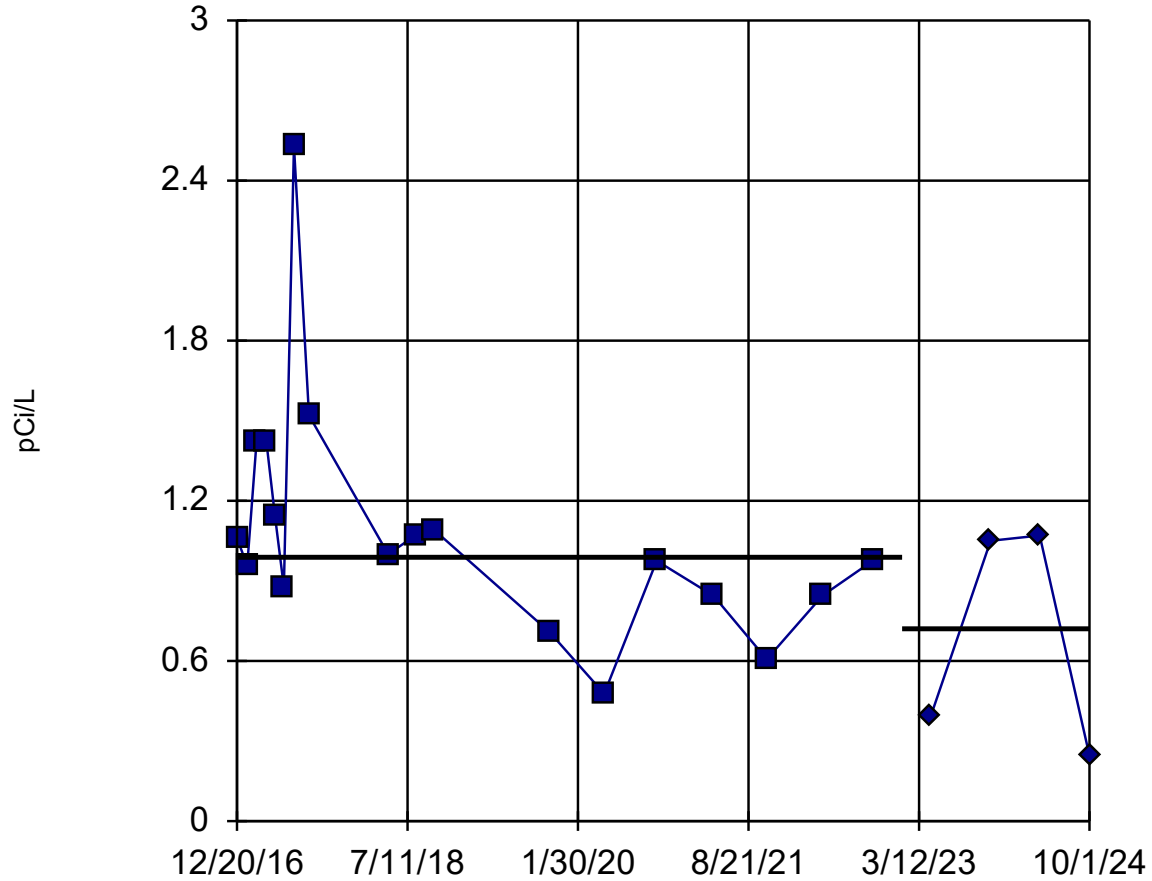
Total Radium

MW-301 (bg)



MW-301 background

MW-301 compliance

background median = 0.9885

compliance median = 0.7205

Z = -1.278

Alpha	Table	Sig.
0.1	1.282	No
0.05	1.645	No
0.025	1.96	No
0.01	2.326	No

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:22 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

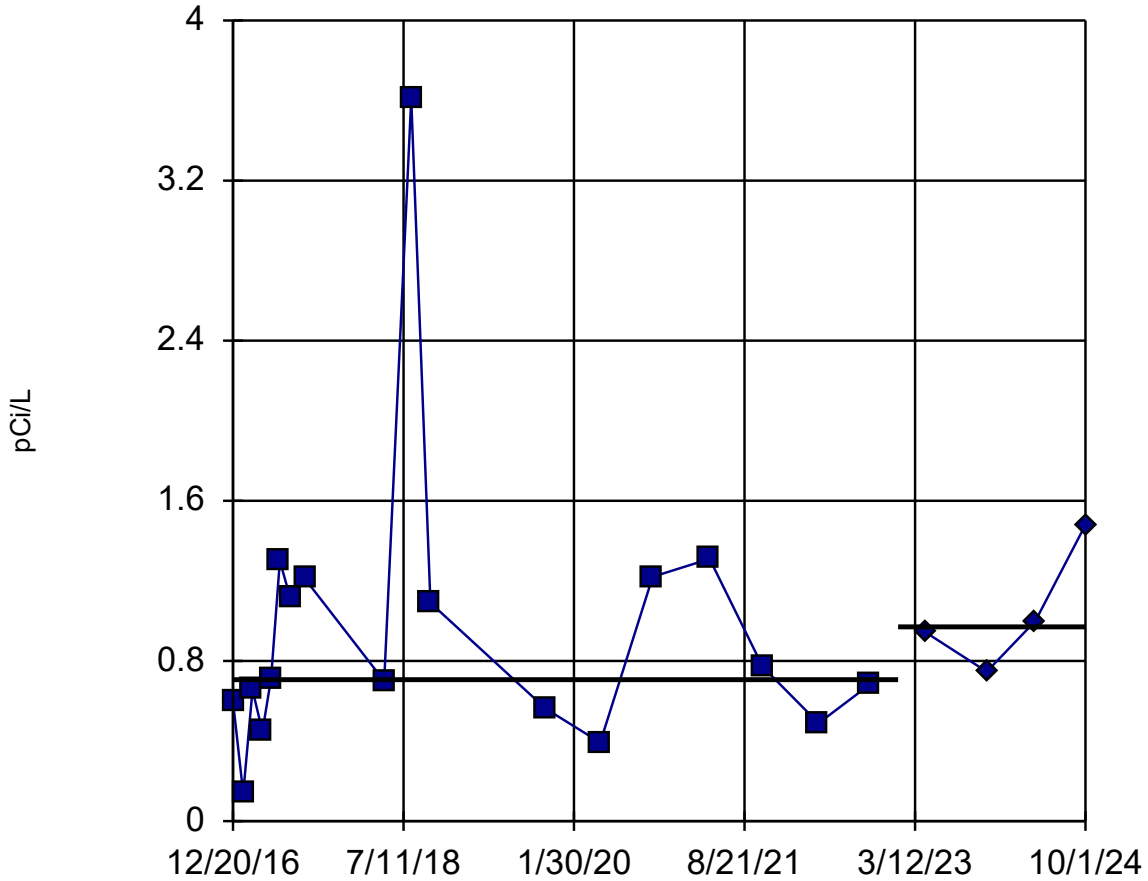
Constituent: Total Radium (pCi/L) Analysis Run 8/7/2025 10:26 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301	MW-301
12/20/2016	1.06	
1/23/2017	0.957	
2/23/2017	1.42	
3/28/2017	1.42	
4/26/2017	1.14	
5/25/2017	0.877	
6/28/2017	2.53	
8/17/2017	1.52	
5/8/2018	1	
8/6/2018	1.07	
10/9/2018	1.09	
10/28/2019	0.708	
4/27/2020	0.477	
10/19/2020	0.975	
4/27/2021	0.844	
10/21/2021	0.606	
4/25/2022	0.845	
10/12/2022	0.977	
4/20/2023		0.391
11/6/2023		1.05
4/18/2024		1.07
10/1/2024		0.245

Total Radium

MW-302 (bg)



MW-302 background

MW-302 compliance

background median = 0.706

compliance median = 0.97

Z = 1.064

Alpha	Table	Sig.
0.1	1.282	No
0.05	1.645	No
0.025	1.96	No
0.01	2.326	No

Mann-Whitney (Wilcoxon Rank Sum) Analysis Run 8/7/2025 10:22 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Total Radium (pCi/L) Analysis Run 8/7/2025 10:26 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-302	MW-302
12/20/2016	0.597	
1/23/2017	0.138	
2/23/2017	0.655	
3/28/2017	0.447	
4/26/2017	0.713	
5/25/2017	1.3	
6/28/2017	1.12	
8/17/2017	1.21	
5/8/2018	0.699	
8/6/2018	3.61	
10/9/2018	1.09	
10/28/2019	0.562	
4/27/2020	0.392	
10/19/2020	1.22	
4/27/2021	1.31	
10/21/2021	0.77	
4/25/2022	0.489	
10/12/2022	0.681	
4/20/2023		0.94
11/7/2023		0.746
4/17/2024		1
10/1/2024		1.48

Attachment 4

Interwell Prediction Limit Analysis – Appendix III

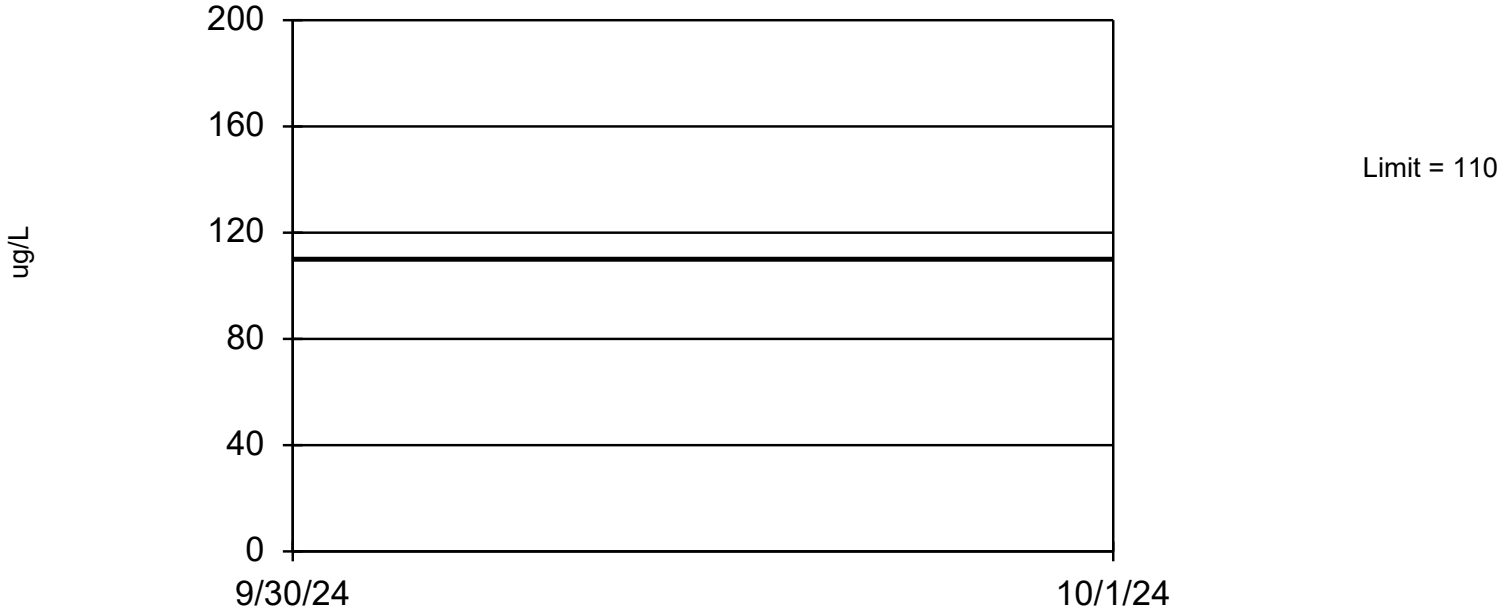
Prediction Limit

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek Printed 8/7/2025, 11:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (ug/L)	n/a	110	n/a	n/a	6 future	n/a	46	54.35	n/a	0.000...	NP Inter (NDs) 1 of 2
Calcium (mg/L)	n/a	200	n/a	n/a	6 future	n/a	48	0	No	0.001462	Param Inter 1 of 2
Field pH (Std. Units)	n/a	7.34	n/a	n/a	6 future	n/a	46	0	No	0.001462	Param Inter 1 of 2
Fluoride (mg/L)	n/a	0.380	n/a	n/a	6 future	n/a	48	56.25	n/a	0.000818	NP Inter (NDs) 1 of 2
Sulfate (mg/L)	n/a	127	n/a	n/a	6 future	n/a	48	0	No	0.001462	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	n/a	846	n/a	n/a	6 future	n/a	48	0	No	0.001462	Param Inter 1 of 2

Boron

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 46 background values. 54.35% NDs. Annual per-constituent alpha = 0.0107. Individual comparison alpha = 0.0008958 (1 of 2). Assumes 6 future values. Seasonality was not detected with 95% confidence.

Prediction Limit Analysis Run 8/7/2025 11:31 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Prediction Limit

Constituent: Boron (ug/L) Analysis Run 8/7/2025 11:32 AM View: PCS

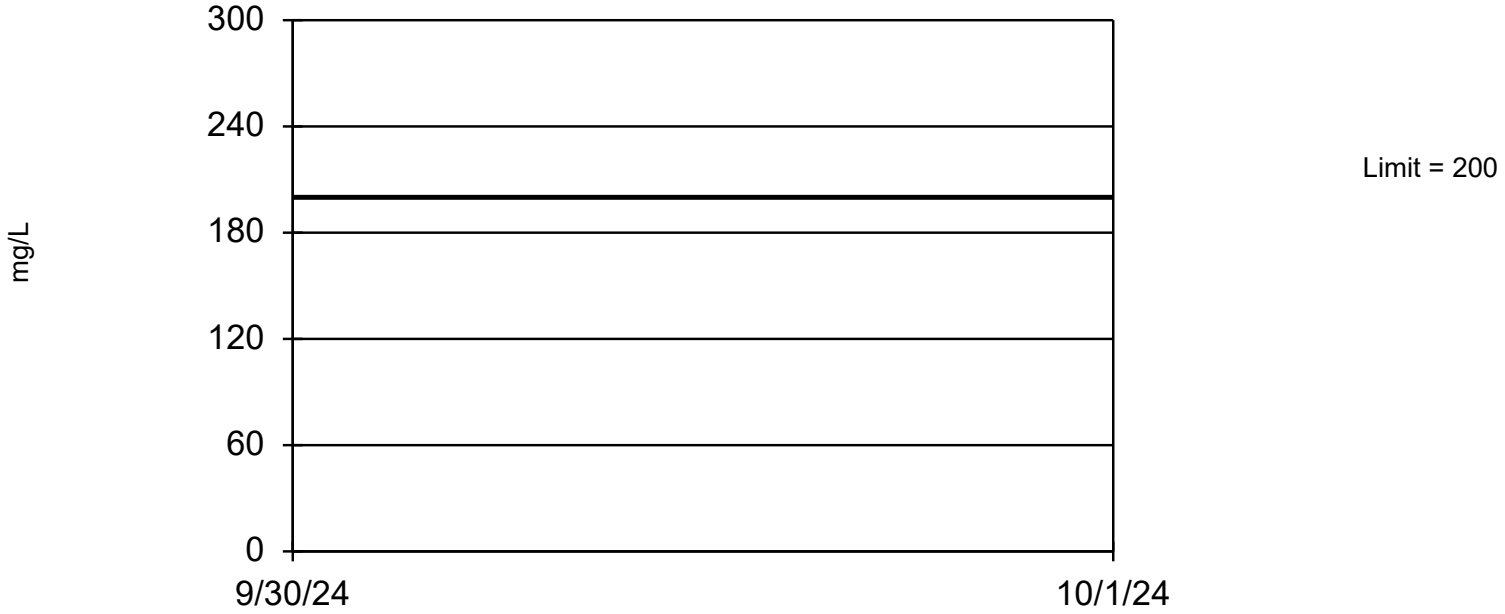
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301 (bg)	MW-302 (bg)
12/20/2016	<50 (U)	<50 (U)
1/23/2017	<50 (U)	<50 (U)
2/23/2017	25.2 (J)	30.1 (J)
3/28/2017	23.8 (J)	33.7 (J)
4/26/2017	37.3 (J)	36.5 (J)
5/25/2017	40.8 (J)	51.6 (J)
6/28/2017	24.6 (J)	51.8 (J)
8/17/2017	28.9 (J)	45.1 (J)
10/17/2017	26.8 (J)	36.5 (J)
5/8/2018	22.8 (J)	22.4 (J)
8/6/2018	30.9 (J)	38.1 (J)
10/9/2018	30.6 (J)	65 (J)
4/22/2019	<110 (U)	<110 (U)
10/28/2019	<110 (U)	<110 (U)
4/27/2020	<73 (U)	<73 (U)
10/19/2020	<80 (U)	<80 (U)
4/27/2021	<58 (U)	<58 (U)
10/21/2021	<58 (U)	<58 (U)
4/25/2022	<58 (U)	100
10/12/2022	<58 (U)	<58 (U)
4/20/2023	<380 (UX)	<380 (UX)
11/6/2023	<76 (U)	
11/7/2023		<76 (U)
4/17/2024		<76
4/18/2024	<76	
10/1/2024	<76	<76

ND substitution: RL or RL/2 if <15% NDs.

Calcium

Interwell Parametric



Background Data Summary: Mean=128.3, Std. Dev.=38.2, n=48. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9696, critical = 0.929. Kappa = 1.871 (c=6, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.008742. Individual comparison alpha = 0.001462. Assumes 6 future values.

Prediction Limit Analysis Run 8/7/2025 11:31 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 8/7/2025 11:32 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301 (bg)	MW-302 (bg)
12/20/2016	137	107
1/23/2017	140	106
2/23/2017	148	95
3/28/2017	144	95
4/26/2017	112	102
5/25/2017	106	41.4
6/28/2017	136	66.7
8/17/2017	142	93.1
10/17/2017	139	109
5/8/2018	155	125
8/6/2018	154	106
10/9/2018	163	63.3
4/22/2019	130	67
10/28/2019	160	81
4/27/2020	140	86
10/19/2020	150	110
4/27/2021	130	76
10/21/2021	160	130
4/25/2022	180	65
10/12/2022	170	140
4/20/2023	200	170
11/6/2023	180	
11/7/2023		170
4/17/2024		190
4/18/2024	180	
10/1/2024	180	130

Field pH

Interwell Parametric

Background Data Summary: Mean=6.742, Std. Dev.=0.318, n=46. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9461, critical = 0.927. Kappa = 1.876 (c=6, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.008742. Individual comparison alpha = 0.001462. Assumes 6 future values.

Prediction Limit Analysis Run 8/7/2025 11:31 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Prediction Limit

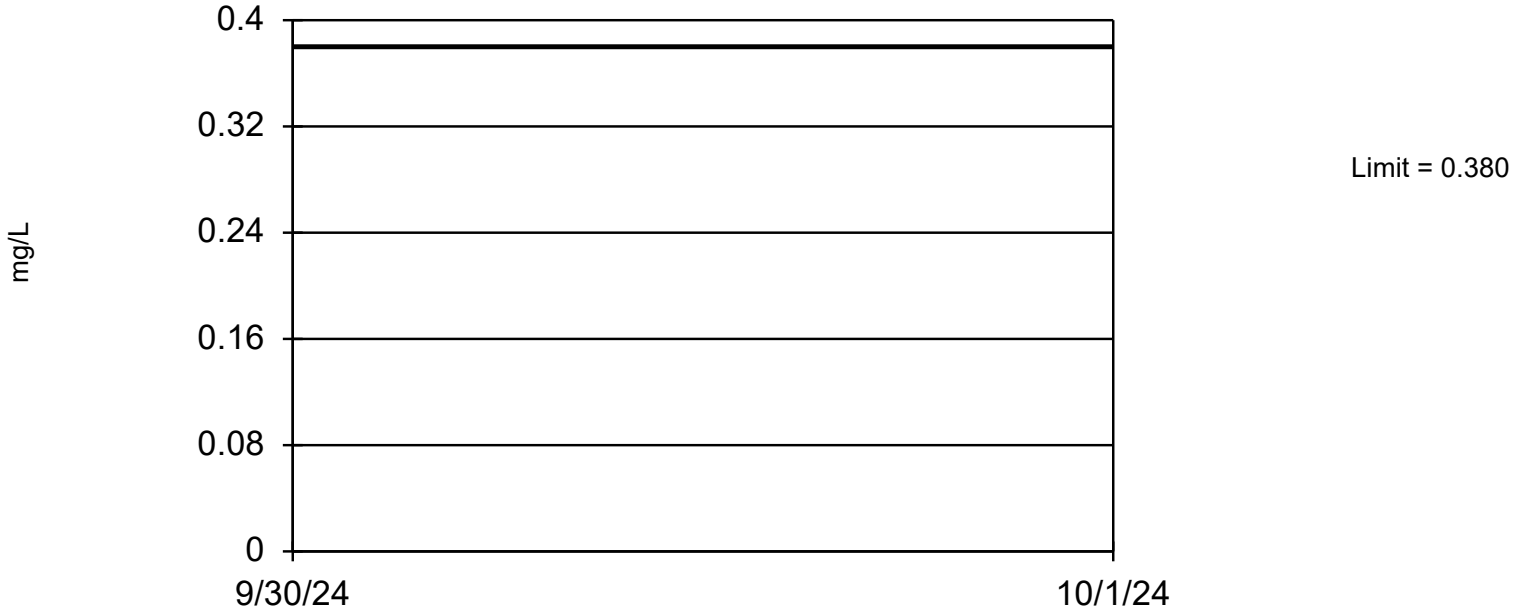
Constituent: Field pH (Std. Units) Analysis Run 8/7/2025 11:32 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301 (bg)	MW-302 (bg)
12/20/2016	6.78	6.36
1/23/2017	6.8	6.72
2/23/2017	6.57	6.38
3/28/2017	6.9	6.66
4/26/2017	6.41	6.44
5/25/2017	6.41	6.27
6/28/2017	7	6.6
8/17/2017	6.97	6.23
10/17/2017	7.46	7.71 (X)
5/8/2018	7.51	6.98
8/6/2018	6.81	6.55
10/9/2018	7.63	6.5
4/22/2019	6.99	6.64
10/28/2019	6.69	6.37
4/27/2020	7.09	6.27
10/19/2020	6.89	6.67
4/27/2021	6.81	6.96
10/21/2021	6.9	7.15
4/25/2022	6.92	5.35 (X)
10/12/2022	7.03	6.63
4/20/2023	6.92	6.8
11/6/2023	6.68	
11/7/2023		6.6
4/17/2024		6.64
4/18/2024	6.69	
10/1/2024	6.49	6.38

Fluoride

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 48 background values. 56.25% NDs. Annual per-constituent alpha = 0.009772. Individual comparison alpha = 0.000818 (1 of 2). Assumes 6 future values. Seasonality was not detected with 95% confidence.

Prediction Limit Analysis Run 8/7/2025 11:31 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 8/7/2025 11:32 AM View: PCS

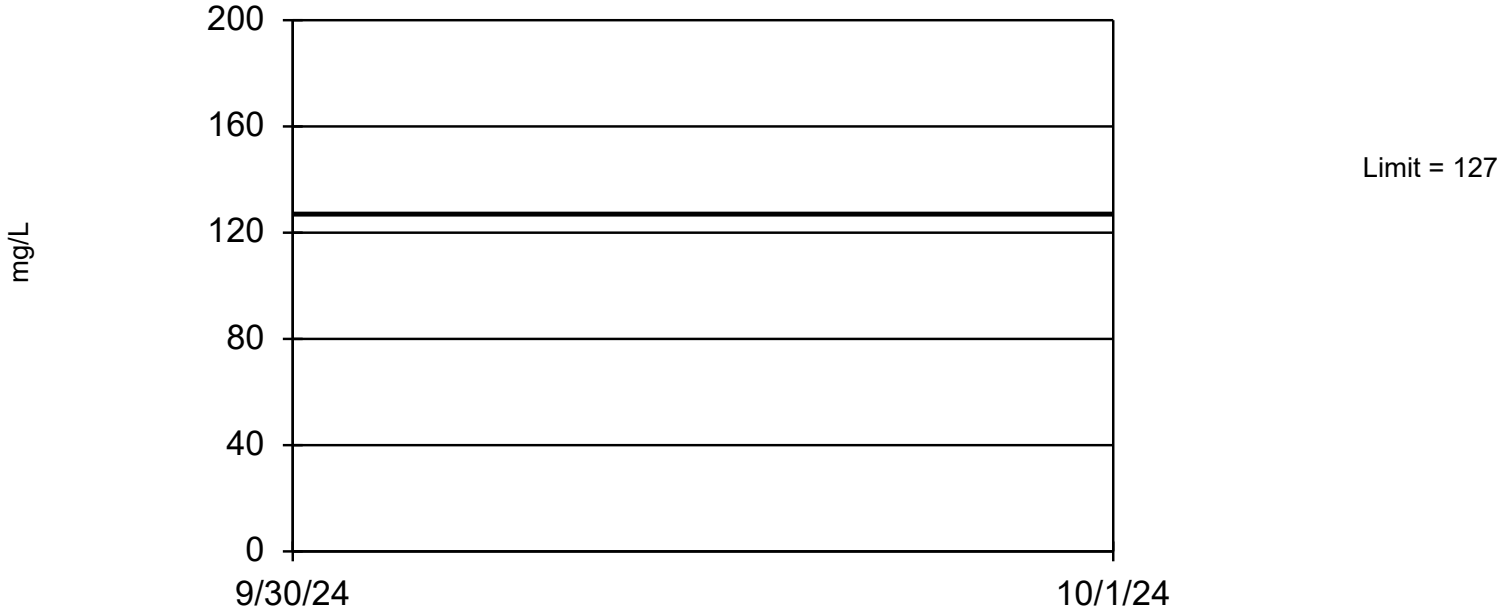
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301 (bg)	MW-302 (bg)
12/20/2016	0.13 (J)	0.16 (J)
1/23/2017	0.079 (J)	0.079 (J)
2/23/2017	0.13 (J)	0.1 (J)
3/28/2017	0.1 (J)	<0.1 (U)
4/26/2017	0.1 (J)	0.12 (J)
5/25/2017	<0.1 (U)	<0.1 (U)
6/28/2017	0.15 (J)	0.15 (J)
8/17/2017	0.21	0.2 (J)
10/17/2017	0.17 (J)	0.19 (J)
5/8/2018	0.2 (J)	0.23
8/6/2018	0.16 (J)	0.17 (J)
10/9/2018	0.22	0.21
4/22/2019	<0.23 (U)	<0.23 (U)
10/28/2019	<0.23 (U)	<0.23 (U)
4/27/2020	<0.23 (U)	<0.23 (U)
10/19/2020	<0.23 (U)	<0.23 (U)
4/27/2021	<0.28 (U)	<0.28 (U)
10/21/2021	<0.28 (U)	<0.28 (U)
4/25/2022	<0.22 (U)	<0.22 (U)
10/12/2022	<0.22 (U)	<0.22 (U)
4/20/2023	<0.38 (U)	<0.38 (U)
11/6/2023	<0.38 (U)	
11/7/2023		<0.38 (U)
4/17/2024		<0.38
4/18/2024	<0.38	
10/1/2024	<0.38	<0.38

ND substitution: RL or RL/2 if <15% NDs.

Sulfate

Interwell Parametric



Background Data Summary: Mean=87.59, Std. Dev.=21.19, n=48. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9861, critical = 0.929. Kappa = 1.871 (c=6, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.008742. Individual comparison alpha = 0.001462. Assumes 6 future values.

Prediction Limit Analysis Run 8/7/2025 11:31 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Prediction Limit

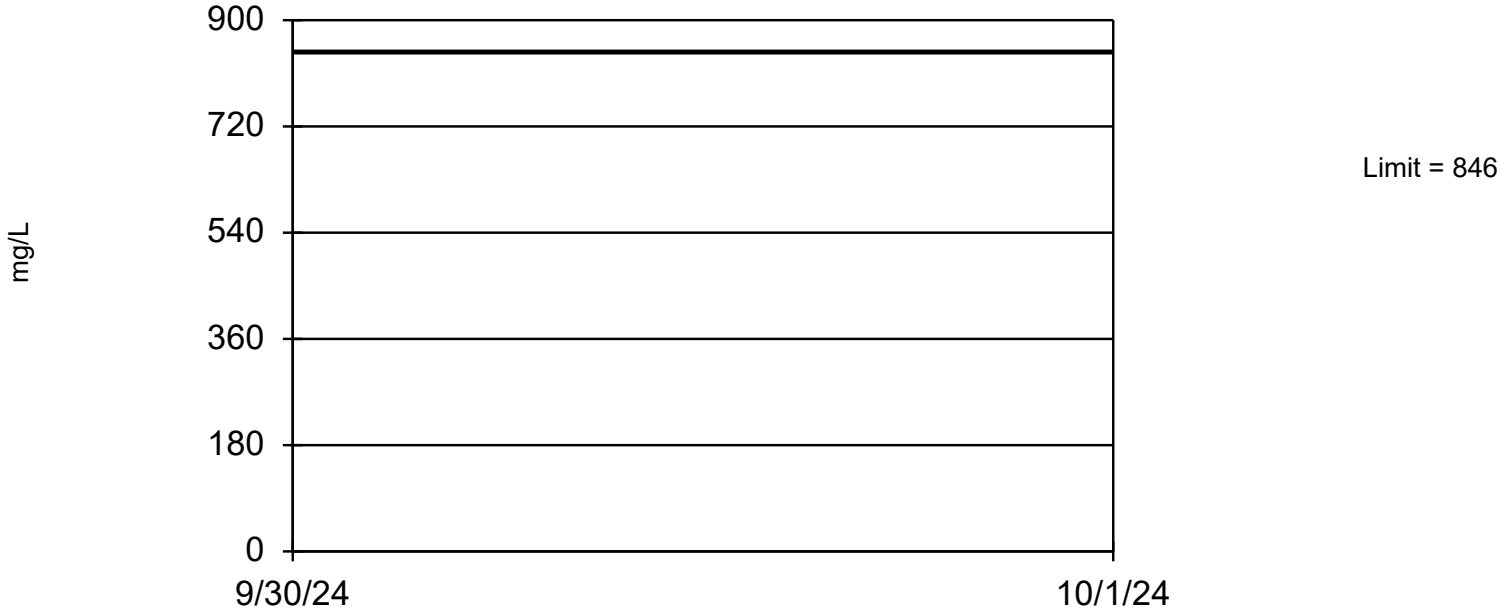
Constituent: Sulfate (mg/L) Analysis Run 8/7/2025 11:32 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301 (bg)	MW-302 (bg)
12/20/2016	108	77.7
1/23/2017	101	75.6
2/23/2017	99.2	69.7
3/28/2017	107	72.9
4/26/2017	82.5	66.4
5/25/2017	74.7	28.9
6/28/2017	108	49.5
8/17/2017	101	70
10/17/2017	95.5	82.9
5/8/2018	117	69.6
8/6/2018	113	72.2
10/9/2018	131	55.1
4/22/2019	100	56
10/28/2019	110	72
4/27/2020	110	66
10/19/2020	98	78
4/27/2021	93	57
10/21/2021	100	89
4/25/2022	89	140
10/12/2022	100	89
4/20/2023	100	80
11/6/2023	98	
11/7/2023		85
4/17/2024		91
4/18/2024	99	
10/1/2024	96	80

Total Dissolved Solids

Interwell Parametric



Background Data Summary: Mean=565.4, Std. Dev.=150.1, n=48. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9628, critical = 0.929. Kappa = 1.871 (c=6, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.008742. Individual comparison alpha = 0.001462. Assumes 6 future values.

Prediction Limit Analysis Run 8/7/2025 11:31 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 8/7/2025 11:32 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301 (bg)	MW-302 (bg)
12/20/2016	556	465
1/23/2017	587	463
2/23/2017	611	416
3/28/2017	615	432
4/26/2017	495	445
5/25/2017	479	203
6/28/2017	642	341
8/17/2017	640	432
10/17/2017	621	505
5/8/2018	784	718
8/6/2018	747	503
10/9/2018	743	314
4/22/2019	610	320
10/28/2019	680 (B)	420 (B)
4/27/2020	640	400
10/19/2020	660	480
4/27/2021	550	330
10/21/2021	690	500
4/25/2022	680	340
10/12/2022	730	620
4/20/2023	700	590
11/6/2023	730	
11/7/2023		740
4/17/2024		830
4/18/2024	760	
10/1/2024	780	600

Prediction Limit

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020 Printed 1/1/2023, 7:58 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chloride (mg/L)	n/a	32.6	n/a	6 future	n/a	16	MW-301,MW-302	20.58	5.49	0	None	No	0.001254	Param Inter 1 of 2

02/27/2026 - Classification: Internal - ECRM13684604

Prediction Limit

Interwell Parametric

Background Data Summary: Mean=20.58, Std. Dev.=5.49, n=16. Insufficient data to test for seasonality; not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8884, critical = 0.844. Kappa = 2.187 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001254. Assumes 6 future values.

Constituent: Chloride Analysis Run 1/1/2023 7:57 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/1/2023 7:58 PM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PCS - Chem-export-Dec2020

	MW-301 (bg)	MW-302 (bg)
12/20/2016	19.5	22.6
1/23/2017	24.1	21.4
2/23/2017	24.4	19.2
3/28/2017	23.3	21.6
4/26/2017	19.2	19.9
5/25/2017	19.1	8.1
6/28/2017	26.2	9.6
8/17/2017	30.4	20.7

Attachment 5

Interwell Tolerance Limit Analysis – Appendix IV

Tolerance Limit

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek Printed 8/7/2025, 11:42 AM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (ug/L)	n/a	1.20	n/a	n/a	n/a	44	52.27	n/a	0.1047	NP Inter(NDs)
Arsenic (ug/L)	n/a	6.81	n/a	n/a	n/a	44	13.64	ln(x)	0.05	Inter
Barium (ug/L)	n/a	291	n/a	n/a	n/a	46	0	n/a	0.09447	NP Inter(normal...
Beryllium (ug/L)	n/a	0.330	n/a	n/a	n/a	42	80.95	n/a	0.116	NP Inter(NDs)
Cadmium (ug/L)	n/a	0.380	n/a	n/a	n/a	44	22.73	n/a	0.1047	NP Inter(normal...
Chromium (ug/L)	n/a	9.90	n/a	n/a	n/a	44	4.545	n/a	0.1047	NP Inter(normal...
Cobalt (ug/L)	n/a	6.03	n/a	n/a	n/a	44	22.73	ln(x)	0.05	Inter
Fluoride (mg/L)	n/a	0.380	n/a	n/a	n/a	48	56.25	n/a	0.08526	NP Inter(NDs)
Lead (ug/L)	n/a	1.90	n/a	n/a	n/a	44	47.73	n/a	0.1047	NP Inter(normal...
Lithium (ug/L)	n/a	18.7	n/a	n/a	n/a	45	6.667	No	0.05	Inter
Mercury (ug/L)	n/a	0.110	n/a	n/a	n/a	42	100	n/a	0.116	NP Inter(NDs)
Molybdenum (ug/L)	n/a	2.50	n/a	n/a	n/a	44	47.73	n/a	0.1047	NP Inter(normal...
Selenium (ug/L)	n/a	2.82	n/a	n/a	n/a	42	19.05	ln(x)	0.05	Inter
Thallium (ug/L)	n/a	0.960	n/a	n/a	n/a	40	62.5	n/a	0.1285	NP Inter(NDs)
Total Radium (pCi/L)	n/a	2.77	n/a	n/a	n/a	44	0	ln(x)	0.05	Inter

02/27/2026 - Classification: Internal - ECRM13684604

Antimony

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 44 background values. 52.27% NDs. 90.04% coverage at alpha=0.01; 93.55% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1047.

Tolerance Limit Analysis Run 8/7/2025 11:37 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Tolerance Limit

Constituent: Antimony (ug/L) Analysis Run 8/7/2025 11:42 AM View: PCS

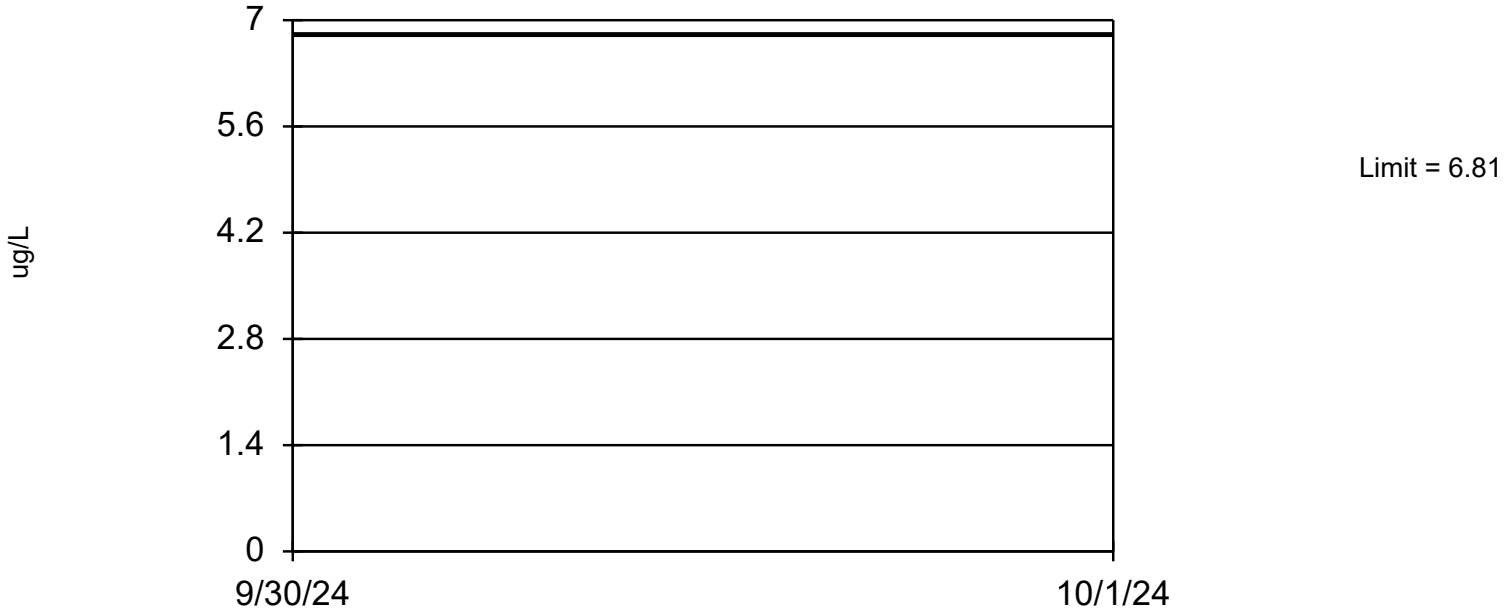
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301 (bg)	MW-302 (bg)
12/20/2016	0.28 (J)	0.32 (J)
1/23/2017	0.2 (J)	0.14 (J)
2/23/2017	0.057 (J)	0.049 (J)
3/28/2017	0.06 (J)	0.067 (J)
4/26/2017	0.034 (J)	0.028 (J)
5/25/2017	0.065 (J)	0.077 (J)
6/28/2017	0.088 (J)	0.067 (J)
8/17/2017	0.18 (J)	0.11 (J)
5/8/2018	0.041 (J)	0.048 (J)
8/6/2018	<0.15 (U)	0.17 (J)
10/9/2018	<0.078 (U)	0.092 (J)
4/22/2019	<0.53 (U)	<0.53 (U)
10/28/2019	<0.53 (U)	<0.53 (U)
4/27/2020	<0.58 (U)	<0.58 (U)
10/19/2020	<0.51 (U)	<0.51 (U)
4/27/2021	<1.1 (U)	<1.1 (U)
10/21/2021	<1.1 (U)	<1.1 (U)
4/25/2022	<0.69 (U)	<0.69 (U)
10/12/2022	<0.69 (U)	<0.69 (U)
4/20/2023	<5 (UX)	<5 (UX)
11/6/2023	1.2 (J)	
11/7/2023		<1 (U)
4/17/2024		<1
4/18/2024	<1	
10/1/2024	<1	<1

ND substitution: RL or RL/2 if <15% NDs.

Arsenic

Interwell Parametric



95% coverage. Background Data Summary (based on natural log transformation): Mean=0.1531, Std. Dev.=0.8411, n=44, 13.64% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9362, critical = 0.924. Report alpha = 0.05.

Tolerance Limit Analysis Run 8/7/2025 11:37 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Tolerance Limit

Constituent: Arsenic (ug/L) Analysis Run 8/7/2025 11:42 AM View: PCS

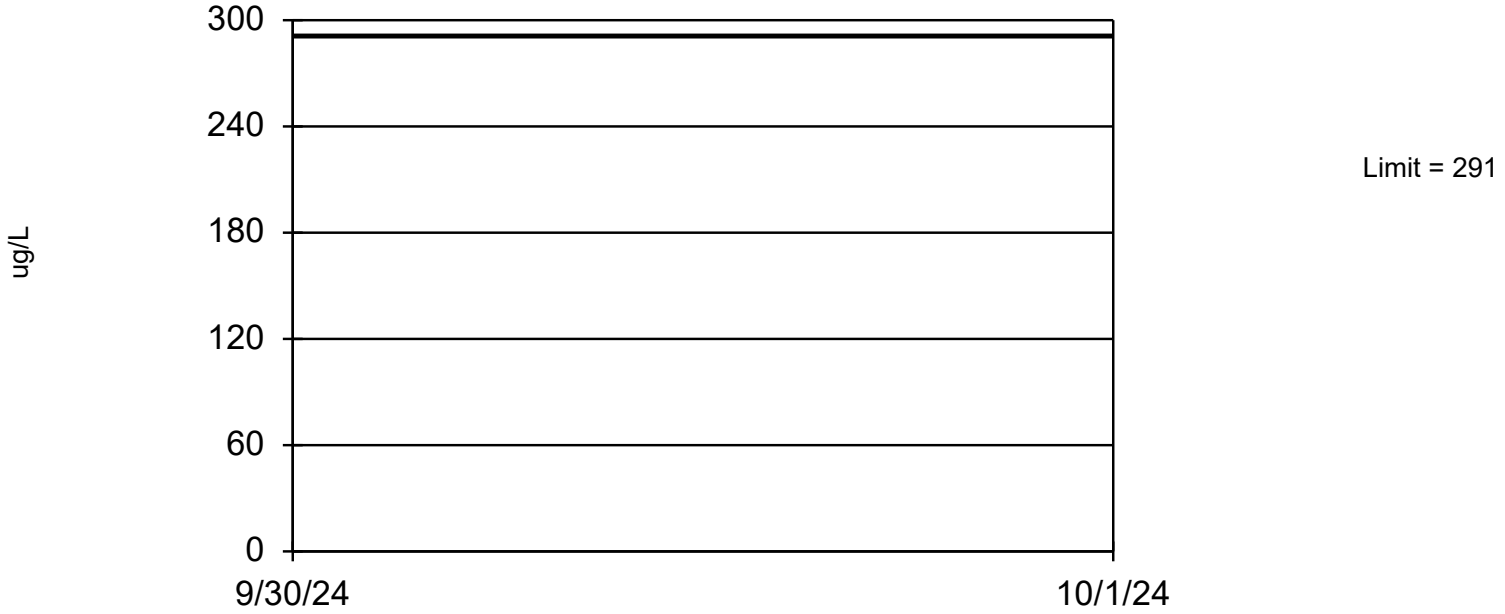
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301 (bg)	MW-302 (bg)
12/20/2016	0.7 (J)	2.3
1/23/2017	0.69 (J)	1.7
2/23/2017	0.55 (J)	1.6
3/28/2017	0.54 (J)	2.7
4/26/2017	0.55 (J)	2.4
5/25/2017	0.5 (J)	3.2
6/28/2017	0.62 (J)	1.6
8/17/2017	1.8	1.9
5/8/2018	0.54 (J)	0.79 (J)
8/6/2018	1.1	9
10/9/2018	0.67 (J)	4.5
4/22/2019	<0.75 (U)	2.1
10/28/2019	<0.75 (U)	7
4/27/2020	<0.88 (U)	4.4
10/19/2020	<0.88 (U)	2
4/27/2021	<0.75 (U)	3.4
10/21/2021	0.88 (J)	0.9 (J)
4/25/2022	0.8 (J)	1.2 (J)
10/12/2022	<0.75 (U)	0.76 (J)
4/20/2023	<2.7 (UX)	<2.7 (UX)
11/6/2023	1.5 (J)	
11/7/2023		0.86 (J)
4/17/2024		1.1 (J)
4/18/2024	0.87 (J)	
10/1/2024	0.72 (J)	4.4

ND substitution: RL or RL/2 if <15% NDs.

Barium

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 46 background values. 90.43% coverage at alpha=0.01; 93.55% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.09447.

Tolerance Limit Analysis Run 8/7/2025 11:37 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Tolerance Limit

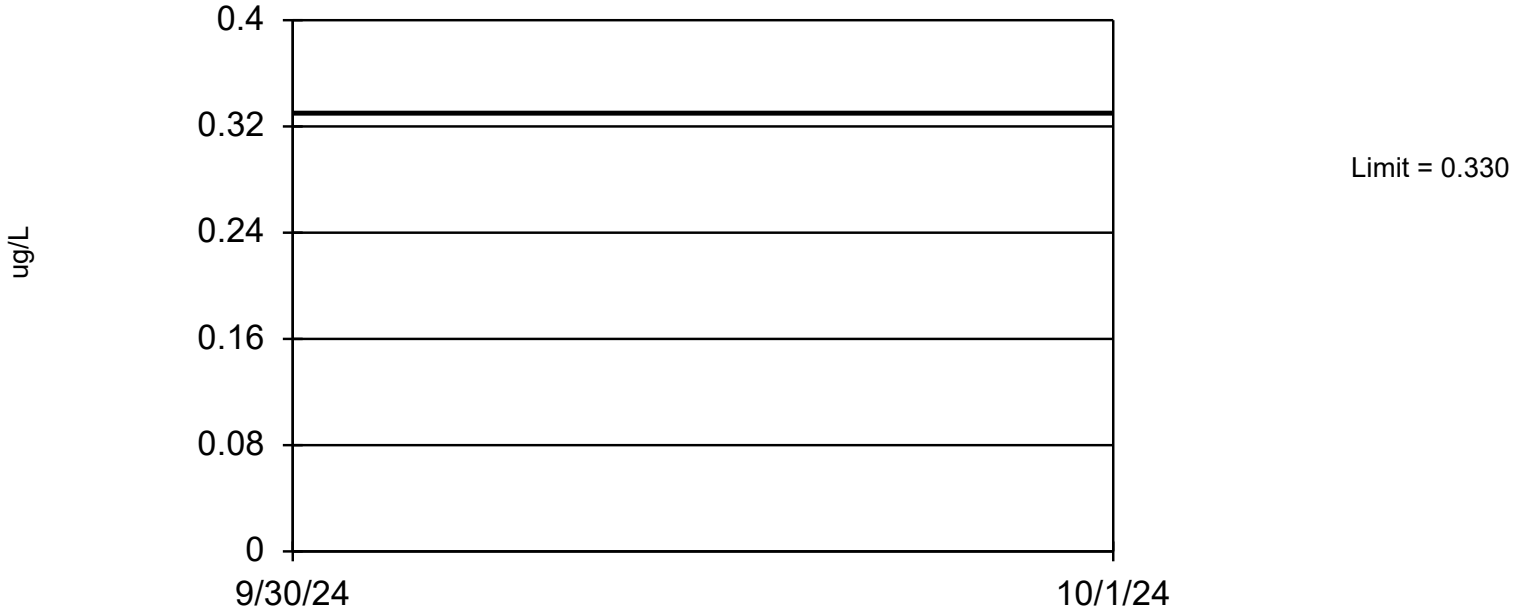
Constituent: Barium (ug/L) Analysis Run 8/7/2025 11:42 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301 (bg)	MW-302 (bg)
12/20/2016	250	200
1/23/2017	257	194
2/23/2017	264	166
3/28/2017	264	187
4/26/2017	211	176
5/25/2017	205	109
6/28/2017	265	133
8/17/2017	291	175
5/8/2018	282	213
8/6/2018	281	254
10/9/2018	261	141
4/22/2019	230	130
10/28/2019	270	220
4/27/2020	260	210
10/19/2020	270	200
4/27/2021	250	160
10/21/2021	270	220
4/25/2022	280	110
10/12/2022	290	210
4/20/2023	270	170
11/6/2023	270	
11/7/2023		230
4/17/2024		250
4/18/2024	270	
10/1/2024	250	250

Beryllium

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 42 background values. 80.95% NDs. 89.65% coverage at alpha=0.01; 93.16% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.116.

Tolerance Limit Analysis Run 8/7/2025 11:37 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Tolerance Limit

Constituent: Beryllium (ug/L) Analysis Run 8/7/2025 11:42 AM View: PCS

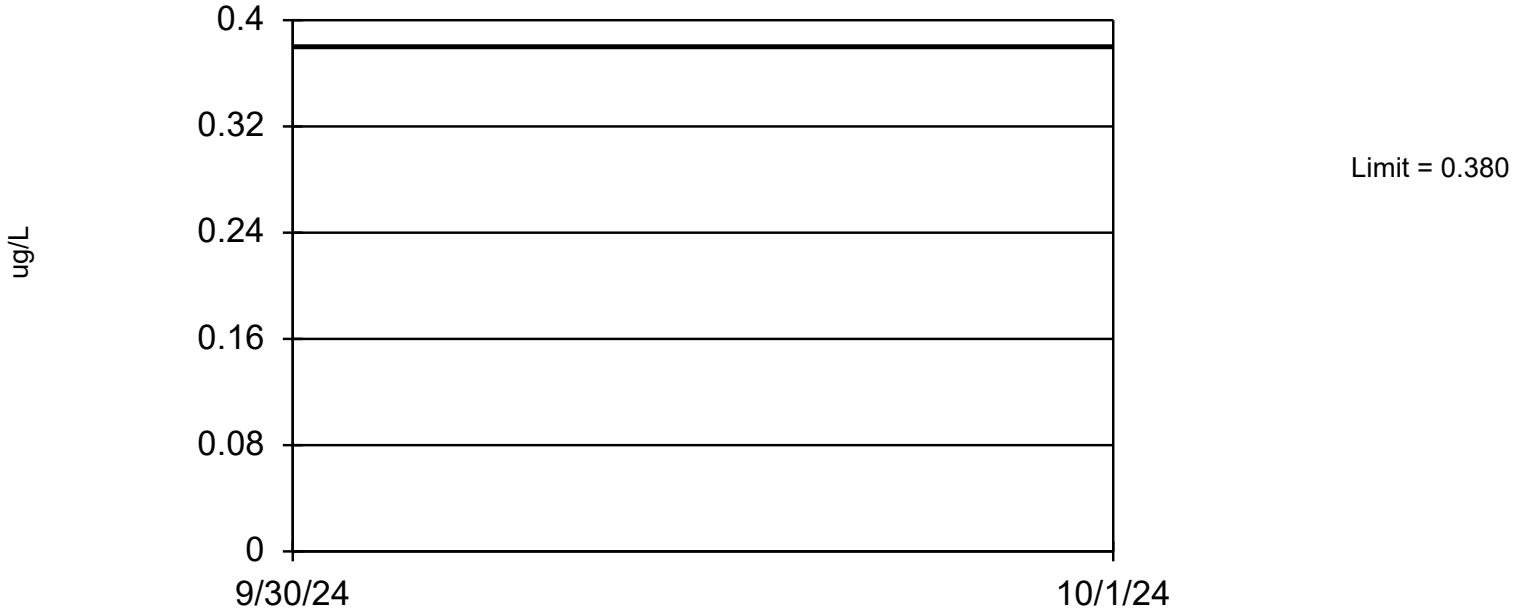
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301 (bg)	MW-302 (bg)
12/20/2016	<0.08 (U)	<0.08 (U)
1/23/2017	<0.08 (U)	<0.08 (U)
2/23/2017	0.075 (J)	0.078 (J)
3/28/2017	0.012 (J)	0.023 (J)
4/26/2017	0.023 (J)	<0.012 (U)
5/25/2017	0.016 (J)	0.019 (J)
6/28/2017	<0.012 (U)	<0.012 (U)
8/17/2017	0.14 (J)	<0.012 (U)
5/8/2018	<0.012 (U)	<0.012 (U)
10/9/2018	<0.089 (U)	<0.089 (U)
4/22/2019	<0.27 (U)	<0.27 (U)
10/28/2019	<0.27 (U)	<0.27 (U)
4/27/2020	<0.27 (U)	<0.27 (U)
10/19/2020	<0.27 (U)	<0.27 (U)
4/27/2021	<0.27 (U)	<0.27 (U)
10/21/2021	<0.27 (U)	<0.27 (U)
4/25/2022	<0.27 (U)	<0.27 (U)
10/12/2022	<0.27 (U)	<0.27 (U)
4/20/2023	<1.7 (UX)	<1.7 (UX)
11/6/2023	<0.33 (U)	
11/7/2023		<0.33 (U)
4/17/2024		<0.33
4/18/2024	<0.33	
10/1/2024	<0.33	<0.33

ND substitution: RL or RL/2 if <15% NDs.

Cadmium

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. 22.73% NDs. 90.04% coverage at alpha=0.01; 93.55% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1047.

Tolerance Limit Analysis Run 8/7/2025 11:38 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Tolerance Limit

Constituent: Cadmium (ug/L) Analysis Run 8/7/2025 11:42 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301 (bg)	MW-302 (bg)
12/20/2016	<0.029 (U)	<0.029 (U)
1/23/2017	0.059 (J)	<0.029 (U)
2/23/2017	0.066 (J)	0.04 (J)
3/28/2017	0.072 (J)	0.036 (J)
4/26/2017	0.063 (J)	0.042 (J)
5/25/2017	0.061 (J)	0.021 (J)
6/28/2017	0.073 (J)	0.035 (J)
8/17/2017	0.12 (J)	0.03 (J)
5/8/2018	0.069 (J)	0.041 (J)
8/6/2018	0.096 (J)	0.084 (J)
10/9/2018	0.075 (J)	<0.033 (U)
4/22/2019	<0.077 (U)	<0.077 (U)
10/28/2019	0.064 (J)	0.053 (J)
4/27/2020	0.066 (J)	0.098 (J)
10/19/2020	0.073 (J)	0.062 (J)
4/27/2021	0.062 (J)	0.065 (J)
10/21/2021	0.11	0.08 (J)
4/25/2022	0.072 (J)	0.38
10/12/2022	0.068 (J)	0.072 (J)
4/20/2023	<0.5 (UX)	<0.5 (UX)
11/6/2023	0.33	
11/7/2023		<0.1 (U)
4/17/2024		<0.1
4/18/2024	<0.1	
10/1/2024	<0.1	0.24

ND substitution: RL or RL/2 if <15% NDs.

Chromium

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. 4.545% NDs. 90.04% coverage at alpha=0.01; 93.55% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1047.

Tolerance Limit Analysis Run 8/7/2025 11:38 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Tolerance Limit

Constituent: Chromium (ug/L) Analysis Run 8/7/2025 11:42 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301 (bg)	MW-302 (bg)
12/20/2016	3.9	3.3
1/23/2017	4.3	2.1
2/23/2017	4.5	1.7
3/28/2017	4.4	1.4
4/26/2017	4.7	1.5
5/25/2017	3.4	0.8 (J)
6/28/2017	3.9	0.91 (J)
8/17/2017	9.9	1.5
5/8/2018	4.1	1.2
8/6/2018	5.8	4.4
10/9/2018	5.2	0.78 (J)
4/22/2019	3.6 (J)	<0.98 (U)
10/28/2019	5.4	2.1 (J)
4/27/2020	4.7 (J)	2.8 (J)
10/19/2020	4.9 (J)	2.2 (J)
4/27/2021	4.2 (J)	1.4 (J)
10/21/2021	5.2	2 (J)
4/25/2022	5.3	<1.1 (U)
10/12/2022	4.8 (J)	2 (J)
4/20/2023	<5.5 (UX)	<5.5 (UX)
11/6/2023	5.5	
11/7/2023		1.9 (J)
4/17/2024		1.3 (J)
4/18/2024	5.2	
10/1/2024	5	2.1 (J)

ND substitution: RL or RL/2 if <15% NDs.

Cobalt

Interwell Parametric

95% coverage. Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-1.297, Std. Dev.=1.474, n=44, 22.73% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9324, critical = 0.924. Report alpha = 0.05.

Tolerance Limit Analysis Run 8/7/2025 11:38 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Tolerance Limit

Constituent: Cobalt (ug/L) Analysis Run 8/7/2025 11:42 AM View: PCS

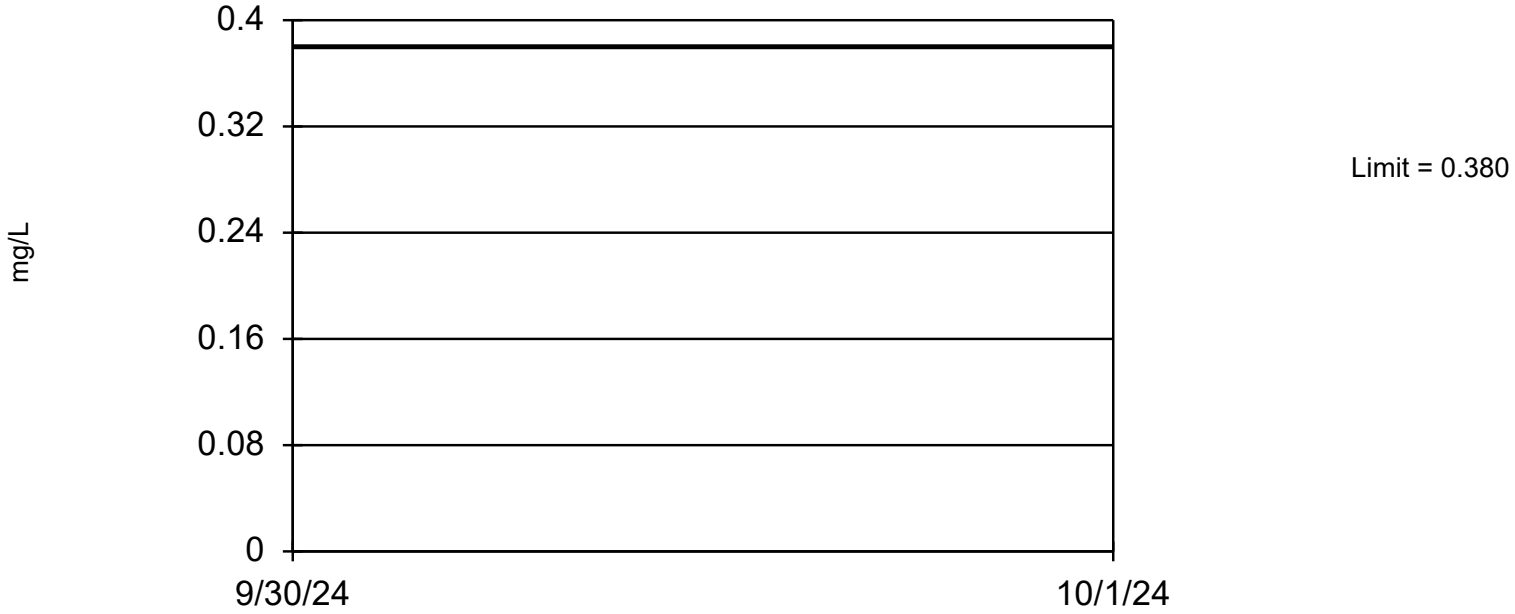
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301 (bg)	MW-302 (bg)
12/20/2016	<0.5 (U)	2.7
1/23/2017	<0.5 (U)	2.2
2/23/2017	0.25 (J)	3
3/28/2017	0.11 (J)	4.7
4/26/2017	0.28 (J)	2.1
5/25/2017	0.18 (J)	2.1
6/28/2017	0.057 (J)	1.2
8/17/2017	2.1	1.4
5/8/2018	0.028 (J)	3.2
8/6/2018	0.52 (J)	1.6
10/9/2018	0.084 (J)	3.2
4/22/2019	0.12 (J)	2.1
10/28/2019	0.12 (J)	1.2
4/27/2020	0.23 (J)	0.56
10/19/2020	<0.091 (U)	0.33 (J)
4/27/2021	0.15 (J)	0.37 (J)
10/21/2021	<0.19 (U)	<0.19 (U)
4/25/2022	<0.19 (U)	31 (X)
10/12/2022	<0.19 (U)	0.21 (J)
4/20/2023	<0.85 (UX)	1.5 (J)
11/6/2023	0.25 (J)	
11/7/2023		<0.17 (U)
4/17/2024		0.38 (J)
4/18/2024	<0.17	
10/1/2024	<0.17	4.2

ND substitution: RL or RL/2 if <15% NDs.

Fluoride

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 48 background values. 56.25% NDs. 90.82% coverage at alpha=0.01; 93.95% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.08526.

Tolerance Limit Analysis Run 8/7/2025 11:38 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Tolerance Limit

Constituent: Fluoride (mg/L) Analysis Run 8/7/2025 11:42 AM View: PCS

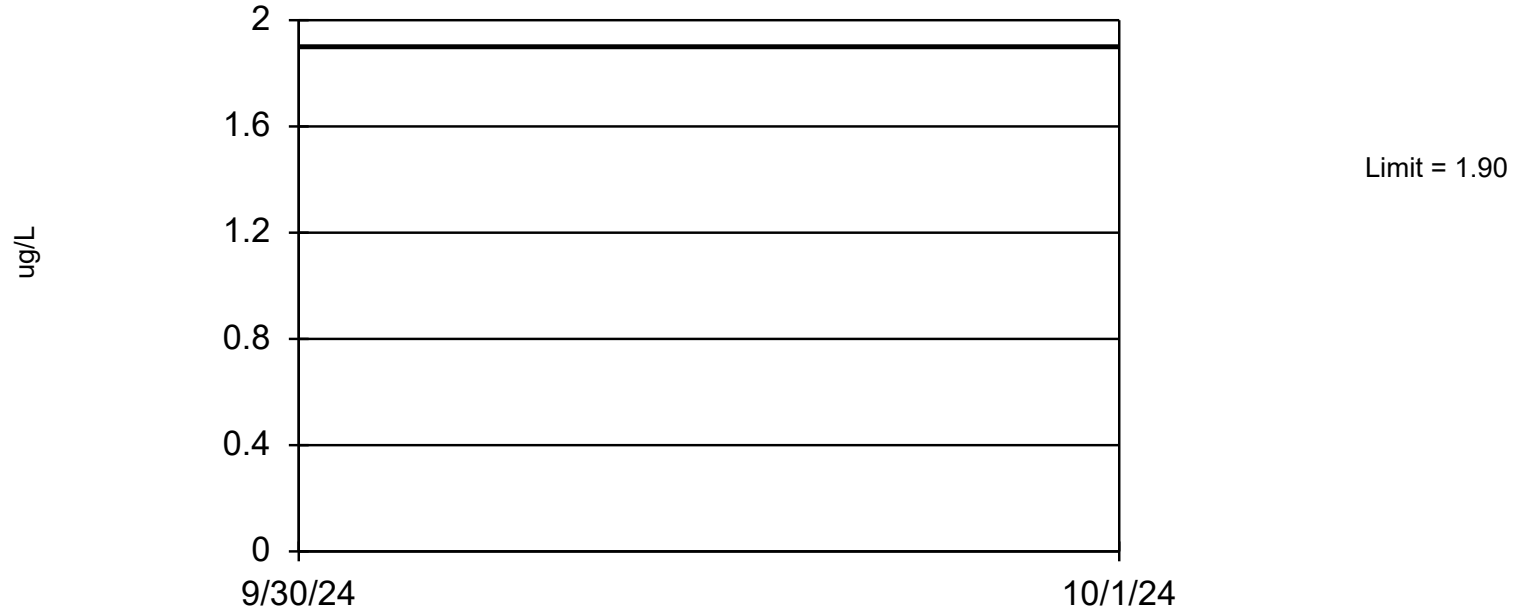
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301 (bg)	MW-302 (bg)
12/20/2016	0.13 (J)	0.16 (J)
1/23/2017	0.079 (J)	0.079 (J)
2/23/2017	0.13 (J)	0.1 (J)
3/28/2017	0.1 (J)	<0.1 (U)
4/26/2017	0.1 (J)	0.12 (J)
5/25/2017	<0.1 (U)	<0.1 (U)
6/28/2017	0.15 (J)	0.15 (J)
8/17/2017	0.21	0.2 (J)
10/17/2017	0.17 (J)	0.19 (J)
5/8/2018	0.2 (J)	0.23
8/6/2018	0.16 (J)	0.17 (J)
10/9/2018	0.22	0.21
4/22/2019	<0.23 (U)	<0.23 (U)
10/28/2019	<0.23 (U)	<0.23 (U)
4/27/2020	<0.23 (U)	<0.23 (U)
10/19/2020	<0.23 (U)	<0.23 (U)
4/27/2021	<0.28 (U)	<0.28 (U)
10/21/2021	<0.28 (U)	<0.28 (U)
4/25/2022	<0.22 (U)	<0.22 (U)
10/12/2022	<0.22 (U)	<0.22 (U)
4/20/2023	<0.38 (U)	<0.38 (U)
11/6/2023	<0.38 (U)	
11/7/2023		<0.38 (U)
4/17/2024		<0.38
4/18/2024	<0.38	
10/1/2024	<0.38	<0.38

ND substitution: RL or RL/2 if <15% NDs.

Lead

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. 47.73% NDs. 90.04% coverage at alpha=0.01; 93.55% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1047.

Tolerance Limit Analysis Run 8/7/2025 11:38 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Tolerance Limit

Constituent: Lead (ug/L) Analysis Run 8/7/2025 11:42 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301 (bg)	MW-302 (bg)
12/20/2016	<0.19 (U)	0.55 (J)
1/23/2017	0.23 (J)	<0.19 (U)
2/23/2017	0.16 (J)	0.14 (J)
3/28/2017	0.086 (J)	0.2 (J)
4/26/2017	0.4 (J)	0.083 (J)
5/25/2017	0.25 (J)	0.16 (J)
6/28/2017	0.058 (J)	0.034 (J)
8/17/2017	1.9	<0.033 (U)
5/8/2018	<0.033 (U)	0.035 (J)
8/6/2018	0.66 (J)	1.2
10/9/2018	0.17 (J)	0.13 (J)
4/22/2019	<0.27 (U)	<0.27 (U)
10/28/2019	<0.27 (U)	<0.27 (U)
4/27/2020	0.27 (J)	<0.27 (U)
10/19/2020	<0.11 (U)	<0.11 (U)
4/27/2021	<0.21 (U)	<0.21 (U)
10/21/2021	0.37 (J)	<0.21 (U)
4/25/2022	<0.24 (U)	0.26 (J)
10/12/2022	<0.24 (U)	<0.24 (U)
4/20/2023	<1.2 (UX)	<1.2 (UX)
11/6/2023	0.52	
11/7/2023		<0.24 (U)
4/17/2024		<0.26
4/18/2024	<0.26	
10/1/2024	<0.26	0.26 (J)

ND substitution: RL or RL/2 if <15% NDs.

Lithium

Interwell Parametric

95% coverage. Background Data Summary: Mean=9.369, Std. Dev.=4.446, n=45, 6.667% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9448, critical = 0.926. Report alpha = 0.05.

Tolerance Limit Analysis Run 8/7/2025 11:38 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Tolerance Limit

Constituent: Lithium (ug/L) Analysis Run 8/7/2025 11:43 AM View: PCS

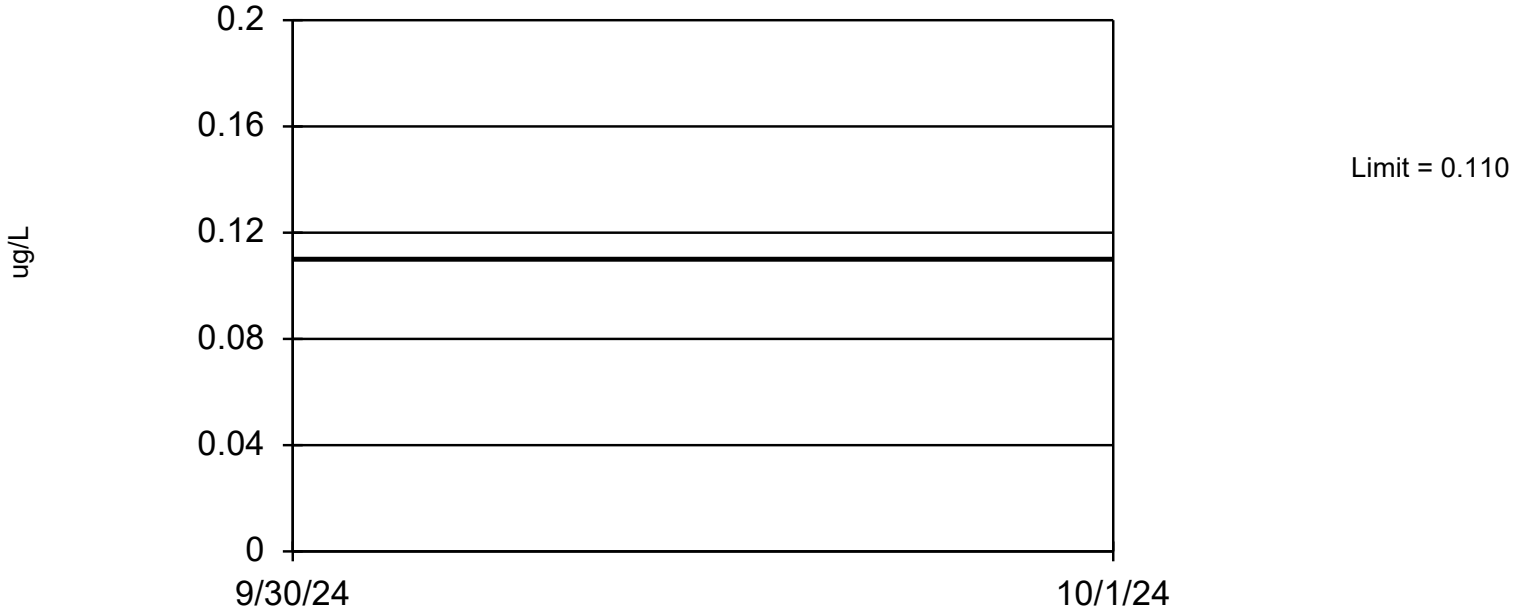
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301 (bg)	MW-302 (bg)
12/20/2016	14.9	8.7 (J)
1/23/2017	13.4	7.7 (J)
2/23/2017	11.1	3.4 (J)
3/28/2017	12.6	5.3 (J)
4/26/2017	8.6 (J)	4.9 (J)
5/25/2017	6.1 (J)	<2.9 (U)
6/28/2017	8.9 (J)	<2.9 (U)
8/17/2017	16.8	11.9
5/8/2018	13.6	5.4 (J)
8/6/2018	5.4 (J)	<4.6 (U)
10/9/2018	13.3	4.6 (J)
4/22/2019	8.5 (J)	4.7 (J)
10/28/2019	12	5.3 (J)
4/27/2020	11	3.8 (J)
10/19/2020	15	8.2 (J)
4/27/2021	13	6.3 (J)
10/21/2021	13	6.9 (J)
4/25/2022	17	5 (J)
10/12/2022	14	7.8 (J)
4/20/2023	16 (J)	<13 (UX)
11/6/2023	16	
11/7/2023		9.5 (J)
4/17/2024		9.3 (J)
4/18/2024	15	
10/1/2024	14	8.5 (J)

ND substitution: RL or RL/2 if <15% NDs.

Mercury

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 89.65% coverage at alpha=0.01; 93.16% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.116.

Tolerance Limit Analysis Run 8/7/2025 11:38 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Tolerance Limit

Constituent: Mercury (ug/L) Analysis Run 8/7/2025 11:43 AM View: PCS

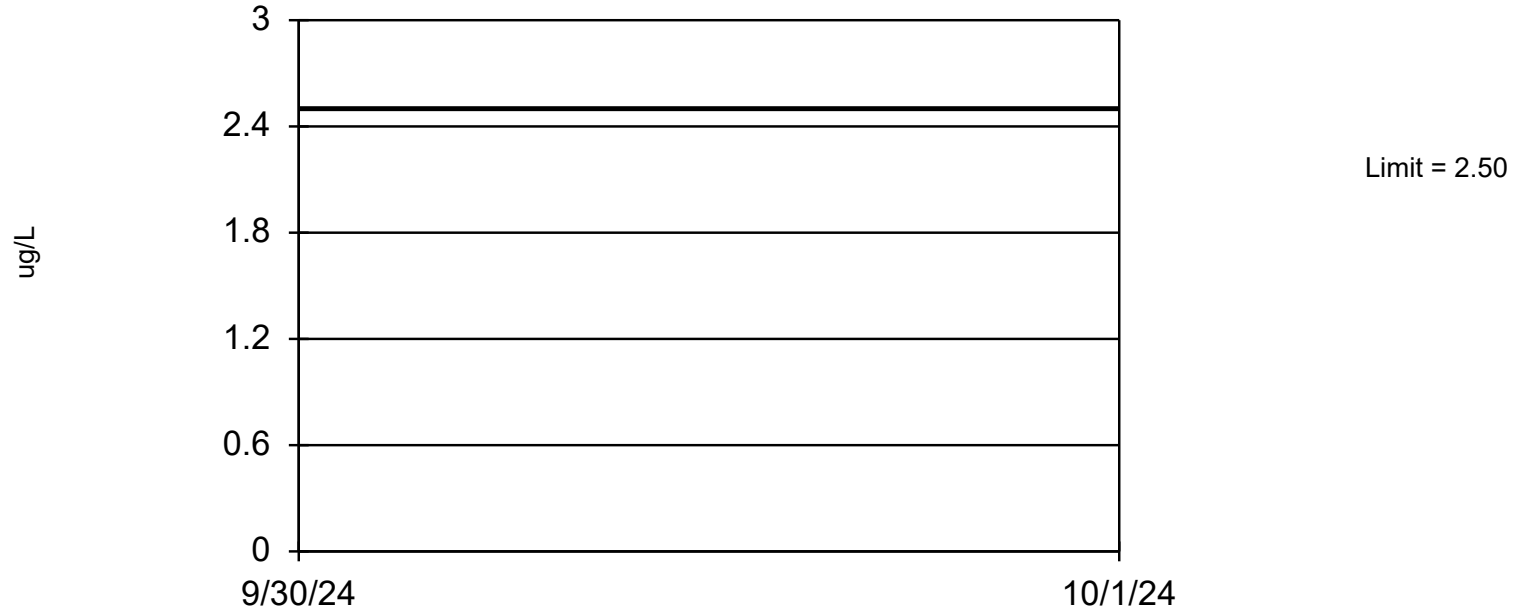
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301 (bg)	MW-302 (bg)
12/20/2016	<0.039 (U)	<0.039 (U)
1/23/2017	<0.039 (U)	<0.039 (U)
2/23/2017	<0.046 (U)	<0.046 (U)
3/28/2017	<0.046 (U)	<0.046 (U)
4/26/2017	<0.046 (U)	<0.046 (U)
5/25/2017	<0.046 (U)	<0.046 (U)
6/28/2017	<0.046 (U)	<0.046 (U)
8/17/2017	<0.046 (U)	<0.046 (U)
5/8/2018	<0.09 (U)	<0.09 (U)
10/9/2018	<0.09 (U)	<0.09 (U)
4/22/2019	<0.1 (U)	<0.1 (U)
10/28/2019	<0.1 (U)	<0.1 (U)
4/27/2020	<0.1 (U)	<0.1 (U)
4/27/2021	<0.15 (U)	<0.15 (U)
10/21/2021	<0.15 (U)	<0.15 (U)
4/25/2022	<0.11 (U)	<0.11 (U)
10/12/2022	<0.11 (U)	<0.11 (U)
4/20/2023	<0.14 (U)	<0.14 (U)
11/6/2023	<0.14 (U)	
11/7/2023		<0.14 (U)
4/17/2024		<0.11
4/18/2024	<0.11	
10/1/2024	<0.11	<0.11

ND substitution: RL or RL/2 if <15% NDs.

Molybdenum

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. 47.73% NDs. 90.04% coverage at alpha=0.01; 93.55% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1047.

Tolerance Limit Analysis Run 8/7/2025 11:38 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Tolerance Limit

Constituent: Molybdenum (ug/L) Analysis Run 8/7/2025 11:43 AM View: PCS

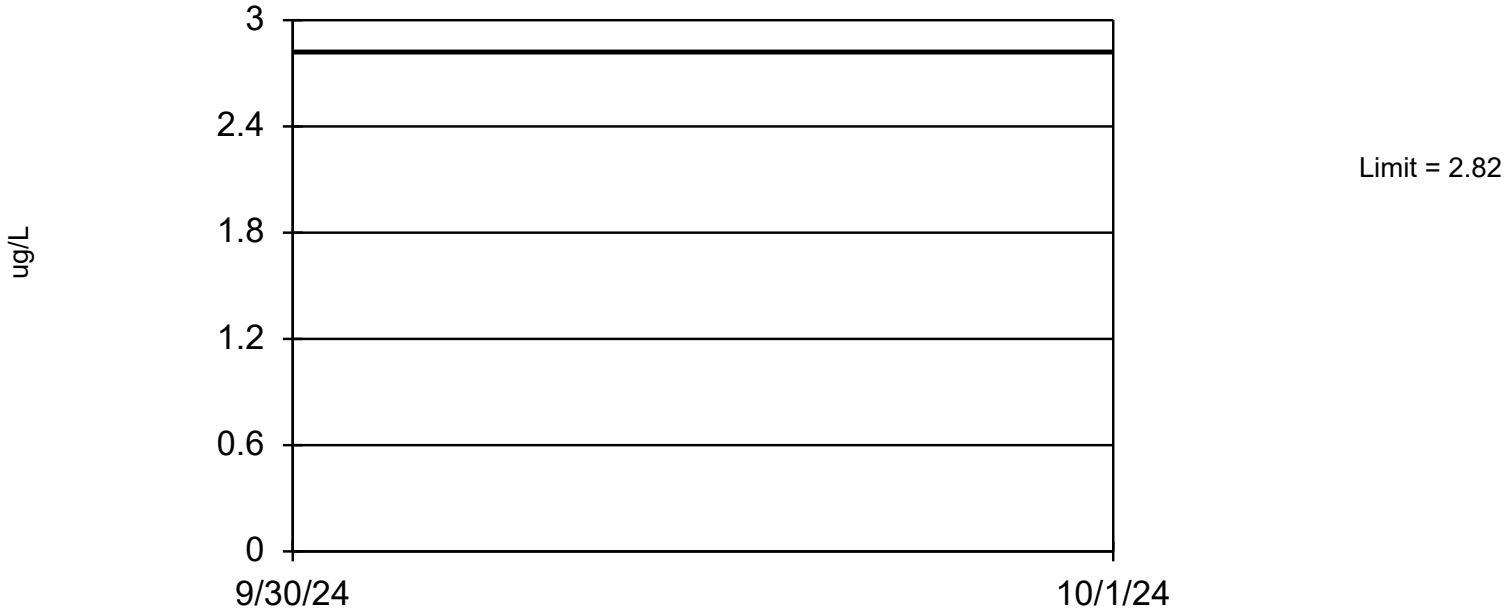
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301 (bg)	MW-302 (bg)
12/20/2016	0.61 (J)	0.76 (J)
1/23/2017	0.34 (J)	0.43 (J)
2/23/2017	0.38 (J)	0.45 (J)
3/28/2017	0.45 (J)	0.38 (J)
4/26/2017	0.23 (J)	0.52 (J)
5/25/2017	0.26 (J)	0.28 (J)
6/28/2017	0.33 (J)	0.38 (J)
8/17/2017	0.44 (J)	0.38 (J)
5/8/2018	0.35 (J)	0.99 (J)
8/6/2018	0.44 (J)	0.78 (J)
10/9/2018	<0.57 (U)	0.67 (J)
4/22/2019	<1.1 (U)	<1.1 (U)
10/28/2019	<1.1 (U)	<1.1 (U)
4/27/2020	<1.1 (U)	<1.1 (U)
10/19/2020	<1.1 (U)	<1.1 (U)
4/27/2021	<1.3 (U)	<1.3 (U)
10/21/2021	<1.3 (U)	<1.3 (U)
4/25/2022	<1.2 (U)	<1.2 (U)
10/12/2022	<1.2 (U)	<1.2 (U)
4/20/2023	<4.6 (UX)	<4.6 (UX)
11/6/2023	2.5	
11/7/2023		1.1 (J)
4/17/2024		<1.3
4/18/2024	<1.3	
10/1/2024	<1.3	<1.3

ND substitution: RL or RL/2 if <15% NDs.

Selenium

Interwell Parametric



95% coverage. Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-0.3862, Std. Dev.=0.6735, n=42, 19.05% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9451, critical = 0.922. Report alpha = 0.05.

Tolerance Limit Analysis Run 8/7/2025 11:38 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Tolerance Limit

Constituent: Selenium (ug/L) Analysis Run 8/7/2025 11:43 AM View: PCS

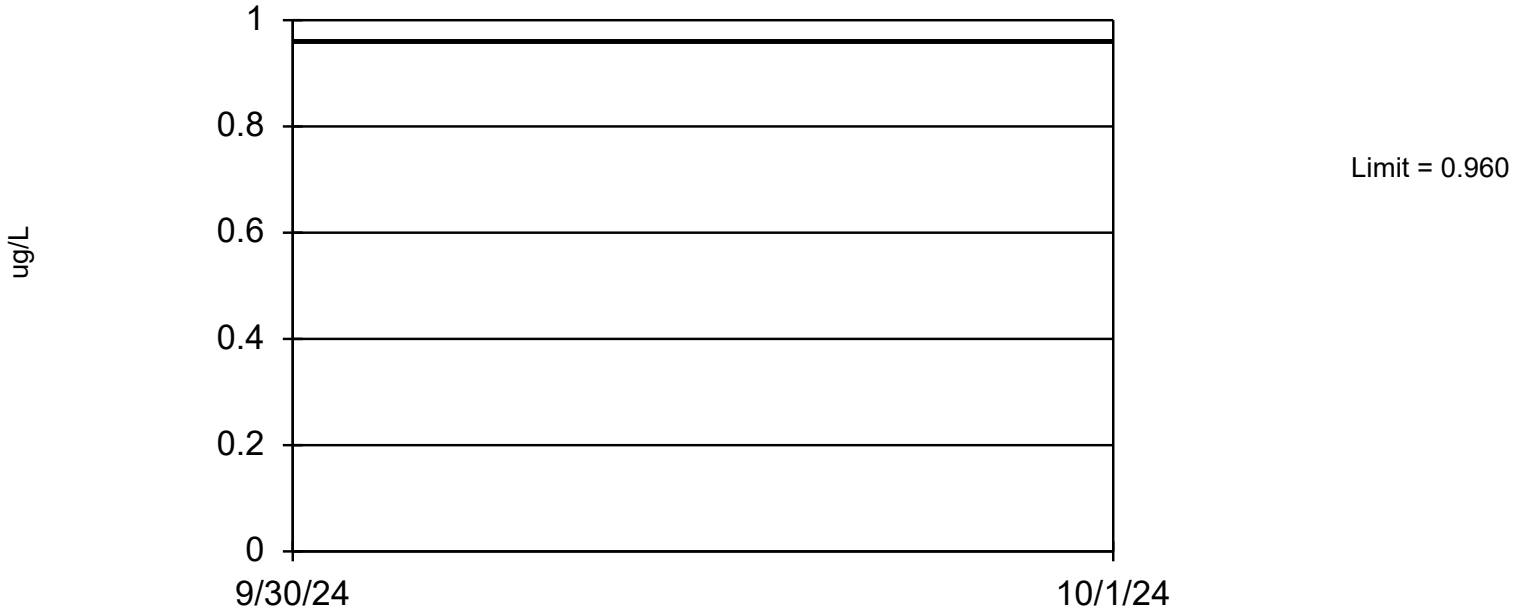
Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301 (bg)	MW-302 (bg)
12/20/2016	0.97 (J)	0.55 (J)
1/23/2017	1.2	0.36 (J)
2/23/2017	0.98 (J)	0.37 (J)
3/28/2017	1	0.43 (J)
4/26/2017	0.72 (J)	0.44 (J)
5/25/2017	0.69 (J)	0.28 (J)
6/28/2017	1.1	0.44 (J)
8/17/2017	1.2	0.46 (J)
5/8/2018	1.3	0.54 (J)
8/6/2018	1.3	1.4
10/9/2018	0.95 (J)	0.37 (J)
4/22/2019	1.1 (J)	<1 (U)
10/28/2019	1.7 (J)	1.1 (J)
4/27/2020	<1 (U)	<1 (U)
4/27/2021	<0.96 (U)	0.96 (J)
10/21/2021	1.1 (J)	<0.96 (U)
4/25/2022	2.9 (J)	3.7 (J)
10/12/2022	1.3 (J)	1.2 (J)
4/20/2023	<7 (UX)	<7 (UX)
11/6/2023	3.1 (J)	
11/7/2023		<1.4 (U)
4/17/2024		1.9 (J)
4/18/2024	1.6 (J)	
10/1/2024	<1.4	<1.4

ND substitution: RL or RL/2 if <15% NDs.

Thallium

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 40 background values. 62.5% NDs. 89.26% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1285.

Tolerance Limit Analysis Run 8/7/2025 11:38 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Tolerance Limit

Constituent: Thallium (ug/L) Analysis Run 8/7/2025 11:43 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301 (bg)	MW-302 (bg)
12/20/2016	<0.5 (U)	<0.5 (U)
1/23/2017	<0.5 (U)	<0.5 (U)
2/23/2017	<0.036 (U)	0.05 (J)
3/28/2017	<0.036 (U)	0.044 (J)
4/26/2017	0.12 (J)	0.058 (J)
5/25/2017	0.043 (J)	<0.036 (U)
6/28/2017	0.081 (J)	<0.036 (U)
8/17/2017	0.3 (J)	0.18 (J)
5/8/2018	<0.036 (U)	0.039 (J)
10/9/2018	<0.099 (U)	<0.099 (U)
4/22/2019	<0.27 (U)	<0.27 (U)
10/28/2019	<0.27 (U)	<0.27 (U)
4/27/2020	<0.26 (U)	<0.26 (U)
4/27/2021	<0.26 (U)	<0.26 (U)
10/21/2021	<0.26 (U)	<0.26 (U)
4/25/2022	0.27 (J)	0.37 (J)
10/12/2022	<0.26 (U)	<0.26 (U)
4/20/2023	<1.3 (UX)	<1.3 (UX)
11/6/2023	<0.26 (U)	
11/7/2023		0.26 (J)
4/17/2024		<0.57
4/18/2024	0.57 (J)	
10/1/2024	0.84 (J)	0.96 (J)

ND substitution: RL or RL/2 if <15% NDs.

Total Radium

Interwell Parametric

95% coverage. Background Data Summary (based on natural log transformation): Mean=-0.1554, Std. Dev.=0.5591, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9496, critical = 0.924. Report alpha = 0.05.

Tolerance Limit Analysis Run 8/7/2025 11:39 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

Tolerance Limit

Constituent: Total Radium (pCi/L) Analysis Run 8/7/2025 11:43 AM View: PCS

Prairie Creek Generating Station Client: SCS Engineers Data: PrairieCreek

	MW-301 (bg)	MW-302 (bg)
12/20/2016	1.06	0.597
1/23/2017	0.957	0.138
2/23/2017	1.42	0.655
3/28/2017	1.42	0.447
4/26/2017	1.14	0.713
5/25/2017	0.877	1.3
6/28/2017	2.53	1.12
8/17/2017	1.52	1.21
5/8/2018	1	0.699
8/6/2018	1.07	3.61
10/9/2018	1.09	1.09
10/28/2019	0.708	0.562
4/27/2020	0.477	0.392
10/19/2020	0.975	1.22
4/27/2021	0.844	1.31
10/21/2021	0.606	0.77
4/25/2022	0.845	0.489
10/12/2022	0.977	0.681
4/20/2023	0.391	0.94
11/6/2023	1.05	
11/7/2023		0.746
4/17/2024		1
4/18/2024	1.07	
10/1/2024	0.245	1.48