2025 Annual Groundwater Monitoring and Corrective Action Report

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SCS ENGINEERS

25226076.00 | July 31, 2026

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08/27/2026 - Classification: Internal - ECRM13799659

OVERVIEW OF CURRENT STATUS

Sutherland Generating Station
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 the Sutherland Generating Station (SGS) monitors the capped inactive multisystem of impoundments. 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 an SSI over background for one or more constituents listed in Appendix III to this part pursuant to §257.94(e):	
	(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 July 15, 2019, based on April 2019 monitoring results. In 2025, SSIs for semiannual events for compliance wells at the waste boundary included the following; see **Tables 5A** and **5B** for complete results. Compliance Wells:

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Category	Rule Requirement	Site Status
SSIs (continued)		April 2025 Boron: MW-303, MW-304, MW-305, MW-306, MW-312 Calcium: MW-304, MW-305, MW-306, MW-312 pH: MW-306, MW-312 Sulfate: MW-303, MW-304, MW-305, MW-306, MW-312 Total Dissolved Solids (TDS): MW-304, MW-305, MW-306, MW-312 October 2025 Boron: MW-303, MW-304, MW-305, MW-306, MW-312 Calcium: MW-303, MW-304, MW-305, MW-306, MW-312 Fluoride: MW-304 pH: MW-305 Sulfate: MW-303, MW-304, MW-305, MW-306, MW-312 Total Dissolved Solids: MW-303, MW-304, MW-305, MW-306, MW-312
	(B) Provide the date when the assessment monitoring program was initiated for the CCR unit.	January 13, 2020

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Category	Rule Requirement	Site Status
Statistically Significant Levels (SSL) Above Groundwater Protection Standard (GPS)	(iv) If it was determined that there was an 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;	Lithium: Initially determined to be at SSL above the GPS on October 25, 2021, at compliance monitoring well MW-306. In 2025, concentrations determined to be at an SSL above the GPS as follows: <u>April 2025</u> Lithium: MW-306, MW-312 <u>October 2025</u> Lithium: MW-306, MW-312
	(B) Provide the date when the assessment of corrective measures was initiated for the CCR unit;	January 23, 2022
	(C) Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit; and	July 10, 2025
	(D) Provide the date when the assessment of corrective measures was completed for the CCR unit.	June 22, 2022
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 - September 12, 2025
Corrective Action	(vi) Whether remedial activities were initiated or are ongoing pursuant to §257.98 during the current annual reporting period.	Remedial activities included implementing the corrective action groundwater monitoring program and conducting a pumping test to support corrective action design.

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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) Final Rule" published by the U.S. Environmental Protection Agency (U.S. EPA) in the *Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities;* Final Rule, dated April 17, 2015 (U.S. EPA, 2015) and subsequent amendments. Specifically, this report was prepared to fulfill the requirements of 40 Code of Federal Regulations (CFR) 257.100 and 40 CFR 257.90(e) for inactive CCR surface impoundments. 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 unit.

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

The groundwater monitoring network at Sutherland Generating Station (SGS) is a multiunit system for the closure area that includes the following inactive CCR units:

- SGS North Primary Pond (inactive surface impoundment – closed June 2020).
- SGS South Primary Pond (inactive surface impoundment – closed June 2020).
- SGS Main Pond (inactive surface impoundment – closed June 2020).
- SGS Polishing Pond (inactive surface impoundment – closed June 2020).

The system is designed to detect monitored constituents at the waste boundary of the SGS CCR units as required by 40 CFR 257.91(d). The groundwater monitoring system consists of two upgradient background monitoring wells, five downgradient compliance monitoring wells at the waste boundary, and nine additional wells installed to delineate the nature and extent of lithium impacts in groundwater (**Table 1**, **Figure 1**, and **Figure 2**).

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 requirement sections:

- Geologic and hydrogeologic setting.
- CCR Rule monitoring system.

2.1 GEOLOGY AND HYDROGEOLOGY

2.1.1 Regional Information

For the purposes of groundwater monitoring, the surficial alluvium aquifer, composed of glacial drift, sand, and gravel, is considered to be the uppermost aquifer unit, as defined under 40 CFR 257.53, at SGS. Immediately underlying the surficial alluvium aquifer is the Mississippian Limestone unit. Devonian aged units underlie the Mississippian limestone and are composed of shale, dolomite, and limestone. Silurian dolomite underlies the Devonian shale, dolomite, and limestone (**Appendix A**).

The Iowa River and associated alluvial aquifers are a major source of surface water and shallow groundwater in the area.

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Regional information indicates that groundwater flow within the Mississippian limestone is to the south-southeast.

2.1.2 Site Information

During drilling of CCR wells at the site, the unconsolidated materials were identified as consisting primarily of sand, lean clay, and silty sand. The boring logs for the SGS monitoring wells are provided in **Appendix B**. All CCR monitoring wells are screened within interbedded sands, lean clays, and silty sand units.

The shallow groundwater flow at the water table is generally to the east/east-southeast, as shown on the April and October 2025 shallow water table maps (**Figures 3** and **4**). This flow direction is consistent with previous water table maps and the regional groundwater flow. The groundwater monitoring well network summary is provided in **Table 1**. The sampling event summary is provided in **Table 2**, and the groundwater elevation data for the CCR monitoring wells are provided in **Table 3**. Estimated horizontal gradients and flow velocities for flow at the shallow and deep levels within the aquifer are provided in **Table 4**.

2.2 CCR RULE MONITORING SYSTEM

The groundwater monitoring system established in accordance with the CCR Rule consists of two upgradient (background) monitoring wells and five downgradient monitoring wells (**Table 1** and **Figure 2**). The background wells include MW-301 and MW-302. The original set of downgradient wells includes MW-303, MW-304, MW-305, and MW-306. Following the detection of lithium at a statistically significant level (SSL) above the Groundwater Protection Standard (GPS) at monitoring well MW-306, additional upgradient wells MW-307 and MW-308 were installed in November 2021 to provide information on groundwater quality at locations expected to be downgradient from the former coal pile and upgradient from the pond closure area. Three downgradient delineation wells, MW-309, MW-310, and MW-311, were installed in May 2022 to provide information on groundwater quality at locations expected to be downgradient of the pond closure area and to support the assessment of corrective measures. MW-312 was installed in February 2023 and was added to the compliance network based on groundwater flow direction and the location of MW-312 between compliance wells MW-306 and MW-305. MW-306A, MW-313, and MW-314 were also installed in February and March 2023.

The CCR Rule wells are installed in the primarily poorly graded sands, clays, and silty sands. The water table well depths range from approximately 16 to 19 feet, measured from the top of the well casing. Deeper wells MW-306A and MW-312A are installed approximately 33 feet bgs into the poorly graded sands with gravel.

3.0 257.100(E)(5) GROUNDWATER MONITORING AND CORRECTIVE ACTION FOR INACTIVE CCR SURFACE IMPOUNDMENTS

The owner or operator of the inactive CCR surface impoundment must: (i) No later than April 17, 2019, comply with groundwater monitoring requirements set forth in §§ 257.90(b) and 257.94(b); and (ii) No later than August 1, 2019, prepare the initial groundwater monitoring and corrective action report as set forth in § 257.90(e).

This report is submitted to fulfill the reporting requirement.

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4.0 §257.90(E) ANNUAL REPORT REQUIREMENTS

Annual groundwater monitoring and corrective action report. 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:

4.1 §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 of the location of the site is provided as **Figure 1**. A map showing the site layout and all background (or upgradient) and downgradient monitoring wells with identification numbers for the groundwater monitoring program is provided as **Figure 2**.

4.2 §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;

There were no additional wells installed in 2025. Existing monitoring well logs and well construction forms are included in **Appendix B**.

4.3 §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;

Two groundwater sampling events were completed for the SGS CCR units in 2025. Assessment monitoring continued in 2025 with semiannual sampling events in April and October.

A summary of the groundwater samples collected for analysis from each monitoring well, the dates the samples were collected, and the type of sample collected is included in **Table 2**.

Groundwater samples collected from the background and compliance monitoring wells in the April and October sampling events were analyzed for Appendix III and Appendix IV constituents in accordance with assessment monitoring requirements. The samples collected at delineation wells MW-306A, MW-307, MW-308, MW-309, MW-310, MW-311, MW-312A, MW-313, and MW-314 were analyzed for lithium and for selected additional parameters collected for the selection of remedy (SOR). Iron was analyzed for the entire network as an additional parameter to support the SOR for the April and October events.

The sampling results for 2025 are summarized in **Tables 5A** and **5B** for April 2025 and October 2025, respectively. All field parameter results for the 2025 sampling events are provided in **Table 6**.

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The analytical laboratory reports from the April and October 2025 monitoring events are provided in Appendix C. Historical results for monitoring wells MW-301 through MW-314 are summarized in Appendix D.

4.4 §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.

Assessment monitoring for the site was initiated in January 2020 and continued through 2022. An Assessment of Corrective Measures (ACM) was initiated for the SGS CCR Units in January 2022 and completed in June 2022. Assessment monitoring continued during the ACM and continued after the Selection of Remedy was finalized on September 12, 2025. The implementation of the corrective action program began with the April 2026 semiannual monitoring event.

The SOR Report identified Gradient Control as the selected remedy, which meets the criteria established in the CCR Rule. The remedy will control the shallow groundwater gradient by collecting impacted groundwater using pumps and treating the impacted groundwater prior to discharging it according to State and Federal requirements. The remedy also includes groundwater collection and treatment at targeted locations downgradient of the ponds.

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. In 2025, LCL evaluations were completed for lithium, arsenic, cobalt, and molybdenum, which are the only Appendix IV parameters that have been detected at a concentration exceeding the GPS in at least one sample result since assessment monitoring was initiated. The LCLs were calculated with Sanitas™ using historical concentrations measured in the most recent eight events for each compliance well. The LCL evaluations completed for the April and October 2025 events are provided in Appendix E.

Lithium was determined to be an SSL above the GPS in MW-306 and MW-312 for the April and October 2025 events. Lithium results above the GPS were reported for samples from downgradient delineation wells MW-313 in April 2025 and from downgradient delineation wells MW-313 and MW-314 in October 2025. Lithium was not determined to be at an SSL above the GPS at any of the delineation wells.

Arsenic and cobalt exceeded the GPS at compliance monitoring well MW-303 in April 2025. This was the first event where the GPS was exceeded for arsenic or cobalt. These results did not represent an SSL based on the LCL evaluation. The April 2025 results for arsenic and cobalt at MW-303 were anomalously high, exceeding previous results by an order of magnitude. These results were not confirmed during the October 2025 sampling event.

The monitoring results for the April and October 2025 monitoring events were also evaluated for statistically significant increases (SSIs) in detection and assessment monitoring parameters relative to background. The comparison to background was based on a prediction limit or tolerance limit approach, comparing the results to interwell upper prediction limits (UPLs) or upper tolerance limits (UTLs) based on background monitoring results from the upgradient wells (MW-301 and MW-302). In January 2023, the interwell UPLs for Appendix III parameters were updated, and

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interwell UTLs for Appendix IV parameters were calculated using the background data collected through October 2022. The UPLs calculated in January 2023 were applied to the evaluation of the April and October 2025 monitoring results.

The Unified Guidance for Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities (U.S. EPA, 2009; Section 5.3.1) recommends periodic updating of background for both intrawell and interwell analyses. For semiannual monitoring, an update interval of 2 to 3 years is recommended; therefore, the next background update is planned for 2026.

4.5 §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 for the CCR units.

4.5.1 §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 was in the SOR process at the beginning of 2025, with assessment monitoring continuing. The SOR was completed in September 2025, and the corrective action monitoring program was established December 3, 2025.

Summary of Key Actions Completed in 2025.

- Completed statistical evaluation for the October 2024 assessment monitoring event and prepared the October 2024 groundwater monitoring results statistical evaluation and report (February 2025, provided in the 2024 Annual Report).
- Prepared Semiannual Progress Report for the Selection of Remedy (March 2025).
- Completed semiannual groundwater sampling and analysis event (April 2025).
- Obtained permits for installation of pumping test wells and installed wells PW-1, OW-1, and OW-2 (June 2025).
- Held a public meeting for the assessment of corrective measures for the CCR unit (July 10, 2025).
- Developed a Water Well Pollution Prevention Plan for the pumping test to support evaluation, planning, permitting, and design of a full-scale pump and treat system (July 15, 2025).

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- Conducted a full-scale 72-hour aquifer pumping test at PW-1 on July 28 through 31, 2025.
- Prepared April 2025 groundwater monitoring results statistical evaluation and report (August 2025).
- Prepared 2024 Annual Groundwater Monitoring and Corrective Action Report (August 2025).
- Completed semiannual groundwater sampling and analysis event (October 2025).
- Completed a Selection of Remedy Report (September 12, 2025).
- Prepared a Corrective Action Groundwater Monitoring Program (December 3, 2025) consistent with 40 CFR 257.98(a)(1), which supersedes the previous Groundwater Sampling and Analysis Plan, dated December 10, 2021.
- Remedial activities included:
  - Compilation of supplemental groundwater data;
  - Developed the preliminary extraction system plan;
  - Design-basis document preparation;
  - Evaluation of discharge and treatment;
  - updated corrective action schedule;
  - Estimated extraction well spacing and pumping requirements based on aquifer pumping test results and Anaqsim groundwater modeling results.

Description of Any Problems Encountered.

Not applicable. No problems encountered during 2025.

Discussion of Actions to Resolve the Problems.

Not applicable.

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

- Complete statistical evaluation and determination of SSLs exceeding the GPS for the October 2025 monitoring event (completed February 20, 2026, and included in **Appendix E**).
- Complete statistical evaluation and determination of SSLs exceeding the GPS for the April 2026 monitoring event.
- Complete semiannual groundwater sampling and analysis event for April and October 2026.

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- Continue implementation of corrective action design basis for a full-scale groundwater pump and treatment system, including:
  - Draft a design basis report for the pump and treat system;
  - Refine the extraction system plan through refinement of the Anaqsim model;
  - Continue the groundwater treatment system design and discharge plan and permitting;
  - Update the corrective action schedule.

4.5.2 §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. SGS is no longer in detection monitoring.

4.5.3 §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. SGS is no longer in detection monitoring.

4.5.4 §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.

4.5.5 §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, and GPSs established for SGS are provided in **Tables 5A** and **5B**. The laboratory reports are provided in **Appendix C**. Historical monitoring results are summarized in **Appendix D**.

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4.5.6 §257.95(g)(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.

4.5.7 §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 measures 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 in 2025.

5.0 §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.

6.0 REFERENCES

U.S. Department of Agriculture and Soil Conservation Service, 1981, Soil Survey on Marshall County Iowa.

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.

U.S. Environmental Protection Agency, 2015, Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule, April 2015.

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Table 1. Groundwater Monitoring Well Network
Sutherland Generating Station / SCS Engineers Project #25226076.00

Monitoring Well	Location in Monitoring Network	Role in Monitoring Network
MW-301	Upgradient	Background
MW-302	Upgradient	Background
MW-303	Downgradient	Compliance
MW-304	Downgradient	Compliance
MW-305	Downgradient	Compliance
MW-306	Downgradient	Compliance
MW-306A	Downgradient	Delineation
MW-307	Upgradient	Delineation
MW-308	Upgradient	Delineation
MW-309	Downgradient	Delineation
MW-310	Downgradient	Delineation
MW-311	Downgradient	Delineation
MW-312	Downgradient	Compliance
MW-312A	Downgradient	Delineation
MW-313	Downgradient	Delineation
MW-314	Downgradient	Delineation

Last revision by: NLB Date: 5/18/2026
Checked by: LH Date: 5/21/2026

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Table 2. Groundwater Samples Summary
Sutherland Generating Station / SCS Engineers Project #25226076.00

Sample Dates	Background Wells		Compliance Wells					Delineation Wells								
	MW-301	MW-302	MW-303	MW-304	MW-305	MW-306	MW-312	MW-306A	MW-307	MW-308	MW-309	MW-310	MW-311	MW-312A	MW-313	MW-314
4/1-4/2025	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
10/14-17/2025	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Total Samples	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

Abbreviations:
A = Assessment Monitoring Program sampling event
NI = Not Installed

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Checked by: LH Date: 5/21/2026

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Table 3. Groundwater Elevation Summary
Sutherland Generating Station / SCS Engineers Project #25226076.00

Ground Water Elevation in feet above mean sea level (amsl)																
Well Number	**MW-301**	**MW-302**	**MW-303**	**MW-304**	**MW-305**	**MW-306**	**MW-306A**	**MW-307**	**MW-308**	**MW-309**	**MW-310**	**MW-311**	**MW-312**	**MW-312A**	**MW-313**	**MW-314**
Measurement Date																
November 29, 2017	853.76	853.81	851.98	851.74	851.68	851.36	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
March 26-27, 2018	855.23	855.97	854.35	853.79	853.64	853.49	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
May 23, 2018	855.45	855.32	854.07	853.92	853.99	854.11	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
June 26, 2018	856.24	856.55	854.97	854.64	854.55	854.57	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
July 26, 2018	855.96	855.75	854.14	853.86	854.00	853.94	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
September 11, 2018	857.41	857.06	855.96	855.66	855.94	856.48	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
November 28, 2018	856.99	856.74	855.01	854.79	854.87	854.91	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
January 9, 2019	856.85	856.82	855.11	854.93	854.94	854.94	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
February 12, 2019	856.59	856.43	854.58	854.41	854.56	854.75	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
April 2, 2019	857.33	857.12	855.60	855.47	855.67	855.96	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
October 16, 2019	856.15	855.30	854.90	854.78	854.99	852.16	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
December 11-12, 2019	857.05	856.11	854.47	854.29	854.33	854.39	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
February 3, 2020	856.24	856.59	854.57	854.35	854.28	854.14	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
April 7, 2020	856.16	856.23	854.63	854.54	854.64	854.70	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
May 11, 2020	NM	NM	NM	NM	853.78	853.71	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
October 13, 2020	854.44	854.38	851.70	851.30	851.32	851.13	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
February 24, 2021	NM	NM	NM	NM	NM	850.56	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
April 6, 2021	854.38	854.85	853.21	853.15	853.02	852.79	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
July 14, 2021	NM	NM	NM	NM	NM	850.67	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
October 26, 2021	852.42	852.68	850.54	850.13	850.12	850.00	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
December 9, 2021	NM	NM	NM	NM	NM	NM	NI	851.56	851.87	NI	NI	NI	NI	NI	NI	NI
April 21-22, 2022	853.87	855.04	852.35	851.97	851.91	851.82	NI	852.76	853.08	NI	NI	NI	NI	NI	NI	NI
May 12, 2022	NM	NM	NM	NM	NM	NM	NI	NM	NM	853.95	853.71	853.56	NI	NI	NI	NI
May 24, 2022	854.22	854.38	853.09	852.98	853.00	853.03	NI	853.83	854.02	851.92	851.94	851.91	NI	NI	NI	NI
August 11, 2022	853.41	853.25	851.39	851.03	851.02	850.92	NI	852.17	852.52	849.47	849.49	849.46	NI	NI	NI	NI
October 10, 2022	851.98	851.94	849.96	849.70	849.73	849.62	NI	850.79	851.18	848.44	848.31	848.21	NI	NI	NI	NI
March 1, 2023	NM	NM	NM	NM	NM	NM	854.26	NM	NM	NM	NM	NM	853.63	NI	854.69	854.20
April 10-13, 2023	854.20	854.63	853.34	853.27	853.13	853.01	853.37	853.97	852.53	851.58	851.70	851.72	853.47	NI	853.15	852.77
October 18-20, 2023	851.34	851.44	849.47	849.24	849.27	849.22	849.60	850.32	850.64	848.35	848.13	847.99	849.64	NI	849.41	849.05
April 9-11, 2024	851.89	852.19	850.73	850.53	850.48	850.41	850.79	851.37	851.63	849.58	849.52	849.44	850.82	850.85	850.65	850.35
October 14-17, 2024	852.94	853.15	850.96	850.68	850.57	850.25	850.66	851.63	852.11	848.67	848.71	848.72	850.81	850.78	850.34	849.91
April 1-4, 2025	853.28	853.85	852.44	852.19	852.07	852.02	852.41	852.95	853.23	851.06	851.07	851.02	852.48	852.47	852.14	851.84
October 14-17, 2025	855.23	855.19	852.62	852.38	852.19	852.13	852.32	853.52	854.01	850.30	850.35	850.49	852.58	852.57	851.98	851.59

Notes:
NM = not measured
NI = not installed

Created by: RM Date: 4/18/2024
Last revision by: LH Date: 11/3/2025
Checked by: RM Date: 11/4/2025

#REF!

08/27/2026 - Classification: Internal - ECRM13799659

Table 4A. Horizontal Gradients and Flow Velocity
Sutherland Generating Station
SCS Engineers Project #25225076.00
January - December 2025

	East				
Sampling Dates	**h1 (ft)**	**h2 (ft)**	**Δl (ft)**	**Δh/Δl (ft/ft)**	**V (ft/d)**
4/1-4/2025	853.00	851.50	1,666	0.001	0.2
10/14-17, 2025	853.50	851.50	1,456	0.001	0.3

Well	**K Value (cm/sec)**	**K Value (ft/d)**
MW-301	6.5E-02	184
MW-302	4.0E-02	113
MW-303	1.7E-02	48
MW-304	1.2E-02	34
MW-305	3.9E-02	111
MW-306	2.6E-02	75
Geometric Mean	2.2E-02	61

Note: Geometric Mean calculation does not include the upgradient wells

Assumed Porosity, n
0.25

Groundwater flow velocity equation: V = [K*(Δh/Δl)] / n

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

Notes:

1. Hydraulic conductivity (K) is the geometric mean of the slug test results for water table monitoring wells MW-303 to MW-306. Wells MW-301 and MW-302 were excluded because they are upgradient wells.

2. Effective porosity value is the low end of the range of porosity values for sand in Freeze and Cherry, *Groundwater* , 1979, Table 2.4. The lithology at the screened interval for MW-303 through MW-306 is primarily poorly graded sand, silty sand and some clay.

3. Flow paths for horizontal groundwater velocity calculation shown on Figures 3 and 4.

Last revision by: NLB Date: 5/18/2026
Checked by: LH Date: 5/21/2026

I:\25226076.00\Deliverables - Working\2025 - Annual CCR Report\Tables\[Table 4A - Horizontal Gradients and Flow Velocity Table_2025.xlsx]Table 4A

08/27/2026 - Classification: Internal - ECRM13799659

Table 4B. Summary of Vertical Hydraulic Gradients
Sutherland Generating Station / SCS Engineers Project #25226076.00

				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-306	WT	852.4	842.4	852.02	847.2	-0.39	25.5	-0.0153	852.13	847.3	-0.19	25.63	-0.0074
MW-306A	P	829.0	824.0	852.41	826.5				852.32	826.5			
MW-312	WT	851.6	841.6	852.48	846.6	0.01	26.38	0.0004	852.58	846.6	0.01	26.48	0.0004
MW-312A	P	828.6	823.6	852.47	826.1				852.57	826.1			
							Average	-0.0075				Average	-0.0035

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 piezometers or 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.
[2] Delta h is the difference between water table elevation and potentiometric surface elevation.
[3] Delta L is the difference between the reference point elevations for the two wells.

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: 5/18/2026
Checked by: LH Date: 5/21/2026

I:\25226076.00\Deliverables - Working\2025 - Annual CCR Report\Tables\[Table 4B_Vertical Hydraulic Gradients_2025.xlsx]GW Field Data

08/27/2026 - Classification: Internal - ECRM13799659

Table 5A. Groundwater Analytical Results - Assessment Monitoring April 2025
Sutherland Generating Station / SCS Engineers Project #25226076.00

Parameter Name	UPL Method	UPL	GPS	Background Wells		Compliance Wells					Delineation Wells								
				MW-301	MW-302	MW-303	MW-304	MW-305	MW-306	MW-312	MW-306A	MW-307	MW-308	MW-309	MW-310	MW-311	MW-312A	MW-313	MW-314
				4/2/2025	4/4/2025	4/3/2025	4/2/2025	4/2/2025	4/3/2025	4/3/2025	4/3/2025	4/2/2025	4/4/2025	4/2/2025	4/2/2025	4/2/2025	4/3/2025	4/1/2025	4/1/2025
Groundwater Elevation, ft amsl				853.28	853.85	852.44	852.19	852.07	852.02	852.48	852.41	852.95	853.23	851.06	851.07	851.02	852.47	852.14	851.84
Appendix III																			
Boron, µg/L	P	278		<82	<82	300	500	710	3100	1000	--	--	--	--	--	--	--	--	--
Calcium, mg/L	P	95.4		37	66	89	110	110	130	110	130	--	--	100	130	120	120	110	130
Chloride, mg/L	P	90.9		3.6 J	5.2	2.4 J	9.8	18	19	18	--	--	--	--	--	--	--	--	--
Fluoride, mg/L	NP	0.60		<0.38	<0.38	0.41 J	0.40 J	<0.38	0.51 J	0.49 J	--	--	--	--	--	--	--	--	--
Field pH, Std. Units	P	7.67		6.28	7.20	6.95	6.64	7.01	7.80	7.72	7.54	6.57	6.44	7.29	7.06	7.13	7.52	7.26	7.32
Sulfate, mg/L	P	150		11	30	170	330	290	380	210	--	--	--	--	--	--	--	--	--
Total Dissolved Solids, mg/L	P	483		130	290	450	640	620	750	590	--	--	--	--	--	--	--	--	--
Appendix IV	**UTL Method**	**UTL**																	
Antimony, µg/L	P	1.48	6	<1.0	1.1 J	1.5 J	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	--	--	--
Arsenic, µg/L	NP	21	21	<0.53	3.8	40	<0.53	4.7	4.2	1.2 J	--	--	--	--	--	--	--	--	--
Barium, µg/L	P	275	2,000	22	100	320	22	47	64	44	--	--	--	--	--	--	--	--	--
Beryllium, µg/L	NP	0.48	4	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	--	--	--	--	--	--	--	--	--
Cadmium, µg/L	NP	0.28	5	<0.10	<0.10	1.9	<0.10	0.18 J	<0.10	<0.10	--	--	--	--	--	--	--	--	--
Chromium, µg/L	NP	3.5	100	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	--	--	--	--	--	--	--	--	--
Cobalt, µg/L	P	17.3	17.3	<0.17	1.8	27	<0.17	0.55	0.39 J	0.86	--	--	--	--	--	--	--	--	--
Fluoride, mg/L	NP	0.600	4	<0.38	<0.38	0.41 J	0.40 J	<0.38	0.51 J	0.49 J	--	--	--	--	--	--	--	--	--
Lead, µg/L	NP	2.5	15	0.53 B	0.48 J,B	2.3 B	0.43 J,B	0.39 J,B	0.45 J,B	0.36 J,B	--	--	--	--	--	--	--	--	--
Lithium, µg/L	NP	12.6	40	4.5 J	3.5 J	21	<2.9	24	53	53	33	16	17	23	13	25	28	54	39
Mercury, µg/L	DQ	DQ	2	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	--	--	--	--	--	--	--	--	--
Molybdenum, µg/L	NP	13.6	100	<1.3	<1.3	16	<1.3	22	83	30	--	--	--	--	--	--	--	--	--
Selenium, µg/L	NP	22.0	50	1.5 J	<1.4	3.7 J	<1.4	1.7 J	<1.4	<1.4	--	--	--	--	--	--	--	--	--
Thallium, µg/L	NP	0.43	2	<0.57 F1	0.60 J	<0.57	<0.57	<0.57	<0.57	<0.57	--	--	--	--	--	--	--	--	--
Radium 226/228 Combined, pCi/L	P	3.36	5	0.474	6.73	2.16	0.518	0.276	0.770	0.211	--	--	--	--	--	--	--	--	--
Additional Parameters - Selection of Remedy																			
Iron, µg/L	UPL or GPS not applicable			52 J	400	49000	68 J	<50	170	<50	500	390	2400	79 J	91 J	<50	870	170	86 J
Magnesium, µg/L				--	--	--	--	--	--	24000	13,000	--	--	34,000	48,000	31,000	22,000	23,000	33,000
Manganese, µg/L				--	--	--	--	--	--	1100	540	--	--	25	36	9.0 J	580	1,900	510
Potassium, µg/L				--	--	--	--	--	--	7500	7,100	--	--	4,200	1,800	3,700	6,600	5,900	5,200
Sodium, µg/L				--	--	--	--	--	--	24000	18,000	--	--	34,000	38,000	36,000	22,000	23,000	29,000
Total Alkalinity, mg/L				--	--	--	--	--	--	--	300	--	--	230	230	260	280	220	240
Carbonate Alkalinity, mg/L				--	--	--	--	--	--	--	<2.5	--	--	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Bicarbonate Alkalinity, mg/L				--	--	--	--	--	--	--	300	--	--	230	230	260	280	220	240

Blue shaded cell indicates the compliance well result exceeds the UPL and the LOQ.
Yellow shaded cell indicates the compliance well result exceeds the GPS.
Grayscale indicates additional parameters sampled for selection of remedy and evaluation of monitored natural attenuation.

Abbreviations:
UPL = Upper Prediction Limit
UTL = Upper Tolerance Limit
µg/L = micrograms per Liter
mg/L = milligrams per Liter
ft amsl = feet above mean sea level
P = Parametric UPL with 1-of-2 retesting
NP= Nonparametric UPL with 1-of-2 retesting
DQ= Double Quantitation (not detected in background)
Std. Units = Standard Units
pCi/L - Picocuries per Liter
LOD = Limit of Detection
LOQ = Limit of Quantitation
GPS = Groundwater Protection Standard
-- = Not Analyzed

Lab Notes/Qualifiers:
J = Result is less than the reporting limit but greater than limits or equal to the method detection limit and the concentration is an approximate value.
B = Compound was found in the blank and sample.
F1 = MS and/or MSD recovery exceeds control limits.

Created by: RM Date: 11/22/2023
Last revision by: EMS Date: 5/9/2025
Checked by: RM Date: 5/12/2025

Notes:
1. An individual result above the UPL or GPS does not constitute a statistically significant increase (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 (USEPA) Maximum Contamination Level (MCL), if established; otherwise, the values from 40 CFR 257.95(h)(2).
3. Interwell UPLs and UTLs calculated based on results from background wells MW-301 and MW-302.
4. For compliance wells, only results confirmed above the LOQ are evaluated as potential SSIs above background or statistically significant level above GPS.

Table 5B. Groundwater Analytical Results - Assessment Monitoring October 2025
Sutherland Generating Station / SCS Engineers Project #25226076.00

Parameter Name	UPL Method	UPL	GPS	Background Wells		Compliance Wells					Delineation Wells								
				MW-301	MW-302	MW-303	MW-304	MW-305	MW-306	MW-312	MW-306A	MW-307	MW-308	MW-309	MW-310	MW-311	MW-312A	MW-313	MW-314
				10/17/2025	10/17/2025	10/17/2025	10/16/2025	10/16/2025	10/14/2025	10/15/2025	10/15/2025	10/15/2025	10/16/2025	10/17/2025	10/17/2025	10/17/2025	10/15/2025	10/16/2025	10/16/2025
Groundwater Elevation, ft amsl				855.23	855.19	852.62	852.38	852.19	852.13	852.58	852.32	853.52	854.01	850.30	850.35	850.49	852.57	851.98	851.59
Appendix III																			
Boron, µg/L	P	278		110	<82	470	830	960	3000	1100	--	--	--	--	--	--	--	--	--
Calcium, mg/L	P	95.4		72	53	100	110	110	150	110	140	--	--	98	120	120	130	140	120
Chloride, mg/L	P	90.9		42.0	3.7 J	19	11	29	17	20	--	--	--	--	--	--	--	--	--
Fluoride, mg/L	NP	0.60		<0.38	<0.38	0.41 J	1.5	0.90 J	0.44 J	0.61 J	--	--	--	--	--	--	--	--	--
Field pH, Std. Units	P	7.67		6.60	7.38	7.40	6.90	7.78	7.52	7.55	7.41	6.44	6.94	7.43	7.33	6.82	7.42	7.15	7.35
Sulfate, mg/L	P	150		29	20	150	230	270	330	230	--	--	--	--	--	--	--	--	--
Total Dissolved Solids, mg/L	P	483		310	220	490	540	650	720	550	--	--	--	--	--	--	--	--	--
Appendix IV	**UTL Method**	**UTL**																	
Antimony, µg/L	P	1.48	6	<1.0	1.2 J	1.5 J	1.3 J	1.6 J	<1.0	<1.0	--	--	--	--	--	--	--	--	--
Arsenic, µg/L	NP	21	21	<0.53	3.4	2.1	0.53 J	9.9	5.8	1.3 J	--	--	--	--	--	--	--	--	--
Barium, µg/L	P	275	2,000	38	81	59	21	46	64	48	--	--	--	--	--	--	--	--	--
Beryllium, µg/L	NP	0.48	4	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	--	--	--	--	--	--	--	--	--
Cadmium, µg/L	NP	0.28	5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	--	--	--	--	--	--	--	--	--
Chromium, µg/L	NP	3.5	100	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	--	--	--	--	--	--	--	--	--
Cobalt, µg/L	P	17.3	17.3	<0.17	1.1	0.64	<0.17	0.65	0.38 J	0.81	--	--	--	--	--	--	--	--	--
Fluoride, mg/L	NP	0.600	4	<0.38	<0.38	0.41 J	1.5	0.90 J	0.44 J	0.61 J	--	--	--	--	--	--	--	--	--
Lead, µg/L	NP	2.5	15	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	--	--	--	--	--	--	--	--	--
Lithium, µg/L	NP	12.6	40	4.6 J	3.4 J	23	3.5 J	41	99	58	38	21	14	22	21	32	31	43	49
Mercury, µg/L	DQ	DQ	2	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	--	--	--	--	--	--	--	--	--
Molybdenum, µg/L	NP	13.6	100	1.3 J	<1.3	18	1.3 J	39	77	28	--	--	--	--	--	--	--	--	--
Selenium, µg/L	NP	22.0	50	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	--	--	--	--	--	--	--	--	--
Thallium, µg/L	NP	0.43	2	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	--	--	--	--	--	--	--	--	--
Radium 226/228 Combined, pCi/L	P	3.36	5	0.867	0.501	0.895	0.566	1.26	1.11	0.411 G	--	--	--	--	--	--	--	--	--
Additional Parameters - Selection of Remedy																			
Iron, µg/L	UPL or GPS not applicable			67 J	320	360	<50	150	57 J	<50	650	590	430	1300	110	90 J	950	610	400
Magnesium, µg/L				--	--	--	--	--	--	27000	17,000	--	--	32,000	42,000	29,000	27,000	37,000	29,000
Manganese, µg/L				--	--	--	--	--	--	1300	650	--	--	220	220	180.0	660	3,700	580
Potassium, µg/L				--	--	--	--	--	--	7400	7,000	--	--	3,500	4,100	4,200	6,400	5,700	5,700
Sodium, µg/L				--	--	--	--	--	--	23000	19,000	--	--	32,000	40,000	35,000	25,000	26,000	25,000
Total Alkalinity, mg/L				--	--	--	--	--	--	210	280	--	--	210	220	260	280	330	240
Carbonate Alkalinity, mg/L				--	--	--	--	--	--	<2.5	<2.5	--	--	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Bicarbonate Alkalinity, mg/L				--	--	--	--	--	--	210	280	--	--	210	220	260	280	330	240

Blue shaded cell indicates the compliance well result exceeds the UPL and the LOQ.
Yellow shaded cell indicates the compliance well result exceeds the GPS.
Grayscale indicates additional parameters sampled for selection of remedy and evaluation of monitored natural attenuation.

Abbreviations:
UPL = Upper Prediction Limit
UTL = Upper Tolerance Limit
µg/L = micrograms per Liter
mg/L = milligrams per Liter
ft amsl = feet above mean sea level
P = Parametric UPL with 1-of-2 retesting
NP= Nonparametric UPL with 1-of-2 retesting
DQ= Double Quantitation (not detected in background)
Std. Units = Standard Units
pCi/L - Picocuries per Liter
LOD = Limit of Detection
LOQ = Limit of Quantitation
GPS = Groundwater Protection Standard
-- = Not Analyzed

Lab Notes/Qualifiers:
J = Result is less than the reporting limit but greater than limits or equal to the method detection limit and the concentration is an approximate value.
G = The sample Minimum Detectable Concentration (MDC) is greater than the requested Reporting Limit (RL).

Notes:
1. An individual result above the UPL or GPS does not constitute a statistically significant increase (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 (USEPA) Maximum Contamination Level (MCL), if established; otherwise, the values from 40 CFR 257.95(h)(2).
3. Interwell UPLs and UTLs calculated based on results from background wells MW-301 and MW-302.
4. For compliance wells, only results confirmed above the LOQ are evaluated as potential SSIs above background or statistically significant level above GPS.

Created by: RM Date: 11/22/2023
Last revision by: RM Date: 11/25/2025
Checked by: BLJ Date: 12/19/2025

Table 6. 2025 Groundwater Field Data Summary
Sutherland Generating Station / SCS Engineers Project #25226076.00
January - December 2025

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	4/2/2025	853.28	10.8	6.28	1.60	272.5	441.8	19.47
	10/17/2025	855.23	20.7	6.60	0.82	585	227.9	6.00
MW-302	4/4/2025	853.85	8.4	7.20	0.01	521	370.7	6.29
	10/17/2025	855.19	13.5	7.38	0.17	403	236.1	8.94
MW-303	4/3/2025	852.44	8.4	6.95	0.01	667	418.6	18.65
	10/17/2025	852.62	13.7	7.4	0.22	764	178.1	3.27
MW-304	4/2/2025	852.19	12.3	6.64	2.51	961	453.3	3.11
	10/16/2025	852.38	15.1	6.9	0.28	850	188.7	2.39
MW-305	4/2/2025	852.07	11.8	7.01	0.59	976	445.4	3.75
	10/16/2025	852.19	14.8	7.78	0.25	944	216.9	3.22
MW-306	4/3/2025	852.02	10.4	7.80	0.13	991	380.9	5.30
	10/14/2025	852.13	14.2	7.52	0.10	1,005	-28.2	2.01
MW-306A	4/3/2025	852.41	11.3	7.54	0.14	838	263.0	4.12
	10/15/2025	852.32	13.6	7.41	0.13	849	-94.4	3.99
MW-307	4/2/2025	852.95	9.9	6.57	0.19	1,303	440.9	4.10
	10/15/2025	853.52	14.6	6.44	0.16	1,133	105.1	11.99
MW-308	4/4/2025	853.23	7.8	6.44	-0.21	1,650	414.7	30.01
	10/16/2025	854.01	14.0	6.94	0.11	880	202.4	2.41
MW-309	4/2/2025	851.06	9.4	7.29	0.73	896	419.8	4.64
	10/17/2025	850.30	11.5	7.43	1.06	778	226.1	32.31
MW-310	4/2/2025	851.07	9.7	7.06	0.22	1,117	417.5	4.81
	10/17/2025	850.35	12.7	7.33	0.14	947	216.3	4.11
MW-311	4/2/2025	851.02	8.8	7.13	0.14	969	426.1	2.54
	10/17/2025	850.49	16.2	6.82	0.24	862	244.7	5.36
MW-312	4/3/2025	852.48	9.9	7.72	0.07	863	381.4	6.78
	10/15/2025	852.58	15.2	7.55	0.12	824	8.6	3.94
MW-312A	4/3/2025	852.47	11.2	7.52	0.25	937	130.8	4.12
	10/15/2025	852.57	14.7	7.42	0.12	889	-107.2	3.91
MW-313	4/1/2025	852.14	9.3	7.26	0.18	846	298.8	3.44
	10/16/2025	851.98	13.9	7.15	0.14	1,004	199.2	10.62
MW-314	4/1/2025	851.84	7.5	7.32	1.98	907	402.4	5.89
	10/16/2025	851.59	14.0	7.35	0.29	870	198.7	12.27

Last revision by: NLB Date: 2/23/2026
Checked by: LH Date: 3/2/2026

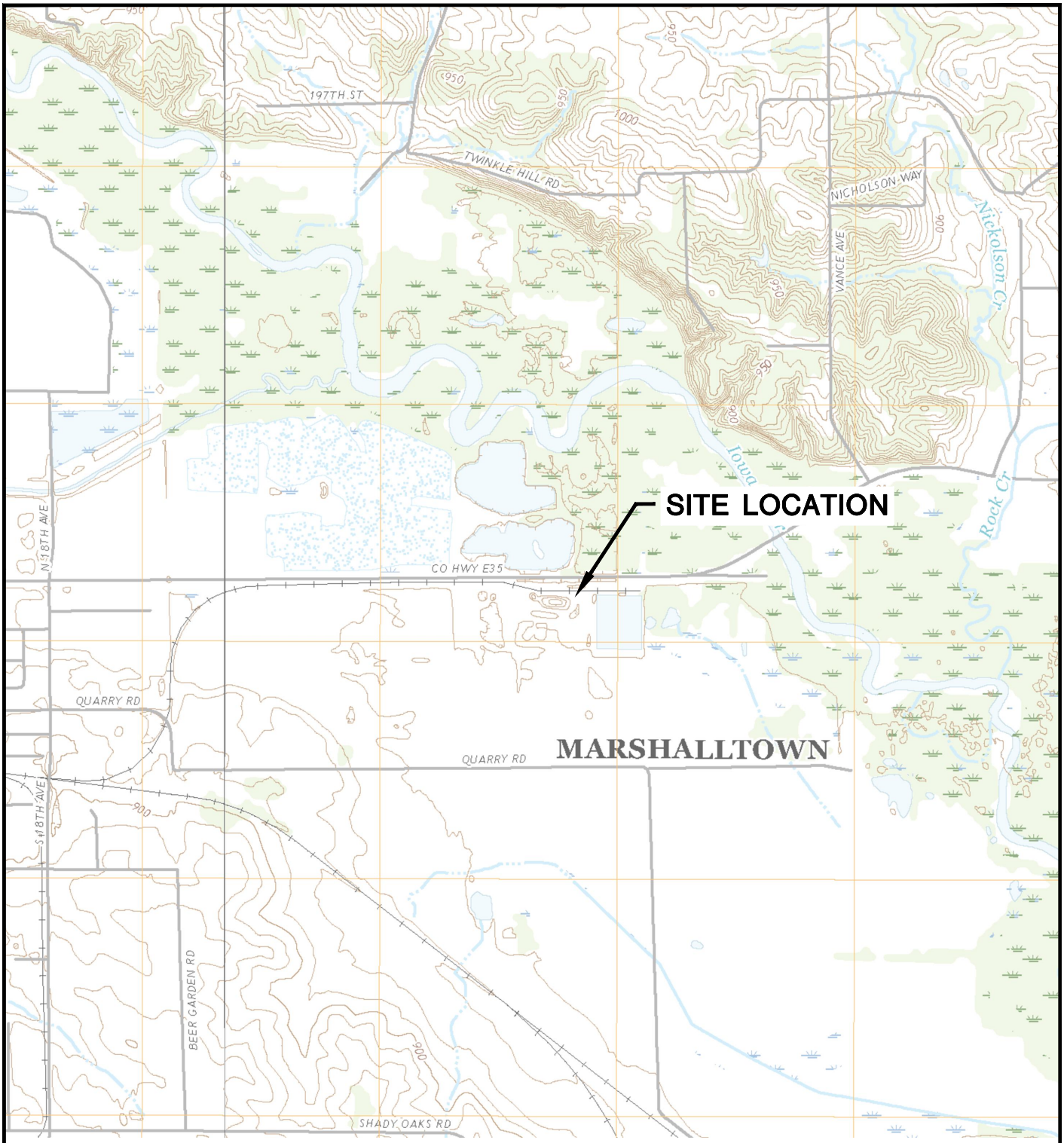
I:\25226076.00\Deliverables - Working\2025 - Annual CCR Report\Tables\[Table 6 - Field Parameters Summary Table.xlsx]Field Data Summary

08/27/2026 - Classification: Internal - ECRM13799659

Figures

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

08/27/2026 - Classification: Internal - ECRM13799659



N

LE GRAND QUADRANGLE
IOWA–MARSHALL COUNTY
7.5 MINUTE SERIES (TOPOGRAPHIC)
2018
SCALE: 1" = 2,000'



CLIENT	ALLIANT ENERGY 4902 N. BILTMORE LANE, #1000 MADISON, WI 53718	SITE	ALLIANT ENERGY SUTHERLAND GENERATING STATION MARSHALLTOWN, IOWA

SITE LOCATION MAP

PROJECT NO.	25222076.00	DRAWN BY:	BSS
DRAWN:	11/15/2019	CHECKED BY:	MDB
REVISED:	01/14/2020	APPROVED BY:	TK 3/20/2022

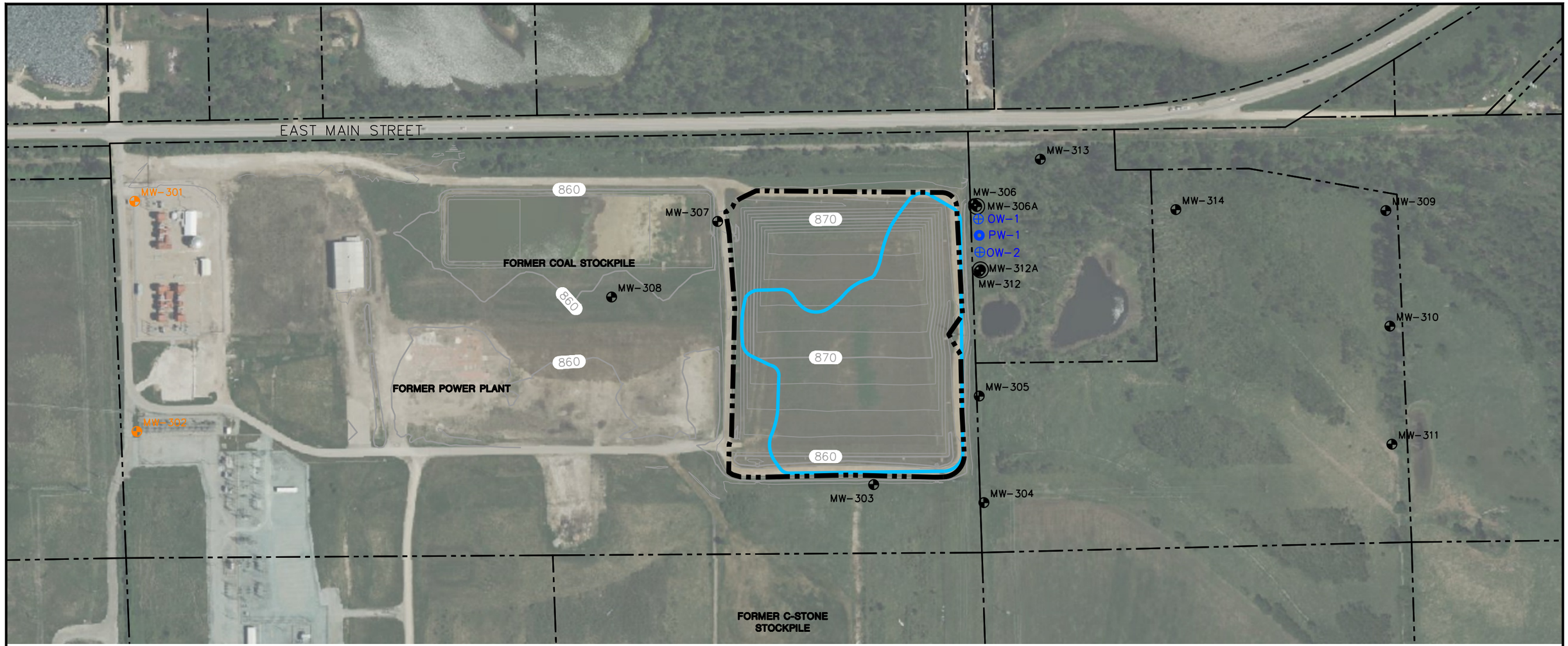
ENGINEER

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

FIGURE
1

I:\25222076.00\Drawings\Site Location Map.dwg, 2/17/2022 4:49:10 PM

08/27/2026 - Classification: Internal - ECRM13799659



LEGEND

- MAJOR EXISTING CONTOUR (10FT INTERVAL)
- MINOR EXISTING CONTOUR (2FT INTERVAL)
- FINAL CLOSURE AREA LIMITS (LIMITS OF ASH DISPOSAL)
- CCR UNITS
- APPROXIMATE PROPERTY LINE
- CCR MONITORING WELL
- CCR BACKGROUND WELL
- DEEP PIEZOMETER WELL
- PUMPING WELL
- OBSERVATION WELL

NOTES:

1. WELL LOCATIONS ARE APPROXIMATE.
2. AERIAL PHOTOGRAPH IMPORTED FROM BING MAPS USING AUTOCAD GEOLOCATION MAP TOOL.
3. PROPERTY LINES FROM MARSHALL COUNTY, IOWA ARC GIS PARCEL MAP SERVER. LOCATIONS ARE APPROXIMATE.
4. COORDINATE SYSTEM IS NAD83 IOWA STATE PLANE, NORTH ZONE, US SURVEY FEET.
5. CONTOURS WITHIN FINAL COVER LIMITS REPRESENT AS-BUILT TOP OF FINAL COVER GRADES. CONTOURS WITHIN COAL YARD REPRESENT AS-BUILT TOP OF RESTORATION GRADE (FINAL GRADES).
6. WELL INSTALLATION AND SUMMARY SURVEY:
   - 6.1. MONITORING WELLS MW-301, MW-302, MW-303, MW-304, MW-305 AND MW-306 WERE INSTALLED BY DIRECT PUSH ANALYTICAL OF ST CHARLES, IL ON NOVEMBER 20-21, 2017, AND SURVEYED BY CLAPSADDLE-GARBER ASSOCIATES, INC. OF MARSHALLTOWN, IA ON NOVEMBER 17, 2016.
   - 6.2. MONITORING WELLS MW-307 AND MW-308 WERE INSTALLED BY TERRACON, INC. ON NOVEMBER 30, 2021, AND WERE SURVEYED BY CLAPSADDLE-GARBER ASSOCIATES, INC. OF AMES, IA ON DECEMBER 23, 2021.
   - 6.3. MONITORING WELLS MW-309, MW-310, AND MW-311 WERE INSTALLED BY DIRECT PUSH ANALYTICAL ON MAY 4, 2022, AND WERE SURVEYED BY CLAPSADDLE-GARBER ASSOCIATES, INC. OF MARSHALLTOWN, IA ON MAY 24, 2022.
   - 6.4. MONITORING WELLS MW-306A, MW-312, MW-313 AND MW-314 WERE INSTALLED BY DIRECT PUSH ANALYTICAL ON FEBRUARY 28, 2023, THROUGH MARCH 1, 2023, AND WERE SURVEYED BY CLAPSADDLE-GARBER ASSOCIATES, INC. OF AMES, IA ON MARCH 13, 2023.
   - 6.5. MONITORING WELL MW-312A WAS INSTALLED BY IMPACT 7G, INC. ON DECEMBER 27, 2023, AND WAS SURVEYED BY CLAPSADDLE-GARBER ASSOCIATES, INC. OF MARSHALLTOWN, IA.

N

300 0 300

SCALE: 1" = 300'

PROJECT NO.	25226076.00	DRAWN BY:	SB
DRAWN:	06/02/2025	CHECKED BY:	NLB (07/30/2026)
REVISED:	07/30/2026	APPROVED BY:	TK (07/30/2026)

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

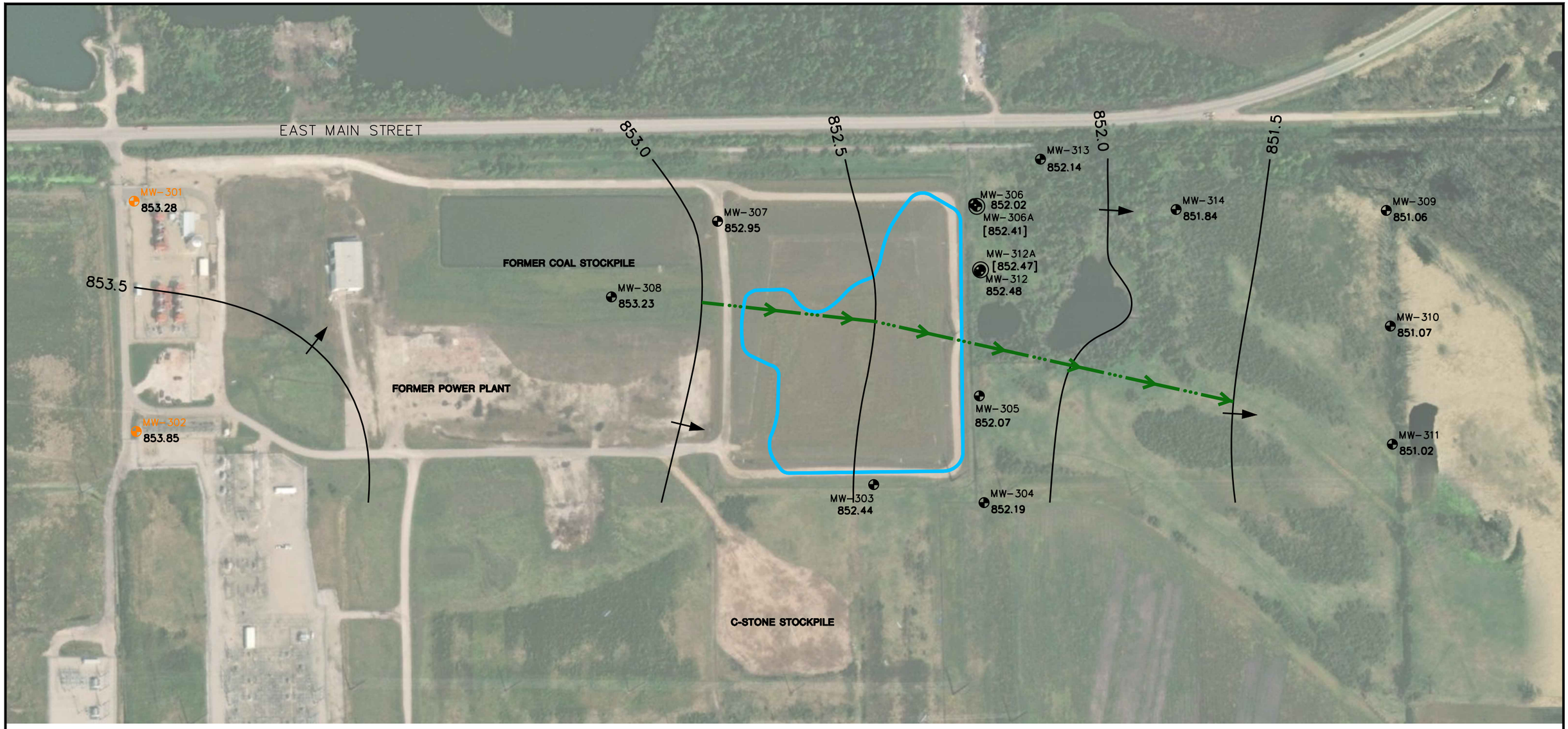
SITE: ALLIANT ENERGY
SUTHERLAND GENERATING STATION
MARSHALLTOWN, IOWA

SITE PLAN AND MONITORING WELL LOCATIONS

FIGURE 2

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08/27/2026 - Classification: Internal - ECRM13799659



LEGEND

- CCR MONITORING WELL
- CCR BACKGROUND MONITORING WELL
- CCR UNITS
- **852.94** WATER TABLE ELEVATION AT WELL (APRIL 2025)
- **[850.66]** ELEVATION NOT USED FOR WATER TABLE INTERPRETATION (APRIL 2025)
- WATER TABLE CONTOUR LINE (0.5-FOOT CONTOUR INTERVAL) (DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- FLOW PATH TO VELOCITY CALCULATION (SEE TABLE 4)

NOTES:

1. SEE FIGURE 2 FOR BASE MAP NOTES.
2. THE BACKGROUND MONITORING WELLS FOR THE SUTHERLAND GENERATING STATION ARE MW-301 AND MW-302.
3. WATER TABLE CONTOURS ARE ESTIMATED BASED ON DATA OBTAINED ON APRIL 1-4, 2025.
4. BACKGROUND AERIAL IMAGE FROM ESRI DATED SEPTEMBER 2020.

N

300 0 300

SCALE: 1" = 300'

PROJECT NO.	25226076.00	DRAWN BY:	KP/RVG
DRAWN:	04/24/2025	CHECKED BY:	NLB 05/18/2026
REVISED:	05/18/2026	APPROVED BY:	TK 07/09/2026

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

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

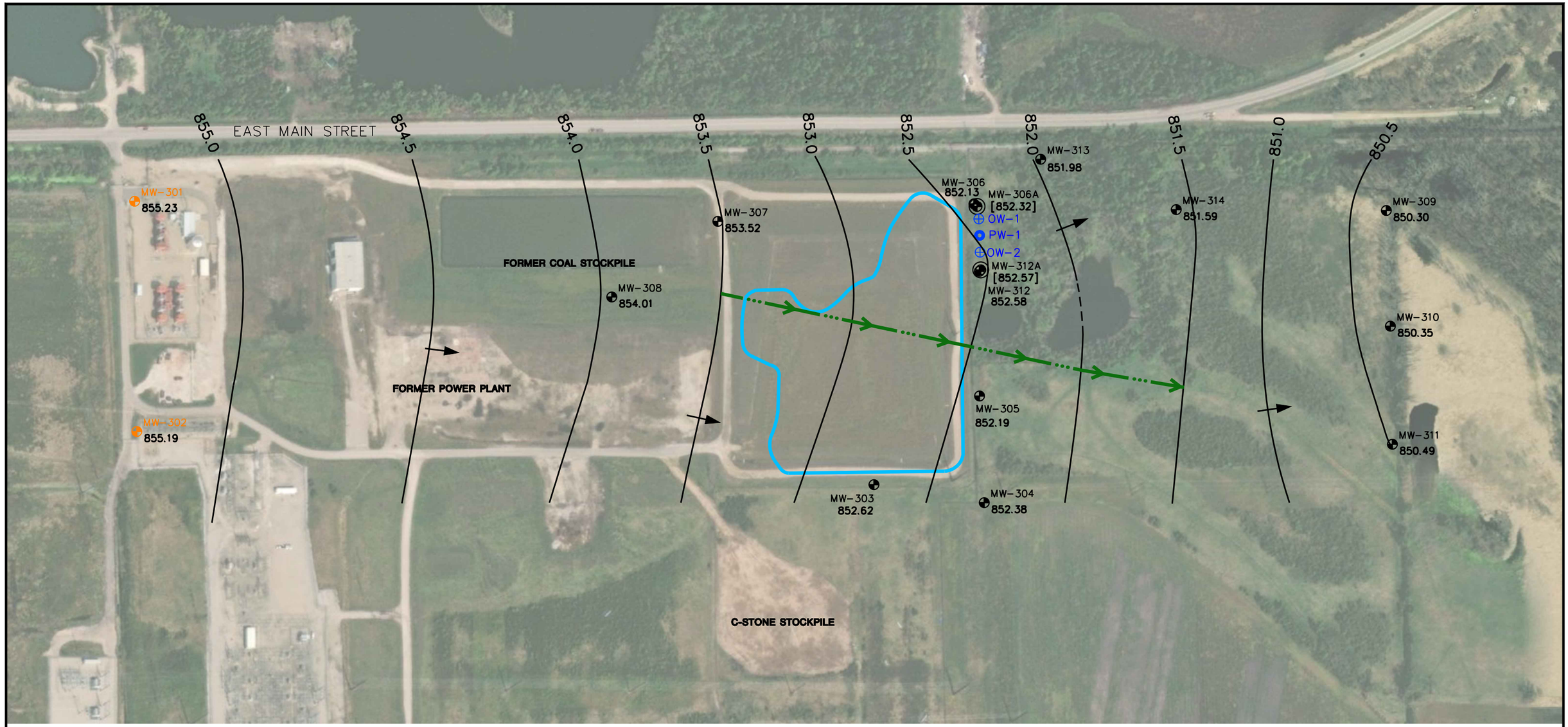
SITE: ALLIANT ENERGY
SUTHERLAND GENERATING STATION
MARSHALLTOWN, IOWA

WATER TABLE CONTOUR MAP
APRIL 2025

FIGURE 3

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08/27/2026 - Classification: Internal - ECRM13799659



LEGEND

- CCR MONITORING WELL
- CCR BACKGROUND MONITORING WELL
- PUMPING WELL
- OBSERVATION WELL
- CCR UNITS
- **852.94** WATER TABLE ELEVATION AT WELL (OCTOBER 2025)
- **[850.66]** ELEVATION NOT USED FOR WATER TABLE INTERPRETATION (OCTOBER 2025)
- WATER TABLE CONTOUR LINE (0.5-FOOT CONTOUR INTERVAL) (DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- FLOW PATH TO VELOCITY CALCULATION (SEE TABLE 4)

NOTES:

1. SEE FIGURE 2 FOR BASE MAP NOTES.
2. THE BACKGROUND MONITORING WELLS FOR THE SUTHERLAND GENERATING STATION ARE MW-301 AND MW-302.
3. WATER TABLE CONTOURS ARE ESTIMATED BASED ON DATA OBTAINED ON OCTOBER 14-17, 2025.
4. BACKGROUND AERIAL IMAGE FROM ESRI DATED SEPTEMBER 2020.

N

300 0 300

SCALE: 1" = 300'

PROJECT NO.	25226076.00	DRAWN BY:	RVG
DRAWN:	11/05/2025	CHECKED BY:	NLB (07/30/2026)
REVISED:	07/30/2026	APPROVED BY:	TK (07/30/2026)

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

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

SITE: ALLIANT ENERGY
SUTHERLAND GENERATING STATION
MARSHALLTOWN, IOWA

WATER TABLE CONTOUR MAP
OCTOBER 2025

FIGURE 4

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08/27/2026 - Classification: Internal - ECRM13799659

Appendix A

Summary of Regional Hydrogeologic Stratigraphy

08/27/2026 - Classification: Internal - ECRM13799659

The aquifers and rocks in central Iowa

Aquifers	General thickness (feet)	Age of rocks	Name of rock units	General description of rock units
Surficial Alluvial Buried-channel Drift	0-380	Quaternary (0-1 million years old)	Undifferentiated	Primarily alluvium and drift composed of gravel, sand, silt, and clay
	0-900	Cretaceous (63-135 million years old)	Undifferentiated	Shale, limestone, and sandstone; in Webster County only
	0-550	Permian(?) (230-280 million years old)	Fort Dodge beds	Gypsum and shales; in Webster County only
		Pennsylvanian (280-310 million years old)	Undifferentiated	Shale, sandstone, thin limestones, and coal
Upper bedrock	0-475	Mississippian (310-345 million years old)	Ste. Genevieve St. Louis Warsaw Keokuk Burlington Gilmore City Hampton	Shale and limestone Limestone, sandy Shale and dolomite Dolomite and limestone Dolomite and limestone Limestone Limestone and dolomite
	5-200		McCraney English River Maple Mill Aplington Sheffield	Limestone Siltstone Shale Dolomite Shale
Middle bedrock	400-750	Devonian (345-405 million years old)	Lime Creek Cedar Valley Wapsipinicon	Dolomite and shale Limestone and dolomite Limestone, dolomite, and shale
	330-700	Silurian (405-425 million years old)	Undifferentiated	Dolomite and sandy dolomite
		Ordovician (425-500 million years old)	Maquoketa Galena Decorah Platteville	Dolomite and shale Dolomite and chert Limestone and shale Limestone, shale, and sandstone
Lower bedrock	375-560		St. Peter Prairie du Chien	Sandstone Dolomite and sandstone
		Cambrian (500-600 million years old)	Jordan St. Lawrence	Sandstone Dolomite
	350-550		Franconia Galesville Eau Claire Mt. Simon	Sandstone, siltstone, and shale Sandstone Sandstone, shale, and dolomite Sandstone
	-----	Precambrian (600 million to more than 2 billion years old)		Igneous and metamorphic rocks, locally overlain by sedimentary rocks that are chiefly sandstone

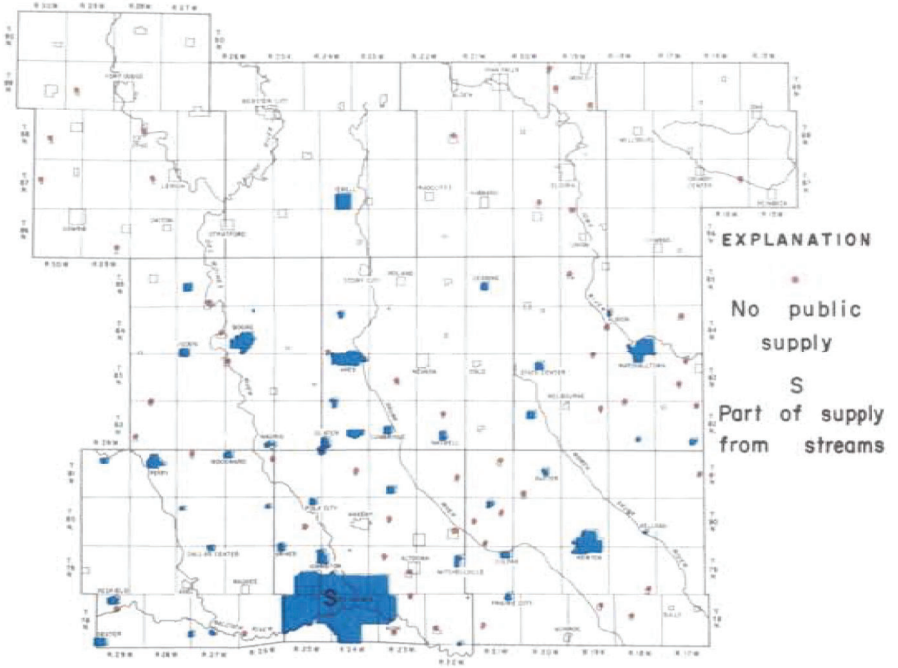
08/27/2026 - Classification: Internal - ECRM13799659

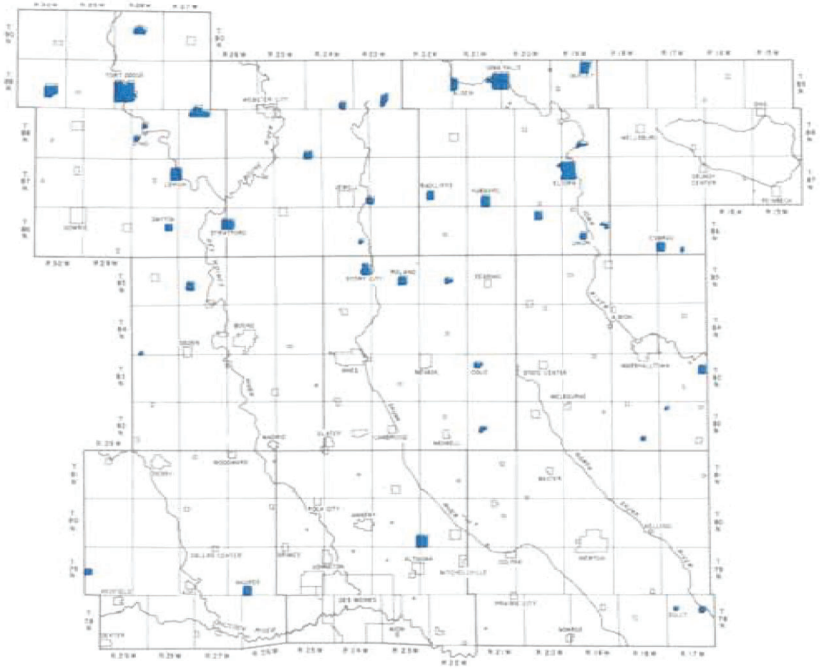
Source: F.R. Twenter and R.W. Coble, "The Water Story in Central Iowa," Iowa Geologic Survey Water Atlas Number 1, 1965.

The aquifers that supply water for cities and communities

Various reasons determine why a city or community will choose one aquifer over the other as a source of water for their municipal supply. In general, however, the aquifer selected will be one that will provide the largest quantity of good water at the lowest cost.

The surficial aquifers are the source of water for municipal supplies in nearly 100 cities and communities in central Iowa. Also, they are the source of water for individual supplies in many of the small communities that have no municipal supply.

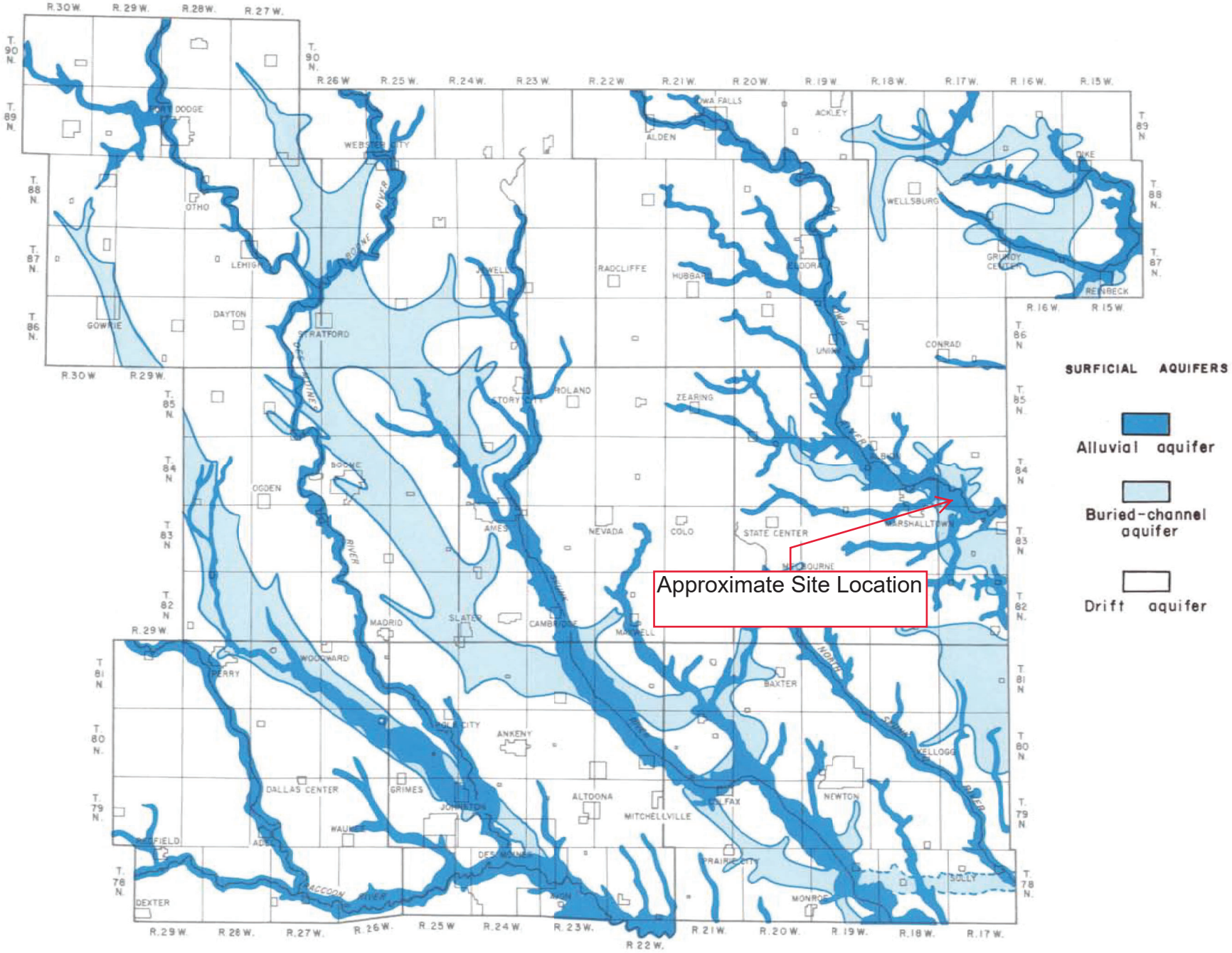




More than 40 cities and communities take all or most of their water from the upper bedrock aquifer.

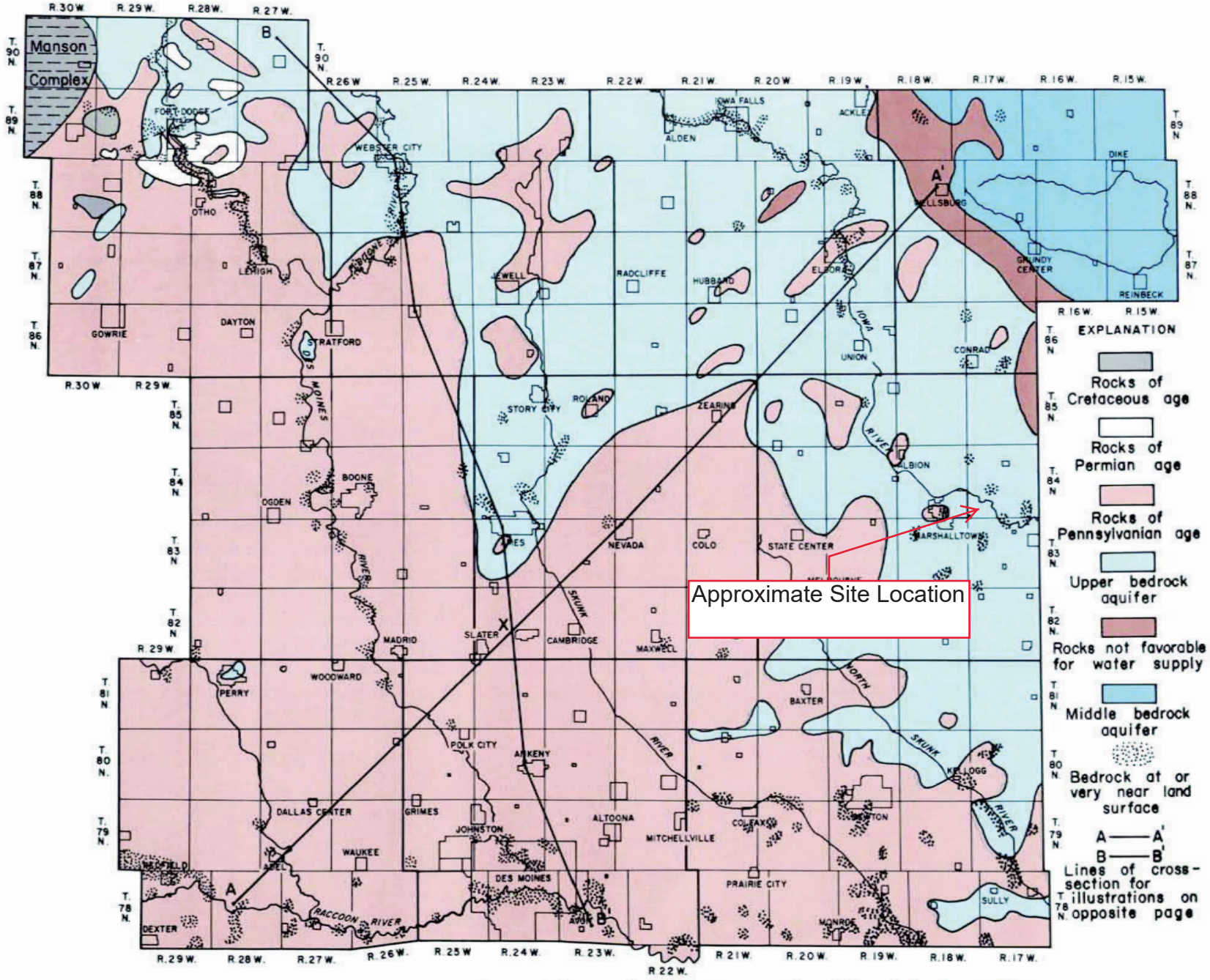
Source: F.R. Twenter and R.W. Coble, "The Water Story in Central Iowa," Iowa Geologic Survey Water Atlas Number 1, 1965.

08/27/2026 - Classification: Internal - ECRM13799659



Source: F.R. Twenter and R.W. Coble, "The Water Story in Central Iowa," Iowa Geologic Survey Water Atlas Number 1, 1965.

08/27/2026 - Classification: Internal - ECRM13799659



The areal distribution and spatial relations of the upper and middle bedrock aquifers.

Source: F.R. Twenter and R.W. Coble, "The Water Story in Central Iowa," Iowa Geologic Survey Water Atlas Number 1, 1965.

08/27/2026 - Classification: Internal - ECRM13799659

Appendix B

Boring Logs and Well Construction Documentation

08/27/2026 - Classification: Internal - ECRM13799659

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-Sutherland Generating Station SCS#: 25216149.00		MW-301

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Patrick Goetz Direct Push Analytical	11/20/2017	11/20/2017	hollow stem auger

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-301	Feet	863.5 Feet	8.3 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,481,478 N, 5,094,231 E S/C/N
NW 1/4 of NW 1/4 of Section 32, T 84 N, R 17 W
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Marshall	Marshalltown

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
			1–8	POORLY GRADED SAND, fine to medium, tan, (10YR 4/6), (construction fill sand to fill in hydrovac hole cleared to 8 ft bgs). Blind drilled to 8 feet.	SP									
S1	30		8–14	POORLY GRADED SAND, fine to coarse, dark brown, (7.5YR 3/3).	SP					M+/W				Depth to water at ~8 feet
S2	30		14–16							W				
			16	End of boring at 16.19 feet.										

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

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

08/27/2026 - Classification: Internal - ECRM13799659

Print Form

IOWA DEPARTMENT OF NATURAL RESOURCES

MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL-Sutherland Generating Station Permit No.:

Well or Piezometer No: MW-301

Dates Started: 11/20/2017 Date Completed: 11/20/2017

A. SURVEYED LOCATIONS AND ELEVATIONS

Locations (± 0.5 ft): 3481477.68 N, 5094230.68 E

Specify corner of site: NW of parcel 8417-32-126-002

Distance & direction along boundary: 82' E

Distance & direction from boundary to wall: 173' S

Elevations (± 0.01 ft MSL):

Ground Surface: 863.50

Top of protective casing: 866.9

Top of well casing: 866.61

Benchmark elevation: 590.75

Benchmark description: BM-001

B. SOIL BORING INFORMATION

Name & Address of Construction Company:
Direct Push Analytical
4N969 Old Lafox Rd Unit F
St. Charles, IL 60175

Name of Driller: Patrick Goetz

Drilling Method: 4 1/4 Hollow Stem Auger

Drilling Fluid: N/A

Bore Hole Diameter: 8.5"

Soil Sampling Method: 2" Split Spoon

Depth of Boring: 16'

C. MONITORING WELL INSTALLATION

Casing material: PVC

Length of casing: 5'

Outside casing diameter: 2.38"

Inside casing diameter: 2"

Casing joint type: Flush Threaded

Casing/screen joint type: PVC

Screen material: PVC

Screen opening size: 0.010"

Screen length: 10'

Depth of well: 15'

Filter Pack: 3.5'-15.69' bgs

Material: RW Sidley

Grain size: #5

Volume: 2.1 cu ft

Seal (minimum 3 ft length above filter pack): 0.5'-3.5' bgs

Material: 3/8" Benseal Bentonite Chips

Placement method: Gravity

Volume: 0.66 cu ft

Backfill (if different from seal): N/A

Material: N/A

Placement method: N/A

Volume: N/A

Surface seal design: 0'-0.5' bgs

Material of protective casing: Steel, 4" diameter

Material of grout between protective casing and well casing: Sand

Protective cap: 6" diameter

Material: Steel

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

Well Cap: 2" diameter

Material: Plastic with rubber gasket

Vented: ☒ Yes ☐ No

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

Water level: 12.80 Stabilization Time: <5 min

Well development method: surged with bailer and pumped

Average depth of frostline: 4 feet

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

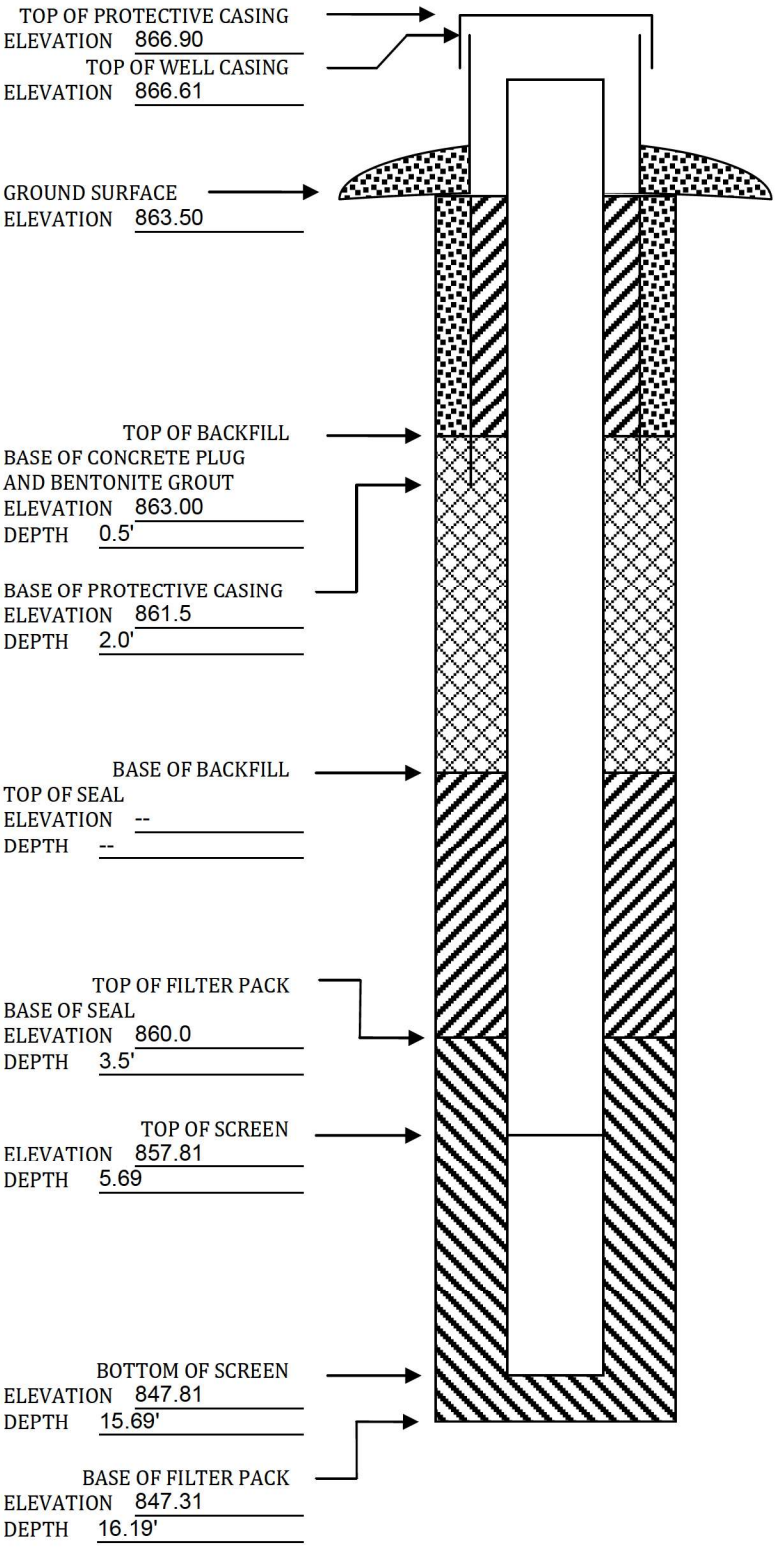
Please mail completed for to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E 9th St, Des Moines IA 50319-0034.

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

08/27/2026 - Classification: Internal - ECRM13799659

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.)



08/27/2026 - Classification: Internal - ECRM13799659

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-Sutherland Generating Station SCS#: 25216149.00		MW-302

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Patrick Goetz Direct Push Analytical	11/20/2017	11/20/2017	hollow stem auger

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-302	Feet	860.1 Feet	8.3 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,480,768 N, 5,094,238 E S/C/N
NW 1/4 of NW 1/4 of Section 32, T 84 N, R 17 W
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Marshall	Marshalltown

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	POORLY GRADED SAND, fine to coarse, (10YR 4/6), (construction fill sand to fill in hydrovac hole cleared to 8 ft bgs).										
			2	Blind drilled to 8 feet.										
			3											
			4		SP									
			5											
			6											
			7											
			8	LEAN CLAY, gray (10YR 6/1), soft, plastic.	CL									
			9	SILTY SAND, fine to medium sand, brown, (10YR 4/3).	SM									
S1	36		10	POORLY GRADED SAND, fine to coarse, grayish/brown, (10YR 5/2).						M+/W				Depth to water at ~9 feet.
			11											
			12											
			13		SP									
S2	26		14	Same as above but very dark gray (10YR 3/1).						W				
			15											
				End of boring at 15.98 feet.										

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
for Nate Hurvitz	SCS Engineers 2830 Dairy Drive Madison, WI 53711	Fax:

08/27/2026 - Classification: Internal - ECRM13799659

Print Form

IOWA DEPARTMENT OF NATURAL RESOURCES

MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL-Sutherland Generating Station Permit No.:

Well or Piezometer No: MW-302

Dates Started: 11/20/2017 Date Completed: 11/20/2017

A. SURVEYED LOCATIONS AND ELEVATIONS

Locations (± 0.5 ft): 3480767.91 N, 5094237.526 E

Specify corner of site: SW of parcel 8417-32-126-002

Distance & direction along boundary: 324' N

Distance & direction from boundary to wall: 42' E

Elevations (± 0.01 ft MSL):

Ground Surface: 860.06

Top of protective casing: 863.32

Top of well casing: 863.08

Benchmark elevation: 590.75

Benchmark description: BM-001

B. SOIL BORING INFORMATION

Name & Address of Construction Company:
Direct Push Analytical
4N969 Old Lafox Rd Unit F
St. Charles, IL 60175

Name of Driller: Patrick Goetz

Drilling Method: 4 1/4 Hollow Stem Auger

Drilling Fluid: N/A

Bore Hole Diameter: 8.5"

Soil Sampling Method: 2" Split Spoon

Depth of Boring: 16'

C. MONITORING WELL INSTALLATION

Casing material: PVC

Length of casing: 5'

Outside casing diameter: 2.38"

Inside casing diameter: 2"

Casing joint type: Flush Threaded

Casing/screen joint type: PVC

Screen material: PVC

Screen opening size: 0.010"

Screen length: 10'

Depth of well: 15'

Filter Pack: 3.5'-15.48' bgs

Material: RW Sidley

Grain size: #5

Volume: 2.1 cu ft

Seal (minimum 3 ft length above filter pack): 0.5'-3.5' bgs

Material: 3/8" Benseal Bentonite Chips

Placement method: Gravity

Volume: 0.66 cu ft

Backfill (if different from seal): N/A

Material: N/A

Placement method: N/A

Volume: N/A

Surface seal design: 0'-0.5' bgs

Material of protective casing: Steel, 4" diameter

Material of grout between protective casing and well casing: Sand

Protective cap: 6" diameter

Material: Steel

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

Well Cap: 2" diameter

Material: Plastic with rubber gasket

Vented: ☒ Yes ☐ No

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

Water level: 9.10 Stabilization Time: <5 min

Well development method: surged with bailer and pumped

Average depth of frostline: 4 feet

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

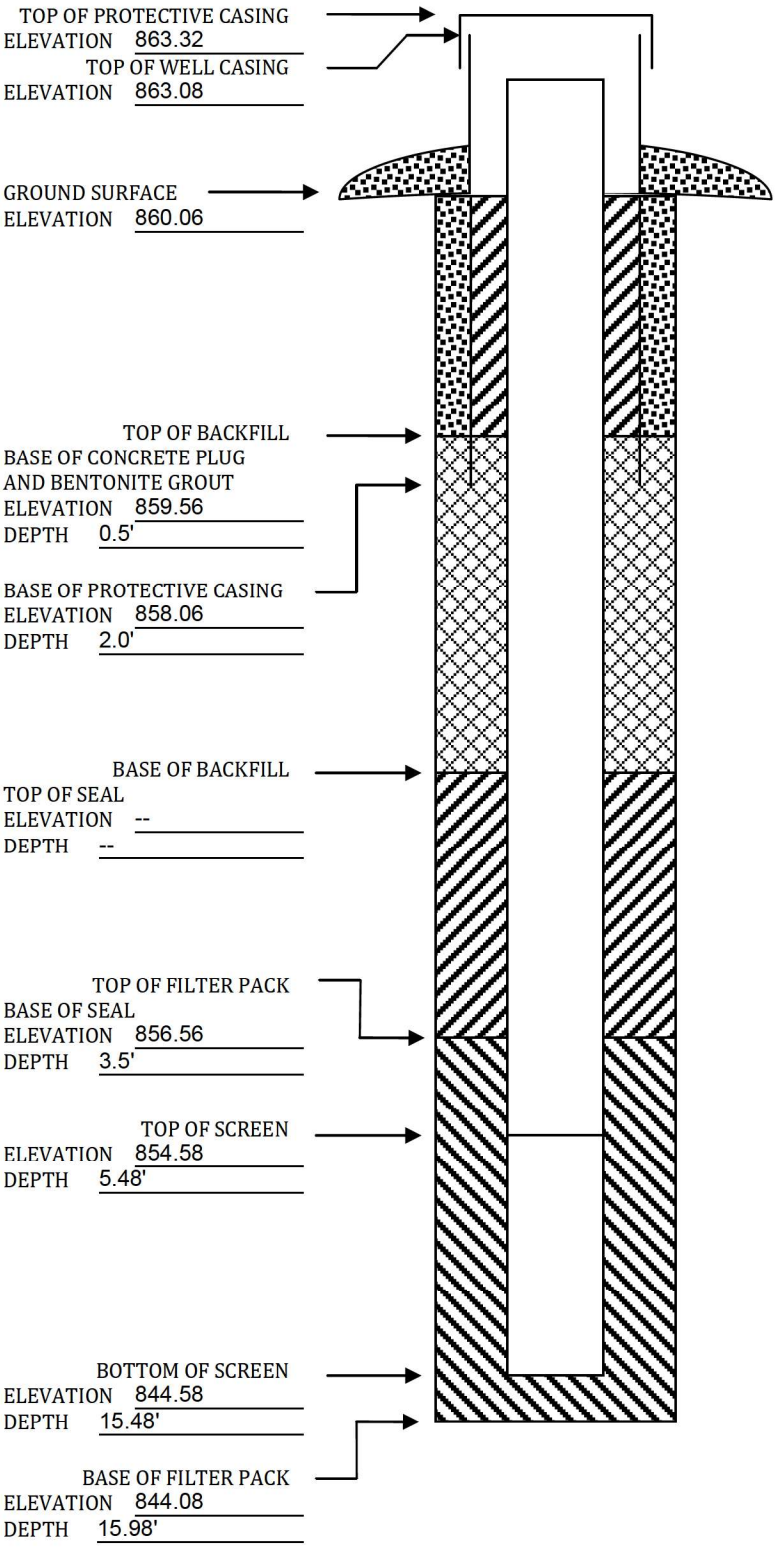
Please mail completed for to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E 9th St, Des Moines IA 50319-0034.

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

08/27/2026 - Classification: Internal - ECRM13799659

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.)



08/27/2026 - Classification: Internal - ECRM13799659

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-Sutherland Generating Statation SCS#: 25216149.00		MW-303

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Patrick Goetz Direct Push Analytical	11/20/2017	11/20/2017	hollow stem auger

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-303	Feet	856.7 Feet	8.3 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,480,604 N, 5,096,509 E S/C/N
NW 1/4 of NE 1/4 of Section 32, T 84 N, R 17 W
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Marshall	Marshalltown

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	POORLY GRADED SAND, fine to coarse, tan, (10YR 4/6), (construction fill sand to fill in hydrovac hole cleared to 8 ft bgs).										
			2	Blind drilled to 8 feet.										
			3											
			4		SP									
			5											
			6											
			7											
			8	POORLY GRADED SAND with few fine sub-rounded gravel, dark brown, (5YR 3/3).										
			9											
S1	24		10							W				Depth to water at ~8 feet.
			11											
			12		SP									
			13											
S2	30		14							W				
			15											
			16	End of boring at 16.31 feet.										

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
Nicole Harms for Nicole Harms	SCS Engineers 2830 Dairy Drive Madison, WI 53711	Fax:

08/27/2026 - Classification: Internal - ECRM13799659

Print Form

IOWA DEPARTMENT OF NATURAL RESOURCES

MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL-Sutherland Generating Station Permit No.:

Well or Piezometer No: MW-303

Dates Started: 11/20/2017 Date Completed: 11/20/2017

A. SURVEYED LOCATIONS AND ELEVATIONS

Locations (± 0.5 ft): 3480604.15 N, 5096509.24 E

Specify corner of site: SE of parcel 8417-32-126-002

Distance & direction along boundary: 326' W

Distance & direction from boundary to wall: 200' N

Elevations (± 0.01 ft MSL):

Ground Surface: 856.70

Top of protective casing: 859.74

Top of well casing: 859.54

Benchmark elevation: 590.75

Benchmark description: BM-001

B. SOIL BORING INFORMATION

Name & Address of Construction Company:
Direct Push Analytical
4N969 Old Lafox Rd Unit F
St. Charles, IL 60175

Name of Driller: Patrick Goetz

Drilling Method: 4 1/4 Hollow Stem Auger

Drilling Fluid: N/A

Bore Hole Diameter: 8.5"

Soil Sampling Method: 2" Split Spoon

Depth of Boring: 16'

C. MONITORING WELL INSTALLATION

Casing material: PVC

Length of casing: 5'

Outside casing diameter: 2.38"

Inside casing diameter: 2"

Casing joint type: Flush Threaded

Casing/screen joint type: PVC

Screen material: PVC

Screen opening size: 0.010"

Screen length: 10'

Depth of well: 15'

Filter Pack: 3.5'- 15.81' bgs

Material: RW Sidley

Grain size: #5

Volume: 2.1 cu ft

Seal (minimum 3 ft length above filter pack): 0.5'-3.5' bgs

Material: 3/8" Benseal Bentonite Chips

Placement method: Gravity

Volume: 0.66 cu ft

Backfill (if different from seal): N/A

Material: N/A

Placement method: N/A

Volume: N/A

Surface seal design: 0'-0.5' bgs

Material of protective casing: Steel, 4" diameter

Material of grout between protective casing and well casing: Sand

Protective cap: 6" diameter

Material: Steel

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

Well Cap: 2" diameter

Material: Plastic with rubber gasket

Vented: ☒ Yes ☐ No

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

Water level: 7.35 Stabilization Time: <5 min

Well development method: surged with bailer and pumped

Average depth of frostline: 4 feet

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

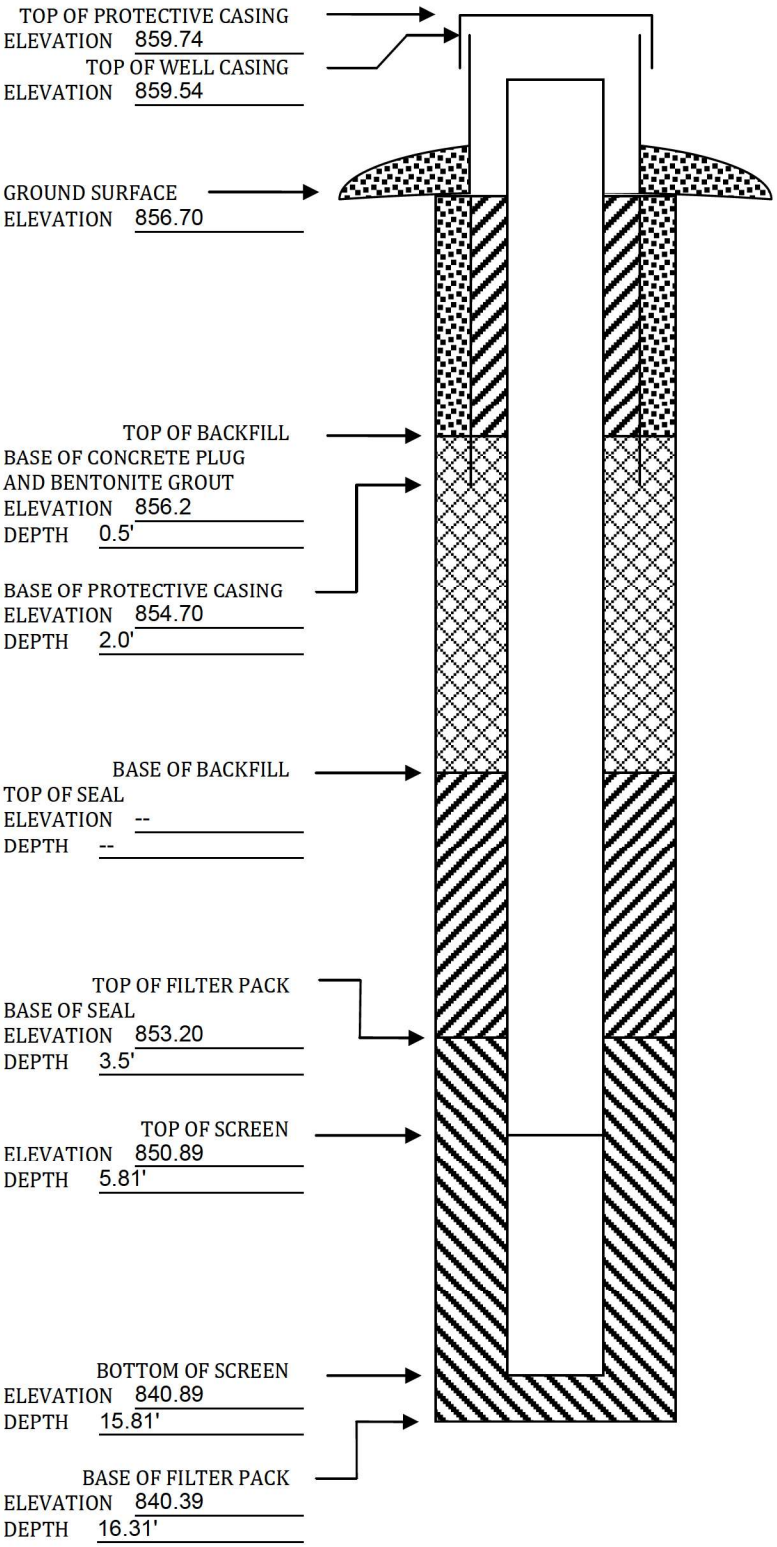
Please mail completed for to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E 9th St, Des Moines IA 50319-0034.

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

08/27/2026 - Classification: Internal - ECRM13799659

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.)



08/27/2026 - Classification: Internal - ECRM13799659

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-Sutherland Generating Statation SCS#: 25216149.00		MW-304

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Patrick Goetz Direct Push Analytical	11/20/2017	11/20/2017	hollow stem auger

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-304	Feet	857.8 Feet	8.3 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,480,549 N, 5,096,849 E S/C/N
NW 1/4 of NE 1/4 of Section 32, T 84 N, R 17 W
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Marshall	Marshalltown

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	POORLY GRADED SAND, fine to coarse, tan, (construction fill sand to fill in hydrovac hole). Blind drilled to 4 feet.	SP									
			2											
			3											
			4	LEAN CLAY, brown, (7.5YR 4/3), soft, plastic, trace organic fibers.										
			5											
S1	30		6							M+/W				Depth to water at ~7 feet.
			7											
			8		CL									
			9											
S2	32		10							W				
			11											
			12	POORLY GRADED SAND, fine to coarse, dark yellow brown, (10YR 3/6).	SP									
			13	SILTY SAND, very dark gray, (10YR 3/1), soft.										
S3	42		14		SM					W				
			15	POORLY GRADED SAND with fine sub-rounded gravel, fine to coarse, dark yellow brown, (10YR 3/6).	SP									
			16	End of boring at 16.30 feet.										

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

Signature Mike Hamm for Nicole Hamms
Firm SCS Engineers
2830 Dairy Drive Madison, WI 53711
Tel: (608) 224-2830
Fax:

08/27/2026 - Classification: Internal - ECRM13799659

Print Form

IOWA DEPARTMENT OF NATURAL RESOURCES

MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL-Sutherland Generating Station Permit No.:

Well or Piezometer No: MW-304

Dates Started: 11/20/2017 Date Completed: 11/20/2017

A. SURVEYED LOCATIONS AND ELEVATIONS

Locations (± 0.5 ft): 3480548.65 N, 5096849.06 E

Specify corner of site: SW of parcel 8417-32-200-002

Distance & direction along boundary: 156' N

Distance & direction from boundary to wall: 10' E

Elevations (± 0.01 ft MSL):

Ground Surface: 857.79

Top of protective casing: 861.06

Top of well casing: 860.79

Benchmark elevation: 590.75

Benchmark description: BM-001

B. SOIL BORING INFORMATION

Name & Address of Construction Company:
Direct Push Analytical
4N969 Old Lafox Rd Unit F
St. Charles, IL 60175

Name of Driller: Patrick Goetz

Drilling Method: 4 1/4 Hollow Stem Auger

Drilling Fluid: N/A

Bore Hole Diameter: 8.5"

Soil Sampling Method: 2" Split Spoon

Depth of Boring: 16'

C. MONITORING WELL INSTALLATION

Casing material: PVC

Length of casing: 5'

Outside casing diameter: 2.38"

Inside casing diameter: 2"

Casing joint type: Flush Threaded

Casing/screen joint type: PVC

Screen material: PVC

Screen opening size: 0.010"

Screen length: 10'

Depth of well: 15'

Filter Pack: 3.5'-15.80' bgs

Material: RW Sidley

Grain size: #5

Volume: 2.1 cu ft

Seal (minimum 3 ft length above filter pack): 0.5'- 3.5' bgs

Material: 3/8" Benseal Bentonite Chips

Placement method: Gravity

Volume: 0.66 cu ft

Backfill (if different from seal): N/A

Material: N/A

Placement method: N/A

Volume: N/A

Surface seal design: 0'-0.5' bgs

Material of protective casing: Steel, 4" diameter

Material of grout between protective casing and well casing: Sand

Protective cap: 6" diameter

Material: Steel

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

Well Cap: 2" diameter

Material: Plastic with rubber gasket

Vented: ☒ Yes ☐ No

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

Water level: 8.91 Stabilization Time: <5 min

Well development method: surged with bailer and pumped

Average depth of frostline: 4 feet

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

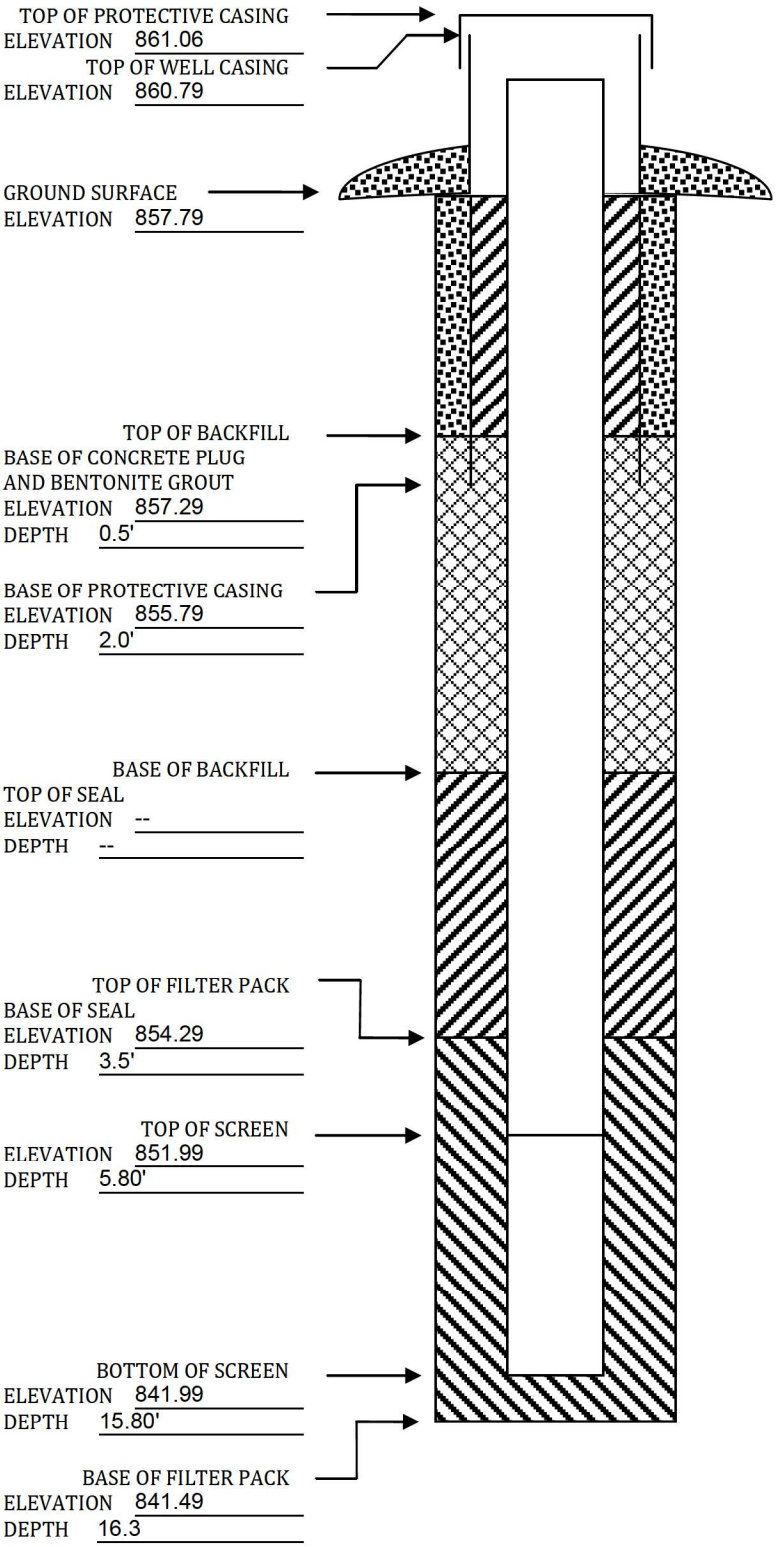
Please mail completed for to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E 9th St, Des Moines IA 50319-0034.

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

08/27/2026 - Classification: Internal - ECRM13799659

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.)



08/27/2026 - Classification: Internal - ECRM13799659

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-Sutherland Generating Station SCS#: 25216149.00		MW-305

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Patrick Goetz Direct Push Analytical	11/21/2017	11/21/2017	hollow stem auger

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-305	Feet	856.8 Feet	8.3 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,480,877 N, 5,096,835 E S/C/N
NW 1/4 of NE 1/4 of Section 32, T 84 N, R 17 W
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Marshall	Marshalltown

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	POORLY GRADED SAND, fine to coarse, tan, (construction fill sand to fill in hydrovac hole cleared to 7.5 ft bgs). Blind drilled to 4 feet.										
			2		SP									
			3											
			4	POORLY GRADED SAND, fine to coarse, dark yellowish brown, (10YR 4/4), (construction fill sand to fill in hydrovac hole cleared to 7.5 ft bgs).										
			5											
S1	18		6		SP					M+/W				Depth to water at ~7 feet.
			7											
			8	LEAN CLAY with trace medium to coarse sand, very dark gray, (2.5YR 3/1), medium stiffness.	CL									
			9	POORLY GRADED SAND with trace fine sub-rounded gravel, fine to coarse, light olive brown, (2.5YR 3/1 and 2.5YR 5/4).										
S2	12		10							W				
			11											
			12		SP									
			13											
S3	30		14							W				
			15											
			16	End of boring at 16.58 feet.										

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

Signature Kyle Flaum for Nate Helms
Firm SCS Engineers
2830 Dairy Drive Madison, WI 53711
Tel: (608) 224-2830
Fax:

08/27/2026 - Classification: Internal - ECRM13799659

Print Form

IOWA DEPARTMENT OF NATURAL RESOURCES

MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL-Sutherland Generating Station Permit No.:

Well or Piezometer No: MW-305

Dates Started: 11/21/2017 Date Completed: 11/21/2017

A. SURVEYED LOCATIONS AND ELEVATIONS

Locations (± 0.5 ft): 3480877.26 N, 5096834.70 E

Specify corner of site: SW of parcel 8417-32-200-002

Distance & direction along boundary: 545' N

Distance & direction from boundary to wall: 12' E

Elevations (± 0.01 ft MSL):

Ground Surface: 856.81

Top of protective casing: 860.12

Top of well casing: 859.81

Benchmark elevation: 590.75

Benchmark description: BM-001

B. SOIL BORING INFORMATION

Name & Address of Construction Company:
Direct Push Analytical
4N969 Old Lafox Rd Unit F
St. Charles, IL 60175

Name of Driller: Patrick Goetz

Drilling Method: 4 1/4 Hollow Stem Auger

Drilling Fluid: N/A

Bore Hole Diameter: 8.5"

Soil Sampling Method: 2" Split Spoon

Depth of Boring: 16'

C. MONITORING WELL INSTALLATION

Casing material: PVC

Length of casing: 5'

Outside casing diameter: 2.38"

Inside casing diameter: 2"

Casing joint type: Flush Threaded

Casing/screen joint type: PVC

Screen material: PVC

Screen opening size: 0.010"

Screen length: 10'

Depth of well: 15'

Filter Pack: 3.5'-16.08' bgs

Material: RW Sidley

Grain size: #5

Volume: 2.1 cu ft

Seal (minimum 3 ft length above filter pack): 0.5'-3.5' bgs

Material: 3/8" Benseal Bentonite Chips

Placement method: Gravity

Volume: 0.66 cu ft

Backfill (if different from seal): N/A

Material: N/A

Placement method: N/A

Volume: N/A

Surface seal design: 0'-0.5' bgs

Material of protective casing: Steel, 4" diameter

Material of grout between protective casing and well casing: Sand

Protective cap: 6" diameter

Material: Steel

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

Well Cap: 2" diameter

Material: Plastic with rubber gasket

Vented: ☑ Yes ☐ No

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

Water level: 8.24 Stabilization Time: <5 min

Well development method: surged with bailer and pumped

Average depth of frostline: 4 feet

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

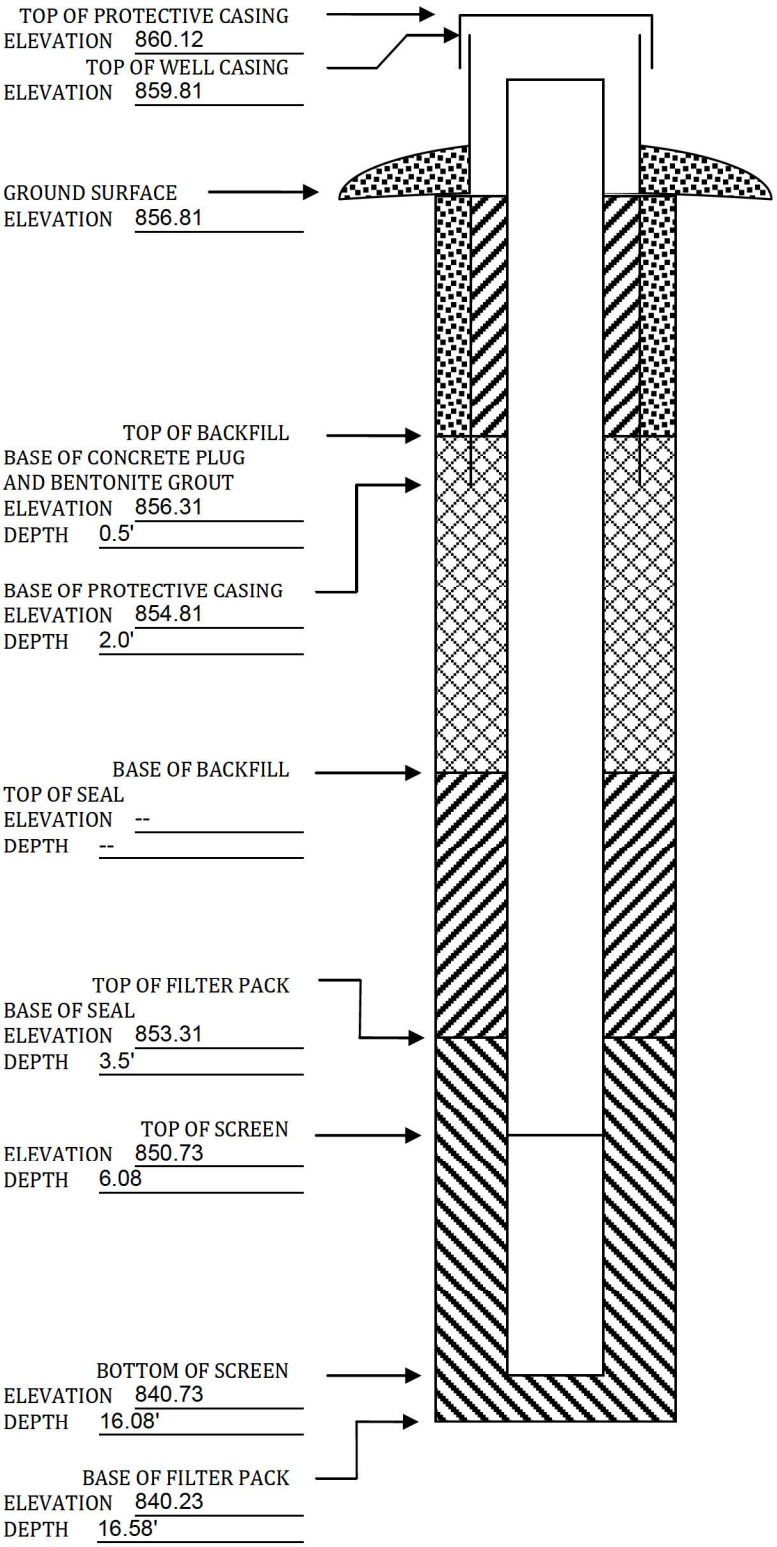
Please mail completed for to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E 9th St, Des Moines IA 50319-0034.

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

08/27/2026 - Classification: Internal - ECRM13799659

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.)



08/27/2026 - Classification: Internal - ECRM13799659

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
Sutherland Generating Station SCS#: 25221243.00		MW-306A

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Patrick Goetz Direct Push Analytical	2/21/2023	2/28/2023	hollow stem auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-306A	854.26 Feet	857.28 Feet	8.25 in.

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,481,462 N, 5,096,827 E S / C / N
NW 1/4 of NE 1/4 of Section 32, T 84 N, R 17 W
Lat N42°02'55.30" Long W92°51'12.86"
Local Grid Location Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Marshall		Marshalltown

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
				Blind drilled 0'-16'. See MW-306 boring log.										
S1	48		1.5 – 3.0							M				
S2	48		4.5 – 6.0							M				
S3	48		7.5 – 9.0 – 10.5							W				Depth to water at 8' bgs.
S4	48		12.0 – 13.5 – 15.0							W				
			16.5	POORLY GRADED SAND WITH GRAVEL, fine to coarse grained, red.	SP									
S5	48		18.0 – 19.5	Same as above but gray.	SP					W				

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:

08/27/2026 - Classification: Internal - ECRM13799659

Boring Number MW-306A

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
			21.0	POORLY GRADED SAND WITH GRAVEL, fine to coarse grained, gray.										
S6	48		22.5		SP					W				
			24.0	Same as above but gray/brown.										
S7	48		25.5		SP					W				
			27.0	Same as above but finer grain size.										
S8	48		28.5		SP					W				
			30.0	Same as above but brown.	SP									
S9	48		31.5	FAT CLAY, trace fine grained, sand and gravel, gray.						W				
			33.0											
S10	48		34.5							W				
			36.0											
S11	48		37.5		CH					W				
			39.0											
S12	48		40.5							W				
			42.0											
			43.5											
			45.0											
			46.5											
			48.0	End of Boring at 48' below ground surface.										

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: Sutherland Generating Station | Permit No.: 2023-7

Well or Piezometer No.: MW-306A | Dates Started: 2/21/2023 | Date Completed: 2/28/2023

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

Specify corner of site: NW parcel 8417-32-200-001 | Distance and direction along boundary: 485' north

Distance and direction from boundary to surface monitoring well: 17' west

Elevation (+0.01 ft. MSL): 857.28

Ground Surface: 857.28 | Top of protective casing: 860.54

Top of well casing: 860.32 | Benchmark elevation: 861.47

Benchmark description: Brass monument in concrete

B. SOIL BORING INFORMATION

Construction Company Name: Direct Push Analytical

Address: 4N969 Old Lafox Rd Unit E | City, State, Zip Code: St. Charles, IL 60175

Name of driller: Patrick Goetz

Drilling method: Hollow Stem Auger | Drilling fluid: None | Bore Hole diameter: 8.25"

Soil sampling method: Geoprobe | Depth of boring: 34'

C. MONITORING WELL INSTALLATION

Casing material: PVC | Placement method: Gravity

Length of casing: 31' | Volume: 2.75 cu ft

Outside casing diameter: 2.37 | Backfill (if different from seal): N/A

Inside casing diameter: 2.01 | Material: N/A

Casing joint type: Threaded | Placement method: N/A

Casing/screen joint type: Threaded | Volume: N/A

Screen material: 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: 5'

Depth of Well: 33' | Protective cap: Yes

Filter Pack: | Material: Steel

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

Grain Size: R.W. Sidley #5 | Well cap: Yes

Volume: 0.75 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: 6.06 | **Stabilization time**:

Well development method: Surge and Purge with Pump

Average depth of frost line:

DRILLER'S CERTIFICATION

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

Signature: _____ **Certification #**: 6496 **Date**: 5-8-23

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.

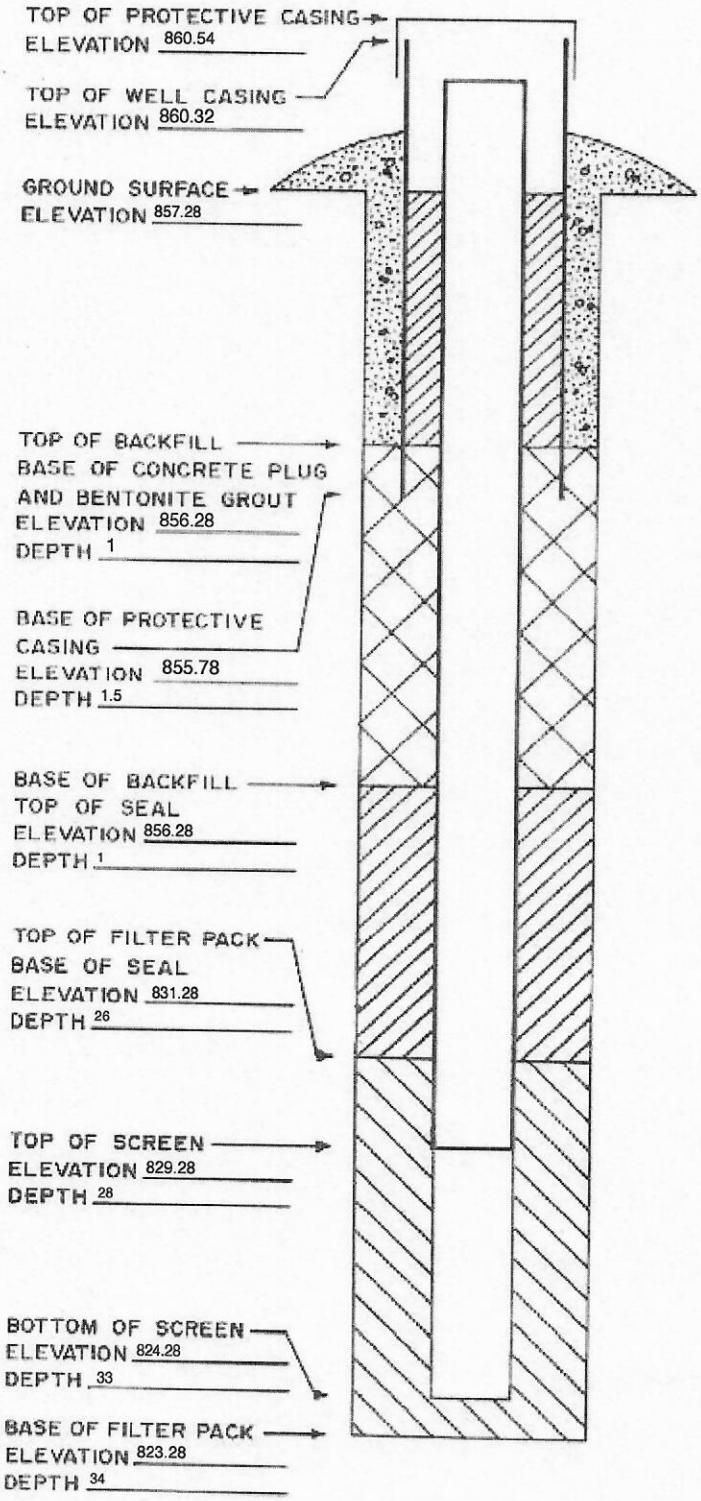
Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

08/27/2026 - Classification: Internal - ECRM13799659

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).



08/27/2026 - Classification: Internal - ECRM13799659

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-Sutherland Generating Statation SCS#: 25216149.00		MW-306

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Patrick Goetz Direct Push Analytical	11/21/2017	11/21/2017	hollow stem auger

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-306	Feet	858.2 Feet	8.3 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,481,470 N, 5,096,817 E S/C/N
NW 1/4 of NE 1/4 of Section 32, T 84 N, R 17 W
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Marshall	Marshalltown

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	POORLY GRADED SAND, fine to coarse, tan, (construction fill sand to fill in hydrovac hole cleared to 8 ft bgs).										
			2	Blind drilled to 4 feet.	SP									
			3											
			4	POORLY GRADED SAND, fine to coarse, strong brown, (7.5YR 4/6), (construction fill sand to fill in hydrovac hole cleared to 8 ft bgs).										
			5											
S1	12		6							M				
			7											
			8											
			9											
S2	12		10		SP					W				Depth to water at ~8 feet.
			11											
			12											
			13											
S3	36		14	Same as above but dark yellowish brown color (10YR 3/4).						W				
			15											
			16	End of boring at 16.23 feet.										

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
Nate Harms for Nate Harms	SCS Engineers 2830 Dairy Drive Madison, WI 53711	Fax:

08/27/2026 - Classification: Internal - ECRM13799659

Print Form

IOWA DEPARTMENT OF NATURAL RESOURCES

MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL-Sutherland Generating Station Permit No.:

Well or Piezometer No: MW-306

Dates Started: 11/21/2017 Date Completed: 11/21/2017

A. SURVEYED LOCATIONS AND ELEVATIONS

Locations (± 0.5 ft):

Specify corner of site: NW of parcel 8417-32-200-001

Distance & direction along boundary: 222' S

Distance & direction from boundary to wall: 17' E

Elevations (± 0.01 ft MSL):

Ground Surface: 858.15

Top of protective casing: 861.36

Top of well casing: 861.13

Benchmark elevation: 590.75

Benchmark description: BM-001

B. SOIL BORING INFORMATION

Name & Address of Construction Company:
Direct Push Analytical
4N969 Old Lafox Rd Unit F
St. Charles, IL 60175

Name of Driller: Patrick Goetz

Drilling Method: 4 1/4 Hollow Stem Auger

Drilling Fluid: N/A

Bore Hole Diameter: 8.5"

Soil Sampling Method: 2" Split Spoon

Depth of Boring: 16'

C. MONITORING WELL INSTALLATION

Casing material: PVC

Length of casing: 5'

Outside casing diameter: 2.38"

Inside casing diameter: 2"

Casing joint type: Flush Threaded

Casing/screen joint type: PVC

Screen material: PVC

Screen opening size: 0.010"

Screen length: 10'

Depth of well: 15'

Filter Pack: 3.5'-15.73' bgs

Material: RW Sidley

Grain size: #5

Volume: 2.1 cu ft

Seal (minimum 3 ft length above filter pack): 0.5'-3.5' bgs

Material: 3/8" Benseal Bentonite Chips

Placement method: Gravity

Volume: 0.66 cu ft

Backfill (if different from seal): N/A

Material: N/A

Placement method: N/A

Volume: N/A

Surface seal design: 0'-0.5' bgs

Material of protective casing: Steel, 4" diameter

Material of grout between protective casing and well casing: Sand

Protective cap: 6" diameter

Material: Steel

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

Well Cap: 2" diameter

Material: Plastic with rubber gasket

Vented: ☒ Yes ☐ No

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

Water level: 9.77 Stabilization Time: <5 min

Well development method: surged with bailer and pumped

Average depth of frostline: 4 feet

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

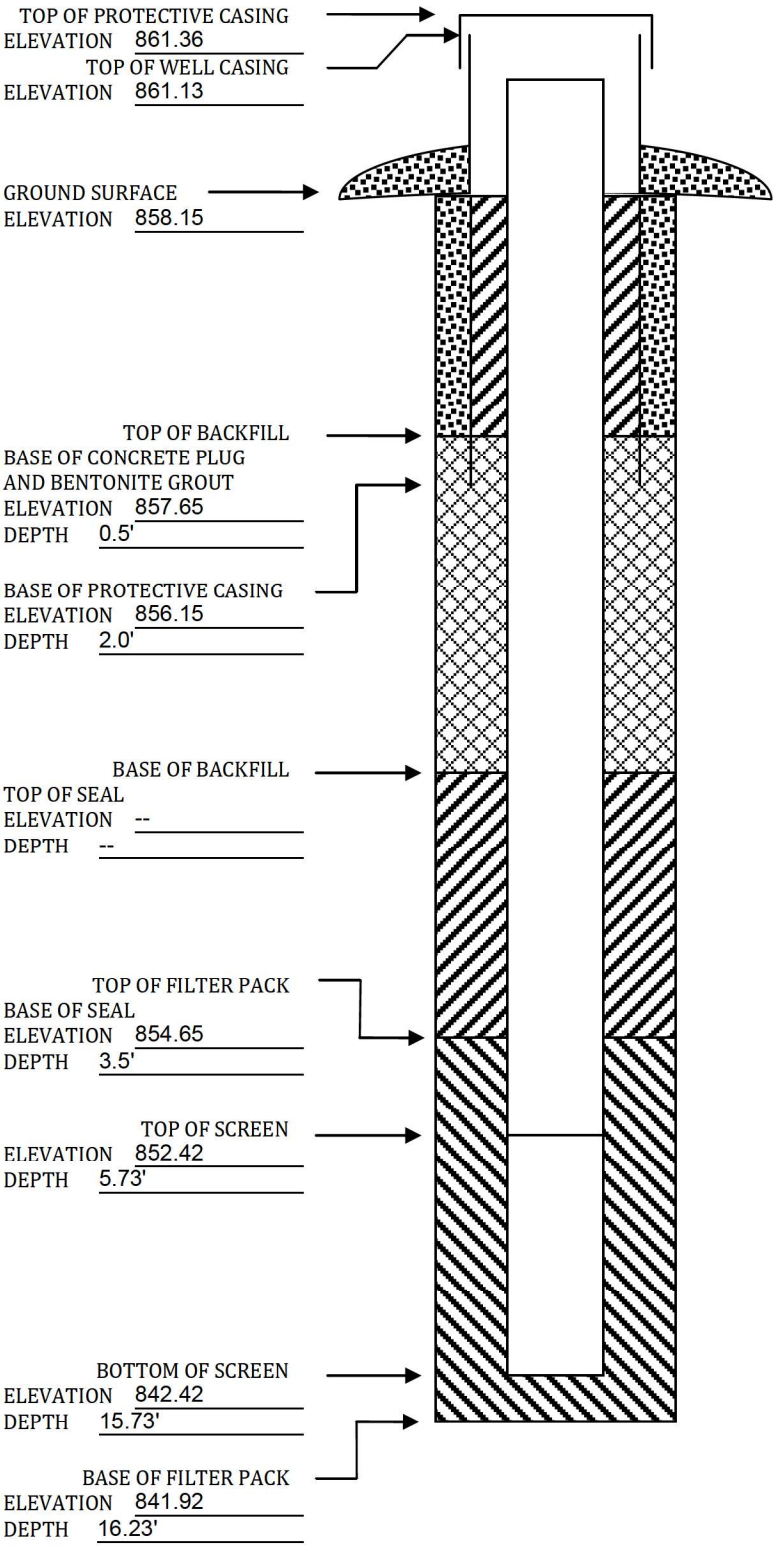
Please mail completed for to: Iowa Department of Natural Resources, Land Quality Bureau, 502 E 9th St, Des Moines IA 50319-0034.

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

08/27/2026 - Classification: Internal - ECRM13799659

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.)



08/27/2026 - Classification: Internal - ECRM13799659

SCS ENGINEERS
Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

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

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
IPL-Sutherland Generating Statation SCS#: 25221243.00		MW-307

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Duncan List Terracon	11/30/2021	11/30/2021	hollow stem auger

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-307	13.3 Feet bgs	862.3 Feet	8.25 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,481,415 N, 5,096,028 E S / C / N
NE 1/4 of NW 1/4 of Section 32, T 84 N, R 17 W
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Marshall	Marshalltown

Sample 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	Soil Properties: Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	Hydroexcavated to 7.5' bgs										
			1.5											
			3.0											
			4.5											
			6.0											
			7.5	SANDY CLAY, dark brown, medium stiff										
S1	20		9.0		CL					M				
S2	18		10.5							M				
S3	17		12.0	POORLY-GRADED SAND, fine to coarse, dense, trace gravel						W				
S4	17		13.5		SP					W				
S5	16		15.0							W				
			16.5	color change to reddish brown at 17' bgs										
			18.0	End of boring at 18' bgs.										

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

Signature	Firm	Tel:
	SCS Engineers	Fax:

08/27/2026 - Classification: Internal - ECRM13799659

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL Sutherland Generating Station | Permit No.: County: WP2021-1(a)

Well or Piezometer No.: MW-307 | Dates Started: 11/30/2021 | Date Completed: 11/30/2021

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

Specify corner of site: NE | Distance and direction along boundary: 774 feet west

Distance and direction from boundary to surface monitoring well: 274 feet south

Elevation (+0.01 ft. MSL)

Ground Surface: 862.27 | Top of protective casing: 865.1

Top of well casing: 864.87 | Benchmark elevation:

Benchmark description:

B. SOIL BORING INFORMATION

Construction Company Name: Terracon

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

Name of driller: Duncan List

Drilling method: Hollow-stem auger | Drilling fluid: none | Bore Hole diameter: 8.25"

Soil sampling method: Split spoon | Depth of boring: 18'

C. MONITORING WELL INSTALLATION

Casing material: PVC

Length of casing: 10'

Outside casing diameter: 2.38"

Inside casing diameter: 2.01"

Casing joint type: Flush threaded

Casing/screen joint type: Flush threaded

Screen material: PVC - factory slotted

Screen opening size: 0.010"

Screen length: 10'

Depth of Well: 17.5'

Filter Pack:

Material: Sand - Gillibrand Industrial

Grain Size:

Volume: 2 cu. ft.

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

Material: 3/8" Bentonite chips - Holeplug

Placement method: Gravity - poured

Volume: 2.67 cu. ft.

Backfill (if different from seal): Same as seal

Material:

Placement method:

Volume:

Surface seal design:

Material of protective casing: Steel

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

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: 13.24' | **Stabilization time:** <20 minutes

Well development method: Surged and purged with submersible pump. 10 well volumes removed during development.

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 #:** 1183 **Date:** 12/23/21

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

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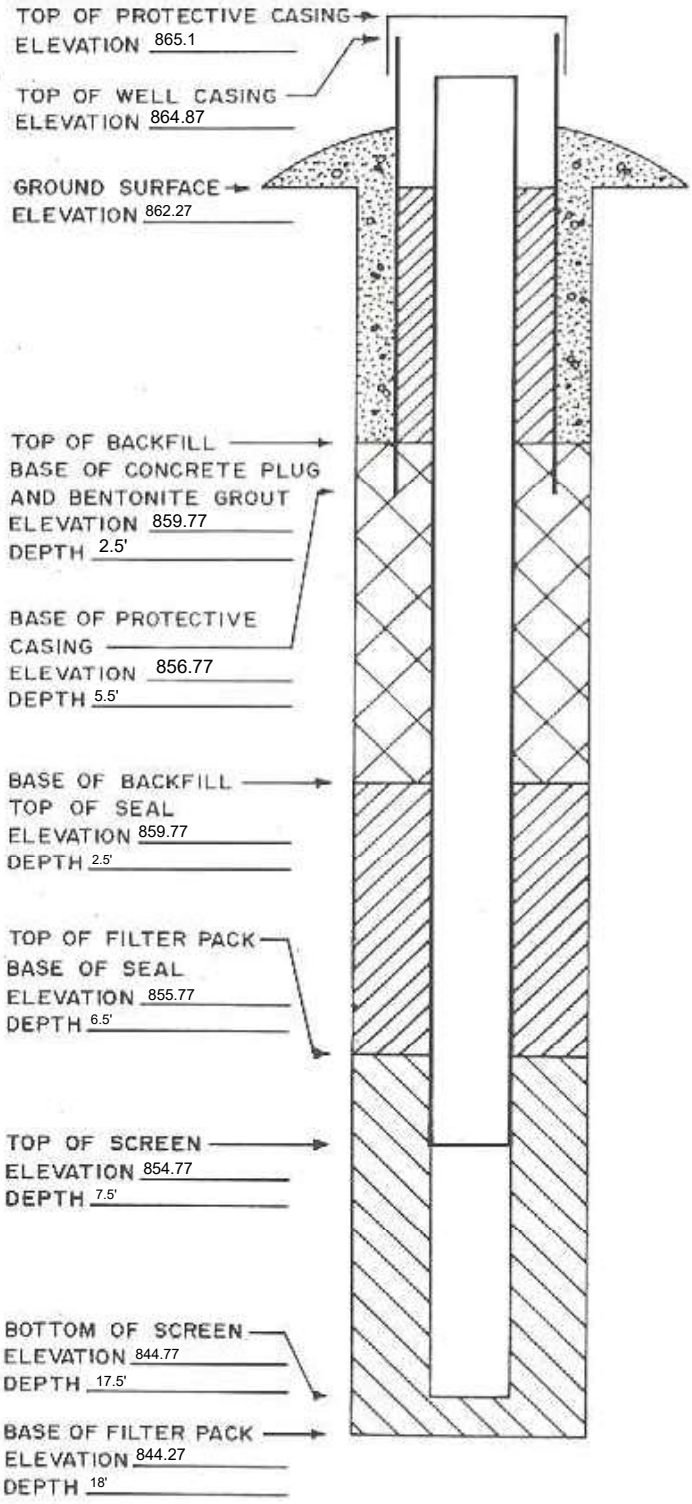
DNR Form 542-1277

08/27/2026 - Classification: Internal - ECRM13799659

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).



08/27/2026 - Classification: Internal - ECRM13799659

SCS ENGINEERS
Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

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

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
IPL-Sutherland Generating Statation SCS#: 25221243.00		MW-308

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Duncan List Terracon	11/30/2021	11/30/2021	hollow stem auger

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-308	11.2 Feet bgs	860.8 Feet	8.25 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,481,182 N, 5,095,701 E S / C / N
NE 1/4 of NW 1/4 of Section 32, T 84 N, R 17 W
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Marshall	Marshalltown

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
				Hydroexcavated to 8.5'										
			1.5											
			3.0											
			4.5											
			6.0											
			7.5											
S1	9		9.0	POORLY GRADED SAND, medium to coarse, brown, dense	SP					W				
S2	14		10.5	trace gravel						W				
S3	15		12.0							W				
S4	9		13.5							W				
			15.0											
				End of boring at 16' bgs.										

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

Signature	Firm	Tel:
	SCS Engineers	Fax:

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL Sutherland Generating Station | Permit No.: County: WP2021-1(b)

Well or Piezometer No.: MW-308 | Dates Started: 11/30/2021 | Date Completed: 11/30/2021

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

Specify corner of site: NE | Distance and direction along boundary: 1,101 feet west

Distance and direction from boundary to surface monitoring well: 508 feet south

Elevation (+0.01 ft. MSL)

Ground Surface: 860.83 | Top of protective casing: 863.37

Top of well casing: 863.07 | Benchmark elevation:

Benchmark description:

B. SOIL BORING INFORMATION

Construction Company Name: Terracon

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

Name of driller: Duncan List

Drilling method: Hollow-stem auger | Drilling fluid: none | Bore Hole diameter: 8.25"

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

C. MONITORING WELL INSTALLATION

Casing material: PVC | Placement method: Gravity - poured

Length of casing: 10' | Volume: 2.67 cu. ft.

Outside casing diameter: 2.38" | Backfill (if different from seal): Same as seal

Inside casing diameter: 2.01" | Material:

Casing joint type: Flush threaded | Placement method:

Casing/screen joint type: Flush threaded | Volume:

Screen material: PVC - factory slotted | 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' | Protective cap:

Depth of Well: 16' | Material: Steel

Filter Pack: | Vented?: ☒ Y ☐ N | Locking?: ☒ Y ☐ N

Material: Sand - Gillibrand Industrial | Well cap:

Grain Size: | Material: Plastic

Volume: 2 cu. ft. | Vented?: ☒ Y ☐ N

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

Material: 3/8" Bentonite chips - Holeplug

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

Water level: 11.12' | **Stabilization time:** <20 minutes

Well development method: Surged and purged with submersible pump. 10 well volumes removed during development.

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:** 12/23/21

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

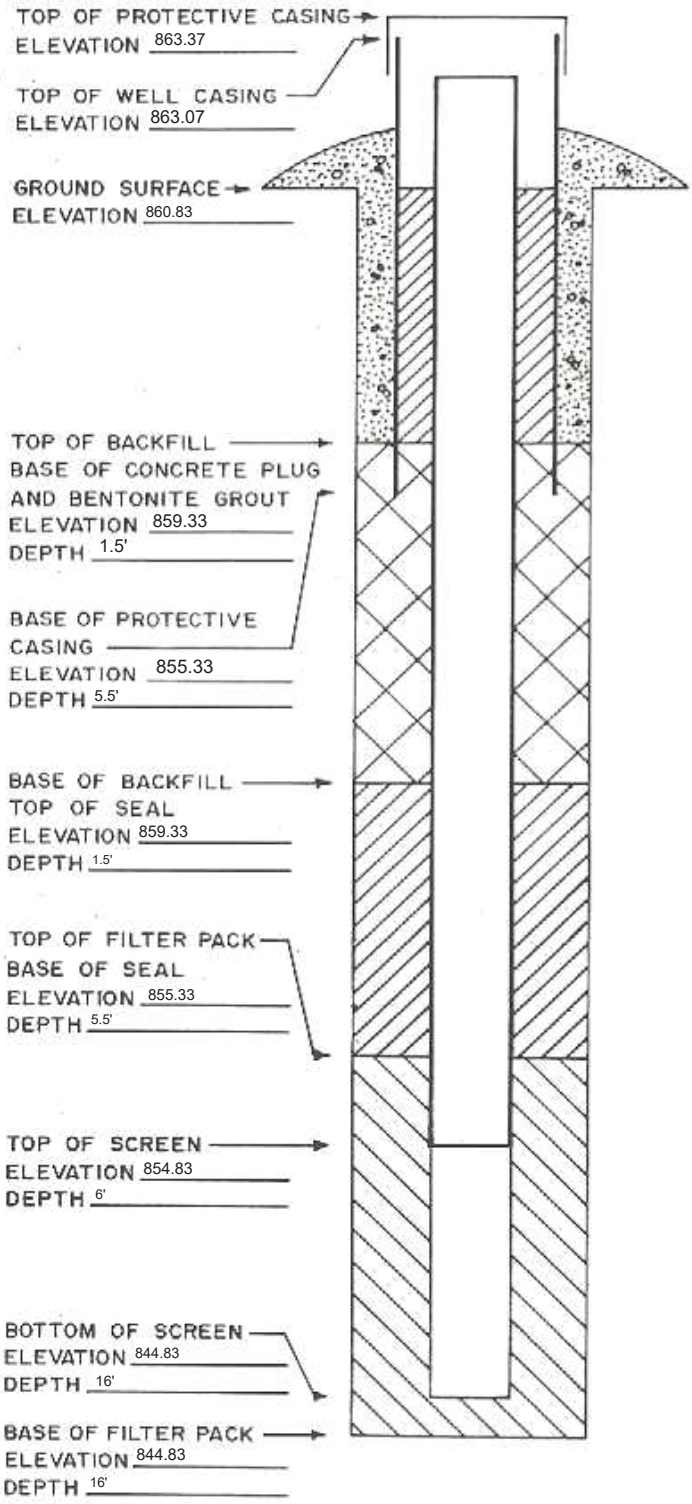
DNR Form 542-1277

08/27/2026 - Classification: Internal - ECRM13799659

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).



08/27/2026 - Classification: Internal - ECRM13799659

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
Sutherland Generating Station SCS#: 25221243.00		MW-309

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Brian Kinzer Direct Push Analytical	5/4/2022	5/4/2022	Geoprobe/HSA

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-309	854.2 Feet	857.7 Feet	8.3 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 3,481,449 N, 5,095,701 E S / C / N
NW 1/4 of NE 1/4 of Section 32, T 84 N, R 17 W
Lat 42° 2' 55.1" Long 92° 50' 56.1"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Marshall	Marshalltown

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
S1	22		1–4	CLAY, black, soft with roots and sticks and plant material (Topsoil).	CL					M				Dual core and MC5 geoprobe were used.
S2	41		4–10	LEAN CLAY, brownish gray with orange mottling and trace organics, roots, and sand throughout, soft to medium stiff.	CL					M				
S3	29		10–12	SILT, brownish gray with orange mottling, and black organic material (looks like decaying wood).	CL-ML					M				
S4	22		12–15	SILT, gray to dark gray, very soft to soft with trace organics/wood.	ML					W				

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:

08/27/2026 - Classification: Internal - ECRM13799659

Boring Number MW-309 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
S5	43		16 17 18 19 20 21	POORLY GRADED SAND, fine to coarse grained, brown to reddish brown and dark brown. Same as above but fine to mostly coarse grained, brown to dark brown with fine and trace gravel. End of boring at 21' below ground surface.	SP					W				

08/27/2026 - Classification: Internal - ECRM13799659

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: Sutherland Genterating Station — Permit No.: WP-2022-3

Well or Piezometer No.: MW-309 — Dates Started: 5/4/2022 — Date Completed: 5/4/2022

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

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

Distance and direction from boundary to surface monitoring well:

Elevation (+0.01 ft. MSL):

Ground Surface: 857.705' — Top of protective casing: 860.193'

Top of well casing: 859.954' — Benchmark elevation:

Benchmark description:

B. SOIL BORING INFORMATION

Construction Company Name: Direct Push Analytical

Address: 4N969 Old Lafox Rd Unit E — City, State, Zip Code: Saint charles, IL 60175

Name of driller: Bryan Kinzer

Drilling method: Geoprobe/HSA — Drilling fluid: None — Bore Hole diameter: 8.25"

Soil sampling method: 2" sample tubes — Depth of boring: 22'

C. MONITORING WELL INSTALLATION

Casing material: Sch. 40 PVC — Placement method: Poured/Hydrated

Length of casing: 23.19' — Volume:

Outside casing diameter: 2.4" — Backfill (if different from seal):

Inside casing diameter: 2.05" — Material:

Casing joint type: Threaded — Placement method:

Casing/screen joint type: Threaded — Volume:

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

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

Material of grout between protective casing and well casing:

Screen length: 15'

Depth of Well: 21' — Protective cap:

Filter Pack: — Material: Steel

Material: RW Sidley filter sand — Vented?: ☒ Y ☐ N — Locking?: ☒ Y ☐ N

Grain Size: #5 — Well cap:

Volume: 2.75 ft^3 (5.5 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: 5.83 — **Stabilization time:**

Well development method: Surge and purge with pump

Average depth of frost line: 4.5"

DRILLER'S CERTIFICATION

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

Signature: [signature] — **Certification #:** 0498 — **Date:** 8-23-22

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.

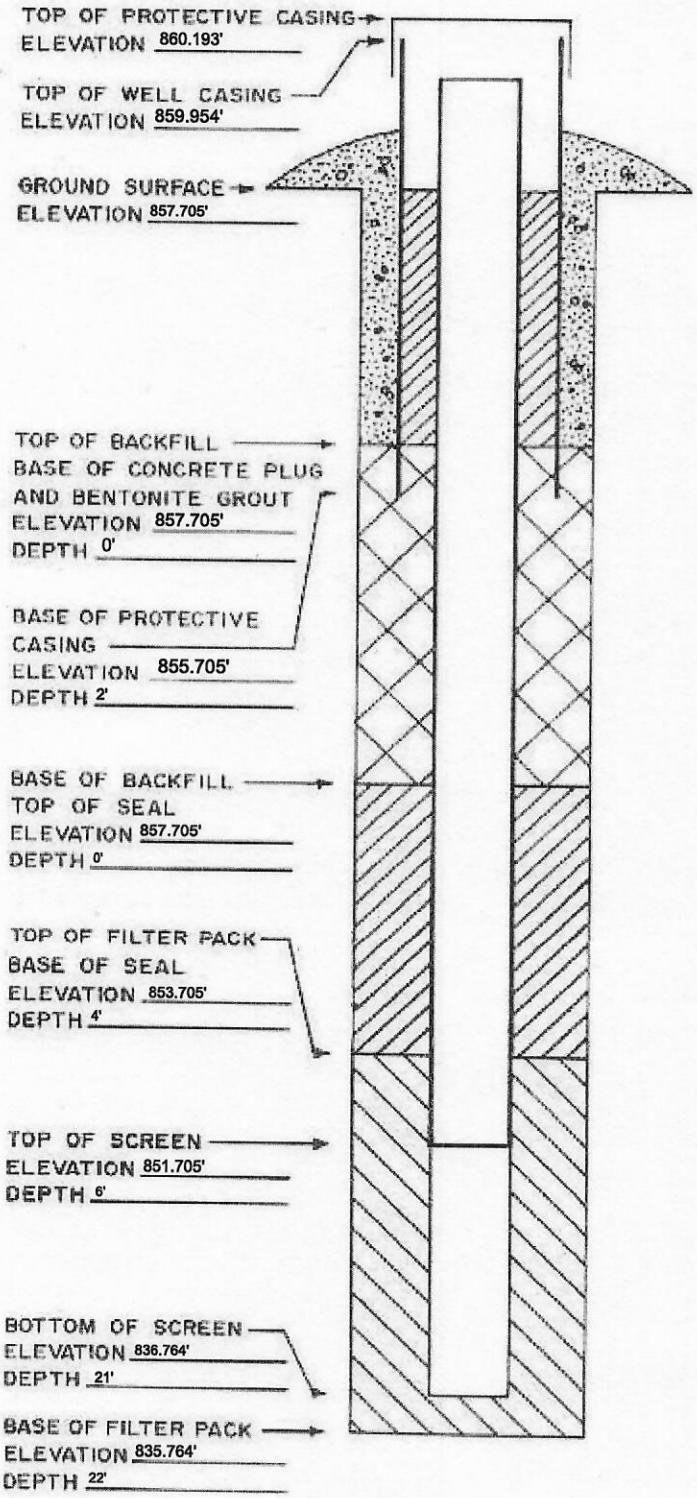
Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

08/27/2020 - Classification: Internal - ECRM13799659

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).



08/27/2026 - Classification: Internal - ECRM13799659

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
Sutherland Generating Station SCS#: 25221243.00		MW-310

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Brian Kinzer Direct Push Analytical	5/4/2022	5/4/2022	Geoprobe/HSA

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-310	851.9 Feet	858.1 Feet	8.3 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 3,481,093 N, 5,098,101 E S / C / N
NW 1/4 of NE 1/4 of Section 32, T 84 N, R 17 W

Lat 42° 2' 51.6"
Long 92° 50' 56.0"

Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Marshall	Marshalltown

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	20		1–4	CLAY, black with roots and sticks and plant material (Topsoil).						M				Dual core and MC5 geoprobe were used.
S2	22		4–8	LEAN CLAY, light brown to brown, orange mottling with trace gray, roots and fine to medium grained sand, soft.						M				
			8–10	Same as above but with trace sand and silt, soft.	CL									
S3	26		10–11	Same as above but dark gray.						M				
			12–13	SANDY SILT, dark gray, sand is fine grained, soft.	ML									
S4	36		14–15	POORLY GRADED SAND, fine to coarse grained, brown with trace orange and gravel.	SP					W				Driller noted water at 13' bgs.

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:

08/27/2026 - Classification: Internal - ECRM13799659

Boring Number MW-310 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
S5	24		16 17 18 19 20 21	POORLY GRADED SAND, fine to coarse grained, brown with trace orange and gravel. *(continued)* End of boring at 21' below ground surface.	SP					W				

08/27/2026 - Classification: Internal - ECRM13799659

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: Sutherland Genterating Station — Permit No.: WP-2022-3

Well or Piezometer No.: MW-310 — Dates Started: 5/4/2022 — Date Completed: 5/4/2022

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

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

Distance and direction from boundary to surface monitoring well:

Elevation (+0.01 ft. MSL):

Ground Surface: 858.096' — Top of protective casing: 860.925'

Top of well casing: 860.546' — Benchmark elevation:

Benchmark description:

B. SOIL BORING INFORMATION

Construction Company Name: Direct Push Analytical

Address: 4N969 Old Lafox Rd Unit E — City, State, Zip Code: Saint charles, IL 60175

Name of driller: Bryan Kinzer

Drilling method: Geoprobe/HSA — Drilling fluid: None — Bore Hole diameter: 8.25"

Soil sampling method: 2" sample tubes — Depth of boring: 22'

C. MONITORING WELL INSTALLATION

Casing material: Sch. 40 PVC

Length of casing: 23.46'

Outside casing diameter: 2.4"

Inside casing diameter: 2.05"

Casing joint type: Threaded

Casing/screen joint type: Threaded

Screen material: Sch. 40 PVC

Screen opening size: 0.01"

Screen length: 15'

Depth of Well: 21'

Filter Pack:

- Material: RW Sidley filter sand
- Grain Size: #5
- Volume: 2.75 ft^3 (5.5 bags)

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

- Material: 3/8" Bentonite chips

Placement method: Poured/Hydrated

Volume: 1, 50lbs bags

Backfill (if different from seal):

- Material:
- Placement method:
- Volume:

Surface seal design:

Material of protective casing: Steel

Material of grout between protective casing and well casing:

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: 6.74' — **Stabilization time:**

Well development method: Surge and purge with pump

Average depth of frost line: 4.5"

DRILLER'S CERTIFICATION

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

Signature: [signature] — **Certification #:** 2496 — **Date:** 8-23-22

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

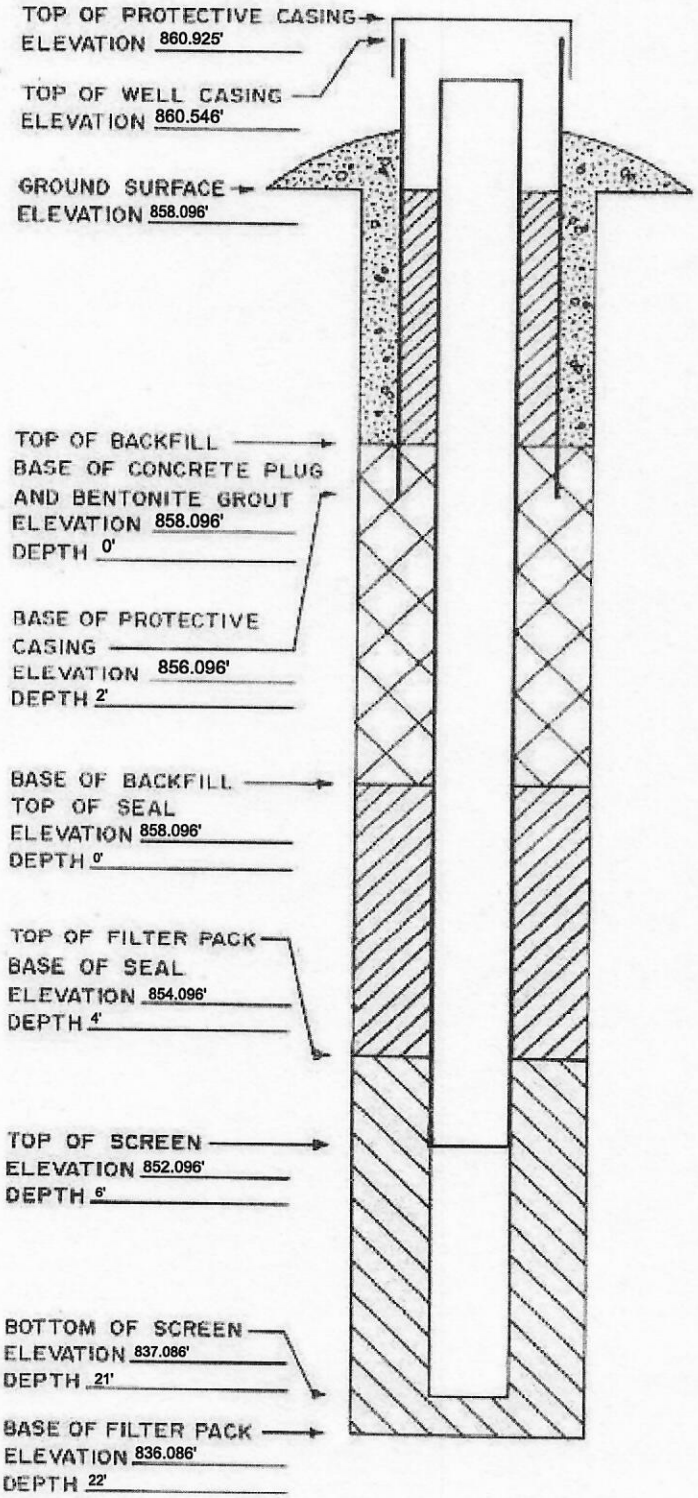
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08/27/2026 - Classification: Internal - ECRM13799659

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).



08/27/2026 - Classification: Internal - ECRM13799659

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
Sutherland Generating Station SCS#: 25221243.00		MW-311

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Brian Kinzer Direct Push Analytical	5/4/2022	5/4/2022	Geoprobe/HSA

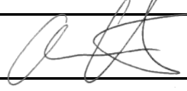
Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-311	849.6 Feet	855.3 Feet	8.3 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane 3,480,729 N, 5,098,107 E S / C / N
NW 1/4 of NE 1/4 of Section 32, T 84 N, R 17 W
Lat 42° 2' 48.0"
Long 92° 50' 56.0"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Marshall	Marshalltown

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	CLAY, black, soft with roots and sticks (Topsoil).										
S1	27		2							M				Dual core and MC5 geoprobe were used.
			3	POORLY GRADED SAND, fine to coarse grained, brown with trace fine gravel and clay.										
			4											
			5											
S2	8		6							W				Driller noted water at 4' bgs.
			7											
			8	Same as above but with more gravel, fine to coarse grained, brown to dark brown.										
			9		SP									
S3	13		10							W				
			11											
			12											
			13											
S4	18		14							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:

08/27/2026 - Classification: Internal - ECRM13799659

Boring Number MW-311 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
				POORLY GRADED SAND, fine to coarse grained, brown with trace fine gravel and clay. *(continued)*	SP									
			16	End of boring at 16' below ground surface.										

08/27/2026 - Classification: Internal - ECRM13799659

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: Sutherland Genterating Station — Permit No.: WP-2022-3

Well or Piezometer No.: MW-311 — Dates Started: 5/4/2022 — Date Completed: 5/4/2022

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

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

Distance and direction from boundary to surface monitoring well:

Elevation (+0.01 ft. MSL):

Ground Surface: 855.26' — Top of protective casing: 858.01'

Top of well casing: 857.638' — Benchmark elevation:

Benchmark description:

B. SOIL BORING INFORMATION

Construction Company Name: Direct Push Analytical

Address: 4N969 Old Lafox Rd Unit E — City, State, Zip Code: Saint charles, IL 60175

Name of driller: Bryan Kinzer

Drilling method: Geoprobe/HSA — Drilling fluid: None — Bore Hole diameter: 8.25"

Soil sampling method: 2" sample tubes — Depth of boring: 17'

C. MONITORING WELL INSTALLATION

Casing material: Sch. 40 PVC

Length of casing: 18.41'

Outside casing diameter: 2.4"

Inside casing diameter: 2.05"

Casing joint type: Threaded

Casing/screen joint type: Threaded

Screen material: Sch. 40 PVC

Screen opening size: 0.01"

Screen length: 10'

Depth of Well: 16'

Filter Pack:

- Material: RW Sidley filter sand
- Grain Size: #5
- Volume: 1 ft^3 (2 bags)

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

- Material: 3/8" Bentonite chips

Placement method: Poured/Hydrated

Volume: 1, 50lbs bags

Backfill (if different from seal):

- Material:
- Placement method:
- Volume:

Surface seal design:

Material of protective casing: Steel

Material of grout between protective casing and well casing:

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: 4.05' — **Stabilization time:**

Well development method: Surge and purge with pump

Average depth of frost line: 4.5"

DRILLER'S CERTIFICATION

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

Signature: [signature] — **Certification #:** 8496 — **Date:** 8-23-22

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

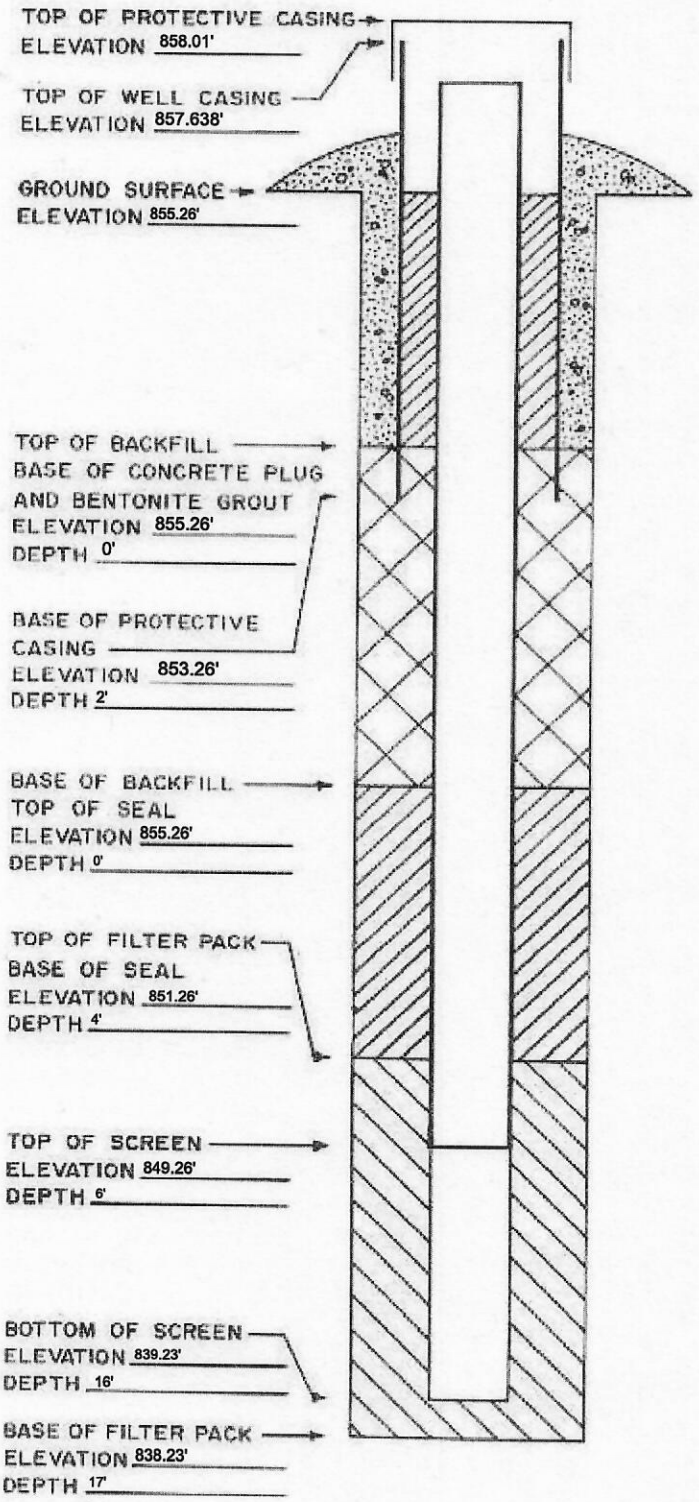
09/2017 cmc

08/27/2026 - Classification: Internal - ECRM13799659

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).



08/27/2026 - Classification: Internal - ECRM13799659

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
Sutherland Generating Station SCS#: 25222189.00		MW-312A

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
John Coons Impact 7G Inc.	12/27/2023	12/27/2023	hollow stem auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-312A	846.7 Feet	856.87 Feet	8.3 in.

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,481,266 N, 5,096,839 E S/C/N
NW 1/4 of NE 1/4 of Section 32, T 84 N, R 17 W
Lat 42° 2' 53.37"
Long 92° 51' 12.72"
Local Grid Location Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
62173	Marshall		Marshalltown

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
			1.5 3.0 4.5 6.0 7.5	POORLY GRADED SAND, fine to coarse, medium to dark brown.	SP									Blind Drilled, Soil classifications are from adjacent MW-312 boring log.
			9.0 10.5 12.0 13.5 15.0 16.5 18.0 19.5	POORLY GRADED SAND WITH GRAVEL, fine to coarse, dark brown.	SP									

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

Signature	Firm	Tel:
	SCS Engineers 2830 Dairy Drive Madison, WI. 53718	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.

08/27/2026 - Classification: Internal - ECRM13799659

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW-312A 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	U S C S	Graphic Log	Well Diagram	PID/FID	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			21.0	POORLY GRADED SAND WITH GRAVEL, fine to coarse, gray.	SP									
			22.5											
			24.0											
			25.5											
			27.0											
			28.5											
			30.0											
			31.5											
			33.0											
			34.5	GRAVEL, coarse, sub-round, many colored.	GW									
				FAT CLAY, trace fine sand and gravel, dark brown.	CH									
			36.0	End of Boring at 36'.										

08/27/2026 - Classification: Internal - ECRM13799659

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: Alliant, IPL Sutherland, ACM, IA Permit No.: 62173

Well/Piezometer No.: MW-312A Date Started: 12/27/2023 Date Completed: 12/27/2023

Applicable Requirements[1]: ☐ 567 IAC 113 ☐ 567 IAC 115 ☐ Site Permit ☐ 567 IAC 114 ☐ 567 IAC 139 ☐ Other:

A. SURVEYED LOCATION[2] AND ELEVATION OF POINT

Elevations (MSL): Ground Surface: 856.87 Top of Protective Casing: 859.960

Top of Well Casing: 859.634

Site Coordinates: Northing: 3481266.233 Easting: 5096838.532

World Coordinates: Latitude: N42° 02' 53.37" Longitude: W92° 51' 12.72"

Elevation and Coordinate Systems: Iowa North Coordinate System Geoid 18

B. SOIL BORING INFORMATION

Certified Well Contractor John Coons - Impact 7G Inc.

Address PO Box 8 City, State, Zip Code Panora, Iowa, 50216

Name of driller John Coons Cert No. 1986

Drilling method Hollow Stem Auger Drilling fluid none Bore hole diameter 8.25

Soil sampling method Blind drill adjacent to previous borehole Depth of boring 36 feet

C. MONITORING WELL INSTALLATION

Casing material: PVC

Length of casing: 30 ft

Casing diameter: 2 inch

Casing joint type: flush

Casing/screen joint type: threaded

Screen material: PVC

Screen opening size: 10 Slot

Screen length: 5 feet

Depth of Well: 35 feet

Filter Pack: 36-28'

Material: Filter Sil Sand

Grain Size: 65

Quantity: 125 lbs

Seal (minimum 3 ft. length above filter pack): 28'-3'

Material: Bentonite

Placement method: HSA

Quantity: 300 lbs

Backfill (if different from seal):

Material:

Placement method:

Quantity:

Surface seal design: concrete

Material of protective casing: Above grade pro top

Material of grout between protective casing and well casing: Bentonite

Protective cap:

Material: Steel

Vented?: ☒ Y ☐ N Locking?: ☒ Y ☐ N

Well cap:

Material: plastic with rubber cap

Vented?: ☐ Y ☒ N

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

Water level 10.16 Stabilization time < 5 minutes

Well development method surged with bailer and pumped

Average depth of frost line

[1] Refer to the site's permit to determine applicable requirements. Note that some sites may only be regulated by their permit versus current landfill chapters. If the permit and rule are silent regarding applicable requirements, then 567 IAC Chapter 39 shall apply, which requires use of the Well Log (Well Record) Form, not this form. If the applicable requirements have been modified and approved by the DNR, then note under Other.

[2] The location does not need to be surveyed by a licensed surveyor. A handheld GPS reading accurate to +/- 30 feet is acceptable when an aerial photograph showing the location (pin) is included with this form. The site coordinates should be the same coordinate system currently used for survey control and mapping of the site.

08/27/2026 - Classification: Internal - ECRM13799659

DRILLER'S CERTIFICATION

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

Signature _____ **Certification #** 1986 **Date** 5-29-24

Note: Attach well log, boring log, and map showing new monitoring well/piezometer location in relation to existing wells or piezometers.

Complete one form for each well plugged and submit within 30 days to the local county agent, DNR project officer, and Erik Day with the DNR's Water Supply Section at erik.day@dnr.iowa.gov. DNR prefers that the forms be completed and submitted electronically.

08/27/2026 - Classification: Internal - ECRM13799659

Well and Boring Logs

Elevations: ±0.01 ft. MSL

Depths: ±0.1 ft from Ground Surface

Top of protective casing (TOP)
Elevation C 859.96
Top of Well Casing (TOC)
Elevation B 859.63
Ground surface (GS)
Elevation A 856.87
Depth Use 0

Top of backfill
Base of concrete plug and bentonite grout
Elevation A-W 853.87
Depth W 3

Base of Protective Casing
Elevation C-A = 3.09
Depth PC-C-A = 26.91

Base of Backfill, Top of Seal
Elevation A-X = 853.87
Depth X 3

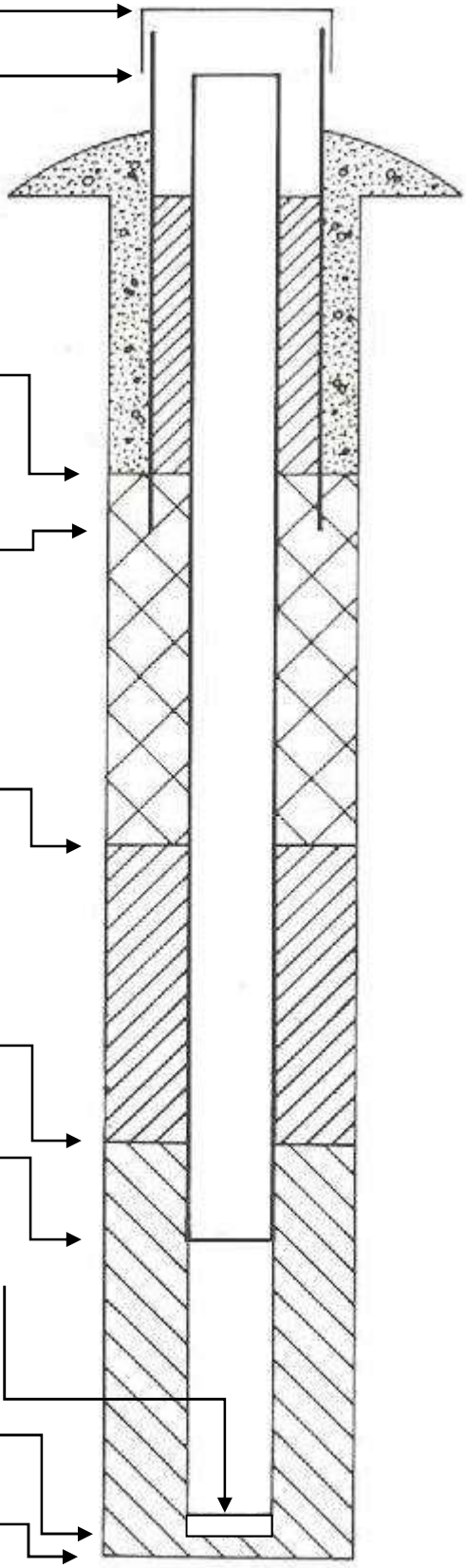
Top of Filter Pack, Base of Seal
Elevation A-Y = 828.87
Depth Y 28

Top of Screen (TOS)
Elevation B-TD-S-WP =
Depth A-TOS^{elev} = 30

Bottom of Screen (BOS)
Elevation B-TD-WP =
Depth A-BOS^{elev} = 35

Bottom of Well
Elevation 821.87
Depth 35

Bottom of Filter Pack
Elevation A-Z = 820.87
Depth Z 36



Required Data:

- Elevations for A, B, and C shall be surveyed.
- Depths for W, X, Y, and Z shall be field measured following completion of each item.
- Lengths of the Protective Casing (PC), Screen (S), and Well Point (WP) shall be field measured prior to installation of each item.
- The total Depth (TD) from the Top of Well Casing to the Bottom of Well Point shall be field measured following installation.

PC: _____ S: _____

WP: _____ TD: _____

08/27/2026 - Classification: Internal - ECRM13799659

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
Sutherland Generating Station SCS#: 25221243.00		MW-312

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Patrick Goetz Direct Push Analytical	2/21/2023	2/28/2023	hollow stem auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-312	853.63 Feet	856.82 Feet	8.25 in.

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,481,262 N, 5,096,834 E S / C / N
NW 1/4 of NE 1/4 of Section 32, T 84 N, R 17 W
Lat N42°02'53.32"
Long W92°51'12.78"
Local Grid Location Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Marshall		Marshalltown

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	19		1.5	POORLY GRADED SAND, fine to coarse grained, medium to dark brown.	SP					M				
			3.0											
			4.5											
S2	22		6.0							M				
			7.5											
			9.0	POORLY GRADED SAND WITH GRAVEL, fine to coarse grained, dark brown.										
S3	24		10.5							W				1" lense of sub-round gravel at 12'.
			12.0											
			13.5											
S4	24		15.0		SP					W				
			16.5											
S5	26		18.0							W				
			19.5											

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:

08/27/2026 - Classification: Internal - ECRM13799659

Boring Number MW-312

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
			21.0	POORLY GRADED SAND WITH GRAVEL, fine to coarse grained, gray.										
S6	24		22.5							W				
			24.0											
			25.5											
S7	24		27.0		SP					W				
			28.5											
S8	30		30.0							W				
			31.5											
			33.0											
S9	40		34.5	GRAVEL, coarse, sub-rounded, multi colored.	GW					W				
				FAT CLAY, trace fine grained sand and gravel, dark brown.	CH									
			36.0	End of Boring at 36' below ground surface.										

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: Sutherland Generating Station | Permit No.: 2023-7

Well or Piezometer No.: MW-312 | Dates Started: 2/21/2023 | Date Completed: 2/28/2023

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

Specify corner of site: SW parcel 8417-32-200-001 | Distance and direction along boundary: 18' east

Distance and direction from boundary to surface monitoring well: 283' north

Elevation (+0.01 ft. MSL): 856.82

Ground Surface: 856.82 | Top of protective casing: 860.27

Top of well casing: 859.97 | Benchmark elevation: 861.47

Benchmark description: Brass monument in concrete

B. SOIL BORING INFORMATION

Construction Company Name: Direct Push Analytical

Address: 4N969 Old Lafox Rd Unit E | City, State, Zip Code: St. Charles, IL 60175

Name of driller: Patrick Goetz

Drilling method: Hollow Stem Auger | Drilling fluid: None | Bore Hole diameter: 8.25"

Soil sampling method: Geoprobe | Depth of boring: 16'

C. MONITORING WELL INSTALLATION

Casing material: PVC | Placement method: Gravity

Length of casing: 8' | Volume: 0.75 cu ft

Outside casing diameter: 2.37 | Backfill (if different from seal): N/A

Inside casing diameter: 2.01 | Material: N/A

Casing joint type: Threaded | Placement method: N/A

Casing/screen joint type: Threaded | Volume: N/A

Screen material: 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: Yes

Filter Pack: | Material: Steel

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

Grain Size: R.W. Sidley #5 | Well cap: Yes

Volume: 0.75 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: 6.24 | **Stabilization time:**

Well development method: Surge and Purge with Pump

Average depth of frost line:

DRILLER'S CERTIFICATION

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

Signature: [signature] | **Certification #:** 6496 | **Date:** 5-8-2023

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

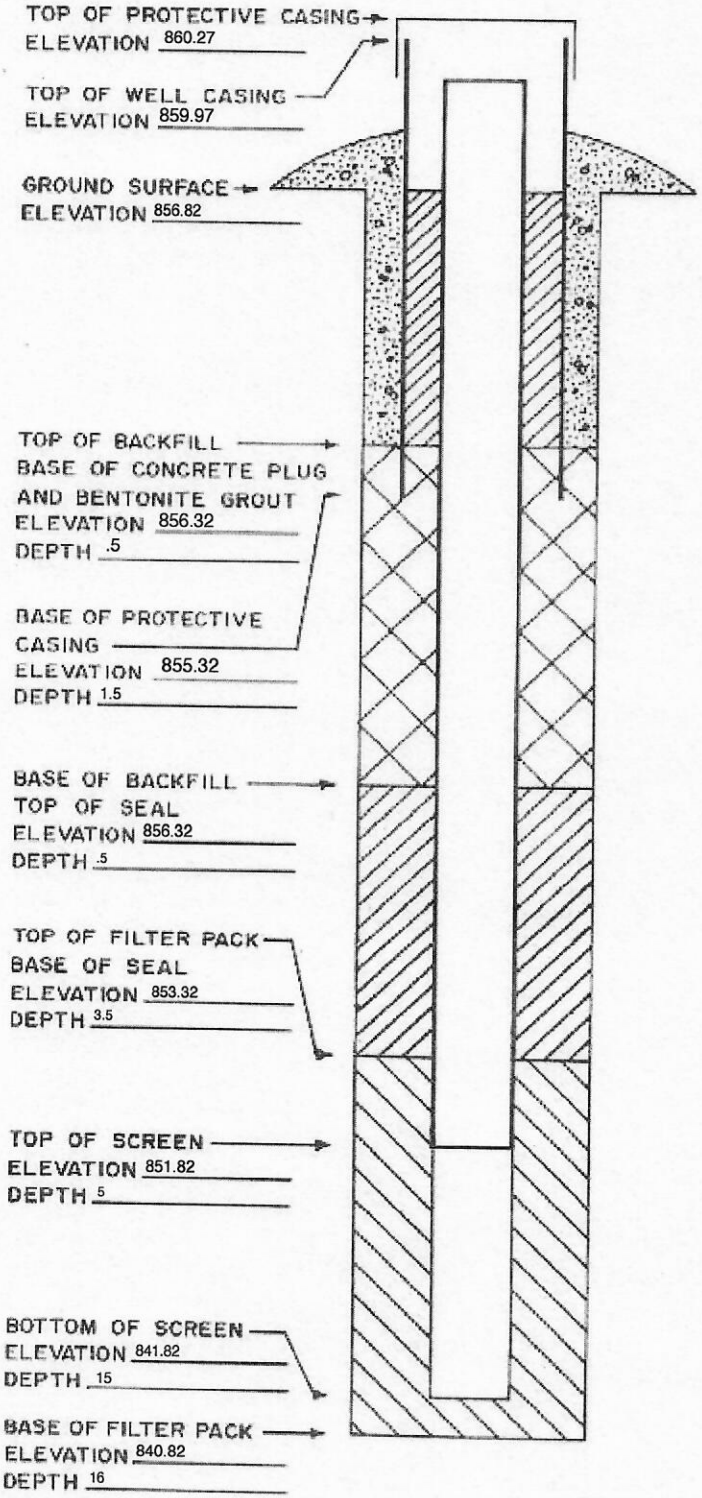
09/2017 cmc

08/27/2026 - Classification: Internal - ECRM13799659

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).



08/27/2026 - Classification: Internal - ECRM13799659

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
Sutherland Generating Station SCS#: 25221243.00		MW-313

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Patrick Goetz Direct Push Analytical	2/28/2023	2/28/2023	hollow stem auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-313	854.69 Feet	858.55 Feet	8.25 in.

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,481,607 N, 5,097,023 E S / C / N
NW 1/4 of NE 1/4 of Section 32 , T 84 N, R 17 W
Lat N42°02'56.72" Long W92°51'10.24"
Local Grid Location Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Marshall		Marshalltown

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
			0	SANDY SILT, black, with roots.	ML									
S1	18		1.5	POORLY GRADED SAND, fine to coarse grained, medium brown, trace fine to coarse gravel.	SP									
			3.0	FAT CLAY, tan to dark brown.	CH					M				
S2	27		4.5							M				
			6.0											
			7.5	SILTY SAND, gray, fine to coarse grained.	SM									Depth to water at 8' bgs.
S3	31		9.0	POORLY GRADED SAND, fine to medium grained, light brown.	SP					W				
			10.5											
			12.0											
S4	16		13.5	POORLY GRADED SAND, fine to coarse grained, light brown, with fine to coarse gravel.						W				
			15.0											
			16.5		SP									
S5	22		18.0							W				
			19.5											

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:

08/27/2026 - Classification: Internal - ECRM13799659

Boring Number MW-313 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	U S C S	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
			21.0											
S6	31		22.5		SP					W				
			24.0											
S7	13		25.5							W				
				End of Boring at 26' below ground surface.										

08/27/2026 - Classification: Internal - ECRM13799659

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: Sutherland Generating Station | Permit No.: 2023-7

Well or Piezometer No.: MW-313 | Dates Started: 2/28/2023 | Date Completed: 2/28/2023

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

Specify corner of site: N parcel 8417-32-200-001 | Distance and direction along boundary: 85' south

Distance and direction from boundary to surface monitoring well: 217' east

Elevation (+0.01 ft. MSL)

Ground Surface: 858.55 | Top of protective casing: 861.59

Top of well casing: 861.25 | Benchmark elevation: 861.47

Benchmark description: Brass monument in concrete

B. SOIL BORING INFORMATION

Construction Company Name: Direct Push Analytical

Address: 4N969 Old Lafox Rd Unit E | City, State, Zip Code: St. Charles, IL 60175

Name of driller: Patrick Goetz

Drilling method: Hollow Stem Auger | Drilling fluid: None | Bore Hole diameter: 8.25"

Soil sampling method: Geoprobe | Depth of boring: 17'

C. MONITORING WELL INSTALLATION

Casing material: PVC

Length of casing: 9'

Outside casing diameter: 2.37

Inside casing diameter: 2.01

Casing joint type: Threaded

Casing/screen joint type: Threaded

Screen material: PVC

Screen opening size: 0.010"

Screen length: 10'

Depth of Well: 16'

Filter Pack:

- Material: Sand
- Grain Size: R.W. Sidley #5
- Volume: 2 cu ft

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

- Material: 3/8" Bentonite Chips

Placement method: Gravity

Volume: 1 cu ft

Backfill (if different from seal): N/A

- Material: N/A
- Placement method: N/A
- Volume: N/A

Surface seal design:

Material of protective casing: Steel

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

Protective cap: Yes

- Material: Steel
- Vented?: ☐ Y ☒ N Locking?: ☒ Y ☐ N

Well cap: Yes

- Material: Plastic
- Vented?: ☐ Y ☒ N

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

Water level: 6.56' | **Stabilization time:**

Well development method: Surge and Purge with Pump

Average depth of frost line:

DRILLER'S CERTIFICATION

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

Signature: [signature] **Certification #:** 0498 **Date:** 5-6-23

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

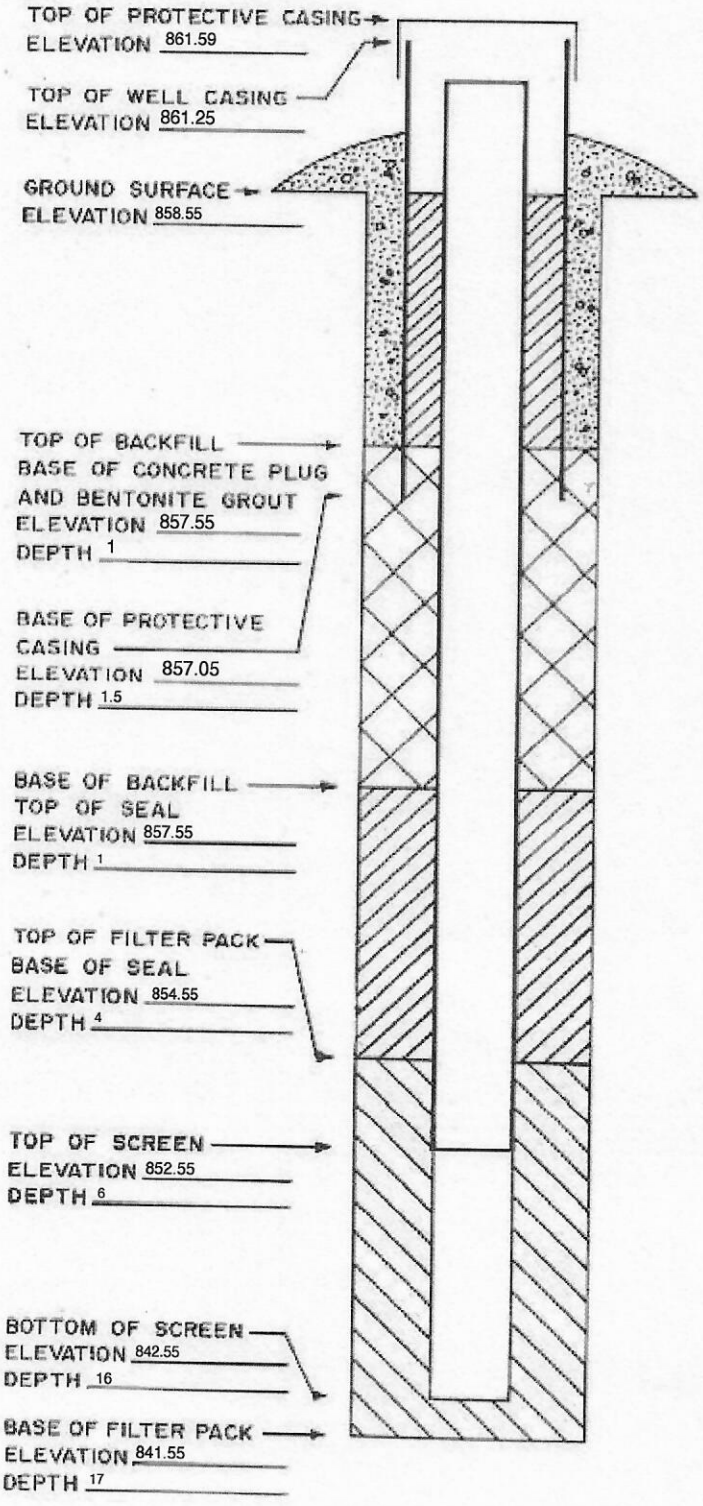
09/2017 cmc

08/27/2026 - Classification: Internal - ECRM13799659

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).



08/27/2026 - Classification: Internal - ECRM13799659

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
Sutherland Generating Station SCS#: 25221243.00		MW-314

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Patrick Goetz Direct Push Analytical	3/1/2023	3/1/2023	hollow stem auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-314	854.20 Feet	856.75 Feet	8.25 in.

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,481,452 N, 5,097,441 E S / C / N
NW 1/4 of NE 1/4 of Section 32 , T 84 N, R 17 W
Lat N42°02'55.15"
Long W92°51'04.72"
Local Grid Location Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Marshall		Marshalltown

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
			0	SANDY SILT, dark brown.	ML									
S1	28		1.5	SILTY SAND, fine grained, light brown.	SM					M				Depth to water at 4' bgs.
			3.0											
			4.5	POORLY GRADED SAND, fine to coarse grained, medium brown.										
S2	18		6.0		SP					M				
			7.5											
			9.0	POORLY GRADED SAND, fine to coarse grained, medium brown, trace fine gravel.										
S3	14		10.5		SP					W				
			12.0	POORLY GRADED SAND, fine to coarse grained, medium brown, trace fine to coarse gravel.										
S4	27		13.5							W				
			15.0		SP									
			16.5											
S5	24		18.0							W				
			19.5											

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:

08/27/2026 - Classification: Internal - ECRM13799659

Boring Number MW-314 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
			21.0											
S6	20		22.5							W				
			24.0		SP									
			25.5											
S7	32		27.0							W				
				FAT CLAY, dark brown, trace fine grained sand.										
			28.5											
S8	44		30.0		CH					W				
			31.5											
				End of Boring at 32' below ground surface.										

08/27/2026 - Classification: Internal - ECRM13799659

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: Sutherland Generating Station | Permit No.: 2023-7

Well or Piezometer No.: MW-314 | Dates Started: 3/1/2023 | Date Completed: 3/1/2023

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

Specify corner of site: NW parcel 8417-32-200-002 | Distance and direction along boundary: 121' south

Distance and direction from boundary to surface monitoring well: 72' east

Elevation (+0.01 ft. MSL): 856.75

Ground Surface: 856.75 | Top of protective casing: 859.82

Top of well casing: 859.57 | Benchmark elevation: 861.47

Benchmark description: Brass monument in concrete

B. SOIL BORING INFORMATION

Construction Company Name: Direct Push Analytical

Address: 4N969 Old Lafox Rd Unit E | City, State, Zip Code: St. Charles, IL 60175

Name of driller: Patrick Goetz

Drilling method: Hollow Stem Auger | Drilling fluid: None | Bore Hole diameter: 8.25"

Soil sampling method: Geoprobe | Depth of boring: 16'

C. MONITORING WELL INSTALLATION

Casing material: PVC | Placement method: Gravity

Length of casing: 8' | Volume: 1 cu ft

Outside casing diameter: 2.37 | Backfill (if different from seal): N/A

Inside casing diameter: 2.01 | Material: N/A

Casing joint type: Threaded | Placement method: N/A

Casing/screen joint type: Threaded | Volume: N/A

Screen material: 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' | Protective cap: Yes

Depth of Well: 15' | Material: Steel

Filter Pack: | Vented?: ☐ Y ☒ N | Locking?: ☒ Y ☐ N

Material: Sand | Well cap: Yes

Grain Size: R.W. Sidley #5 | Material: Plastic

Volume: 1.5 cu ft | Vented?: ☐ Y ☒ N

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

Material: 3/8" Bentonite Chips

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

Water level: 5.37' | **Stabilization time**:

Well development method: Surge and Purge with Pump

Average depth of frost line:

DRILLER'S CERTIFICATION

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

Signature: [signature] | **Certification #**: 6496 | **Date**: 5-8-23

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.

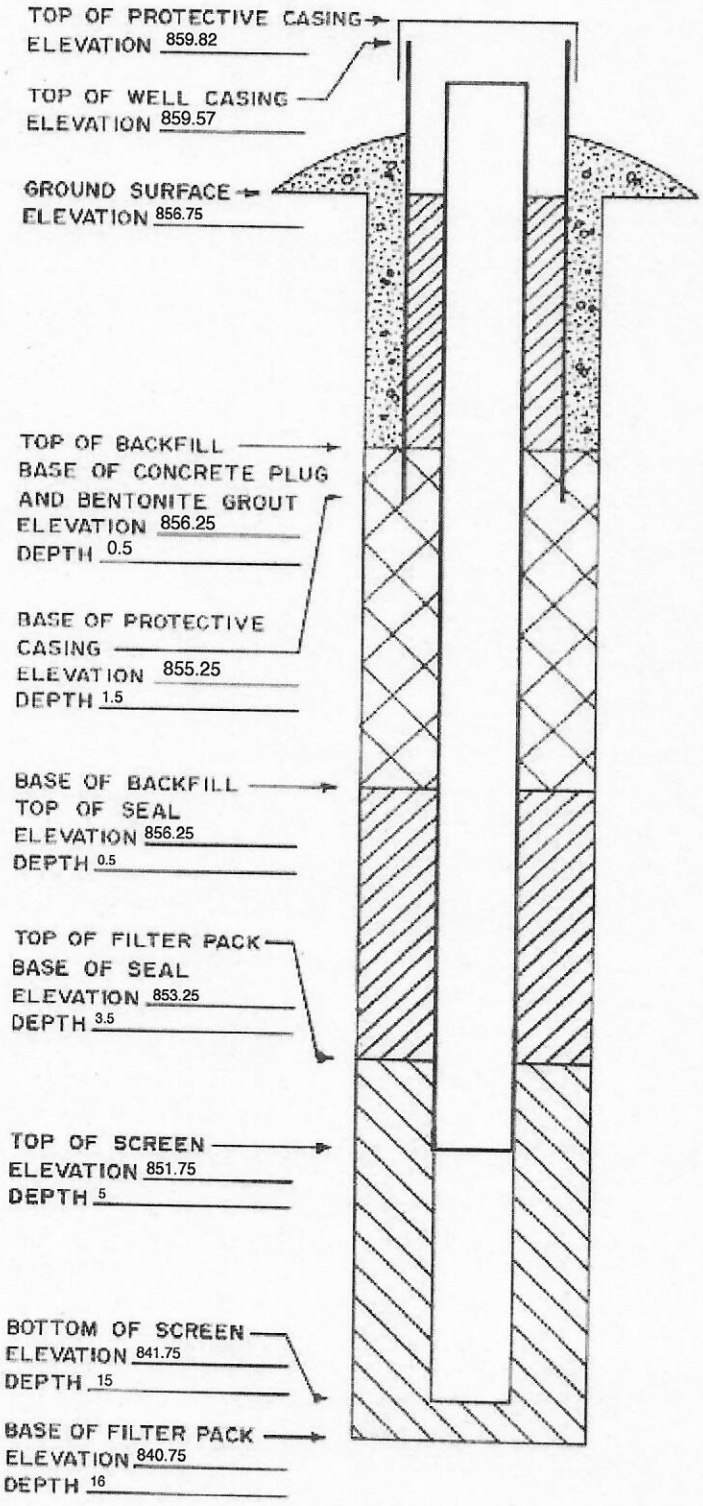
Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

08/27/2026 - Classification: Internal - ECRM13799659

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).



08/27/2026 - Classification: Internal - ECRM13799659

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
Alliant, SGS Full Scale Pump Test, IA SCS#: 25225164.00		PW-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Adam Jochimson Cascade Drilling	7/8/2025	7/8/2025	Roto-Sonic

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		PW-1	855.5 Feet MSL	856.4 Feet MSL	10.3 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,481,373 N, 5,096,835 E S / C / N
NW 1/4 of NE 1/4 of Section 32, T 84 N, R 17 W
Lat 42° 2' 54.4"
Long 92° 51' 12.8"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Marshall	Marshalltown

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	SANDY SILTY CLAY, very dark brown to black, trace fine gravel and roots, sand is orange, fine to coarse grained.	CL-ML									
S1	61		3	LEAN CLAY, very dark gray to gray to gray brown (gradient downward), trace roots and black mottling.	CL				1.0/1.75	M/W				Very little water used while drilling
			4	POORLY GRADED SAND, fine grained, light brown to brown, with trace silt from 3.5 to 5' bgs.										
			5	Same as above but no silt, fine to coarse grained sand, with fine to medium subrounded gravel, coarsening downward.										
S2	46		8		SP					W				
			10	Same as above but dark brown, trace gravel										
S3	48		13							W				
			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 2830 Dairy Dr, Madison, WI. 53718	Fax:

08/27/2026 - Classification: Internal - ECRM13799659

Boring Number PW-1 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	POORLY GRADED SAND, fine grained, light brown to brown, with trace silt from 3.5 to 5' bgs. *(continued)* Same as above but with 2; layer of sandy subrounded gravel from 15.5-17.5' and trace orangish brown sand and course gravel.										
			17											
S4	52		18		SP					W				
			19											
			20											
			21	End of boring at 21' below ground surface. Constructed well from 21' below ground surface.										

08/27/2026 - Classification: Internal - ECRM13799659

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: Alliant, SGS Full Scale Pump Test, IA Permit No.: 64682

Well/Piezometer No.: PW-1 Date Started: 7/8/2025 Date Completed: 7/8/2025

Applicable Requirements[1]: ☐ 567 IAC 113 ☐ 567 IAC 115 ☐ Site Permit ☐ 567 IAC 114 ☐ 567 IAC 139 ☐ Other:

A. SURVEYED LOCATION[2] AND ELEVATION OF POINT

Elevations (MSL): Ground Surface: 856.38 Top of Protective Casing: 859.16

Top of Well Casing: 858.81

Site Coordinates: Northing: 3481372.504 Easting: 5096834.775

World Coordinates: Latitude: 42 2 54.42 Longitude: 92 51 12.76

Elevation and Coordinate Systems:

B. SOIL BORING INFORMATION

Certified Well Contractor Cascade Drilling

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

Name of driller Adam Jochimson Cert No.

Drilling method Roto Sonic Drilling fluid Water Bore hole diameter 10.25"

Soil sampling method Bagged Depth of boring 21'

C. MONITORING WELL INSTALLATION

Casing material: Sch. 40 PVC

Length of casing: 18.04'

Casing diameter: 6.63"

Casing joint type: Threaded

Casing/screen joint type: Threaded

Screen material: Sch. 40 PVC

Screen opening size: 0.01

Screen length: 15"

Depth of Well: 19.2'

Filter Pack: Filter Sand

Material: Red Flint Filter Sand

Grain Size: #40

Quantity: 3.5 ft^3

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

Material: 3/8" Bentonite Chips

Placement method: Poured

Quantity: 2, 50 lbs bags

Backfill (if different from seal): None

Material:

Placement method:

Quantity:

Surface seal design: Stick-up

Material of protective casing: Steel

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

Protective cap: Royer cap

Material: Aluminum

Vented?: ☒ Y ☐ N Locking?: ☒ Y ☐ N

Well cap: Expanding well plug

Material: Plastic and Rubber

Vented?: ☐ Y ☒ N

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

Water level 3.27 Stabilization time 10 minutes

Well development method Surge and purge/pumped

Average depth of frost line 5'

[1] Refer to the site's permit to determine applicable requirements. Note that some sites may only be regulated by their permit versus current landfill chapters. If the permit and rule are silent regarding applicable requirements, then 567 IAC Chapter 39 shall apply, which requires use of the Well Log (Well Record) Form, not this form. If the applicable requirements have been modified and approved by the DNR, then note under Other.

[2] The location does not need to be surveyed by a licensed surveyor. A handheld GPS reading accurate to +/- 30 feet is acceptable when an aerial photograph showing the location (pin) is included with this form. The site coordinates should be the same coordinate system currently used for survey control and mapping of the site.

08/27/2026 - Classification: Internal - ECRM13799659

DRILLER'S CERTIFICATION

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

Signature Paul Dickinson Signer ID: YUQG0IER15 **Certification #** 9361 **Date** 7/8/2025

Note: Attach well log, boring log, and map showing new monitoring well/piezometer location in relation to existing wells or piezometers.

Complete one form for each well plugged and submit within 30 days to the local county agent, DNR project officer, and Erik Day with the DNR's Water Supply Section at erik.day@dnr.iowa.gov. DNR prefers that the forms be completed and submitted electronically.

08/27/2026 - Classification: Internal - ECRM13799659

Well and Boring Logs

Elevations: ±0.01 ft. MSL

Depths: ±0.1 ft from Ground Surface

Top of protective casing (TOP)
Elevation C 859.16
Top of Well Casing (TOC)
Elevation B 858.81
Ground surface (GS)
Elevation A 856.38
Depth Use 0

Top of backfill
Base of concrete plug and bentonite grout
Elevation A-W 856.38
Depth W 0'

Base of Protective Casing
Elevation C-A = 854.38
Depth PC-C-A = 2'

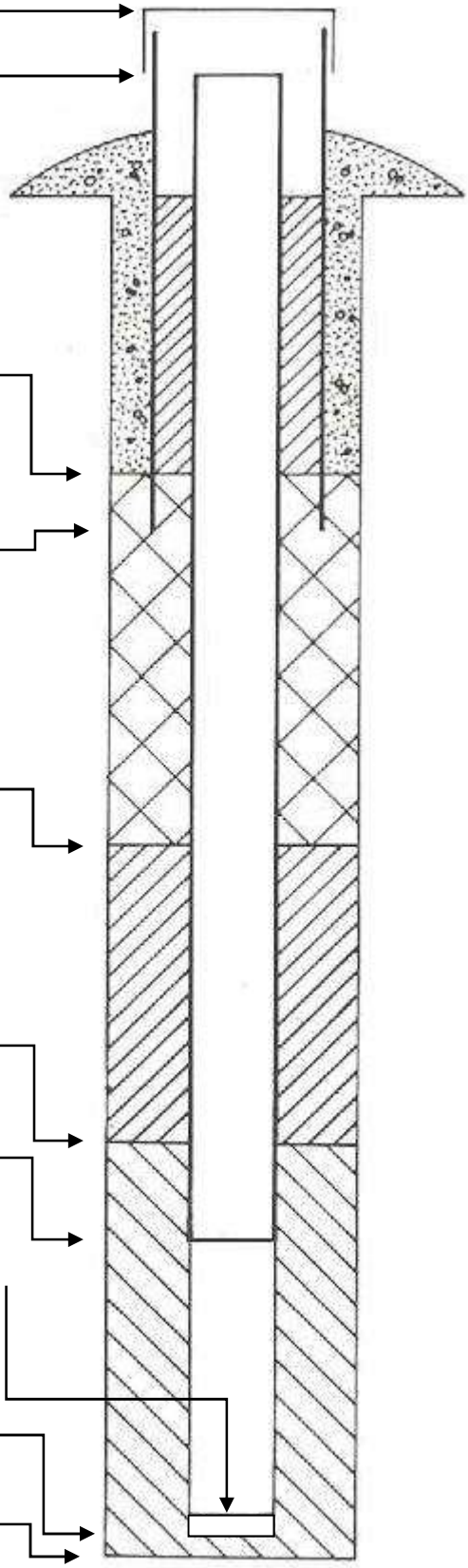
Base of Backfill, Top of Seal
Elevation A-X = 856.38
Depth X 0'

Top of Filter Pack, Base of Seal
Elevation A-Y = 852.38
Depth Y 4'

Top of Screen (TOS)
Elevation B-TD-S-WP = 851.18
Depth A-TOS^{elev} = 5.2'

Bottom of Screen (BOS)
Elevation B-TD-WP = 837.18
Depth A-BOS^{elev} = 19.2'
Bottom of Well
Elevation 837.18
Depth 19.2'

Bottom of Filter Pack
Elevation A-Z = 835.38
Depth Z 21'



Required Data:

- Elevations for A, B, and C shall be surveyed.
- Depths for W, X, Y, and Z shall be field measured following completion of each item.
- Lengths of the Protective Casing (PC), Screen (S), and Well Point (WP) shall be field measured prior to installation of each item.
- The total Depth (TD) from the Top of Well Casing to the Bottom of Well Point shall be field measured following installation.

PC: 5 S: 15
WP: TD: 835.38

08/27/2026 - Classification: Internal - ECRM13799659

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
Alliant, SGS Full Scale Pump Test, IA SCS#: 25225164.00		OW-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Adam Jochimson Cascade Drilling	7/8/2025	7/8/2025	Roto-Sonic

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		OW-1	855.6 Feet MSL	857.2 Feet MSL	6.0 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,481,423 N, 5,096,832 E S / C / N
NW 1/4 of NE 1/4 of Section 32, T 84 N, R 17 W
Lat 42° 2' 54.9"
Long 92° 51' 12.8"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Marshall	Marshalltown

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	SANDY SILT, very dark gray, sand is fine grained with trace fine to medium subrounded gravel, roots, and pieces of coal. (Topsoil)	ML									
			2	LEAN CLAY, dark gray to very dark gray, trace roots, medium firm.										
S1	40		3						0.5-1.5	W				Water used while drilling.
			4		CL									
			5	Same as above with trace fine grained sand.										
			6											
			7	POORLY GRADED SAND, fine to medium grained, tan to light brown with trace fine to medium subrounded gravel and clay.										
S2	28		8						0.5	W				
			9											
			10	Same as above but sand is fine to coarse grained.										
			11		SP									
			12											
S3	46		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:
	SCS Engineers 2830 Dairy Dr, Madison, WI. 53718	Fax:

08/27/2026 - Classification: Internal - ECRM13799659

Boring Number OW-1 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
			16		SP									
				End of boring at 16' below ground surface.										
				Constructed well from 15' below ground surface.										

08/27/2026 - Classification: Internal - ECRM13799659

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: Alliant, SGS Full Scale Pump Test, IA Permit No.: 64683

Well/Piezometer No.: OW-1 Date Started: 7/8/2025 Date Completed: 7/8/2025

Applicable Requirements[1]: ☐ 567 IAC 113 ☐ 567 IAC 115 ☐ Site Permit ☐ 567 IAC 114 ☐ 567 IAC 139 ☐ Other:

A. SURVEYED LOCATION[2] AND ELEVATION OF POINT

Elevations (MSL): Ground Surface: 857.15 Top of Protective Casing: 859.85

Top of Well Casing: 859.55

Site Coordinates: Northing: 3481423.017 Easting: 5096832.419

World Coordinates: Latitude: 42 2 54.91 Longitude: 92 51 12.79

Elevation and Coordinate Systems:

B. SOIL BORING INFORMATION

Certified Well Contractor Cascade Drilling

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

Name of driller Adam Jochimson Cert No.

Drilling method Roto Sonic Drilling fluid Water Bore hole diameter 6"

Soil sampling method Bagged Depth of boring 16'

C. MONITORING WELL INSTALLATION

Casing material: Sch. 40 PVC

Length of casing: 17.44'

Casing diameter: 2.4"

Casing joint type: Threaded

Casing/screen joint type: Threaded

Screen material: Sch. 40 PVC

Screen opening size: 0.01

Screen length: 10"

Depth of Well: 15.14'

Filter Pack: Filter Sand

Material: Red Flint Filter Sand

Grain Size: #40

Quantity: 1.75 ft^3

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

Material: 3/8" Bentonite Chips

Placement method: Poured

Quantity: 2, 50 lbs bags

Backfill (if different from seal): None

Material:

Placement method:

Quantity:

Surface seal design: Stick-up

Material of protective casing: Steel

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

Protective cap: Royer cap

Material: Aluminum

Vented?: ☒ Y ☐ N Locking?: ☒ Y ☐ N

Well cap: Expanding well plug

Material: Plastic and Rubber

Vented?: ☐ Y ☒ N

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

Water level 4.0' Stabilization time 10 minutes

Well development method Surge and purge/pumped

Average depth of frost line 5'

[1] Refer to the site's permit to determine applicable requirements. Note that some sites may only be regulated by their permit versus current landfill chapters. If the permit and rule are silent regarding applicable requirements, then 567 IAC Chapter 39 shall apply, which requires use of the Well Log (Well Record) Form, not this form. If the applicable requirements have been modified and approved by the DNR, then note under Other.

[2] The location does not need to be surveyed by a licensed surveyor. A handheld GPS reading accurate to +/- 30 feet is acceptable when an aerial photograph showing the location (pin) is included with this form. The site coordinates should be the same coordinate system currently used for survey control and mapping of the site.

08/27/2026 - Classification: Internal - ECRM13799659

DRILLER'S CERTIFICATION

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

Signature Paul Dickinson Signer ID: YUOG0IER15 **Certification #** 9361 **Date** 7/8/2025

Note: Attach well log, boring log, and map showing new monitoring well/piezometer location in relation to existing wells or piezometers.

Complete one form for each well plugged and submit within 30 days to the local county agent, DNR project officer, and Erik Day with the DNR's Water Supply Section at erik.day@dnr.iowa.gov. DNR prefers that the forms be completed and submitted electronically.

08/27/2026 - Classification: Internal - ECRM13799659

Well and Boring Logs

Elevations: ±0.01 ft. MSL

Depths: ±0.1 ft from Ground Surface

Top of protective casing (TOP)
Elevation C 859.85
Top of Well Casing (TOC)
Elevation B 859.55
Ground surface (GS)
Elevation A 857.2
Depth Use 0

Top of backfill
Base of concrete plug and bentonite grout
Elevation A-W 857.2
Depth W 0'

Base of Protective Casing
Elevation C-A = 855.2
Depth PC-C-A = 2'

Base of Backfill, Top of Seal
Elevation A-X = 857.2
Depth X 0'

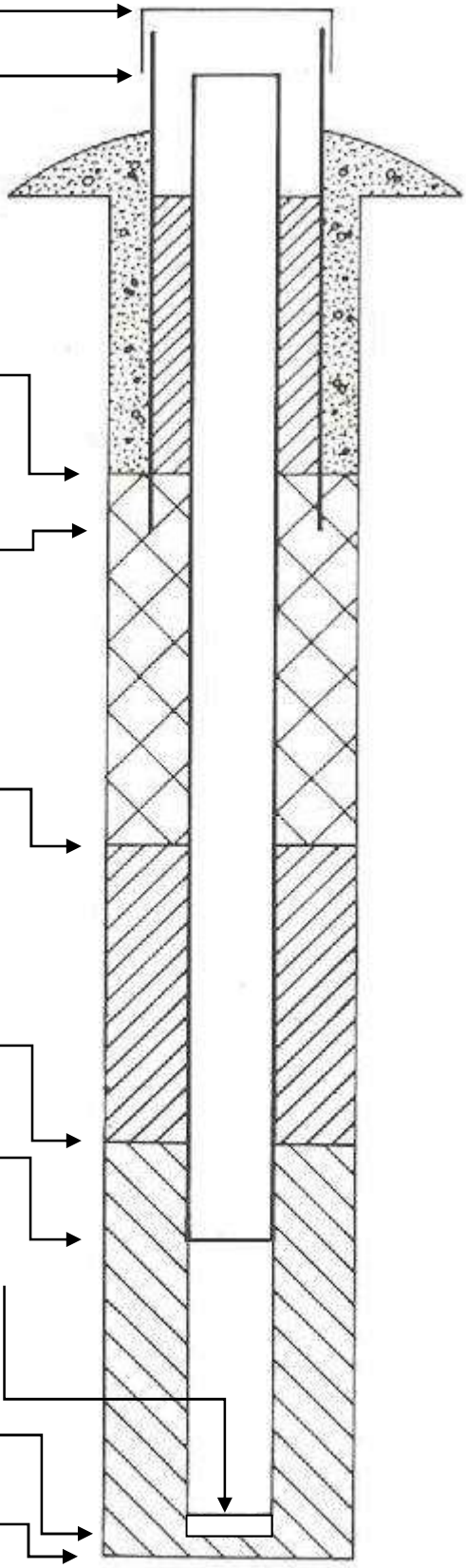
Top of Filter Pack, Base of Seal
Elevation A-Y = 853.2
Depth Y 4'

Top of Screen (TOS)
Elevation B-TD-S-WP = 842.05
Depth A-TOS^{elev} = 5.15'

Bottom of Screen (BOS)
Elevation B-TD-WP = 842.05
Depth A-BOS^{elev} = 15.15'

Bottom of Well
Elevation 842.05
Depth 15.15'

Bottom of Filter Pack
Elevation A-Z = 841.92
Depth Z 16'

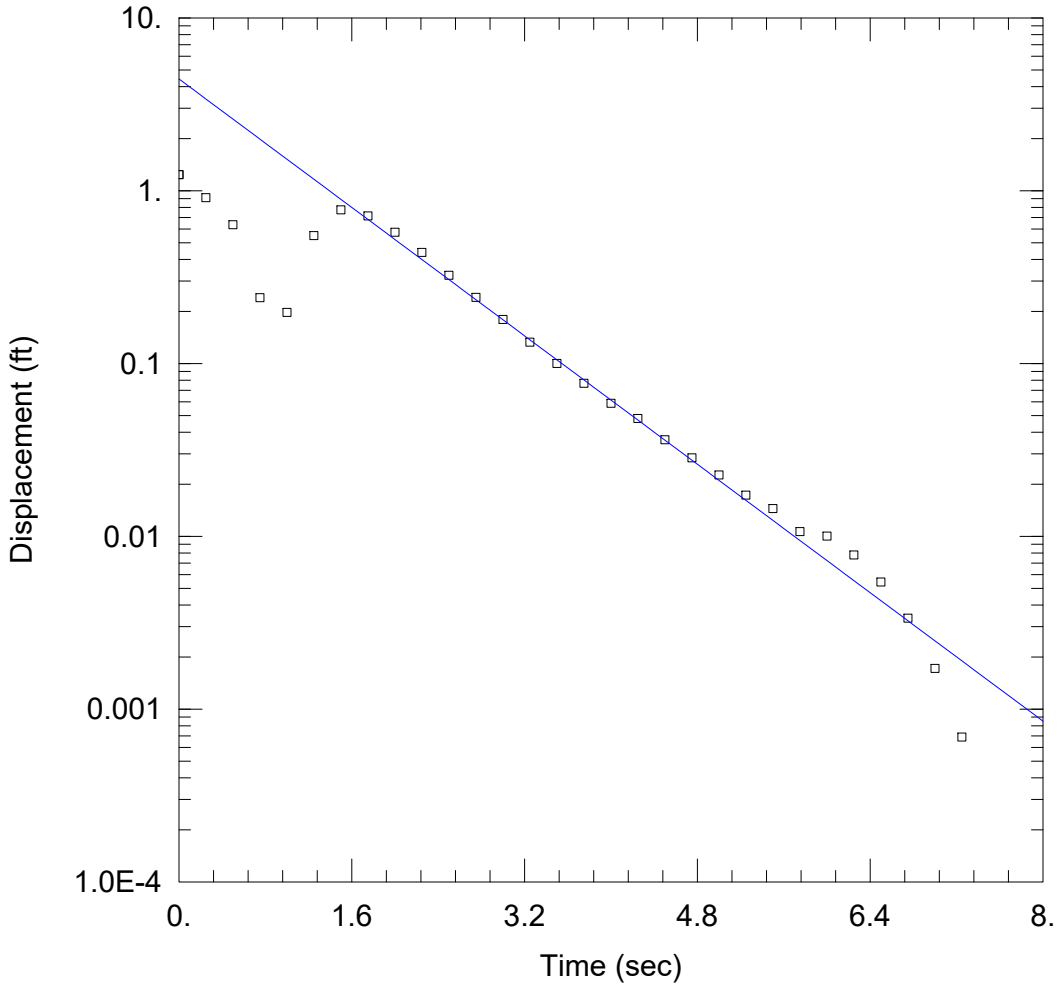


Required Data:

- Elevations for A, B, and C shall be surveyed.
- Depths for W, X, Y, and Z shall be field measured following completion of each item.
- Lengths of the Protective Casing (PC), Screen (S), and Well Point (WP) shall be field measured prior to installation of each item.
- The total Depth (TD) from the Top of Well Casing to the Bottom of Well Point shall be field measured following installation.

PC: 5 S: 10
WP: TD: 841.92

08/27/2026 - Classification: Internal - ECRM13799659



WELL TEST ANALYSIS

Data Set: I:\25225164.00\Data and Calculations\K Tests & Development\250709_OW-1.aqt
Date: 07/09/25 Time: 18:21:21

PROJECT INFORMATION

Company: SCS Engineers
Client: IPL
Project: 25225164
Location: Marshalltown, Iowa
Test Well: OW-1
Test Date: 7/9/2025

AQUIFER DATA

Saturated Thickness: 50. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (OW-1)

Initial Displacement: 1.24 ft
Total Well Penetration Depth: 13.44 ft
Casing Radius: 0.09 ft
Static Water Column Height: 13.44 ft
Screen Length: 10. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.1794 cm/sec
y0 = 4.432 ft

08/27/2026 - Classification: Internal - ECRM13799659

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
Alliant, SGS Full Scale Pump Test, IA SCS#: 25225164.00		OW-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Adam Jochimson Cascade Drilling	7/8/2025	7/8/2025	Roto-Sonic

Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		OW-2	855.6 Feet MSL	855.9 Feet MSL	6.0 in

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 3,481,321 N, 5,096,836 E S / C / N
NW 1/4 of NE 1/4 of Section 32, T 84 N, R 17 W
Lat 42° 2' 53.9" Long 92° 51' 12.8"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	Civil Town/City/ or Village
	Marshall	Marshalltown

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	CLAYEY SILT, very dark brown to black with roots and trace fine grained sand and fine gravel.	CL-ML									
S1	62		3	LEAN CLAY, light gray to gray with black mottling with trace fine grained orange sand, medium firm.	CL				2.0/1.75	M/W				Some water used while drilling
			5	POORLY GRADED SAND, fine to coarse grained, brown, trace clay and fine subrounded gravel. Same as above but brown to strong brown, fine to trace course subrounded gravel, no clay.										
S2	48		8							W				
			10	Same as above but with color change at 12' to brown - orangish brown.	SP									
S3	43		13							W				
			14	Sand and gravel are courser at bottom of sample.										

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

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

08/27/2026 - Classification: Internal - ECRM13799659

Boring Number OW-2 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
				POORLY GRADED SAND, fine to coarse grained, brown, trace clay and fine subrounded gravel. *(continued)*	SP									
			16	End of boring at 16' below ground surface.										
				Constructed well from 15' below ground surface.										

08/27/2026 - Classification: Internal - ECRM13799659

MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: Alliant, SGS Full Scale Pump Test, IA Permit No.: 64713

Well/Piezometer No.: OW-2 Date Started: 7/8/2025 Date Completed: 7/8/2025

Applicable Requirements[1]: ☐ 567 IAC 113 ☐ 567 IAC 115 ☐ Site Permit ☐ 567 IAC 114 ☐ 567 IAC 139 ☐ Other:

A. SURVEYED LOCATION[2] AND ELEVATION OF POINT

Elevations (MSL): Ground Surface: 855.93 Top of Protective Casing: 858.66

Top of Well Casing: 858.39

Site Coordinates: Northing: 3481320.637 Easting: 5096836.224

World Coordinates: Latitude: 42 2 53.9 Longitude: 92 51 12.75

Elevation and Coordinate Systems:

B. SOIL BORING INFORMATION

Certified Well Contractor Cascade Drilling

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

Name of driller Adam Jochimson Cert No.

Drilling method Roto Sonic Drilling fluid Water Bore hole diameter 6"

Soil sampling method Bagged Depth of boring 16'

C. MONITORING WELL INSTALLATION

Casing material: Sch. 40 PVC

Length of casing: 18.04'

Casing diameter: 2.4"

Casing joint type: Threaded

Casing/screen joint type: Threaded

Screen material: Sch. 40 PVC

Screen opening size: 0.01

Screen length: 10"

Depth of Well: 15.64'

Filter Pack: Filter Sand

Material: Red Flint Filter Sand

Grain Size: #40

Quantity: 1.5 ft^3

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

Material: 3/8" Bentonite Chips

Placement method: Poured

Quantity: 2, 50 lbs bags

Backfill (if different from seal): None

Material:

Placement method:

Quantity:

Surface seal design: Stick-up

Material of protective casing: Steel

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

Protective cap: Royer cap

Material: Aluminum

Vented?: ☒ Y ☐ N Locking?: ☒ Y ☐ N

Well cap: Expanding well plug

Material: Plastic and Rubber

Vented?: ☐ Y ☒ N

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

Water level 2.86' Stabilization time 10 minutes

Well development method Surge and purge/pumped

Average depth of frost line 5'

[1] Refer to the site's permit to determine applicable requirements. Note that some sites may only be regulated by their permit versus current landfill chapters. If the permit and rule are silent regarding applicable requirements, then 567 IAC Chapter 39 shall apply, which requires use of the Well Log (Well Record) Form, not this form. If the applicable requirements have been modified and approved by the DNR, then note under Other.

[2] The location does not need to be surveyed by a licensed surveyor. A handheld GPS reading accurate to +/- 30 feet is acceptable when an aerial photograph showing the location (pin) is included with this form. The site coordinates should be the same coordinate system currently used for survey control and mapping of the site.

08/27/2026 - Classification: Internal - ECRM13799659

DRILLER'S CERTIFICATION

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

Signature Paul Dickinson Signer ID: XUQC0IFR15 **Certification #** 9361 **Date** 7/8/2025

Note: Attach well log/boring log, and map showing new monitoring well/piezometer location in relation to existing wells or piezometers.

Complete one form for each well plugged and submit within 30 days to the local county agent, DNR project officer, and Erik Day with the DNR's Water Supply Section at erik.day@dnr.iowa.gov. DNR prefers that the forms be completed and submitted electronically.

08/27/2026 - Classification: Internal - ECRM13799659

Well and Boring Logs

Elevations: ±0.01 ft. MSL

Depths: ±0.1 ft from Ground Surface

Top of protective casing (TOP)
Elevation C 858.66
Top of Well Casing (TOC)
Elevation B 858.39
Ground surface (GS)
Elevation A 855.93
Depth Use 0

Top of backfill
Base of concrete plug and bentonite grout
Elevation A-W 855.93
Depth W 0'

Base of Protective Casing
Elevation C-A = 853.93
Depth PC-C-A = 2'

Base of Backfill, Top of Seal
Elevation A-X = 855.93
Depth X 0'

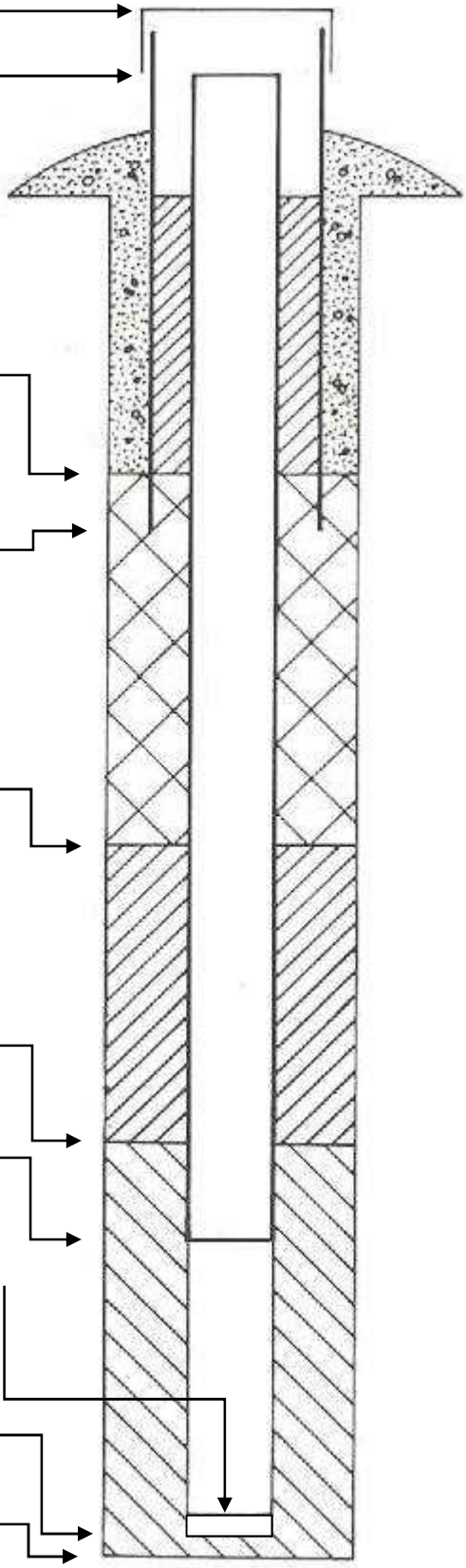
Top of Filter Pack, Base of Seal
Elevation A-Y = 851.93
Depth Y 4'

Top of Screen (TOS)
Elevation B-TD-S-WP = 850.29
Depth A-TOS^{elev} = 5.64'

Bottom of Screen (BOS)
Elevation B-TD-WP = 840.29
Depth A-BOS^{elev} = 15.64'

Bottom of Well
Elevation 840.29
Depth 15.64'

Bottom of Filter Pack
Elevation A-Z = 839.93
Depth Z 16'

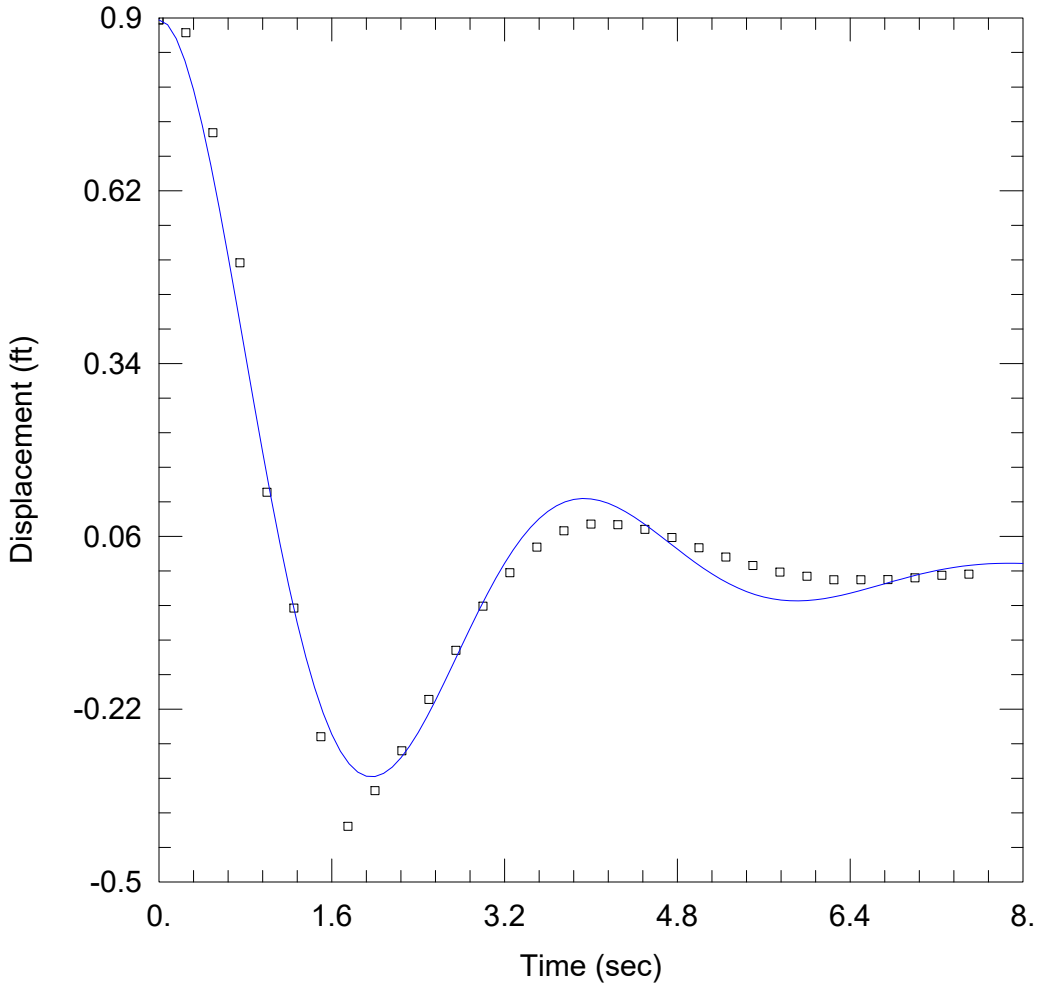


Required Data:

- Elevations for A, B, and C shall be surveyed.
- Depths for W, X, Y, and Z shall be field measured following completion of each item.
- Lengths of the Protective Casing (PC), Screen (S), and Well Point (WP) shall be field measured prior to installation of each item.
- The total Depth (TD) from the Top of Well Casing to the Bottom of Well Point shall be field measured following installation.

PC: 5 S: 10
WP: TD: 839.93

08/27/2026 - Classification: Internal - ECRM13799659



WELL TEST ANALYSIS

Data Set: I:\25225164.00\Data and Calculations\K Tests & Development\250709_OW-2.0.aqt
Date: 08/21/25 Time: 16:22:42

PROJECT INFORMATION

Company: SCS Engineers
Client: IPL
Project: 25225164
Location: Marshalltown, Iowa
Test Well: OW-2
Test Date: 7/9/2025

AQUIFER DATA

Saturated Thickness: 50. ft
Anisotropy Ratio (Kz/Kr): 0.01

WELL DATA (OW-2)

Initial Displacement: 0.8967 ft
Total Well Penetration Depth: 16.8 ft
Casing Radius: 0.09 ft
Static Water Column Height: 15.2 ft
Screen Length: 10. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Confined
Solution Method: Butler
K = 0.2042 cm/sec
Le = 11.46 ft

08/27/2026 - Classification: Internal - ECRM13799659

Appendix C

Analytical Laboratory Reports

08/27/2026 - Classification: Internal - ECRM13799659

C1 April 2025 Assessment Monitoring

08/27/2026 - Classification: Internal - ECRM13799659

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/14/2025 1:24:24 PM Revision 2

JOB DESCRIPTION

Sutherland Generating Station 25225076

JOB NUMBER

310-303530-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

my EOL

Job Notes

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

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

Authorization



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Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job ID: 310-303530-1 Eurofins Cedar Falls

-Job Narrative
310-303530-1

Revision
The report being provided is a revision of the original report sent on 5/6/2025. The report (revision 1-2) is being revised due to: Revised report to change to desired unit of ug/L for metals.

Receipt
The samples were received on 4/4/2025 4:00 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 0.6º C, 1.0º C and 1.3º C.

HPLC/IC
Method 9056A: The following sample was diluted due to the nature of the sample matrix: MW-305 (310-303530-5). Elevated reporting limits (RLs) are provided.

Methods 300.0, 9056A: The following samples were diluted due to the nature of the sample matrix: MW-301 (310-303530-1) and MW-302 (310-303530-2). 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
Methods 904.0, 9320: Radium 228 Batch 711585 The Radium 228 laboratory control sample (LCS) associated with the following samples recovered at 126%: (LCS 160-711585/2-A). 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 68-154%. The LCS is within criteria and no further action is required.

Method 904.0: Radium 228 Batch 711585 The detection goal was not met for the following sample due to a reduced sample volume used in prep attributed to the presence of matrix interferences. MW-302 (310-303530-2)

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: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-303530-1	MW-301	Water	04/02/25 16:43	04/04/25 16:00
310-303530-2	MW-302	Water	04/04/25 10:10	04/04/25 16:00
310-303530-3	MW-303	Water	04/03/25 15:21	04/04/25 16:00
310-303530-4	MW-304	Water	04/02/25 13:07	04/04/25 16:00
310-303530-5	MW-305	Water	04/02/25 14:53	04/04/25 16:00
310-303530-6	MW-306	Water	04/03/25 13:59	04/04/25 16:00
310-303530-7	MW-306A	Water	04/03/25 13:09	04/04/25 16:00
310-303530-8	MW-307	Water	04/02/25 18:26	04/04/25 16:00
310-303530-9	MW-308	Water	04/04/25 11:31	04/04/25 16:00
310-303530-10	MW-309	Water	04/02/25 10:21	04/04/25 16:00
310-303530-11	MW-310	Water	04/02/25 11:20	04/04/25 16:00
310-303530-12	MW-311	Water	04/02/25 12:06	04/04/25 16:00
310-303530-13	MW-312	Water	04/03/25 10:49	04/04/25 16:00
310-303530-14	MW-312A	Water	04/03/25 12:15	04/04/25 16:00
310-303530-15	MW-313	Water	04/01/25 11:34	04/04/25 16:00
310-303530-16	MW-314	Water	04/01/25 12:56	04/04/25 16:00
310-303530-17	Field Blank	Water	04/01/25 11:44	04/04/25 16:00

Detection Summary

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-301
Lab Sample ID: 310-303530-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.6	J	5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	11		5.0	2.1	mg/L	5		9056A	Total/NA
Barium	22		2.0	0.66	ug/L	1		6020B	Total/NA
Calcium	37		0.50	0.19	mg/L	1		6020B	Total/NA
Iron	52	J	100	50	ug/L	1		6020B	Total/NA
Lead	0.53	B	0.50	0.33	ug/L	1		6020B	Total/NA
Lithium	4.5	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	130		50	36	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	853.28				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	441.8				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.60				mg/L	1		Field Sampling	Total/NA
Field pH	6.28				SU	1		Field Sampling	Total/NA
Field Conductivity	272.5				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	10.8				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	19.47				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-302
Lab Sample ID: 310-303530-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.2		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	30		5.0	2.1	mg/L	5		9056A	Total/NA
Antimony	1.1	J	2.0	1.0	ug/L	1		6020B	Total/NA
Arsenic	3.8		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	100		2.0	0.66	ug/L	1		6020B	Total/NA
Calcium	66		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	1.8		0.50	0.17	ug/L	1		6020B	Total/NA
Iron	400		100	50	ug/L	1		6020B	Total/NA
Lead	0.48	J B	0.50	0.33	ug/L	1		6020B	Total/NA
Lithium	3.5	J	10	2.9	ug/L	1		6020B	Total/NA
Thallium	0.60	J	1.0	0.57	ug/L	1		6020B	Total/NA
Total Dissolved Solids	290		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	853.85				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	370.7				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.01				mg/L	1		Field Sampling	Total/NA
Field pH	7.20				SU	1		Field Sampling	Total/NA
Field Conductivity	521				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	8.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	6.29				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-303
Lab Sample ID: 310-303530-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.4	J	5.0	2.3	mg/L	5		9056A	Total/NA
Fluoride	0.41	J	1.0	0.38	mg/L	5		9056A	Total/NA
Sulfate	170		5.0	2.1	mg/L	5		9056A	Total/NA
Antimony	1.5	J	2.0	1.0	ug/L	1		6020B	Total/NA
Arsenic	40		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	320		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	300		100	82	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: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-303 (Continued)
Lab Sample ID: 310-303530-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	1.9		0.20	0.10	ug/L	1		6020B	Total/NA
Calcium	89		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	27		0.50	0.17	ug/L	1		6020B	Total/NA
Iron	49000		100	50	ug/L	1		6020B	Total/NA
Lead	2.3	B	0.50	0.33	ug/L	1		6020B	Total/NA
Lithium	21		10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	16		2.0	1.3	ug/L	1		6020B	Total/NA
Selenium	3.7	J	5.0	1.4	ug/L	1		6020B	Total/NA
Total Dissolved Solids	450		50	36	mg/L	1		SM 2540C	Total/NA
pH	7.7	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	852.44				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	418.6				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.01				mg/L	1		Field Sampling	Total/NA
Field pH	6.95				SU	1		Field Sampling	Total/NA
Field Conductivity	418.6				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	8.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	18.65				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-304
Lab Sample ID: 310-303530-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.8		5.0	2.3	mg/L	5		9056A	Total/NA
Fluoride	0.40	J	1.0	0.38	mg/L	5		9056A	Total/NA
Sulfate	330		5.0	2.1	mg/L	5		9056A	Total/NA
Barium	22		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	500		100	82	ug/L	1		6020B	Total/NA
Calcium	110		0.50	0.19	mg/L	1		6020B	Total/NA
Iron	68	J	100	50	ug/L	1		6020B	Total/NA
Lead	0.43	J B	0.50	0.33	ug/L	1		6020B	Total/NA
Total Dissolved Solids	640		50	36	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	852.19				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	453.3				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.51				mg/L	1		Field Sampling	Total/NA
Field pH	6.64				SU	1		Field Sampling	Total/NA
Field Conductivity	961				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	12.3				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.11				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-305
Lab Sample ID: 310-303530-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	18		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	290		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	4.7		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	47		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	710		100	82	ug/L	1		6020B	Total/NA
Cadmium	0.18	J	0.20	0.10	ug/L	1		6020B	Total/NA
Calcium	110		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	0.55		0.50	0.17	ug/L	1		6020B	Total/NA
Lead	0.39	J B	0.50	0.33	ug/L	1		6020B	Total/NA
Lithium	24		10	2.9	ug/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-305 (Continued) — Lab Sample ID: 310-303530-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	22		2.0	1.3	ug/L	1		6020B	Total/NA
Selenium	1.7	J	5.0	1.4	ug/L	1		6020B	Total/NA
Total Dissolved Solids	620		50	36	mg/L	1		SM 2540C	Total/NA
pH	7.7	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	852.07				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	445.4				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.59				mg/L	1		Field Sampling	Total/NA
Field pH	7.01				SU	1		Field Sampling	Total/NA
Field Conductivity	976				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	11.8				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.75				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-306 — Lab Sample ID: 310-303530-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	19		5.0	2.3	mg/L	5		9056A	Total/NA
Fluoride	0.51	J	1.0	0.38	mg/L	5		9056A	Total/NA
Sulfate	380		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	4.2		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	64		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	3100		100	82	ug/L	1		6020B	Total/NA
Calcium	130		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	0.39	J	0.50	0.17	ug/L	1		6020B	Total/NA
Iron	170		100	50	ug/L	1		6020B	Total/NA
Lead	0.45	J B	0.50	0.33	ug/L	1		6020B	Total/NA
Lithium	53		10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	83		2.0	1.3	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	852.02				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	380.9				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.13				mg/L	1		Field Sampling	Total/NA
Field pH	7.80				SU	1		Field Sampling	Total/NA
Field Conductivity	991				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	10.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	5.30				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-306A — Lab Sample ID: 310-303530-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	130		0.50	0.19	mg/L	1		6020B	Total/NA
Iron	500		100	50	ug/L	1		6020B	Total/NA
Lithium	33		10	2.9	ug/L	1		6020B	Total/NA
Magnesium	13000		500	150	ug/L	1		6020B	Total/NA
Manganese	540		10	3.6	ug/L	1		6020B	Total/NA
Potassium	7100		500	170	ug/L	1		6020B	Total/NA
Sodium	18000		1000	650	ug/L	1		6020B	Total/NA
Bicarbonate Alkalinity as CaCO3	300		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Total Alkalinity as CaCO3	300		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Groundwater Elevation	852.41				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	263.0				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.14				mg/L	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-306A (Continued) — Lab Sample ID: 310-303530-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.54				SU	1		Field Sampling	Total/NA
Field Conductivity	838				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	11.3				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	4.12				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-307 — Lab Sample ID: 310-303530-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	390		100	50	ug/L	1		6020B	Total/NA
Lithium	16		10	2.9	ug/L	1		6020B	Total/NA
Groundwater Elevation	852.95				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	440.9				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.19				mg/L	1		Field Sampling	Total/NA
Field pH	6.57				SU	1		Field Sampling	Total/NA
Field Conductivity	1303				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	9.9				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	4.1				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-308 — Lab Sample ID: 310-303530-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	2400		100	50	ug/L	1		6020B	Total/NA
Lithium	17		10	2.9	ug/L	1		6020B	Total/NA
Groundwater Elevation	853.23				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	414.7				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	-0.21				mg/L	1		Field Sampling	Total/NA
Field pH	6.44				SU	1		Field Sampling	Total/NA
Field Conductivity	1650				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	7.8				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	30.01				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-309 — Lab Sample ID: 310-303530-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	100		0.50	0.19	mg/L	1		6020B	Total/NA
Iron	79	J	100	50	ug/L	1		6020B	Total/NA
Lithium	23		10	2.9	ug/L	1		6020B	Total/NA
Magnesium	34000		500	150	ug/L	1		6020B	Total/NA
Manganese	25		10	3.6	ug/L	1		6020B	Total/NA
Potassium	4200		500	170	ug/L	1		6020B	Total/NA
Sodium	34000		1000	650	ug/L	1		6020B	Total/NA
Bicarbonate Alkalinity as CaCO3	230		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Total Alkalinity as CaCO3	230		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Groundwater Elevation	851.06				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	419.8				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.73				mg/L	1		Field Sampling	Total/NA
Field pH	7.29				SU	1		Field Sampling	Total/NA
Field Conductivity	896				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	9.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	4.64				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-310 — Lab Sample ID: 310-303530-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	130		0.50	0.19	mg/L	1		6020B	Total/NA
Iron	91	J	100	50	ug/L	1		6020B	Total/NA
Lithium	13		10	2.9	ug/L	1		6020B	Total/NA
Magnesium	48000		500	150	ug/L	1		6020B	Total/NA
Manganese	36		10	3.6	ug/L	1		6020B	Total/NA
Potassium	1800		500	170	ug/L	1		6020B	Total/NA
Sodium	38000		1000	650	ug/L	1		6020B	Total/NA
Bicarbonate Alkalinity as CaCO3	230		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Total Alkalinity as CaCO3	230		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Groundwater Elevation	851.07				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	417.5				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.22				mg/L	1		Field Sampling	Total/NA
Field pH	7.06				SU	1		Field Sampling	Total/NA
Field Conductivity	1117				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	9.7				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	4.81				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-311 — Lab Sample ID: 310-303530-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	120		0.50	0.19	mg/L	1		6020B	Total/NA
Lithium	25		10	2.9	ug/L	1		6020B	Total/NA
Magnesium	31000		500	150	ug/L	1		6020B	Total/NA
Manganese	9.0	J	10	3.6	ug/L	1		6020B	Total/NA
Potassium	3700		500	170	ug/L	1		6020B	Total/NA
Sodium	36000		1000	650	ug/L	1		6020B	Total/NA
Bicarbonate Alkalinity as CaCO3	260		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Total Alkalinity as CaCO3	260		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Groundwater Elevation	851.02				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	426.1				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.14				mg/L	1		Field Sampling	Total/NA
Field pH	7.13				SU	1		Field Sampling	Total/NA
Field Conductivity	969				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	8.8				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	2.54				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-312 — Lab Sample ID: 310-303530-13

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	0.49	J	1.0	0.38	mg/L	5		9056A	Total/NA
Sulfate	210		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	1.2	J	2.0	0.53	ug/L	1		6020B	Total/NA
Barium	44		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	1000		100	82	ug/L	1		6020B	Total/NA
Calcium	110		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	0.86		0.50	0.17	ug/L	1		6020B	Total/NA
Lead	0.36	J B	0.50	0.33	ug/L	1		6020B	Total/NA
Lithium	53		10	2.9	ug/L	1		6020B	Total/NA
Magnesium	24000		500	150	ug/L	1		6020B	Total/NA
Manganese	1100		10	3.6	ug/L	1		6020B	Total/NA
Molybdenum	30		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: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-312 (Continued) — Lab Sample ID: 310-303530-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	7500		500	170	ug/L	1		6020B	Total/NA
Sodium	24000		1000	650	ug/L	1		6020B	Total/NA
Total Dissolved Solids	590		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	852.48				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	381.4				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.07				mg/L	1		Field Sampling	Total/NA
Field pH	7.72				SU	1		Field Sampling	Total/NA
Field Conductivity	863				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	9.9				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	6.78				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-312A — Lab Sample ID: 310-303530-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	120		0.50	0.19	mg/L	1		6020B	Total/NA
Iron	870		100	50	ug/L	1		6020B	Total/NA
Lithium	28		10	2.9	ug/L	1		6020B	Total/NA
Magnesium	22000		500	150	ug/L	1		6020B	Total/NA
Manganese	580		10	3.6	ug/L	1		6020B	Total/NA
Potassium	6600		500	170	ug/L	1		6020B	Total/NA
Sodium	22000		1000	650	ug/L	1		6020B	Total/NA
Bicarbonate Alkalinity as CaCO3	280		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Total Alkalinity as CaCO3	280		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Groundwater Elevation	852.47				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	130.8				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.25				mg/L	1		Field Sampling	Total/NA
Field pH	7.52				SU	1		Field Sampling	Total/NA
Field Conductivity	937				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	11.2				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	4.12				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-313 — Lab Sample ID: 310-303530-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	110		0.50	0.19	mg/L	1		6020B	Total/NA
Iron	170		100	50	ug/L	1		6020B	Total/NA
Lithium	54		10	2.9	ug/L	1		6020B	Total/NA
Magnesium	23000		500	150	ug/L	1		6020B	Total/NA
Manganese	1900		10	3.6	ug/L	1		6020B	Total/NA
Potassium	5900		500	170	ug/L	1		6020B	Total/NA
Sodium	23000		1000	650	ug/L	1		6020B	Total/NA
Bicarbonate Alkalinity as CaCO3	220		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Total Alkalinity as CaCO3	220		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Groundwater Elevation	852.14				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	298.8				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.18				mg/L	1		Field Sampling	Total/NA
Field pH	7.26				SU	1		Field Sampling	Total/NA
Field Conductivity	846				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	9.3				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.44				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-314 — Lab Sample ID: 310-303530-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	130		0.50	0.19	mg/L	1		6020B	Total/NA
Iron	86	J	100	50	ug/L	1		6020B	Total/NA
Lithium	39		10	2.9	ug/L	1		6020B	Total/NA
Magnesium	33000		500	150	ug/L	1		6020B	Total/NA
Manganese	510		10	3.6	ug/L	1		6020B	Total/NA
Potassium	5200		500	170	ug/L	1		6020B	Total/NA
Sodium	29000		1000	650	ug/L	1		6020B	Total/NA
Bicarbonate Alkalinity as CaCO3	240		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Total Alkalinity as CaCO3	240		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Groundwater Elevation	851.84				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	402.4				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.98				mg/L	1		Field Sampling	Total/NA
Field pH	7.32				SU	1		Field Sampling	Total/NA
Field Conductivity	907				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	7.5				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	5.89				NTU	1		Field Sampling	Total/NA

Client Sample ID: Field Blank — Lab Sample ID: 310-303530-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	7.7	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

Client: SCS Engineers
Project/Site: Sutherland Generating Station 25225076

Job ID: 310-303530-1

Client Sample ID: MW-301
Date Collected: 04/02/25 16:43
Date Received: 04/04/25 16:00

Lab Sample ID: 310-303530-1
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.6**	**J**	5.0	2.3	mg/L			04/13/25 18:28	5
Fluoride	<0.38		1.0	0.38	mg/L			04/13/25 18:28	5
Sulfate	**11**		5.0	2.1	mg/L			04/13/25 18:28	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		04/08/25 09:00	04/09/25 17:10	1
Arsenic	<0.53		2.0	0.53	ug/L		04/08/25 09:00	04/09/25 17:10	1
Barium	**22**		2.0	0.66	ug/L		04/08/25 09:00	04/09/25 17:10	1
Beryllium	<0.33		1.0	0.33	ug/L		04/08/25 09:00	04/09/25 17:10	1
Boron	<82		100	82	ug/L		04/08/25 09:00	04/09/25 17:10	1
Cadmium	<0.10		0.20	0.10	ug/L		04/08/25 09:00	04/09/25 17:10	1
Calcium	**37**		0.50	0.19	mg/L		04/08/25 09:00	04/09/25 17:10	1
Chromium	<1.8		5.0	1.8	ug/L		04/08/25 09:00	04/09/25 17:10	1
Cobalt	<0.17		0.50	0.17	ug/L		04/08/25 09:00	04/09/25 17:10	1
Iron	**52**	**J**	100	50	ug/L		04/08/25 09:00	04/09/25 17:10	1
Lead	**0.53**	**B**	0.50	0.33	ug/L		04/08/25 09:00	04/09/25 17:10	1
Lithium	**4.5**	**J**	10	2.9	ug/L		04/08/25 09:00	04/09/25 17:10	1
Molybdenum	<1.3		2.0	1.3	ug/L		04/08/25 09:00	04/09/25 17:10	1
Selenium	**1.5**	**J**	5.0	1.4	ug/L		04/08/25 09:00	04/09/25 17:10	1
Thallium	<0.57	F1	1.0	0.57	ug/L		04/08/25 09:00	04/09/25 17:10	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		04/14/25 13:13	04/15/25 10:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**130**		50	36	mg/L			04/08/25 16:50	1
pH (SM 4500 H+ B)	**6.9**	**HF**	1.0	1.0	SU			04/04/25 17:43	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	0.0679	U	0.252	0.252	1.00	0.466	pCi/L	04/09/25 07:29	05/06/25 14:31	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*87.4*		*30 - 110*	*04/09/25 07:29*	*05/06/25 14:31*	*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	0.407	U	0.367	0.369	1.00	0.581	pCi/L	04/09/25 07:34	05/06/25 10:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*87.4*		*30 - 110*	*04/09/25 07:34*	*05/06/25 10:24*	*1*
Y Carrier	*82.2*		*30 - 110*	*04/09/25 07:34*	*05/06/25 10:24*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-301
Lab Sample ID: 310-303530-1
Date Collected: 04/02/25 16:43
Matrix: Water
Date Received: 04/04/25 16:00

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	0.474	U	0.445	0.447	5.00	0.581	pCi/L		05/05/25 14:25	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	853.28				ft			04/02/25 16:43	1
Oxidation Reduction Potential	441.8				mV			04/02/25 16:43	1
Oxygen, Dissolved	1.60				mg/L			04/02/25 16:43	1
Field pH	6.28				SU			04/02/25 16:43	1
Field Conductivity	272.5				umhos/cm			04/02/25 16:43	1
Field Temperature	10.8				Degrees C			04/02/25 16:43	1
Field Turbidity	19.47				NTU			04/02/25 16:43	1

Client: SCS Engineers
Project/Site: Sutherland Generating Station 25225076

Job ID: 310-303530-1

Client Sample ID: MW-302
Date Collected: 04/04/25 10:10
Date Received: 04/04/25 16:00

Lab Sample ID: 310-303530-2
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.2		5.0	2.3	mg/L			04/13/25 18:41	5
Fluoride	<0.38		1.0	0.38	mg/L			04/13/25 18:41	5
Sulfate	30		5.0	2.1	mg/L			04/13/25 18:41	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.1	J	2.0	1.0	ug/L		04/08/25 09:00	04/09/25 17:20	1
Arsenic	3.8		2.0	0.53	ug/L		04/08/25 09:00	04/09/25 17:20	1
Barium	100		2.0	0.66	ug/L		04/08/25 09:00	04/09/25 17:20	1
Beryllium	<0.33		1.0	0.33	ug/L		04/08/25 09:00	04/09/25 17:20	1
Boron	<82		100	82	ug/L		04/08/25 09:00	04/09/25 17:20	1
Cadmium	<0.10		0.20	0.10	ug/L		04/08/25 09:00	04/09/25 17:20	1
Calcium	66		0.50	0.19	mg/L		04/08/25 09:00	04/09/25 17:20	1
Chromium	<1.8		5.0	1.8	ug/L		04/08/25 09:00	04/09/25 17:20	1
Cobalt	1.8		0.50	0.17	ug/L		04/08/25 09:00	04/09/25 17:20	1
Iron	400		100	50	ug/L		04/08/25 09:00	04/09/25 17:20	1
Lead	0.48	J B	0.50	0.33	ug/L		04/08/25 09:00	04/09/25 17:20	1
Lithium	3.5	J	10	2.9	ug/L		04/08/25 09:00	04/09/25 17:20	1
Molybdenum	<1.3		2.0	1.3	ug/L		04/08/25 09:00	04/09/25 17:20	1
Selenium	<1.4		5.0	1.4	ug/L		04/08/25 09:00	04/09/25 17:20	1
Thallium	0.60	J	1.0	0.57	ug/L		04/08/25 09:00	04/09/25 17:20	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		04/14/25 13:13	04/15/25 10:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	290		50	36	mg/L			04/10/25 22:05	1
pH (SM 4500 H+ B)	7.9	HF	1.0	1.0	SU			04/04/25 17:43	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	1.74		0.652	0.670	1.00	0.695	pCi/L	04/09/25 07:29	05/06/25 14:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*88.9*		*30 - 110*	*04/09/25 07:29*	*05/06/25 14:24*	*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	4.99	G	1.18	1.26	1.00	1.20	pCi/L	04/09/25 07:34	05/06/25 10:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*88.9*		*30 - 110*	*04/09/25 07:34*	*05/06/25 10:25*	*1*
Y Carrier	*78.5*		*30 - 110*	*04/09/25 07:34*	*05/06/25 10:25*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-302
Lab Sample ID: 310-303530-2
Date Collected: 04/04/25 10:10
Matrix: Water
Date Received: 04/04/25 16:00

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	6.73		1.35	1.43	5.00	1.20	pCi/L		05/05/25 14:25	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	853.85				ft			04/04/25 10:10	1
Oxidation Reduction Potential	370.7				mV			04/04/25 10:10	1
Oxygen, Dissolved	0.01				mg/L			04/04/25 10:10	1
Field pH	7.20				SU			04/04/25 10:10	1
Field Conductivity	521				umhos/cm			04/04/25 10:10	1
Field Temperature	8.4				Degrees C			04/04/25 10:10	1
Field Turbidity	6.29				NTU			04/04/25 10:10	1

Client Sample ID: MW-303
Date Collected: 04/03/25 15:21
Date Received: 04/04/25 16:00

Lab Sample ID: 310-303530-3
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.4	J	5.0	2.3	mg/L			04/13/25 18:54	5
Fluoride	0.41	J	1.0	0.38	mg/L			04/13/25 18:54	5
Sulfate	170		5.0	2.1	mg/L			04/13/25 18:54	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.5	J	2.0	1.0	ug/L		04/08/25 09:00	04/09/25 17:29	1
Arsenic	40		2.0	0.53	ug/L		04/08/25 09:00	04/09/25 17:29	1
Barium	320		2.0	0.66	ug/L		04/08/25 09:00	04/09/25 17:29	1
Beryllium	<0.33		1.0	0.33	ug/L		04/08/25 09:00	04/09/25 17:29	1
Boron	300		100	82	ug/L		04/08/25 09:00	04/09/25 17:29	1
Cadmium	1.9		0.20	0.10	ug/L		04/08/25 09:00	04/09/25 17:29	1
Calcium	89		0.50	0.19	mg/L		04/08/25 09:00	04/09/25 17:29	1
Chromium	<1.8		5.0	1.8	ug/L		04/08/25 09:00	04/09/25 17:29	1
Cobalt	27		0.50	0.17	ug/L		04/08/25 09:00	04/09/25 17:29	1
Iron	49000		100	50	ug/L		04/08/25 09:00	04/09/25 17:29	1
Lead	2.3	B	0.50	0.33	ug/L		04/08/25 09:00	04/09/25 17:29	1
Lithium	21		10	2.9	ug/L		04/08/25 09:00	04/09/25 17:29	1
Molybdenum	16		2.0	1.3	ug/L		04/08/25 09:00	04/09/25 17:29	1
Selenium	3.7	J	5.0	1.4	ug/L		04/08/25 09:00	04/09/25 17:29	1
Thallium	<0.57		1.0	0.57	ug/L		04/08/25 09:00	04/09/25 17:29	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		04/14/25 13:13	04/15/25 10:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	450		50	36	mg/L			04/09/25 21:56	1
pH (SM 4500 H+ B)	7.7	HF	1.0	1.0	SU			04/04/25 17:43	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	0.649		0.355	0.360	1.00	0.441	pCi/L	04/09/25 07:29	05/06/25 14:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*83.1*		*30 - 110*	*04/09/25 07:29*	*05/06/25 14:25*	*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	1.51		0.695	0.709	1.00	0.955	pCi/L	04/09/25 07:34	05/06/25 10:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*83.1*		*30 - 110*	*04/09/25 07:34*	*05/06/25 10:25*	*1*
Y Carrier	*78.5*		*30 - 110*	*04/09/25 07:34*	*05/06/25 10:25*	*1*

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-303
Lab Sample ID: 310-303530-3
Date Collected: 04/03/25 15:21
Matrix: Water
Date Received: 04/04/25 16:00

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	2.16		0.780	0.795	5.00	0.955	pCi/L		05/05/25 14:25	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	852.44				ft			04/03/25 15:21	1
Oxidation Reduction Potential	418.6				mV			04/03/25 15:21	1
Oxygen, Dissolved	0.01				mg/L			04/03/25 15:21	1
Field pH	6.95				SU			04/03/25 15:21	1
Field Conductivity	418.6				umhos/cm			04/03/25 15:21	1
Field Temperature	8.4				Degrees C			04/03/25 15:21	1
Field Turbidity	18.65				NTU			04/03/25 15:21	1

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-304
Date Collected: 04/02/25 13:07
Date Received: 04/04/25 16:00

Lab Sample ID: 310-303530-4
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.8**		5.0	2.3	mg/L			04/11/25 00:29	5
Fluoride	**0.40**	**J**	1.0	0.38	mg/L			04/11/25 00:29	5
Sulfate	**330**		5.0	2.1	mg/L			04/11/25 00:29	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		04/08/25 09:00	04/09/25 17:31	1
Arsenic	<0.53		2.0	0.53	ug/L		04/08/25 09:00	04/09/25 17:31	1
Barium	**22**		2.0	0.66	ug/L		04/08/25 09:00	04/09/25 17:31	1
Beryllium	<0.33		1.0	0.33	ug/L		04/08/25 09:00	04/09/25 17:31	1
Boron	**500**		100	82	ug/L		04/08/25 09:00	04/09/25 17:31	1
Cadmium	<0.10		0.20	0.10	ug/L		04/08/25 09:00	04/09/25 17:31	1
Calcium	**110**		0.50	0.19	mg/L		04/08/25 09:00	04/09/25 17:31	1
Chromium	<1.8		5.0	1.8	ug/L		04/08/25 09:00	04/09/25 17:31	1
Cobalt	<0.17		0.50	0.17	ug/L		04/08/25 09:00	04/09/25 17:31	1
Iron	**68**	**J**	100	50	ug/L		04/08/25 09:00	04/09/25 17:31	1
Lead	**0.43**	**J B**	0.50	0.33	ug/L		04/08/25 09:00	04/09/25 17:31	1
Lithium	<2.9		10	2.9	ug/L		04/08/25 09:00	04/09/25 17:31	1
Molybdenum	<1.3		2.0	1.3	ug/L		04/08/25 09:00	04/09/25 17:31	1
Selenium	<1.4		5.0	1.4	ug/L		04/08/25 09:00	04/09/25 17:31	1
Thallium	<0.57		1.0	0.57	ug/L		04/08/25 09:00	04/09/25 17:31	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		04/14/25 13:13	04/15/25 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**640**		50	36	mg/L			04/08/25 16:50	1
pH (SM 4500 H+ B)	**7.1**	**HF**	1.0	1.0	SU			04/04/25 17:43	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	0.00451	U	0.171	0.171	1.00	0.346	pCi/L	04/09/25 07:29	05/06/25 14:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*89.1*		*30 - 110*	*04/09/25 07:29*	*05/06/25 14:25*	*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	0.514	U	0.389	0.392	1.00	0.602	pCi/L	04/09/25 07:34	05/06/25 10:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*89.1*		*30 - 110*	*04/09/25 07:34*	*05/06/25 10:25*	*1*
Y Carrier	*86.0*		*30 - 110*	*04/09/25 07:34*	*05/06/25 10:25*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-304
Lab Sample ID: 310-303530-4
Date Collected: 04/02/25 13:07
Matrix: Water
Date Received: 04/04/25 16:00

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	0.518	U	0.425	0.428	5.00	0.602	pCi/L		05/05/25 14:25	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	852.19				ft			04/02/25 13:07	1
Oxidation Reduction Potential	453.3				mV			04/02/25 13:07	1
Oxygen, Dissolved	2.51				mg/L			04/02/25 13:07	1
Field pH	6.64				SU			04/02/25 13:07	1
Field Conductivity	961				umhos/cm			04/02/25 13:07	1
Field Temperature	12.3				Degrees C			04/02/25 13:07	1
Field Turbidity	3.11				NTU			04/02/25 13:07	1

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-305
Date Collected: 04/02/25 14:53
Date Received: 04/04/25 16:00

Lab Sample ID: 310-303530-5
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			04/11/25 00:43	5
Fluoride	<0.38		1.0	0.38	mg/L			04/11/25 00:43	5
Sulfate	**290**		5.0	2.1	mg/L			04/11/25 00:43	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		04/08/25 09:00	04/09/25 17:34	1
Arsenic	**4.7**		2.0	0.53	ug/L		04/08/25 09:00	04/09/25 17:34	1
Barium	**47**		2.0	0.66	ug/L		04/08/25 09:00	04/09/25 17:34	1
Beryllium	<0.33		1.0	0.33	ug/L		04/08/25 09:00	04/09/25 17:34	1
Boron	**710**		100	82	ug/L		04/08/25 09:00	04/09/25 17:34	1
Cadmium	**0.18**	**J**	0.20	0.10	ug/L		04/08/25 09:00	04/09/25 17:34	1
Calcium	**110**		0.50	0.19	mg/L		04/08/25 09:00	04/09/25 17:34	1
Chromium	<1.8		5.0	1.8	ug/L		04/08/25 09:00	04/09/25 17:34	1
Cobalt	**0.55**		0.50	0.17	ug/L		04/08/25 09:00	04/09/25 17:34	1
Iron	<50		100	50	ug/L		04/08/25 09:00	04/09/25 17:34	1
Lead	**0.39**	**J B**	0.50	0.33	ug/L		04/08/25 09:00	04/09/25 17:34	1
Lithium	**24**		10	2.9	ug/L		04/08/25 09:00	04/09/25 17:34	1
Molybdenum	**22**		2.0	1.3	ug/L		04/08/25 09:00	04/09/25 17:34	1
Selenium	**1.7**	**J**	5.0	1.4	ug/L		04/08/25 09:00	04/09/25 17:34	1
Thallium	<0.57		1.0	0.57	ug/L		04/08/25 09:00	04/09/25 17:34	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		04/14/25 13:13	04/15/25 11:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**620**		50	36	mg/L			04/08/25 16:50	1
pH (SM 4500 H+ B)	**7.7**	**HF**	1.0	1.0	SU			04/04/25 17:43	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	-0.0800	U	0.151	0.151	1.00	0.356	pCi/L	04/09/25 07:29	05/06/25 14:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*85.1*		*30 - 110*	*04/09/25 07:29*	*05/06/25 14:25*	*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	0.276	U	0.374	0.375	1.00	0.627	pCi/L	04/09/25 07:34	05/06/25 10:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*85.1*		*30 - 110*	*04/09/25 07:34*	*05/06/25 10:25*	*1*
Y Carrier	*79.6*		*30 - 110*	*04/09/25 07:34*	*05/06/25 10:25*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-305
Lab Sample ID: 310-303530-5
Date Collected: 04/02/25 14:53
Matrix: Water
Date Received: 04/04/25 16:00

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	0.276	U	0.403	0.404	5.00	0.627	pCi/L		05/05/25 14:25	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	852.07				ft			04/02/25 14:53	1
Oxidation Reduction Potential	445.4				mV			04/02/25 14:53	1
Oxygen, Dissolved	0.59				mg/L			04/02/25 14:53	1
Field pH	7.01				SU			04/02/25 14:53	1
Field Conductivity	976				umhos/cm			04/02/25 14:53	1
Field Temperature	11.8				Degrees C			04/02/25 14:53	1
Field Turbidity	3.75				NTU			04/02/25 14:53	1

Client Sample ID: MW-306
Date Collected: 04/03/25 13:59
Date Received: 04/04/25 16:00

Lab Sample ID: 310-303530-6
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19**		5.0	2.3	mg/L			04/11/25 00:57	5
Fluoride	**0.51**	**J**	1.0	0.38	mg/L			04/11/25 00:57	5
Sulfate	**380**		5.0	2.1	mg/L			04/11/25 00:57	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		04/08/25 09:00	04/09/25 17:36	1
Arsenic	**4.2**		2.0	0.53	ug/L		04/08/25 09:00	04/09/25 17:36	1
Barium	**64**		2.0	0.66	ug/L		04/08/25 09:00	04/09/25 17:36	1
Beryllium	<0.33		1.0	0.33	ug/L		04/08/25 09:00	04/09/25 17:36	1
Boron	**3100**		100	82	ug/L		04/08/25 09:00	04/09/25 17:36	1
Cadmium	<0.10		0.20	0.10	ug/L		04/08/25 09:00	04/09/25 17:36	1
Calcium	**130**		0.50	0.19	mg/L		04/08/25 09:00	04/09/25 17:36	1
Chromium	<1.8		5.0	1.8	ug/L		04/08/25 09:00	04/09/25 17:36	1
Cobalt	**0.39**	**J**	0.50	0.17	ug/L		04/08/25 09:00	04/09/25 17:36	1
Iron	**170**		100	50	ug/L		04/08/25 09:00	04/09/25 17:36	1
Lead	**0.45**	**J B**	0.50	0.33	ug/L		04/08/25 09:00	04/09/25 17:36	1
Lithium	**53**		10	2.9	ug/L		04/08/25 09:00	04/09/25 17:36	1
Molybdenum	**83**		2.0	1.3	ug/L		04/08/25 09:00	04/09/25 17:36	1
Selenium	<1.4		5.0	1.4	ug/L		04/08/25 09:00	04/09/25 17:36	1
Thallium	<0.57		1.0	0.57	ug/L		04/08/25 09:00	04/09/25 17:36	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		04/14/25 13:13	04/15/25 11:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**750**		50	36	mg/L			04/09/25 21:56	1
pH (SM 4500 H+ B)	**7.9**	**HF**	1.0	1.0	SU			04/04/25 17:43	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	-0.0111	U	0.197	0.197	1.00	0.394	pCi/L	04/09/25 07:29	05/06/25 14:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*93.9*		*30 - 110*	*04/09/25 07:29*	*05/06/25 14:25*	*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	**0.770**		0.436	0.442	1.00	0.636	pCi/L	04/09/25 07:34	05/06/25 10:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*93.9*		*30 - 110*	*04/09/25 07:34*	*05/06/25 10:25*	*1*
Y Carrier	*80.0*		*30 - 110*	*04/09/25 07:34*	*05/06/25 10:25*	*1*

Client Sample ID: MW-306
Date Collected: 04/03/25 13:59
Date Received: 04/04/25 16:00

Lab Sample ID: 310-303530-6
Matrix: Water

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	0.770		0.478	0.484	5.00	0.636	pCi/L		05/05/25 14:25	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	852.02				ft			04/03/25 13:59	1
Oxidation Reduction Potential	380.9				mV			04/03/25 13:59	1
Oxygen, Dissolved	0.13				mg/L			04/03/25 13:59	1
Field pH	7.80				SU			04/03/25 13:59	1
Field Conductivity	991				umhos/cm			04/03/25 13:59	1
Field Temperature	10.4				Degrees C			04/03/25 13:59	1
Field Turbidity	5.30				NTU			04/03/25 13:59	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-306A
Lab Sample ID: 310-303530-7
Date Collected: 04/03/25 13:09
Matrix: Water
Date Received: 04/04/25 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	130		0.50	0.19	mg/L		04/08/25 09:00	04/09/25 17:39	1
Iron	500		100	50	ug/L		04/08/25 09:00	04/09/25 17:39	1
Lithium	33		10	2.9	ug/L		04/08/25 09:00	04/09/25 17:39	1
Magnesium	13000		500	150	ug/L		04/08/25 09:00	04/09/25 17:39	1
Manganese	540		10	3.6	ug/L		04/08/25 09:00	04/09/25 17:39	1
Potassium	7100		500	170	ug/L		04/08/25 09:00	04/09/25 17:39	1
Sodium	18000		1000	650	ug/L		04/08/25 09:00	04/09/25 17:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	300		5.0	2.5	mg/L			04/07/25 17:19	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<2.5		5.0	2.5	mg/L			04/07/25 17:19	1
Total Alkalinity as CaCO3 (SM 2320B)	300		5.0	2.5	mg/L			04/07/25 17:19	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	852.41				ft			04/03/25 13:09	1
Oxidation Reduction Potential	263.0				mV			04/03/25 13:09	1
Oxygen, Dissolved	0.14				mg/L			04/03/25 13:09	1
Field pH	7.54				SU			04/03/25 13:09	1
Field Conductivity	838				umhos/cm			04/03/25 13:09	1
Field Temperature	11.3				Degrees C			04/03/25 13:09	1
Field Turbidity	4.12				NTU			04/03/25 13:09	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-307
Lab Sample ID: 310-303530-8
Date Collected: 04/02/25 18:26
Matrix: Water
Date Received: 04/04/25 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	390		100	50	ug/L		04/08/25 09:00	04/09/25 17:41	1
Lithium	16		10	2.9	ug/L		04/08/25 09:00	04/09/25 17:41	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	852.95				ft			04/02/25 18:26	1
Oxidation Reduction Potential	440.9				mV			04/02/25 18:26	1
Oxygen, Dissolved	0.19				mg/L			04/02/25 18:26	1
Field pH	6.57				SU			04/02/25 18:26	1
Field Conductivity	1303				umhos/cm			04/02/25 18:26	1
Field Temperature	9.9				Degrees C			04/02/25 18:26	1
Field Turbidity	4.1				NTU			04/02/25 18:26	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-308
Lab Sample ID: 310-303530-9
Date Collected: 04/04/25 11:31
Matrix: Water
Date Received: 04/04/25 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2400		100	50	ug/L		04/08/25 09:00	04/09/25 17:43	1
Lithium	17		10	2.9	ug/L		04/08/25 09:00	04/09/25 17:43	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	853.23				ft			04/04/25 11:31	1
Oxidation Reduction Potential	414.7				mV			04/04/25 11:31	1
Oxygen, Dissolved	-0.21				mg/L			04/04/25 11:31	1
Field pH	6.44				SU			04/04/25 11:31	1
Field Conductivity	1650				umhos/cm			04/04/25 11:31	1
Field Temperature	7.8				Degrees C			04/04/25 11:31	1
Field Turbidity	30.01				NTU			04/04/25 11:31	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-309
Lab Sample ID: 310-303530-10
Date Collected: 04/02/25 10:21
Matrix: Water
Date Received: 04/04/25 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	100		0.50	0.19	mg/L		04/08/25 09:00	04/09/25 17:46	1
Iron	79	J	100	50	ug/L		04/08/25 09:00	04/09/25 17:46	1
Lithium	23		10	2.9	ug/L		04/08/25 09:00	04/09/25 17:46	1
Magnesium	34000		500	150	ug/L		04/08/25 09:00	04/09/25 17:46	1
Manganese	25		10	3.6	ug/L		04/08/25 09:00	04/09/25 17:46	1
Potassium	4200		500	170	ug/L		04/08/25 09:00	04/09/25 17:46	1
Sodium	34000		1000	650	ug/L		04/08/25 09:00	04/09/25 17:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	230		5.0	2.5	mg/L			04/07/25 17:30	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<2.5		5.0	2.5	mg/L			04/07/25 17:30	1
Total Alkalinity as CaCO3 (SM 2320B)	230		5.0	2.5	mg/L			04/07/25 17:30	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	851.06				ft			04/02/25 10:21	1
Oxidation Reduction Potential	419.8				mV			04/02/25 10:21	1
Oxygen, Dissolved	0.73				mg/L			04/02/25 10:21	1
Field pH	7.29				SU			04/02/25 10:21	1
Field Conductivity	896				umhos/cm			04/02/25 10:21	1
Field Temperature	9.4				Degrees C			04/02/25 10:21	1
Field Turbidity	4.64				NTU			04/02/25 10:21	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-310
Lab Sample ID: 310-303530-11
Date Collected: 04/02/25 11:20
Matrix: Water
Date Received: 04/04/25 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**130**		0.50	0.19	mg/L		04/08/25 09:00	04/09/25 17:48	1
Iron	**91**	**J**	100	50	ug/L		04/08/25 09:00	04/09/25 17:48	1
Lithium	**13**		10	2.9	ug/L		04/08/25 09:00	04/09/25 17:48	1
Magnesium	**48000**		500	150	ug/L		04/08/25 09:00	04/09/25 17:48	1
Manganese	**36**		10	3.6	ug/L		04/08/25 09:00	04/09/25 17:48	1
Potassium	**1800**		500	170	ug/L		04/08/25 09:00	04/09/25 17:48	1
Sodium	**38000**		1000	650	ug/L		04/08/25 09:00	04/09/25 17:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**230**		5.0	2.5	mg/L			04/07/25 11:58	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<2.5		5.0	2.5	mg/L			04/07/25 11:58	1
Total Alkalinity as CaCO3 (SM 2320B)	**230**		5.0	2.5	mg/L			04/07/25 11:58	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	**851.07**				ft			04/02/25 11:20	1
Oxidation Reduction Potential	**417.5**				mV			04/02/25 11:20	1
Oxygen, Dissolved	**0.22**				mg/L			04/02/25 11:20	1
Field pH	**7.06**				SU			04/02/25 11:20	1
Field Conductivity	**1117**				umhos/cm			04/02/25 11:20	1
Field Temperature	**9.7**				Degrees C			04/02/25 11:20	1
Field Turbidity	**4.81**				NTU			04/02/25 11:20	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-311
Lab Sample ID: 310-303530-12
Date Collected: 04/02/25 12:06
Matrix: Water
Date Received: 04/04/25 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**120**		0.50	0.19	mg/L		04/08/25 09:00	04/10/25 12:03	1
Iron	<50		100	50	ug/L		04/08/25 09:00	04/09/25 18:00	1
Lithium	**25**		10	2.9	ug/L		04/08/25 09:00	04/09/25 18:00	1
Magnesium	**31000**		500	150	ug/L		04/08/25 09:00	04/09/25 18:00	1
Manganese	**9.0**	**J**	10	3.6	ug/L		04/08/25 09:00	04/09/25 18:00	1
Potassium	**3700**		500	170	ug/L		04/08/25 09:00	04/10/25 12:03	1
Sodium	**36000**		1000	650	ug/L		04/08/25 09:00	04/09/25 18:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**260**		5.0	2.5	mg/L			04/07/25 12:07	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<2.5		5.0	2.5	mg/L			04/07/25 12:07	1
Total Alkalinity as CaCO3 (SM 2320B)	**260**		5.0	2.5	mg/L			04/07/25 12:07	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	**851.02**				ft			04/02/25 12:06	1
Oxidation Reduction Potential	**426.1**				mV			04/02/25 12:06	1
Oxygen, Dissolved	**0.14**				mg/L			04/02/25 12:06	1
Field pH	**7.13**				SU			04/02/25 12:06	1
Field Conductivity	**969**				umhos/cm			04/02/25 12:06	1
Field Temperature	**8.8**				Degrees C			04/02/25 12:06	1
Field Turbidity	**2.54**				NTU			04/02/25 12:06	1

Client: SCS Engineers
Project/Site: Sutherland Generating Station 25225076

Job ID: 310-303530-1

Client Sample ID: MW-312

Date Collected: 04/03/25 10:49
Date Received: 04/04/25 16:00

Lab Sample ID: 310-303530-13

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			04/11/25 01:11	5
Fluoride	**0.49**	**J**	1.0	0.38	mg/L			04/11/25 01:11	5
Sulfate	**210**		5.0	2.1	mg/L			04/11/25 01:11	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		04/08/25 09:00	04/09/25 18:03	1
Arsenic	**1.2**	**J**	2.0	0.53	ug/L		04/08/25 09:00	04/09/25 18:03	1
Barium	**44**		2.0	0.66	ug/L		04/08/25 09:00	04/09/25 18:03	1
Beryllium	<0.33		1.0	0.33	ug/L		04/08/25 09:00	04/09/25 18:03	1
Boron	**1000**		100	82	ug/L		04/08/25 09:00	04/09/25 18:03	1
Cadmium	<0.10		0.20	0.10	ug/L		04/08/25 09:00	04/09/25 18:03	1
Calcium	**110**		0.50	0.19	mg/L		04/08/25 09:00	04/10/25 12:06	1
Chromium	<1.8		5.0	1.8	ug/L		04/08/25 09:00	04/09/25 18:03	1
Cobalt	**0.86**		0.50	0.17	ug/L		04/08/25 09:00	04/09/25 18:03	1
Iron	<50		100	50	ug/L		04/08/25 09:00	04/09/25 18:03	1
Lead	**0.36**	**J B**	0.50	0.33	ug/L		04/08/25 09:00	04/09/25 18:03	1
Lithium	**53**		10	2.9	ug/L		04/08/25 09:00	04/09/25 18:03	1
Magnesium	**24000**		500	150	ug/L		04/08/25 09:00	04/09/25 18:03	1
Manganese	**1100**		10	3.6	ug/L		04/08/25 09:00	04/09/25 18:03	1
Molybdenum	**30**		2.0	1.3	ug/L		04/08/25 09:00	04/09/25 18:03	1
Potassium	**7500**		500	170	ug/L		04/08/25 09:00	04/10/25 12:06	1
Selenium	<1.4		5.0	1.4	ug/L		04/08/25 09:00	04/09/25 18:03	1
Sodium	**24000**		1000	650	ug/L		04/08/25 09:00	04/09/25 18:03	1
Thallium	<0.57		1.0	0.57	ug/L		04/08/25 09:00	04/09/25 18:03	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		04/14/25 13:13	04/15/25 11:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**590**		50	36	mg/L			04/09/25 21:56	1
pH (SM 4500 H+ B)	**7.9**	**HF**	1.0	1.0	SU			04/04/25 17:43	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	0.0705	U	0.189	0.189	1.00	0.350	pCi/L	04/09/25 07:29	05/06/25 14:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*90.4*		*30 - 110*	*04/09/25 07:29*	*05/06/25 14:25*	*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	0.140	U	0.304	0.304	1.00	0.532	pCi/L	04/09/25 07:34	05/06/25 10:25	1

Client Sample ID: MW-312
Date Collected: 04/03/25 10:49
Date Received: 04/04/25 16:00

Lab Sample ID: 310-303530-13
Matrix: Water

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*90.4*		*30 - 110*	*04/09/25 07:34*	*05/06/25 10:25*	*1*
Y Carrier	*86.0*		*30 - 110*	*04/09/25 07:34*	*05/06/25 10:25*	*1*

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	0.211	U	0.358	0.358	5.00	0.532	pCi/L		05/05/25 14:25	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	**852.48**				ft			04/03/25 10:49	1
Oxidation Reduction Potential	**381.4**				mV			04/03/25 10:49	1
Oxygen, Dissolved	**0.07**				mg/L			04/03/25 10:49	1
Field pH	**7.72**				SU			04/03/25 10:49	1
Field Conductivity	**863**				umhos/cm			04/03/25 10:49	1
Field Temperature	**9.9**				Degrees C			04/03/25 10:49	1
Field Turbidity	**6.78**				NTU			04/03/25 10:49	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-312A
Lab Sample ID: 310-303530-14
Date Collected: 04/03/25 12:15
Matrix: Water
Date Received: 04/04/25 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	120		0.50	0.19	mg/L		04/08/25 09:00	04/10/25 12:08	1
Iron	870		100	50	ug/L		04/08/25 09:00	04/09/25 18:05	1
Lithium	28		10	2.9	ug/L		04/08/25 09:00	04/09/25 18:05	1
Magnesium	22000		500	150	ug/L		04/08/25 09:00	04/09/25 18:05	1
Manganese	580		10	3.6	ug/L		04/08/25 09:00	04/09/25 18:05	1
Potassium	6600		500	170	ug/L		04/08/25 09:00	04/10/25 12:08	1
Sodium	22000		1000	650	ug/L		04/08/25 09:00	04/09/25 18:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	280		5.0	2.5	mg/L			04/07/25 12:26	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<2.5		5.0	2.5	mg/L			04/07/25 12:26	1
Total Alkalinity as CaCO3 (SM 2320B)	280		5.0	2.5	mg/L			04/07/25 12:26	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	852.47				ft			04/03/25 12:15	1
Oxidation Reduction Potential	130.8				mV			04/03/25 12:15	1
Oxygen, Dissolved	0.25				mg/L			04/03/25 12:15	1
Field pH	7.52				SU			04/03/25 12:15	1
Field Conductivity	937				umhos/cm			04/03/25 12:15	1
Field Temperature	11.2				Degrees C			04/03/25 12:15	1
Field Turbidity	4.12				NTU			04/03/25 12:15	1

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-313
Lab Sample ID: 310-303530-15
Date Collected: 04/01/25 11:34
Matrix: Water
Date Received: 04/04/25 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	110		0.50	0.19	mg/L		04/08/25 09:00	04/10/25 12:10	1
Iron	170		100	50	ug/L		04/08/25 09:00	04/09/25 18:07	1
Lithium	54		10	2.9	ug/L		04/08/25 09:00	04/09/25 18:07	1
Magnesium	23000		500	150	ug/L		04/08/25 09:00	04/09/25 18:07	1
Manganese	1900		10	3.6	ug/L		04/08/25 09:00	04/09/25 18:07	1
Potassium	5900		500	170	ug/L		04/08/25 09:00	04/10/25 12:10	1
Sodium	23000		1000	650	ug/L		04/08/25 09:00	04/09/25 18:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	220		5.0	2.5	mg/L			04/07/25 12:44	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<2.5		5.0	2.5	mg/L			04/07/25 12:44	1
Total Alkalinity as CaCO3 (SM 2320B)	220		5.0	2.5	mg/L			04/07/25 12:44	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	852.14				ft			04/01/25 11:34	1
Oxidation Reduction Potential	298.8				mV			04/01/25 11:34	1
Oxygen, Dissolved	0.18				mg/L			04/01/25 11:34	1
Field pH	7.26				SU			04/01/25 11:34	1
Field Conductivity	846				umhos/cm			04/01/25 11:34	1
Field Temperature	9.3				Degrees C			04/01/25 11:34	1
Field Turbidity	3.44				NTU			04/01/25 11:34	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-314
Lab Sample ID: 310-303530-16
Date Collected: 04/01/25 12:56
Matrix: Water
Date Received: 04/04/25 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	130		0.50	0.19	mg/L		04/08/25 09:00	04/10/25 12:13	1
Iron	86	J	100	50	ug/L		04/08/25 09:00	04/09/25 18:10	1
Lithium	39		10	2.9	ug/L		04/08/25 09:00	04/09/25 18:10	1
Magnesium	33000		500	150	ug/L		04/08/25 09:00	04/09/25 18:10	1
Manganese	510		10	3.6	ug/L		04/08/25 09:00	04/09/25 18:10	1
Potassium	5200		500	170	ug/L		04/08/25 09:00	04/10/25 12:13	1
Sodium	29000		1000	650	ug/L		04/08/25 09:00	04/09/25 18:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	240		5.0	2.5	mg/L			04/07/25 12:55	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<2.5		5.0	2.5	mg/L			04/07/25 12:55	1
Total Alkalinity as CaCO3 (SM 2320B)	240		5.0	2.5	mg/L			04/07/25 12:55	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	851.84				ft			04/01/25 12:56	1
Oxidation Reduction Potential	402.4				mV			04/01/25 12:56	1
Oxygen, Dissolved	1.98				mg/L			04/01/25 12:56	1
Field pH	7.32				SU			04/01/25 12:56	1
Field Conductivity	907				umhos/cm			04/01/25 12:56	1
Field Temperature	7.5				Degrees C			04/01/25 12:56	1
Field Turbidity	5.89				NTU			04/01/25 12:56	1

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: Field Blank
Lab Sample ID: 310-303530-17
Date Collected: 04/01/25 11:44
Matrix: Water
Date Received: 04/04/25 16:00

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			04/11/25 01:25	1
Fluoride	<0.075		0.20	0.075	mg/L			04/11/25 01:25	1
Sulfate	<0.42		1.0	0.42	mg/L			04/11/25 01:25	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		04/08/25 09:00	04/09/25 18:12	1
Arsenic	<0.53		2.0	0.53	ug/L		04/08/25 09:00	04/09/25 18:12	1
Barium	<0.66		2.0	0.66	ug/L		04/08/25 09:00	04/09/25 18:12	1
Beryllium	<0.33		1.0	0.33	ug/L		04/08/25 09:00	04/09/25 18:12	1
Boron	<82		100	82	ug/L		04/08/25 09:00	04/09/25 18:12	1
Cadmium	<0.10		0.20	0.10	ug/L		04/08/25 09:00	04/09/25 18:12	1
Calcium	<0.19		0.50	0.19	mg/L		04/08/25 09:00	04/10/25 12:15	1
Chromium	<1.8		5.0	1.8	ug/L		04/08/25 09:00	04/09/25 18:12	1
Cobalt	<0.17		0.50	0.17	ug/L		04/08/25 09:00	04/09/25 18:12	1
Lead	<0.33		0.50	0.33	ug/L		04/08/25 09:00	04/09/25 18:12	1
Lithium	<2.9		10	2.9	ug/L		04/08/25 09:00	04/09/25 18:12	1
Molybdenum	<1.3		2.0	1.3	ug/L		04/08/25 09:00	04/09/25 18:12	1
Selenium	<1.4		5.0	1.4	ug/L		04/08/25 09:00	04/09/25 18:12	1
Thallium	<0.57		1.0	0.57	ug/L		04/08/25 09:00	04/09/25 18:12	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		04/14/25 13:13	04/15/25 11:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	<36		50	36	mg/L			04/08/25 00:30	1
pH (SM 4500 H+ B)	**7.7**	**HF**	1.0	1.0	SU			04/04/25 17:43	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	0.220	U	0.225	0.226	1.00	0.354	pCi/L	04/09/25 07:29	05/06/25 14:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*92.2*		*30 - 110*	*04/09/25 07:29*	*05/06/25 14:25*	*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	0.278	U	0.385	0.386	1.00	0.646	pCi/L	04/09/25 07:34	05/06/25 10:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*92.2*		*30 - 110*	*04/09/25 07:34*	*05/06/25 10:25*	*1*
Y Carrier	*75.1*		*30 - 110*	*04/09/25 07:34*	*05/06/25 10:25*	*1*

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: Field Blank
Lab Sample ID: 310-303530-17
Date Collected: 04/01/25 11:44
Matrix: Water
Date Received: 04/04/25 16:00

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	0.497	U	0.446	0.447	5.00	0.646	pCi/L		05/05/25 14:25	1

Definitions/Glossary

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Qualifiers

HPLC/IC

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

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
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
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)
TNTC	Too Numerous To Count

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-451622/3
Matrix: Water
Analysis Batch: 451622

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			04/10/25 19:34	1
Fluoride	<0.075		0.20	0.075	mg/L			04/10/25 19:34	1
Sulfate	<0.42		1.0	0.42	mg/L			04/10/25 19:34	1

Lab Sample ID: LCS 310-451622/4
Matrix: Water
Analysis Batch: 451622

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	10.2		mg/L		102	90 - 110
Fluoride	2.00	2.10		mg/L		105	90 - 110
Sulfate	10.0	9.68		mg/L		97	90 - 110

Lab Sample ID: MB 310-451632/3
Matrix: Water
Analysis Batch: 451632

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			04/13/25 12:08	1
Fluoride	<0.075		0.20	0.075	mg/L			04/13/25 12:08	1
Sulfate	<0.42		1.0	0.42	mg/L			04/13/25 12:08	1

Lab Sample ID: LCS 310-451632/4
Matrix: Water
Analysis Batch: 451632

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	2.09		mg/L		104	90 - 110
Sulfate	10.0	9.93		mg/L		99	90 - 110

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-450884/1-A
Matrix: Water
Analysis Batch: 451166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 450884

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		04/08/25 09:00	04/09/25 17:05	1
Arsenic	<0.53		2.0	0.53	ug/L		04/08/25 09:00	04/09/25 17:05	1
Barium	<0.66		2.0	0.66	ug/L		04/08/25 09:00	04/09/25 17:05	1
Beryllium	<0.33		1.0	0.33	ug/L		04/08/25 09:00	04/09/25 17:05	1
Boron	<82		100	82	ug/L		04/08/25 09:00	04/09/25 17:05	1
Cadmium	<0.10		0.20	0.10	ug/L		04/08/25 09:00	04/09/25 17:05	1
Calcium	<0.19		0.50	0.19	mg/L		04/08/25 09:00	04/09/25 17:05	1
Chromium	<1.8		5.0	1.8	ug/L		04/08/25 09:00	04/09/25 17:05	1
Cobalt	<0.17		0.50	0.17	ug/L		04/08/25 09:00	04/09/25 17:05	1
Iron	<50		100	50	ug/L		04/08/25 09:00	04/09/25 17:05	1
Lead	0.462	J	0.50	0.33	ug/L		04/08/25 09:00	04/09/25 17:05	1
Lithium	<2.9		10	2.9	ug/L		04/08/25 09:00	04/09/25 17:05	1

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

Lab Sample ID: MB 310-450884/1-A
Matrix: Water
Analysis Batch: 451166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 450884

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	<0.15		0.50	0.15	mg/L		04/08/25 09:00	04/09/25 17:05	1
Manganese	<0.0036		0.010	0.0036	mg/L		04/08/25 09:00	04/09/25 17:05	1
Molybdenum	<1.3		2.0	1.3	ug/L		04/08/25 09:00	04/09/25 17:05	1
Potassium	<0.17		0.50	0.17	mg/L		04/08/25 09:00	04/09/25 17:05	1
Selenium	<1.4		5.0	1.4	ug/L		04/08/25 09:00	04/09/25 17:05	1
Sodium	<0.65		1.0	0.65	mg/L		04/08/25 09:00	04/09/25 17:05	1
Thallium	<0.57		1.0	0.57	ug/L		04/08/25 09:00	04/09/25 17:05	1

Lab Sample ID: LCS 310-450884/2-A
Matrix: Water
Analysis Batch: 451166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 450884

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	200	229		ug/L		114	80 - 120
Arsenic	200	211		ug/L		106	80 - 120
Barium	100	105		ug/L		105	80 - 120
Beryllium	100	96.4		ug/L		96	80 - 120
Boron	200	221		ug/L		111	80 - 120
Cadmium	100	104		ug/L		104	80 - 120
Calcium	2.00	1.80		mg/L		90	80 - 120
Chromium	100	103		ug/L		103	80 - 120
Cobalt	100	108		ug/L		108	80 - 120
Iron	200	213		ug/L		107	80 - 120
Lead	200	206		ug/L		103	80 - 120
Lithium	200	205		ug/L		103	80 - 120
Magnesium	2.00	2.02		mg/L		101	80 - 120
Manganese	0.100	0.100		mg/L		100	80 - 120
Molybdenum	200	199		ug/L		99	80 - 120
Potassium	2.00	2.01		mg/L		100	80 - 120
Selenium	400	400		ug/L		100	80 - 120
Sodium	2.00	2.10		mg/L		105	80 - 120
Thallium	100	86.7		ug/L		87	80 - 120

Lab Sample ID: 310-303530-1 MS
Matrix: Water
Analysis Batch: 451166

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 450884

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<1.0		200	208		ug/L		104	75 - 125
Arsenic	<0.53		200	192		ug/L		96	75 - 125
Barium	22		100	117		ug/L		95	75 - 125
Beryllium	<0.33		100	89.8		ug/L		90	75 - 125
Boron	<82		200	221		ug/L		110	75 - 125
Cadmium	<0.10		100	93.6		ug/L		94	75 - 125
Calcium	37		2.00	37.7	4	mg/L		50	75 - 125
Chromium	<1.8		100	91.9		ug/L		92	75 - 125
Cobalt	<0.17		100	95.9		ug/L		96	75 - 125
Iron	52	J	200	249		ug/L		98	75 - 125
Lead	0.53	B	200	187		ug/L		93	75 - 125

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

Lab Sample ID: 310-303530-1 MS
Matrix: Water
Analysis Batch: 451166

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 450884

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	4.5	J	200	189		ug/L		92	75 - 125
Magnesium	8000		2.00	9.93	4	mg/L		-4007 16	75 - 125
Manganese	280		0.100	0.369	4	mg/L		-2783 66	75 - 125
Molybdenum	<1.3		200	178		ug/L		89	75 - 125
Potassium	1100		2.00	2.85	4	mg/L		-5308 5	75 - 125
Selenium	1.5	J	400	369		ug/L		92	75 - 125
Sodium	7700		2.00	9.54	4	mg/L		-3863 90	75 - 125
Thallium	<0.57	F1	100	71.4	F1	ug/L		71	75 - 125

Lab Sample ID: 310-303530-1 MSD
Matrix: Water
Analysis Batch: 451166

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 450884

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<1.0		200	180		ug/L		90	75 - 125	14	20
Arsenic	<0.53		200	167		ug/L		84	75 - 125	14	20
Barium	22		100	105		ug/L		83	75 - 125	11	20
Beryllium	<0.33		100	78.2		ug/L		78	75 - 125	14	20
Boron	<82		200	202		ug/L		101	75 - 125	9	20
Cadmium	<0.10		100	80.9		ug/L		81	75 - 125	14	20
Calcium	37		2.00	39.9	4	mg/L		160	75 - 125	6	20
Chromium	<1.8		100	80.1		ug/L		80	75 - 125	14	20
Cobalt	<0.17		100	81.0		ug/L		81	75 - 125	17	20
Iron	52	J	200	217		ug/L		82	75 - 125	14	20
Lead	0.53	B	200	163		ug/L		81	75 - 125	14	20
Lithium	4.5	J	200	164		ug/L		80	75 - 125	14	20
Magnesium	8000		2.00	9.89	4	mg/L		-4007 19	75 - 125	0	20
Manganese	280		0.100	0.374	4	mg/L		-2783 61	75 - 125	1	20
Molybdenum	<1.3		200	155		ug/L		77	75 - 125	14	20
Potassium	1100		2.00	2.65	4	mg/L		-5309 5	75 - 125	7	20
Selenium	1.5	J	400	319		ug/L		79	75 - 125	15	20
Sodium	7700		2.00	9.56	4	mg/L		-3863 89	75 - 125	0	20
Thallium	<0.57	F1	100	73.5	F1	ug/L		73	75 - 125	3	20

Lab Sample ID: 310-303530-11 DU
Matrix: Water
Analysis Batch: 451166

Client Sample ID: MW-310
Prep Type: Total/NA
Prep Batch: 450884

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	26		26.0		ug/L		1	20
Beryllium	<0.33		<0.33		ug/L		NC	20

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

Lab Sample ID: 310-303530-11 DU
Matrix: Water
Analysis Batch: 451166

Client Sample ID: MW-310
Prep Type: Total/NA
Prep Batch: 450884

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Boron	980			978		ug/L				0.4	20
Cadmium	<0.10			<0.10		ug/L				NC	20
Calcium	130			128		mg/L				0.7	20
Chromium	<1.8			<1.8		ug/L				NC	20
Cobalt	0.18	J		0.191	J	ug/L				4	20
Iron	91	J		96.3	J	ug/L				5	20
Lead	0.43	J B		0.409	J	ug/L				6	20
Lithium	13			13.2		ug/L				2	20
Magnesium	48000			47600		ug/L				0.4	20
Manganese	36			38.0		ug/L				6	20
Molybdenum	<1.3			<1.3		ug/L				NC	20
Potassium	1800			1780		ug/L				0.3	20
Selenium	<1.4			<1.4		ug/L				NC	20
Sodium	38000			37800		ug/L				0.5	20
Thallium	<0.57			<0.57		ug/L				NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-451394/1-A
Matrix: Water
Analysis Batch: 451657

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 451394

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		04/14/25 13:13	04/15/25 10:28	1

Lab Sample ID: LCS 310-451394/2-A
Matrix: Water
Analysis Batch: 451657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 451394

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			1.67	1.73		ug/L		104	80 - 120		

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 310-450900/2
Matrix: Water
Analysis Batch: 450900

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3			1000	1000		mg/L		100	86 - 111		

Lab Sample ID: LCS 310-450900/25
Matrix: Water
Analysis Batch: 450900

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3			1000	1020		mg/L		102	86 - 111		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 310-450904/1
Matrix: Water
Analysis Batch: 450904

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			04/08/25 00:30	1

Lab Sample ID: LCS 310-450904/2
Matrix: Water
Analysis Batch: 450904

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	1040		mg/L		104	88 - 110

Lab Sample ID: MB 310-451017/1
Matrix: Water
Analysis Batch: 451017

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			04/08/25 16:50	1

Lab Sample ID: LCS 310-451017/2
Matrix: Water
Analysis Batch: 451017

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	950		mg/L		95	88 - 110

Lab Sample ID: MB 310-451144/1
Matrix: Water
Analysis Batch: 451144

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			04/09/25 21:56	1

Lab Sample ID: LCS 310-451144/2
Matrix: Water
Analysis Batch: 451144

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	980		mg/L		98	88 - 110

Lab Sample ID: MB 310-451286/1
Matrix: Water
Analysis Batch: 451286

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			04/10/25 22:05	1

Lab Sample ID: LCS 310-451286/2
Matrix: Water
Analysis Batch: 451286

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	966		mg/L		97	88 - 110

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: 310-303530-2 DU
Matrix: Water
Analysis Batch: 451286

Client Sample ID: MW-302
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	290			290		mg/L				0	16

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 310-450771/1
Matrix: Water
Analysis Batch: 450771

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		

Lab Sample ID: 310-303530-6 DU
Matrix: Water
Analysis Batch: 450771

Client Sample ID: MW-306
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				0.2	20

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-711580/1-A
Matrix: Water
Analysis Batch: 716201

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 711580

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	-0.09393	U	0.119	0.119	1.00	0.314	pCi/L	04/09/25 07:29	05/06/25 14:31	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*89.9*		*30 - 110*	*04/09/25 07:29*	*05/06/25 14:31*	*1*

Lab Sample ID: LCS 160-711580/2-A
Matrix: Water
Analysis Batch: 716201

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 711580

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium 226			9.58	7.956		1.15	1.00	0.377	pCi/L	83	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Barium	*93.2*		*30 - 110*

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-711585/1-A
Matrix: Water
Analysis Batch: 716201

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 711585

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	0.2545	U	0.356	0.357	1.00	0.599	pCi/L	04/09/25 07:34	05/06/25 10:24	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*89.9*		*30 - 110*	*04/09/25 07:34*	*05/06/25 10:24*	*1*
Y Carrier	*80.4*		*30 - 110*	*04/09/25 07:34*	*05/06/25 10:24*	*1*

Lab Sample ID: LCS 160-711585/2-A
Matrix: Water
Analysis Batch: 716201

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 711585

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium 228			9.47	11.96		1.52	1.00	0.474	pCi/L	126	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Barium	*93.2*		*30 - 110*
Y Carrier	*84.1*		*30 - 110*

HPLC/IC

Analysis Batch: 451622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303530-4	MW-304	Total/NA	Water	9056A	
310-303530-5	MW-305	Total/NA	Water	9056A	
310-303530-6	MW-306	Total/NA	Water	9056A	
310-303530-13	MW-312	Total/NA	Water	9056A	
310-303530-17	Field Blank	Total/NA	Water	9056A	
MB 310-451622/3	Method Blank	Total/NA	Water	9056A	
LCS 310-451622/4	Lab Control Sample	Total/NA	Water	9056A	

Analysis Batch: 451632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303530-1	MW-301	Total/NA	Water	9056A	
310-303530-2	MW-302	Total/NA	Water	9056A	
310-303530-3	MW-303	Total/NA	Water	9056A	
MB 310-451632/3	Method Blank	Total/NA	Water	9056A	
LCS 310-451632/4	Lab Control Sample	Total/NA	Water	9056A	

Metals

Prep Batch: 450884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303530-1	MW-301	Total/NA	Water	3005A	
310-303530-2	MW-302	Total/NA	Water	3005A	
310-303530-3	MW-303	Total/NA	Water	3005A	
310-303530-4	MW-304	Total/NA	Water	3005A	
310-303530-5	MW-305	Total/NA	Water	3005A	
310-303530-6	MW-306	Total/NA	Water	3005A	
310-303530-7	MW-306A	Total/NA	Water	3005A	
310-303530-8	MW-307	Total/NA	Water	3005A	
310-303530-9	MW-308	Total/NA	Water	3005A	
310-303530-10	MW-309	Total/NA	Water	3005A	
310-303530-11	MW-310	Total/NA	Water	3005A	
310-303530-12	MW-311	Total/NA	Water	3005A	
310-303530-13	MW-312	Total/NA	Water	3005A	
310-303530-14	MW-312A	Total/NA	Water	3005A	
310-303530-15	MW-313	Total/NA	Water	3005A	
310-303530-16	MW-314	Total/NA	Water	3005A	
310-303530-17	Field Blank	Total/NA	Water	3005A	
MB 310-450884/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-450884/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-303530-1 MS	MW-301	Total/NA	Water	3005A	
310-303530-1 MSD	MW-301	Total/NA	Water	3005A	
310-303530-11 DU	MW-310	Total/NA	Water	3005A	

Analysis Batch: 451166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303530-1	MW-301	Total/NA	Water	6020B	450884
310-303530-2	MW-302	Total/NA	Water	6020B	450884
310-303530-3	MW-303	Total/NA	Water	6020B	450884
310-303530-4	MW-304	Total/NA	Water	6020B	450884
310-303530-5	MW-305	Total/NA	Water	6020B	450884
310-303530-6	MW-306	Total/NA	Water	6020B	450884

Metals (Continued)

Analysis Batch: 451166 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303530-7	MW-306A	Total/NA	Water	6020B	450884
310-303530-8	MW-307	Total/NA	Water	6020B	450884
310-303530-9	MW-308	Total/NA	Water	6020B	450884
310-303530-10	MW-309	Total/NA	Water	6020B	450884
310-303530-11	MW-310	Total/NA	Water	6020B	450884
310-303530-12	MW-311	Total/NA	Water	6020B	450884
310-303530-13	MW-312	Total/NA	Water	6020B	450884
310-303530-14	MW-312A	Total/NA	Water	6020B	450884
310-303530-15	MW-313	Total/NA	Water	6020B	450884
310-303530-16	MW-314	Total/NA	Water	6020B	450884
310-303530-17	Field Blank	Total/NA	Water	6020B	450884
MB 310-450884/1-A	Method Blank	Total/NA	Water	6020B	450884
LCS 310-450884/2-A	Lab Control Sample	Total/NA	Water	6020B	450884
310-303530-1 MS	MW-301	Total/NA	Water	6020B	450884
310-303530-1 MSD	MW-301	Total/NA	Water	6020B	450884
310-303530-11 DU	MW-310	Total/NA	Water	6020B	450884

Analysis Batch: 451313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303530-12	MW-311	Total/NA	Water	6020B	450884
310-303530-13	MW-312	Total/NA	Water	6020B	450884
310-303530-14	MW-312A	Total/NA	Water	6020B	450884
310-303530-15	MW-313	Total/NA	Water	6020B	450884
310-303530-16	MW-314	Total/NA	Water	6020B	450884
310-303530-17	Field Blank	Total/NA	Water	6020B	450884

Prep Batch: 451394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303530-1	MW-301	Total/NA	Water	7470A	
310-303530-2	MW-302	Total/NA	Water	7470A	
310-303530-3	MW-303	Total/NA	Water	7470A	
310-303530-4	MW-304	Total/NA	Water	7470A	
310-303530-5	MW-305	Total/NA	Water	7470A	
310-303530-6	MW-306	Total/NA	Water	7470A	
310-303530-13	MW-312	Total/NA	Water	7470A	
310-303530-17	Field Blank	Total/NA	Water	7470A	
MB 310-451394/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-451394/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 451657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303530-1	MW-301	Total/NA	Water	7470A	451394
310-303530-2	MW-302	Total/NA	Water	7470A	451394
310-303530-3	MW-303	Total/NA	Water	7470A	451394
310-303530-4	MW-304	Total/NA	Water	7470A	451394
310-303530-5	MW-305	Total/NA	Water	7470A	451394
310-303530-6	MW-306	Total/NA	Water	7470A	451394
310-303530-13	MW-312	Total/NA	Water	7470A	451394
310-303530-17	Field Blank	Total/NA	Water	7470A	451394
MB 310-451394/1-A	Method Blank	Total/NA	Water	7470A	451394
LCS 310-451394/2-A	Lab Control Sample	Total/NA	Water	7470A	451394

QC Association Summary

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

General Chemistry

Analysis Batch: 450771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303530-1	MW-301	Total/NA	Water	SM 4500 H+ B	
310-303530-2	MW-302	Total/NA	Water	SM 4500 H+ B	
310-303530-3	MW-303	Total/NA	Water	SM 4500 H+ B	
310-303530-4	MW-304	Total/NA	Water	SM 4500 H+ B	
310-303530-5	MW-305	Total/NA	Water	SM 4500 H+ B	
310-303530-6	MW-306	Total/NA	Water	SM 4500 H+ B	
310-303530-13	MW-312	Total/NA	Water	SM 4500 H+ B	
310-303530-17	Field Blank	Total/NA	Water	SM 4500 H+ B	
LCS 310-450771/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
310-303530-6 DU	MW-306	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 450900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303530-7	MW-306A	Total/NA	Water	SM 2320B	
310-303530-10	MW-309	Total/NA	Water	SM 2320B	
310-303530-11	MW-310	Total/NA	Water	SM 2320B	
310-303530-12	MW-311	Total/NA	Water	SM 2320B	
310-303530-14	MW-312A	Total/NA	Water	SM 2320B	
310-303530-15	MW-313	Total/NA	Water	SM 2320B	
310-303530-16	MW-314	Total/NA	Water	SM 2320B	
LCS 310-450900/2	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 310-450900/25	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 450904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303530-17	Field Blank	Total/NA	Water	SM 2540C	
MB 310-450904/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-450904/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 451017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303530-1	MW-301	Total/NA	Water	SM 2540C	
310-303530-4	MW-304	Total/NA	Water	SM 2540C	
310-303530-5	MW-305	Total/NA	Water	SM 2540C	
MB 310-451017/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-451017/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 451144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303530-3	MW-303	Total/NA	Water	SM 2540C	
310-303530-6	MW-306	Total/NA	Water	SM 2540C	
310-303530-13	MW-312	Total/NA	Water	SM 2540C	
MB 310-451144/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-451144/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 451286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303530-2	MW-302	Total/NA	Water	SM 2540C	
MB 310-451286/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-451286/2	Lab Control Sample	Total/NA	Water	SM 2540C	
310-303530-2 DU	MW-302	Total/NA	Water	SM 2540C	

QC Association Summary

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Rad

Prep Batch: 711580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303530-1	MW-301	Total/NA	Water	PrecSep-21	
310-303530-2	MW-302	Total/NA	Water	PrecSep-21	
310-303530-3	MW-303	Total/NA	Water	PrecSep-21	
310-303530-4	MW-304	Total/NA	Water	PrecSep-21	
310-303530-5	MW-305	Total/NA	Water	PrecSep-21	
310-303530-6	MW-306	Total/NA	Water	PrecSep-21	
310-303530-13	MW-312	Total/NA	Water	PrecSep-21	
310-303530-17	Field Blank	Total/NA	Water	PrecSep-21	
MB 160-711580/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-711580/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 711585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303530-1	MW-301	Total/NA	Water	PrecSep_0	
310-303530-2	MW-302	Total/NA	Water	PrecSep_0	
310-303530-3	MW-303	Total/NA	Water	PrecSep_0	
310-303530-4	MW-304	Total/NA	Water	PrecSep_0	
310-303530-5	MW-305	Total/NA	Water	PrecSep_0	
310-303530-6	MW-306	Total/NA	Water	PrecSep_0	
310-303530-13	MW-312	Total/NA	Water	PrecSep_0	
310-303530-17	Field Blank	Total/NA	Water	PrecSep_0	
MB 160-711585/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-711585/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Field Service / Mobile Lab

Analysis Batch: 451468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-303530-1	MW-301	Total/NA	Water	Field Sampling	
310-303530-2	MW-302	Total/NA	Water	Field Sampling	
310-303530-3	MW-303	Total/NA	Water	Field Sampling	
310-303530-4	MW-304	Total/NA	Water	Field Sampling	
310-303530-5	MW-305	Total/NA	Water	Field Sampling	
310-303530-6	MW-306	Total/NA	Water	Field Sampling	
310-303530-7	MW-306A	Total/NA	Water	Field Sampling	
310-303530-8	MW-307	Total/NA	Water	Field Sampling	
310-303530-9	MW-308	Total/NA	Water	Field Sampling	
310-303530-10	MW-309	Total/NA	Water	Field Sampling	
310-303530-11	MW-310	Total/NA	Water	Field Sampling	
310-303530-12	MW-311	Total/NA	Water	Field Sampling	
310-303530-13	MW-312	Total/NA	Water	Field Sampling	
310-303530-14	MW-312A	Total/NA	Water	Field Sampling	
310-303530-15	MW-313	Total/NA	Water	Field Sampling	
310-303530-16	MW-314	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-301
Lab Sample ID: 310-303530-1
Date Collected: 04/02/25 16:43
Matrix: Water
Date Received: 04/04/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451632	WZC8	EET CF	04/13/25 18:28
Total/NA	Prep	3005A			450884	QTZ5	EET CF	04/08/25 09:00
Total/NA	Analysis	6020B		1	451166	NFT2	EET CF	04/09/25 17:10
Total/NA	Prep	7470A			451394	F5MW	EET CF	04/14/25 13:13
Total/NA	Analysis	7470A		1	451657	F5MW	EET CF	04/15/25 10:54
Total/NA	Analysis	SM 2540C		1	451017	XJ7V	EET CF	04/08/25 16:50
Total/NA	Analysis	SM 4500 H+ B		1	450771	WZC8	EET CF	04/04/25 17:43
Total/NA	Prep	PrecSep-21			711580	OGC	EET SL	04/09/25 07:29
Total/NA	Analysis	903.0		1	716201	SWS	EET SL	05/06/25 14:31
Total/NA	Prep	PrecSep_0			711585	OGC	EET SL	04/09/25 07:34
Total/NA	Analysis	904.0		1	716201	SWS	EET SL	05/06/25 10:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	715742	SCB	EET SL	05/05/25 14:25
Total/NA	Analysis	Field Sampling		1	451468	FQT6	EET CF	04/02/25 16:43

Client Sample ID: MW-302
Lab Sample ID: 310-303530-2
Date Collected: 04/04/25 10:10
Matrix: Water
Date Received: 04/04/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451632	WZC8	EET CF	04/13/25 18:41
Total/NA	Prep	3005A			450884	QTZ5	EET CF	04/08/25 09:00
Total/NA	Analysis	6020B		1	451166	NFT2	EET CF	04/09/25 17:20
Total/NA	Prep	7470A			451394	F5MW	EET CF	04/14/25 13:13
Total/NA	Analysis	7470A		1	451657	F5MW	EET CF	04/15/25 10:56
Total/NA	Analysis	SM 2540C		1	451286	XJ7V	EET CF	04/10/25 22:05
Total/NA	Analysis	SM 4500 H+ B		1	450771	WZC8	EET CF	04/04/25 17:43
Total/NA	Prep	PrecSep-21			711580	OGC	EET SL	04/09/25 07:29
Total/NA	Analysis	903.0		1	716200	SWS	EET SL	05/06/25 14:24
Total/NA	Prep	PrecSep_0			711585	OGC	EET SL	04/09/25 07:34
Total/NA	Analysis	904.0		1	716201	SWS	EET SL	05/06/25 10:25
Total/NA	Analysis	Ra226_Ra228 Pos		1	715742	SCB	EET SL	05/05/25 14:25
Total/NA	Analysis	Field Sampling		1	451468	FQT6	EET CF	04/04/25 10:10

Client Sample ID: MW-303
Lab Sample ID: 310-303530-3
Date Collected: 04/03/25 15:21
Matrix: Water
Date Received: 04/04/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451632	WZC8	EET CF	04/13/25 18:54
Total/NA	Prep	3005A			450884	QTZ5	EET CF	04/08/25 09:00
Total/NA	Analysis	6020B		1	451166	NFT2	EET CF	04/09/25 17:29
Total/NA	Prep	7470A			451394	F5MW	EET CF	04/14/25 13:13
Total/NA	Analysis	7470A		1	451657	F5MW	EET CF	04/15/25 10:58
Total/NA	Analysis	SM 2540C		1	451144	MDU9	EET CF	04/09/25 21:56

Lab Chronicle

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-303
Date Collected: 04/03/25 15:21
Date Received: 04/04/25 16:00

Lab Sample ID: 310-303530-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 H+ B		1	450771	WZC8	EET CF	04/04/25 17:43
Total/NA	Prep	PrecSep-21			711580	OGC	EET SL	04/09/25 07:29
Total/NA	Analysis	903.0		1	716200	SWS	EET SL	05/06/25 14:25
Total/NA	Prep	PrecSep_0			711585	OGC	EET SL	04/09/25 07:34
Total/NA	Analysis	904.0		1	716201	SWS	EET SL	05/06/25 10:25
Total/NA	Analysis	Ra226_Ra228 Pos		1	715742	SCB	EET SL	05/05/25 14:25
Total/NA	Analysis	Field Sampling		1	451468	FQT6	EET CF	04/03/25 15:21

Client Sample ID: MW-304
Date Collected: 04/02/25 13:07
Date Received: 04/04/25 16:00

Lab Sample ID: 310-303530-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451622	WZC8	EET CF	04/11/25 00:29
Total/NA	Prep	3005A			450884	QTZ5	EET CF	04/08/25 09:00
Total/NA	Analysis	6020B		1	451166	NFT2	EET CF	04/09/25 17:31
Total/NA	Prep	7470A			451394	F5MW	EET CF	04/14/25 13:13
Total/NA	Analysis	7470A		1	451657	F5MW	EET CF	04/15/25 11:00
Total/NA	Analysis	SM 2540C		1	451017	XJ7V	EET CF	04/08/25 16:50
Total/NA	Analysis	SM 4500 H+ B		1	450771	WZC8	EET CF	04/04/25 17:43
Total/NA	Prep	PrecSep-21			711580	OGC	EET SL	04/09/25 07:29
Total/NA	Analysis	903.0		1	716200	SWS	EET SL	05/06/25 14:25
Total/NA	Prep	PrecSep_0			711585	OGC	EET SL	04/09/25 07:34
Total/NA	Analysis	904.0		1	716201	SWS	EET SL	05/06/25 10:25
Total/NA	Analysis	Ra226_Ra228 Pos		1	715742	SCB	EET SL	05/05/25 14:25
Total/NA	Analysis	Field Sampling		1	451468	FQT6	EET CF	04/02/25 13:07

Client Sample ID: MW-305
Date Collected: 04/02/25 14:53
Date Received: 04/04/25 16:00

Lab Sample ID: 310-303530-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451622	WZC8	EET CF	04/11/25 00:43
Total/NA	Prep	3005A			450884	QTZ5	EET CF	04/08/25 09:00
Total/NA	Analysis	6020B		1	451166	NFT2	EET CF	04/09/25 17:34
Total/NA	Prep	7470A			451394	F5MW	EET CF	04/14/25 13:13
Total/NA	Analysis	7470A		1	451657	F5MW	EET CF	04/15/25 11:03
Total/NA	Analysis	SM 2540C		1	451017	XJ7V	EET CF	04/08/25 16:50
Total/NA	Analysis	SM 4500 H+ B		1	450771	WZC8	EET CF	04/04/25 17:43
Total/NA	Prep	PrecSep-21			711580	OGC	EET SL	04/09/25 07:29
Total/NA	Analysis	903.0		1	716200	SWS	EET SL	05/06/25 14:25
Total/NA	Prep	PrecSep_0			711585	OGC	EET SL	04/09/25 07:34
Total/NA	Analysis	904.0		1	716201	SWS	EET SL	05/06/25 10:25
Total/NA	Analysis	Ra226_Ra228 Pos		1	715742	SCB	EET SL	05/05/25 14:25

Lab Chronicle

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-305
Lab Sample ID: 310-303530-5
Date Collected: 04/02/25 14:53
Matrix: Water
Date Received: 04/04/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	451468	FQT6	EET CF	04/02/25 14:53

Client Sample ID: MW-306
Lab Sample ID: 310-303530-6
Date Collected: 04/03/25 13:59
Matrix: Water
Date Received: 04/04/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451622	WZC8	EET CF	04/11/25 00:57
Total/NA	Prep	3005A			450884	QTZ5	EET CF	04/08/25 09:00
Total/NA	Analysis	6020B		1	451166	NFT2	EET CF	04/09/25 17:36
Total/NA	Prep	7470A			451394	F5MW	EET CF	04/14/25 13:13
Total/NA	Analysis	7470A		1	451657	F5MW	EET CF	04/15/25 11:05
Total/NA	Analysis	SM 2540C		1	451144	MDU9	EET CF	04/09/25 21:56
Total/NA	Analysis	SM 4500 H+ B		1	450771	WZC8	EET CF	04/04/25 17:43
Total/NA	Prep	PrecSep-21			711580	OGC	EET SL	04/09/25 07:29
Total/NA	Analysis	903.0		1	716200	SWS	EET SL	05/06/25 14:25
Total/NA	Prep	PrecSep_0			711585	OGC	EET SL	04/09/25 07:34
Total/NA	Analysis	904.0		1	716201	SWS	EET SL	05/06/25 10:25
Total/NA	Analysis	Ra226_Ra228 Pos		1	715742	SCB	EET SL	05/05/25 14:25
Total/NA	Analysis	Field Sampling		1	451468	FQT6	EET CF	04/03/25 13:59

Client Sample ID: MW-306A
Lab Sample ID: 310-303530-7
Date Collected: 04/03/25 13:09
Matrix: Water
Date Received: 04/04/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			450884	QTZ5	EET CF	04/08/25 09:00
Total/NA	Analysis	6020B		1	451166	NFT2	EET CF	04/09/25 17:39
Total/NA	Analysis	SM 2320B		1	450900	HE7K	EET CF	04/07/25 17:19
Total/NA	Analysis	Field Sampling		1	451468	FQT6	EET CF	04/03/25 13:09

Client Sample ID: MW-307
Lab Sample ID: 310-303530-8
Date Collected: 04/02/25 18:26
Matrix: Water
Date Received: 04/04/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			450884	QTZ5	EET CF	04/08/25 09:00
Total/NA	Analysis	6020B		1	451166	NFT2	EET CF	04/09/25 17:41
Total/NA	Analysis	Field Sampling		1	451468	FQT6	EET CF	04/02/25 18:26

Lab Chronicle

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-308
Date Collected: 04/04/25 11:31
Date Received: 04/04/25 16:00

Lab Sample ID: 310-303530-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			450884	QTZ5	EET CF	04/08/25 09:00
Total/NA	Analysis	6020B		1	451166	NFT2	EET CF	04/09/25 17:43
Total/NA	Analysis	Field Sampling		1	451468	FQT6	EET CF	04/04/25 11:31

Client Sample ID: MW-309
Date Collected: 04/02/25 10:21
Date Received: 04/04/25 16:00

Lab Sample ID: 310-303530-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			450884	QTZ5	EET CF	04/08/25 09:00
Total/NA	Analysis	6020B		1	451166	NFT2	EET CF	04/09/25 17:46
Total/NA	Analysis	SM 2320B		1	450900	HE7K	EET CF	04/07/25 17:30
Total/NA	Analysis	Field Sampling		1	451468	FQT6	EET CF	04/02/25 10:21

Client Sample ID: MW-310
Date Collected: 04/02/25 11:20
Date Received: 04/04/25 16:00

Lab Sample ID: 310-303530-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			450884	QTZ5	EET CF	04/08/25 09:00
Total/NA	Analysis	6020B		1	451166	NFT2	EET CF	04/09/25 17:48
Total/NA	Analysis	SM 2320B		1	450900	HE7K	EET CF	04/07/25 11:58
Total/NA	Analysis	Field Sampling		1	451468	FQT6	EET CF	04/02/25 11:20

Client Sample ID: MW-311
Date Collected: 04/02/25 12:06
Date Received: 04/04/25 16:00

Lab Sample ID: 310-303530-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			450884	QTZ5	EET CF	04/08/25 09:00
Total/NA	Analysis	6020B		1	451166	NFT2	EET CF	04/09/25 18:00
Total/NA	Prep	3005A			450884	QTZ5	EET CF	04/08/25 09:00
Total/NA	Analysis	6020B		1	451313	NFT2	EET CF	04/10/25 12:03
Total/NA	Analysis	SM 2320B		1	450900	HE7K	EET CF	04/07/25 12:07
Total/NA	Analysis	Field Sampling		1	451468	FQT6	EET CF	04/02/25 12:06

Client Sample ID: MW-312
Date Collected: 04/03/25 10:49
Date Received: 04/04/25 16:00

Lab Sample ID: 310-303530-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	451622	WZC8	EET CF	04/11/25 01:11
Total/NA	Prep	3005A			450884	QTZ5	EET CF	04/08/25 09:00
Total/NA	Analysis	6020B		1	451166	NFT2	EET CF	04/09/25 18:03

Lab Chronicle

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-312
Lab Sample ID: 310-303530-13
Date Collected: 04/03/25 10:49
Matrix: Water
Date Received: 04/04/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			450884	QTZ5	EET CF	04/08/25 09:00
Total/NA	Analysis	6020B		1	451313	NFT2	EET CF	04/10/25 12:06
Total/NA	Prep	7470A			451394	F5MW	EET CF	04/14/25 13:13
Total/NA	Analysis	7470A		1	451657	F5MW	EET CF	04/15/25 11:07
Total/NA	Analysis	SM 2540C		1	451144	MDU9	EET CF	04/09/25 21:56
Total/NA	Analysis	SM 4500 H+ B		1	450771	WZC8	EET CF	04/04/25 17:43
Total/NA	Prep	PrecSep-21			711580	OGC	EET SL	04/09/25 07:29
Total/NA	Analysis	903.0		1	716200	SWS	EET SL	05/06/25 14:25
Total/NA	Prep	PrecSep_0			711585	OGC	EET SL	04/09/25 07:34
Total/NA	Analysis	904.0		1	716201	SWS	EET SL	05/06/25 10:25
Total/NA	Analysis	Ra226_Ra228 Pos		1	715742	SCB	EET SL	05/05/25 14:25
Total/NA	Analysis	Field Sampling		1	451468	FQT6	EET CF	04/03/25 10:49

Client Sample ID: MW-312A
Lab Sample ID: 310-303530-14
Date Collected: 04/03/25 12:15
Matrix: Water
Date Received: 04/04/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			450884	QTZ5	EET CF	04/08/25 09:00
Total/NA	Analysis	6020B		1	451166	NFT2	EET CF	04/09/25 18:05
Total/NA	Prep	3005A			450884	QTZ5	EET CF	04/08/25 09:00
Total/NA	Analysis	6020B		1	451313	NFT2	EET CF	04/10/25 12:08
Total/NA	Analysis	SM 2320B		1	450900	HE7K	EET CF	04/07/25 12:26
Total/NA	Analysis	Field Sampling		1	451468	FQT6	EET CF	04/03/25 12:15

Client Sample ID: MW-313
Lab Sample ID: 310-303530-15
Date Collected: 04/01/25 11:34
Matrix: Water
Date Received: 04/04/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			450884	QTZ5	EET CF	04/08/25 09:00
Total/NA	Analysis	6020B		1	451166	NFT2	EET CF	04/09/25 18:07
Total/NA	Prep	3005A			450884	QTZ5	EET CF	04/08/25 09:00
Total/NA	Analysis	6020B		1	451313	NFT2	EET CF	04/10/25 12:10
Total/NA	Analysis	SM 2320B		1	450900	HE7K	EET CF	04/07/25 12:44
Total/NA	Analysis	Field Sampling		1	451468	FQT6	EET CF	04/01/25 11:34

Client Sample ID: MW-314
Lab Sample ID: 310-303530-16
Date Collected: 04/01/25 12:56
Matrix: Water
Date Received: 04/04/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			450884	QTZ5	EET CF	04/08/25 09:00
Total/NA	Analysis	6020B		1	451166	NFT2	EET CF	04/09/25 18:10

Lab Chronicle

Client: SCS Engineers
Job ID: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-314
Lab Sample ID: 310-303530-16
Date Collected: 04/01/25 12:56
Matrix: Water
Date Received: 04/04/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			450884	QTZ5	EET CF	04/08/25 09:00
Total/NA	Analysis	6020B		1	451313	NFT2	EET CF	04/10/25 12:13
Total/NA	Analysis	SM 2320B		1	450900	HE7K	EET CF	04/07/25 12:55
Total/NA	Analysis	Field Sampling		1	451468	FQT6	EET CF	04/01/25 12:56

Client Sample ID: Field Blank
Lab Sample ID: 310-303530-17
Date Collected: 04/01/25 11:44
Matrix: Water
Date Received: 04/04/25 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		1	451622	WZC8	EET CF	04/11/25 01:25
Total/NA	Prep	3005A			450884	QTZ5	EET CF	04/08/25 09:00
Total/NA	Analysis	6020B		1	451166	NFT2	EET CF	04/09/25 18:12
Total/NA	Prep	3005A			450884	QTZ5	EET CF	04/08/25 09:00
Total/NA	Analysis	6020B		1	451313	NFT2	EET CF	04/10/25 12:15
Total/NA	Prep	7470A			451394	F5MW	EET CF	04/14/25 13:13
Total/NA	Analysis	7470A		1	451657	F5MW	EET CF	04/15/25 11:09
Total/NA	Analysis	SM 2540C		1	450904	MDU9	EET CF	04/08/25 00:30
Total/NA	Analysis	SM 4500 H+ B		1	450771	WZC8	EET CF	04/04/25 17:43
Total/NA	Prep	PrecSep-21			711580	OGC	EET SL	04/09/25 07:29
Total/NA	Analysis	903.0		1	716200	SWS	EET SL	05/06/25 14:25
Total/NA	Prep	PrecSep_0			711585	OGC	EET SL	04/09/25 07:34
Total/NA	Analysis	904.0		1	716201	SWS	EET SL	05/06/25 10:25
Total/NA	Analysis	Ra226_Ra228 Pos		1	715742	SCB	EET SL	05/05/25 14:25

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: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

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: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

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 2320B	Alkalinity	SM	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 Pos	Combined Radium-226 and Radium-228	TAL-STL	EET SL
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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310-303530 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY Madison | STATE WI | Project:

Receipt Information

Date/Time Received: DATE 4.4.25 | TIME 1600 | Received By: PH

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

Condition of Cooler/Containers

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

Multiple Coolers? ☒ Yes ☐ No *If yes:* Cooler # 1 of 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: R | 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): 1.0 | Corrected Temp (°C): 1.0

• **Sample Container Temperature**

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

Exceptions Noted

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

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

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

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State. CITY: Madison STATE: WI Project:

Receipt Information

Date/Time Received: DATE: 4.4.25 TIME: 1600 Received By: PH

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

Condition of Cooler/Containers

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

Multiple Coolers? ☒ Yes ☐ No *If yes:* Cooler # 2 of 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: R 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

City/State | CITY: Madison | STATE: WI | Project.

Receipt Information

Date/Time Received: | DATE: 4.4.25 | TIME: 1600 | Received By: PH

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

Condition of Cooler/Containers

Sample(s) received in Cooler?	☑ Yes	☐ No	*If yes:* Cooler ID
Multiple Coolers?	☑ Yes	☐ No	*If yes:* Cooler # 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: R | 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): 0.6 | Corrected Temp (°C): 0.6

• Sample Container Temperature

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

Exceptions Noted

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

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

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

Additional Comments

08/27/2026 - Classification: Internal - ECRM13799659

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 #: 25225076			
Email: mblodgett@scsengineers.com	WO #:			
Project Name: Sutherland Generating Station 25225076	Project #: 25225076			
Site: Marshalltown 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 total (Sb As Ba Be B Ca Cd Cr Co Fe Pb Li Mo Se Tl)	7470 Mercury total	6020 metals total (Fe and Li)	6020 metals total (Ca Mg Mn K Na)	TDS and pH	Chloride Fluoride Sulfate	EPA 903/904 Radium 226 + 228	Bicarbonate & carbonate alkalinity	Total Number of containers	Special Instructions/Note
			Preservation Code:				D	D	D	I	I	I	D	I		
MW-301	4/2/25	16:43	G	W	N		X	X			X	X	X			
MW-302	4/4/25	10 10	G	W	N		X	X			X	X	X			
MW-303	4/3/25	15:21	G	W	N		X	X			X	X	X			
MW-304	4/2/25	13 07	G	W	N		X	X			X	X	X			
MW-305	4/2/25	14.53	G	W	N		X	X			X	X	X			
MW-306	4/3/25	13 59	G	W	N		X	X			X	X	X			
MW-306A	4/3/25	13 09	G	W	N				X	X				X		
MW-307	4/2/25	18 26	G	W	N				X							
MW-308	4/4/25	11 31	G	W	N				X							
MW-309	4/2/25	10 21	G	W	N				X	X				X		
MW-310	4/2/25	11 20	G	W	N				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	4/4/25 1300	SCS Engineers		4.4.25 1600	
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

5/14/2025 (Rev. 2)

08/27/2026 - Classification: Internal - ECRM13799659

5/14/2025 (Rev. 2)

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 #: 25225076			
Email: mblodgett@scsengineers.com	WO #:			
Project Name: Sutherland Generating Station 25225076	Project #: 25225076			
Site: Marshalltown 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 total (Sb As Ba Be B Ca Cd Cr Co Fe Pb Li Mo Se Tl)	7470 Mercury total	6020 metals total (Fe and Li)	6020 metals total (Ca Mg Mn K Na)	TDS and pH	Chloride Fluoride Sulfate	EPA 903/904 Radium 226 + 228	Bicarbonate & carbonate alkalinity	Total Number of containers	Special Instructions/Note
			Preservation Code:				D	D	D	I	I	I	D	I		
MW-311	4/2/25	12 06	G	W	N				X	X				X		
MW-312	4/3/25	10 49	G	W	N		X	X		X	X	X	X	X		
MW-312A	4/3/25	12:15	G	W	N				X	X				X		
MW-313	4/1/25	11:34	G	W	N				X	X				X		
MW-314	4/1/25	12:56	G	W	N				X	X				X		
Field Blank	4/1/25	11 44	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	4/4/25 13 30	SCS Engineers		4.4.25 1600	
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

08/27/2026 - Classification: Internal - ECRM13799659

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): N/A	COC No: 310-81818.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Iowa	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Iowa		Job #: 310-303530-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 4/17/2025			
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Sutherland Generating Station 25225076	Project #: 31011020			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 Radium-226 (GFPC)	904.0/PrecSep_0 Radium-228 (GFPC)	Ra226_228GFPC_P/ Combined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-301 (310-303530-1)	4/2/25	16:43 Central	G	Water			X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-302 (310-303530-2)	4/4/25	10:10 Central	G	Water			X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-303 (310-303530-3)	4/3/25	15:21 Central	G	Water			X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-304 (310-303530-4)	4/2/25	13:07 Central	G	Water			X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-305 (310-303530-5)	4/2/25	14:53 Central	G	Water			X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-306 (310-303530-6)	4/3/25	13:59 Central	G	Water			X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS
Field Blank (310-303530-17)	4/1/25	11:44 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
[signature]	4/25/1700		Sierra Worthington	4/8/25 0825	EMSL
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: 10/10/2024

5/14/2025 (Rev. 2)

08/27/2026 - Classification: Internal - ECRM13799659

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): N/A	COC No: 310-81819.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Iowa	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Iowa		Job #: 310-303530-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 4/17/2025			
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Sutherland Generating Station 25225076	Project #: 31011020			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 Radium-226 (GFPC)	904.0/PrecSep_0 Radium-228 (GFPC)	Ra226_228GFPC_P/ Combined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-312 (310-303530-13)	4/3/25	10:49 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	[signature]	4/22 1210		Sierra Worthington	4/8/25 0825	EMSL
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: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

5/14/2025 (Rev. 2)

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-303530-1

Login Number: 303530
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: 310-303530-1

Login Number: 303530
List Number: 2
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 04/08/25 12:16 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: 310-303530-1
Project/Site: Sutherland Generating Station 25225076

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)
310-303530-1	MW-301	87.4
310-303530-2	MW-302	88.9
310-303530-3	MW-303	83.1
310-303530-4	MW-304	89.1
310-303530-5	MW-305	85.1
310-303530-6	MW-306	93.9
310-303530-13	MW-312	90.4
310-303530-17	Field Blank	92.2
LCS 160-711580/2-A	Lab Control Sample	93.2
MB 160-711580/1-A	Method Blank	89.9

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)
310-303530-1	MW-301	87.4	82.2
310-303530-2	MW-302	88.9	78.5
310-303530-3	MW-303	83.1	78.5
310-303530-4	MW-304	89.1	86.0
310-303530-5	MW-305	85.1	79.6
310-303530-6	MW-306	93.9	80.0
310-303530-13	MW-312	90.4	86.0
310-303530-17	Field Blank	92.2	75.1
LCS 160-711585/2-A	Lab Control Sample	93.2	84.1
MB 160-711585/1-A	Method Blank	89.9	80.4

Tracer/Carrier Legend

Ba = Barium
Y = Y Carrier

Groundwater Monitoring Results - Field Parameters
Sutherland Generating Station / SCS Engineers Project #25225076.00
April 2025

Sample	Sample Date	GW Elevation (feet amsl)	Temperature (Deg. C)	pH (Std. Units)	Dissolved Oxygen (mg/L)	Specific Conductivity (µs/cm)	ORP (mV)	Turbidity (NTU)
MW-301	4/2/2025	853.28	10.8	6.28	1.60	272.5	441.8	19.47
MW-302	4/4/2025	853.85	8.4	7.20	0.01	521.0	370.7	6.29
MW-303	4/3/2025	852.44	8.4	6.95	0.01	667	418.6	18.65
MW-304	4/2/2025	852.19	12.3	6.64	2.51	961	453.3	3.11
MW-305	4/2/2025	852.07	11.8	7.01	0.59	976	445.4	3.75
MW-306	4/3/2025	852.02	10.4	7.80	0.13	991	380.9	5.30
MW-306A	4/3/2025	852.41	11.3	7.54	0.14	838	263.0	4.12
MW-307	4/2/2025	852.95	9.9	6.57	0.19	1303	440.9	4.1
MW-308	4/4/2025	853.23	7.8	6.44	-0.21	1650	414.7	30.01
MW-309	4/2/2025	851.06	9.4	7.29	0.73	896	419.8	4.64
MW-310	4/2/2025	851.07	9.7	7.06	0.22	1117	417.5	4.81
MW-311	4/2/2025	851.02	8.8	7.13	0.14	969	426.1	2.54
MW-312	4/3/2025	852.48	9.9	7.72	0.07	863	381.4	6.78
MW-312A	4/3/2025	852.47	11.2	7.52	0.25	937	130.8	4.12
MW-313	4/1/2025	852.14	9.3	7.26	0.18	846	298.8	3.44
MW-314	4/1/2025	851.84	7.5	7.32	1.98	907	402.4	5.89

Abbreviations:
mg/L = milligrams per liter
Deg C = Degrees Celsius
µs/cm = MicroSiemens per Centimeter
mV = millivolts
amsl = above mean sea level
Std. Units = Standard Units

Created by: RM Date: 4/17/2024
Last revision by: BAS Date: 4/8/2025
Checked by: RM Date: 4/11/2025

C:\Users\hld0\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\PRLI83CC\[2504_Sutherland_CCR_Field.xlsx]GW Field Parameters

C2 October 2025 Assessment Monitoring

08/27/2026 - Classification: Internal - ECRM13799659

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/24/2025 2:31:28 PM

JOB DESCRIPTION

Sutherland Generating Station 25225076

JOB NUMBER

310-318403-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

my EOL

Job Notes

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

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

Authorization



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Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
310-318403-1

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

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

Receipt
The samples were received on 10/18/2025 4:15 PM and 10/20/2025 3:30 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 0.1°C, 1.3°C and 3.3°C.

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

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

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

Gas Flow Proportional Counter
Method 904.0: Radium 228 Batch 741930 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-312 (310-318403-8)

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

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

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

Sample Summary

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
310-318403-1	MW-304	Water	10/16/25 15:58	10/18/25 16:15	Iowa
310-318403-2	MW-305	Water	10/16/25 15:20	10/18/25 16:15	Iowa
310-318403-3	MW-306	Water	10/14/25 16:25	10/18/25 16:15	Iowa
310-318403-4	MW-306A	Water	10/15/25 13:06	10/18/25 16:15	Iowa
310-318403-5	MW-312A	Water	10/15/25 17:00	10/18/25 16:15	Iowa
310-318403-6	MW-313	Water	10/16/25 16:59	10/18/25 16:15	Iowa
310-318403-7	MW-314	Water	10/16/25 17:35	10/18/25 16:15	Iowa
310-318403-8	MW-312	Water	10/15/25 15:00	10/18/25 16:15	Iowa
310-318403-9	MW-307	Water	10/15/25 18:39	10/18/25 16:15	Iowa
310-318403-10	MW-308	Water	10/16/25 18:34	10/18/25 16:15	Iowa
310-318444-1	MW-301	Water	10/17/25 15:00	10/20/25 15:30	Iowa
310-318444-2	MW-302	Water	10/17/25 15:46	10/20/25 15:30	Iowa
310-318444-3	MW-303	Water	10/17/25 14:00	10/20/25 15:30	Iowa
310-318444-4	MW-309	Water	10/17/25 17:38	10/20/25 15:30	Iowa
310-318444-5	MW-310	Water	10/17/25 17:14	10/20/25 15:30	Iowa
310-318444-6	MW-311	Water	10/17/25 16:44	10/20/25 15:30	Iowa
310-318444-7	Field Blank	Water	10/17/25 18:01	10/20/25 15:30	Iowa

Detection Summary

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-304 — Lab Sample ID: 310-318403-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11		5.0	2.3	mg/L	5		9056A	Total/NA
Fluoride	1.5		1.0	0.38	mg/L	5		9056A	Total/NA
Sulfate	230		5.0	2.1	mg/L	5		9056A	Total/NA
Antimony	1.3	J	2.0	1.0	ug/L	1		6020B	Total/NA
Arsenic	0.53	J	2.0	0.53	ug/L	1		6020B	Total/NA
Barium	21		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	830		100	82	ug/L	1		6020B	Total/NA
Calcium	110		0.50	0.19	mg/L	1		6020B	Total/NA
Lithium	3.5	J	10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	1.3	J	2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	540		50	36	mg/L	1		SM 2540C	Total/NA
pH	6.9		1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	852.38				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	188.7				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.28				mg/L	1		Field Sampling	Total/NA
Field pH	6.90				SU	1		Field Sampling	Total/NA
Field Conductivity	850				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	15.1				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	2.39				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-305 — Lab Sample ID: 310-318403-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	29		5.0	2.3	mg/L	5		9056A	Total/NA
Fluoride	0.90	J	1.0	0.38	mg/L	5		9056A	Total/NA
Sulfate	270		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	9.9		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	46		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	960		100	82	ug/L	1		6020B	Total/NA
Calcium	110		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	0.65		0.50	0.17	ug/L	1		6020B	Total/NA
Iron	150		100	50	ug/L	1		6020B	Total/NA
Lithium	41		10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	39		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	650		50	36	mg/L	1		SM 2540C	Total/NA
pH	7.8		1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	852.19				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	216.9				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.25				mg/L	1		Field Sampling	Total/NA
Field pH	7.78				SU	1		Field Sampling	Total/NA
Field Conductivity	944				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	14.8				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.22				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-306 — Lab Sample ID: 310-318403-3

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	0.44	J	1.0	0.38	mg/L	5		9056A	Total/NA
Sulfate	330		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	5.8		2.0	0.53	ug/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample ID: MW-306 (Continued) — Lab Sample ID: 310-318403-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	64		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	3000		100	82	ug/L	1		6020B	Total/NA
Calcium	150		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	0.38	J	0.50	0.17	ug/L	1		6020B	Total/NA
Iron	57	J	100	50	ug/L	1		6020B	Total/NA
Lithium	99		10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	77		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	720		50	36	mg/L	1		SM 2540C	Total/NA
pH	7.8		1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	852.13				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-28.2				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.10				mg/L	1		Field Sampling	Total/NA
Field pH	7.52				SU	1		Field Sampling	Total/NA
Field Conductivity	1005				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	14.2				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	2.01				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-306A — Lab Sample ID: 310-318403-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	140		0.50	0.19	mg/L	1		6020B	Total/NA
Iron	650		100	50	ug/L	1		6020B	Total/NA
Lithium	38		10	2.9	ug/L	1		6020B	Total/NA
Magnesium	17000		500	150	ug/L	1		6020B	Total/NA
Manganese	650		10	3.6	ug/L	1		6020B	Total/NA
Potassium	7000		500	170	ug/L	1		6020B	Total/NA
Sodium	19000		1000	650	ug/L	1		6020B	Total/NA
Bicarbonate Alkalinity as CaCO3	280		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Total Alkalinity as CaCO3	280		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Groundwater Elevation	852.32				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-94.4				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.13				mg/L	1		Field Sampling	Total/NA
Field pH	7.41				SU	1		Field Sampling	Total/NA
Field Conductivity	849				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	13.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.99				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-312A — Lab Sample ID: 310-318403-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	130		0.50	0.19	mg/L	1		6020B	Total/NA
Iron	950		100	50	ug/L	1		6020B	Total/NA
Lithium	31		10	2.9	ug/L	1		6020B	Total/NA
Magnesium	27000		500	150	ug/L	1		6020B	Total/NA
Manganese	660		10	3.6	ug/L	1		6020B	Total/NA
Potassium	6400		500	170	ug/L	1		6020B	Total/NA
Sodium	25000		1000	650	ug/L	1		6020B	Total/NA
Bicarbonate Alkalinity as CaCO3	280		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Total Alkalinity as CaCO3	280		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Groundwater Elevation	852.57				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-107.2				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.12				mg/L	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-312A (Continued) — Lab Sample ID: 310-318403-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.42				SU	1		Field Sampling	Total/NA
Field Conductivity	889				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	14.7				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.91				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-313 — Lab Sample ID: 310-318403-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	140		0.50	0.19	mg/L	1		6020B	Total/NA
Iron	610		100	50	ug/L	1		6020B	Total/NA
Lithium	43		10	2.9	ug/L	1		6020B	Total/NA
Magnesium	37000		500	150	ug/L	1		6020B	Total/NA
Manganese	3700		10	3.6	ug/L	1		6020B	Total/NA
Potassium	5700		500	170	ug/L	1		6020B	Total/NA
Sodium	26000		1000	650	ug/L	1		6020B	Total/NA
Bicarbonate Alkalinity as CaCO3	330		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Total Alkalinity as CaCO3	330		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Groundwater Elevation	851.98				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	199.2				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.14				mg/L	1		Field Sampling	Total/NA
Field pH	7.15				SU	1		Field Sampling	Total/NA
Field Conductivity	1004				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	13.9				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	10.62				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-314 — Lab Sample ID: 310-318403-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	120		0.50	0.19	mg/L	1		6020B	Total/NA
Iron	400		100	50	ug/L	1		6020B	Total/NA
Lithium	49		10	2.9	ug/L	1		6020B	Total/NA
Magnesium	29000		500	150	ug/L	1		6020B	Total/NA
Manganese	580		10	3.6	ug/L	1		6020B	Total/NA
Potassium	5700		500	170	ug/L	1		6020B	Total/NA
Sodium	25000		1000	650	ug/L	1		6020B	Total/NA
Bicarbonate Alkalinity as CaCO3	240		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Total Alkalinity as CaCO3	240		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Groundwater Elevation	851.59				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	198.7				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.29				mg/L	1		Field Sampling	Total/NA
Field pH	7.35				SU	1		Field Sampling	Total/NA
Field Conductivity	870				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	14.0				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	12.27				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-312 — Lab Sample ID: 310-318403-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20		5.0	2.3	mg/L	5		9056A	Total/NA
Fluoride	0.61	J	1.0	0.38	mg/L	5		9056A	Total/NA
Sulfate	230		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	1.3	J	2.0	0.53	ug/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample ID: MW-312 (Continued) — Lab Sample ID: 310-318403-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	48		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	1100		100	82	ug/L	1		6020B	Total/NA
Calcium	110		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	0.81		0.50	0.17	ug/L	1		6020B	Total/NA
Lithium	58		10	2.9	ug/L	1		6020B	Total/NA
Magnesium	27000		500	150	ug/L	1		6020B	Total/NA
Manganese	1300		10	3.6	ug/L	1		6020B	Total/NA
Molybdenum	28		2.0	1.3	ug/L	1		6020B	Total/NA
Potassium	7400		500	170	ug/L	1		6020B	Total/NA
Sodium	23000		1000	650	ug/L	1		6020B	Total/NA
Bicarbonate Alkalinity as CaCO3	210		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Total Alkalinity as CaCO3	210		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	550		50	36	mg/L	1		SM 2540C	Total/NA
pH	7.9		1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	852.58				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	8.6				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.12				mg/L	1		Field Sampling	Total/NA
Field pH	7.55				SU	1		Field Sampling	Total/NA
Field Conductivity	824				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	15.2				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.94				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-307 — Lab Sample ID: 310-318403-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	590		100	50	ug/L	1		6020B	Total/NA
Lithium	21		10	2.9	ug/L	1		6020B	Total/NA
Groundwater Elevation	853.52				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	105.1				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.16				mg/L	1		Field Sampling	Total/NA
Field pH	6.44				SU	1		Field Sampling	Total/NA
Field Conductivity	1133				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	14.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	11.99				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-308 — Lab Sample ID: 310-318403-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	430		100	50	ug/L	1		6020B	Total/NA
Lithium	14		10	2.9	ug/L	1		6020B	Total/NA
Groundwater Elevation	854.01				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	202.4				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.11				mg/L	1		Field Sampling	Total/NA
Field pH	6.94				SU	1		Field Sampling	Total/NA
Field Conductivity	880				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	14.0				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	2.41				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-301 — Lab Sample ID: 310-318444-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	42		5.0	2.3	mg/L	5		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample ID: MW-301 (Continued) — Lab Sample ID: 310-318444-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	29		5.0	2.1	mg/L	5		9056A	Total/NA
Barium	38		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	110		100	82	ug/L	1		6020B	Total/NA
Calcium	72		0.50	0.19	mg/L	1		6020B	Total/NA
Iron	67	J	100	50	ug/L	1		6020B	Total/NA
Lithium	4.6	J	10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	1.3	J	2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	310		50	36	mg/L	1		SM 2540C	Total/NA
pH	6.8	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	855.23				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	227.9				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.82				mg/L	1		Field Sampling	Total/NA
Field pH	6.60				SU	1		Field Sampling	Total/NA
Field Conductivity	585				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	20.7				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	6.00				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-302 — Lab Sample ID: 310-318444-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.7	J	5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	20		5.0	2.1	mg/L	5		9056A	Total/NA
Antimony	1.2	J	2.0	1.0	ug/L	1		6020B	Total/NA
Arsenic	3.4		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	81		2.0	0.66	ug/L	1		6020B	Total/NA
Calcium	53		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	1.1		0.50	0.17	ug/L	1		6020B	Total/NA
Iron	320		100	50	ug/L	1		6020B	Total/NA
Lithium	3.4	J	10	2.9	ug/L	1		6020B	Total/NA
Total Dissolved Solids	220		50	36	mg/L	1		SM 2540C	Total/NA
pH	7.5	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	855.19				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	236.1				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.17				mg/L	1		Field Sampling	Total/NA
Field pH	7.38				SU	1		Field Sampling	Total/NA
Field Conductivity	403				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	13.5				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	8.94				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-303 — Lab Sample ID: 310-318444-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	19		5.0	2.3	mg/L	5		9056A	Total/NA
Fluoride	0.41	J	1.0	0.38	mg/L	5		9056A	Total/NA
Sulfate	150		5.0	2.1	mg/L	5		9056A	Total/NA
Antimony	1.5	J	2.0	1.0	ug/L	1		6020B	Total/NA
Arsenic	2.1		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	59		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	470		100	82	ug/L	1		6020B	Total/NA
Calcium	100		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	0.64		0.50	0.17	ug/L	1		6020B	Total/NA
Iron	360		100	50	ug/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-303 (Continued) — Lab Sample ID: 310-318444-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	23		10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	18		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	490		50	36	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	852.62				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	178.1				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.22				mg/L	1		Field Sampling	Total/NA
Field pH	7.40				SU	1		Field Sampling	Total/NA
Field Conductivity	764				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	13.7				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.27				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-309 — Lab Sample ID: 310-318444-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	98000		500	190	ug/L	1		6020B	Total/NA
Iron	1300		100	50	ug/L	1		6020B	Total/NA
Lithium	22		10	2.9	ug/L	1		6020B	Total/NA
Magnesium	32000		500	150	ug/L	1		6020B	Total/NA
Manganese	220		10	3.6	ug/L	1		6020B	Total/NA
Potassium	3500		500	170	ug/L	1		6020B	Total/NA
Sodium	32000		1000	650	ug/L	1		6020B	Total/NA
Bicarbonate Alkalinity as CaCO3	210		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Total Alkalinity as CaCO3	210		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Groundwater Elevation	850.30				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	226.1				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.06				mg/L	1		Field Sampling	Total/NA
Field pH	7.43				SU	1		Field Sampling	Total/NA
Field Conductivity	778				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	11.5				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	32.31				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-310 — Lab Sample ID: 310-318444-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	120000		500	190	ug/L	1		6020B	Total/NA
Iron	110		100	50	ug/L	1		6020B	Total/NA
Lithium	21		10	2.9	ug/L	1		6020B	Total/NA
Magnesium	42000		500	150	ug/L	1		6020B	Total/NA
Manganese	220		10	3.6	ug/L	1		6020B	Total/NA
Potassium	4100		500	170	ug/L	1		6020B	Total/NA
Sodium	40000		1000	650	ug/L	1		6020B	Total/NA
Bicarbonate Alkalinity as CaCO3	220		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Total Alkalinity as CaCO3	220		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Groundwater Elevation	850.35				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	216.3				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.14				mg/L	1		Field Sampling	Total/NA
Field pH	7.33				SU	1		Field Sampling	Total/NA
Field Conductivity	947				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	12.7				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	4.11				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-311 — Lab Sample ID: 310-318444-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	120000		500	190	ug/L	1		6020B	Total/NA
Iron	90	J	100	50	ug/L	1		6020B	Total/NA
Lithium	32		10	2.9	ug/L	1		6020B	Total/NA
Magnesium	29000		500	150	ug/L	1		6020B	Total/NA
Manganese	180		10	3.6	ug/L	1		6020B	Total/NA
Potassium	4200		500	170	ug/L	1		6020B	Total/NA
Sodium	35000		1000	650	ug/L	1		6020B	Total/NA
Bicarbonate Alkalinity as CaCO3	260		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Total Alkalinity as CaCO3	260		5.0	2.5	mg/L	1		SM 2320B	Total/NA
Groundwater Elevation	850.49				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	244.7				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.24				mg/L	1		Field Sampling	Total/NA
Field pH	6.82				SU	1		Field Sampling	Total/NA
Field Conductivity	862				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	16.2				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	5.36				NTU	1		Field Sampling	Total/NA

Client Sample ID: Field Blank — Lab Sample ID: 310-318444-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	6.9	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
Project/Site: Sutherland Generating Station 25225076

Job ID: 310-318403-1

Client Sample ID: MW-304
Date Collected: 10/16/25 15:58
Date Received: 10/18/25 16:15

Lab Sample ID: 310-318403-1
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11**		5.0	2.3	mg/L			11/10/25 12:47	5
Fluoride	**1.5**		1.0	0.38	mg/L			11/10/25 12:47	5
Sulfate	**230**		5.0	2.1	mg/L			11/10/25 12:47	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.3**	**J**	2.0	1.0	ug/L		11/04/25 08:30	11/14/25 16:22	1
Arsenic	**0.53**	**J**	2.0	0.53	ug/L		11/04/25 08:30	11/14/25 16:22	1
Barium	**21**		2.0	0.66	ug/L		11/04/25 08:30	11/14/25 16:22	1
Beryllium	<0.33		1.0	0.33	ug/L		11/04/25 08:30	11/14/25 16:22	1
Boron	**830**		100	82	ug/L		11/04/25 08:30	11/14/25 16:22	1
Cadmium	<0.10		0.20	0.10	ug/L		11/04/25 08:30	11/14/25 16:22	1
Calcium	**110**		0.50	0.19	mg/L		11/04/25 08:30	11/17/25 13:09	1
Chromium	<1.8		5.0	1.8	ug/L		11/04/25 08:30	11/14/25 16:22	1
Cobalt	<0.17		0.50	0.17	ug/L		11/04/25 08:30	11/17/25 13:09	1
Iron	<50		100	50	ug/L		11/04/25 08:30	11/14/25 16:22	1
Lead	<0.33		0.50	0.33	ug/L		11/04/25 08:30	11/14/25 16:22	1
Lithium	**3.5**	**J**	10	2.9	ug/L		11/04/25 08:30	11/14/25 16:22	1
Molybdenum	**1.3**	**J**	2.0	1.3	ug/L		11/04/25 08:30	11/14/25 16:22	1
Selenium	<1.4		5.0	1.4	ug/L		11/04/25 08:30	11/14/25 16:22	1
Thallium	<0.57		1.0	0.57	ug/L		11/04/25 08:30	11/14/25 16:22	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		11/07/25 13:20	11/10/25 11:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**540**		50	36	mg/L			10/22/25 13:07	1
pH (SM 4500 H+ B)	**6.9**		1.0	1.0	SU			10/17/25 11:48	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	0.0150	U	0.201	0.201	1.00	0.389	pCi/L	10/23/25 08:31	11/19/25 07:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*75.2*		*30 - 110*	*10/23/25 08:31*	*11/19/25 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	0.551	U	0.466	0.469	1.00	0.733	pCi/L	10/23/25 08:38	11/18/25 10:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*75.2*		*30 - 110*	*10/23/25 08:38*	*11/18/25 10:02*	*1*
Y Carrier	*80.4*		*30 - 110*	*10/23/25 08:38*	*11/18/25 10:02*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-304
Lab Sample ID: 310-318403-1
Date Collected: 10/16/25 15:58
Matrix: Water
Date Received: 10/18/25 16:15

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	0.566	U	0.508	0.510	5.00	0.733	pCi/L		11/18/25 10:44	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	852.38				ft			10/16/25 15:58	1
Oxidation Reduction Potential	188.7				mV			10/16/25 15:58	1
Oxygen, Dissolved	0.28				mg/L			10/16/25 15:58	1
Field pH	6.90				SU			10/16/25 15:58	1
Field Conductivity	850				umhos/cm			10/16/25 15:58	1
Field Temperature	15.1				Degrees C			10/16/25 15:58	1
Field Turbidity	2.39				NTU			10/16/25 15:58	1

Client Sample ID: MW-305
Date Collected: 10/16/25 15:20
Date Received: 10/18/25 16:15

Lab Sample ID: 310-318403-2
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29		5.0	2.3	mg/L			11/10/25 13:03	5
Fluoride	0.90	J	1.0	0.38	mg/L			11/10/25 13:03	5
Sulfate	270		5.0	2.1	mg/L			11/10/25 13:03	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		11/04/25 08:30	11/14/25 16:32	1
Arsenic	9.9		2.0	0.53	ug/L		11/04/25 08:30	11/14/25 16:32	1
Barium	46		2.0	0.66	ug/L		11/04/25 08:30	11/14/25 16:32	1
Beryllium	<0.33		1.0	0.33	ug/L		11/04/25 08:30	11/14/25 16:32	1
Boron	960		100	82	ug/L		11/04/25 08:30	11/14/25 16:32	1
Cadmium	<0.10		0.20	0.10	ug/L		11/04/25 08:30	11/14/25 16:32	1
Calcium	110		0.50	0.19	mg/L		11/04/25 08:30	11/14/25 16:32	1
Chromium	<1.8		5.0	1.8	ug/L		11/04/25 08:30	11/14/25 16:32	1
Cobalt	0.65		0.50	0.17	ug/L		11/04/25 08:30	11/14/25 16:32	1
Iron	150		100	50	ug/L		11/04/25 08:30	11/14/25 16:32	1
Lead	<0.33		0.50	0.33	ug/L		11/04/25 08:30	11/14/25 16:32	1
Lithium	41		10	2.9	ug/L		11/04/25 08:30	11/14/25 16:32	1
Molybdenum	39		2.0	1.3	ug/L		11/04/25 08:30	11/14/25 16:32	1
Selenium	<1.4		5.0	1.4	ug/L		11/04/25 08:30	11/14/25 16:32	1
Thallium	<0.57		1.0	0.57	ug/L		11/04/25 08:30	11/14/25 16:32	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		11/07/25 13:20	11/10/25 11:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	650		50	36	mg/L			10/22/25 13:07	1
pH (SM 4500 H+ B)	7.8		1.0	1.0	SU			10/17/25 16:41	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	0.221	U	0.236	0.237	1.00	0.382	pCi/L	10/23/25 08:31	11/19/25 08:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*79.2*		*30 - 110*	*10/23/25 08:31*	*11/19/25 08:00*	*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	1.04		0.463	0.473	1.00	0.623	pCi/L	10/23/25 08:38	11/18/25 10:01	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*79.2*		*30 - 110*	*10/23/25 08:38*	*11/18/25 10:01*	*1*
Y Carrier	*82.6*		*30 - 110*	*10/23/25 08:38*	*11/18/25 10:01*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-305
Lab Sample ID: 310-318403-2
Date Collected: 10/16/25 15:20
Matrix: Water
Date Received: 10/18/25 16:15

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	1.26		0.520	0.529	5.00	0.623	pCi/L		11/18/25 10:44	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	852.19				ft			10/16/25 15:20	1
Oxidation Reduction Potential	216.9				mV			10/16/25 15:20	1
Oxygen, Dissolved	0.25				mg/L			10/16/25 15:20	1
Field pH	7.78				SU			10/16/25 15:20	1
Field Conductivity	944				umhos/cm			10/16/25 15:20	1
Field Temperature	14.8				Degrees C			10/16/25 15:20	1
Field Turbidity	3.22				NTU			10/16/25 15:20	1

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-306
Date Collected: 10/14/25 16:25
Date Received: 10/18/25 16:15

Lab Sample ID: 310-318403-3
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			11/07/25 04:00	5
Fluoride	**0.44**	**J**	1.0	0.38	mg/L			11/07/25 04:00	5
Sulfate	**330**		5.0	2.1	mg/L			11/07/25 04:00	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		11/04/25 08:30	11/14/25 16:35	1
Arsenic	**5.8**		2.0	0.53	ug/L		11/04/25 08:30	11/14/25 16:35	1
Barium	**64**		2.0	0.66	ug/L		11/04/25 08:30	11/14/25 16:35	1
Beryllium	<0.33		1.0	0.33	ug/L		11/04/25 08:30	11/14/25 16:35	1
Boron	**3000**		100	82	ug/L		11/04/25 08:30	11/14/25 16:35	1
Cadmium	<0.10		0.20	0.10	ug/L		11/04/25 08:30	11/14/25 16:35	1
Calcium	**150**		0.50	0.19	mg/L		11/04/25 08:30	11/14/25 16:35	1
Chromium	<1.8		5.0	1.8	ug/L		11/04/25 08:30	11/14/25 16:35	1
Cobalt	**0.38**	**J**	0.50	0.17	ug/L		11/04/25 08:30	11/14/25 16:35	1
Iron	**57**	**J**	100	50	ug/L		11/04/25 08:30	11/14/25 16:35	1
Lead	<0.33		0.50	0.33	ug/L		11/04/25 08:30	11/14/25 16:35	1
Lithium	**99**		10	2.9	ug/L		11/04/25 08:30	11/14/25 16:35	1
Molybdenum	**77**		2.0	1.3	ug/L		11/04/25 08:30	11/14/25 16:35	1
Selenium	<1.4		5.0	1.4	ug/L		11/04/25 08:30	11/14/25 16:35	1
Thallium	<0.57		1.0	0.57	ug/L		11/04/25 08:30	11/14/25 16:35	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		11/07/25 13:20	11/10/25 11:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**720**		50	36	mg/L			10/18/25 15:57	1
pH (SM 4500 H+ B)	**7.8**		1.0	1.0	SU			10/17/25 16:41	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	0.243	U	0.248	0.249	1.00	0.397	pCi/L	10/23/25 08:31	11/19/25 08:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*77.2*		*30 - 110*	*10/23/25 08:31*	*11/19/25 08:00*	*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	**0.870**		0.455	0.462	1.00	0.632	pCi/L	10/23/25 08:38	11/18/25 10:01	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*77.2*		*30 - 110*	*10/23/25 08:38*	*11/18/25 10:01*	*1*
Y Carrier	*78.1*		*30 - 110*	*10/23/25 08:38*	*11/18/25 10:01*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-306
Lab Sample ID: 310-318403-3
Date Collected: 10/14/25 16:25
Matrix: Water
Date Received: 10/18/25 16:15

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	1.11		0.518	0.525	5.00	0.632	pCi/L		11/18/25 10:44	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	852.13				ft			10/14/25 16:25	1
Oxidation Reduction Potential	-28.2				mV			10/14/25 16:25	1
Oxygen, Dissolved	0.10				mg/L			10/14/25 16:25	1
Field pH	7.52				SU			10/14/25 16:25	1
Field Conductivity	1005				umhos/cm			10/14/25 16:25	1
Field Temperature	14.2				Degrees C			10/14/25 16:25	1
Field Turbidity	2.01				NTU			10/14/25 16:25	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-306A
Lab Sample ID: 310-318403-4
Date Collected: 10/15/25 13:06
Matrix: Water
Date Received: 10/18/25 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	140		0.50	0.19	mg/L		11/04/25 08:30	11/17/25 13:23	1
Iron	650		100	50	ug/L		11/04/25 08:30	11/14/25 16:37	1
Lithium	38		10	2.9	ug/L		11/04/25 08:30	11/14/25 16:37	1
Magnesium	17000		500	150	ug/L		11/04/25 08:30	11/14/25 16:37	1
Manganese	650		10	3.6	ug/L		11/04/25 08:30	11/14/25 16:37	1
Potassium	7000		500	170	ug/L		11/04/25 08:30	11/14/25 16:37	1
Sodium	19000		1000	650	ug/L		11/04/25 08:30	11/14/25 16:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	280		5.0	2.5	mg/L			10/27/25 11:49	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<2.5		5.0	2.5	mg/L			10/27/25 11:49	1
Total Alkalinity as CaCO3 (SM 2320B)	280		5.0	2.5	mg/L			10/27/25 11:49	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	852.32				ft			10/15/25 13:06	1
Oxidation Reduction Potential	-94.4				mV			10/15/25 13:06	1
Oxygen, Dissolved	0.13				mg/L			10/15/25 13:06	1
Field pH	7.41				SU			10/15/25 13:06	1
Field Conductivity	849				umhos/cm			10/15/25 13:06	1
Field Temperature	13.6				Degrees C			10/15/25 13:06	1
Field Turbidity	3.99				NTU			10/15/25 13:06	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-312A
Lab Sample ID: 310-318403-5
Date Collected: 10/15/25 17:00
Matrix: Water
Date Received: 10/18/25 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	130		0.50	0.19	mg/L		11/04/25 08:30	11/14/25 16:40	1
Iron	950		100	50	ug/L		11/04/25 08:30	11/14/25 16:40	1
Lithium	31		10	2.9	ug/L		11/04/25 08:30	11/14/25 16:40	1
Magnesium	27000		500	150	ug/L		11/04/25 08:30	11/14/25 16:40	1
Manganese	660		10	3.6	ug/L		11/04/25 08:30	11/14/25 16:40	1
Potassium	6400		500	170	ug/L		11/04/25 08:30	11/14/25 16:40	1
Sodium	25000		1000	650	ug/L		11/04/25 08:30	11/14/25 16:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	280		5.0	2.5	mg/L			10/27/25 12:05	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<2.5		5.0	2.5	mg/L			10/27/25 12:05	1
Total Alkalinity as CaCO3 (SM 2320B)	280		5.0	2.5	mg/L			10/27/25 12:05	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	852.57				ft			10/15/25 17:00	1
Oxidation Reduction Potential	-107.2				mV			10/15/25 17:00	1
Oxygen, Dissolved	0.12				mg/L			10/15/25 17:00	1
Field pH	7.42				SU			10/15/25 17:00	1
Field Conductivity	889				umhos/cm			10/15/25 17:00	1
Field Temperature	14.7				Degrees C			10/15/25 17:00	1
Field Turbidity	3.91				NTU			10/15/25 17:00	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-313
Date Collected: 10/16/25 16:59
Date Received: 10/18/25 16:15

Lab Sample ID: 310-318403-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	140		0.50	0.19	mg/L		11/04/25 08:30	11/14/25 16:48	1
Iron	610		100	50	ug/L		11/04/25 08:30	11/14/25 16:48	1
Lithium	43		10	2.9	ug/L		11/04/25 08:30	11/14/25 16:48	1
Magnesium	37000		500	150	ug/L		11/04/25 08:30	11/14/25 16:48	1
Manganese	3700		10	3.6	ug/L		11/04/25 08:30	11/14/25 16:48	1
Potassium	5700		500	170	ug/L		11/04/25 08:30	11/14/25 16:48	1
Sodium	26000		1000	650	ug/L		11/04/25 08:30	11/14/25 16:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	330		5.0	2.5	mg/L			10/27/25 12:14	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<2.5		5.0	2.5	mg/L			10/27/25 12:14	1
Total Alkalinity as CaCO3 (SM 2320B)	330		5.0	2.5	mg/L			10/27/25 12:14	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	851.98				ft			10/16/25 16:59	1
Oxidation Reduction Potential	199.2				mV			10/16/25 16:59	1
Oxygen, Dissolved	0.14				mg/L			10/16/25 16:59	1
Field pH	7.15				SU			10/16/25 16:59	1
Field Conductivity	1004				umhos/cm			10/16/25 16:59	1
Field Temperature	13.9				Degrees C			10/16/25 16:59	1
Field Turbidity	10.62				NTU			10/16/25 16:59	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-314
Date Collected: 10/16/25 17:35
Date Received: 10/18/25 16:15

Lab Sample ID: 310-318403-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	120		0.50	0.19	mg/L		11/04/25 08:30	11/14/25 16:50	1
Iron	400		100	50	ug/L		11/04/25 08:30	11/14/25 16:50	1
Lithium	49		10	2.9	ug/L		11/04/25 08:30	11/14/25 16:50	1
Magnesium	29000		500	150	ug/L		11/04/25 08:30	11/14/25 16:50	1
Manganese	580		10	3.6	ug/L		11/04/25 08:30	11/14/25 16:50	1
Potassium	5700		500	170	ug/L		11/04/25 08:30	11/14/25 16:50	1
Sodium	25000		1000	650	ug/L		11/04/25 08:30	11/14/25 16:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	240		5.0	2.5	mg/L			10/27/25 12:24	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<2.5		5.0	2.5	mg/L			10/27/25 12:24	1
Total Alkalinity as CaCO3 (SM 2320B)	240		5.0	2.5	mg/L			10/27/25 12:24	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	851.59				ft			10/16/25 17:35	1
Oxidation Reduction Potential	198.7				mV			10/16/25 17:35	1
Oxygen, Dissolved	0.29				mg/L			10/16/25 17:35	1
Field pH	7.35				SU			10/16/25 17:35	1
Field Conductivity	870				umhos/cm			10/16/25 17:35	1
Field Temperature	14.0				Degrees C			10/16/25 17:35	1
Field Turbidity	12.27				NTU			10/16/25 17:35	1

Client: SCS Engineers
Project/Site: Sutherland Generating Station 25225076

Job ID: 310-318403-1

Client Sample ID: MW-312

Date Collected: 10/15/25 15:00
Date Received: 10/18/25 16:15

Lab Sample ID: 310-318403-8

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			11/07/25 19:00	5
Fluoride	**0.61**	**J**	1.0	0.38	mg/L			11/07/25 19:00	5
Sulfate	**230**		5.0	2.1	mg/L			11/07/25 19:00	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		11/04/25 08:30	11/14/25 16:53	1
Arsenic	**1.3**	**J**	2.0	0.53	ug/L		11/04/25 08:30	11/14/25 16:53	1
Barium	**48**		2.0	0.66	ug/L		11/04/25 08:30	11/14/25 16:53	1
Beryllium	<0.33		1.0	0.33	ug/L		11/04/25 08:30	11/14/25 16:53	1
Boron	**1100**		100	82	ug/L		11/04/25 08:30	11/14/25 16:53	1
Cadmium	<0.10		0.20	0.10	ug/L		11/04/25 08:30	11/14/25 16:53	1
Calcium	**110**		0.50	0.19	mg/L		11/04/25 08:30	11/14/25 16:53	1
Chromium	<1.8		5.0	1.8	ug/L		11/04/25 08:30	11/14/25 16:53	1
Cobalt	**0.81**		0.50	0.17	ug/L		11/04/25 08:30	11/14/25 16:53	1
Iron	<50		100	50	ug/L		11/04/25 08:30	11/14/25 16:53	1
Lead	<0.33		0.50	0.33	ug/L		11/04/25 08:30	11/14/25 16:53	1
Lithium	**58**		10	2.9	ug/L		11/04/25 08:30	11/14/25 16:53	1
Magnesium	**27000**		500	150	ug/L		11/04/25 08:30	11/14/25 16:53	1
Manganese	**1300**		10	3.6	ug/L		11/04/25 08:30	11/14/25 16:53	1
Molybdenum	**28**		2.0	1.3	ug/L		11/04/25 08:30	11/14/25 16:53	1
Potassium	**7400**		500	170	ug/L		11/04/25 08:30	11/14/25 16:53	1
Selenium	<1.4		5.0	1.4	ug/L		11/04/25 08:30	11/14/25 16:53	1
Sodium	**23000**		1000	650	ug/L		11/04/25 08:30	11/14/25 16:53	1
Thallium	<0.57		1.0	0.57	ug/L		11/04/25 08:30	11/14/25 16:53	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		11/07/25 13:20	11/10/25 11:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**210**		5.0	2.5	mg/L			10/27/25 12:41	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<2.5		5.0	2.5	mg/L			10/27/25 12:41	1
Total Alkalinity as CaCO3 (SM 2320B)	**210**		5.0	2.5	mg/L			10/27/25 12:41	1
Total Dissolved Solids (SM 2540C)	**550**		50	36	mg/L			10/21/25 12:20	1
pH (SM 4500 H+ B)	**7.9**		1.0	1.0	SU			10/17/25 16:41	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	0.0703	U	0.255	0.255	1.00	0.473	pCi/L	10/23/25 08:31	11/19/25 11:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*57.3*		*30 - 110*	*10/23/25 08:31*	*11/19/25 11:04*	*1*

Eurofins Cedar Falls

Client Sample ID: MW-312
Lab Sample ID: 310-318403-8
Date Collected: 10/15/25 15:00
Matrix: Water
Date Received: 10/18/25 16:15

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	0.341	U G	0.626	0.627	1.00	1.08	pCi/L	10/23/25 08:38	11/18/25 10:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*57.3*		*30 - 110*	*10/23/25 08:38*	*11/18/25 10:02*	*1*
Y Carrier	*71.8*		*30 - 110*	*10/23/25 08:38*	*11/18/25 10:02*	*1*

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	0.411	U	0.676	0.677	5.00	1.08	pCi/L		11/18/25 10:44	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	**852.58**				ft			10/15/25 15:00	1
Oxidation Reduction Potential	**8.6**				mV			10/15/25 15:00	1
Oxygen, Dissolved	**0.12**				mg/L			10/15/25 15:00	1
Field pH	**7.55**				SU			10/15/25 15:00	1
Field Conductivity	**824**				umhos/cm			10/15/25 15:00	1
Field Temperature	**15.2**				Degrees C			10/15/25 15:00	1
Field Turbidity	**3.94**				NTU			10/15/25 15:00	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-307
Lab Sample ID: 310-318403-9
Date Collected: 10/15/25 18:39
Matrix: Water
Date Received: 10/18/25 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	590		100	50	ug/L		11/04/25 08:30	11/14/25 16:55	1
Lithium	21		10	2.9	ug/L		11/04/25 08:30	11/14/25 16:55	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	853.52				ft			10/15/25 18:39	1
Oxidation Reduction Potential	105.1				mV			10/15/25 18:39	1
Oxygen, Dissolved	0.16				mg/L			10/15/25 18:39	1
Field pH	6.44				SU			10/15/25 18:39	1
Field Conductivity	1133				umhos/cm			10/15/25 18:39	1
Field Temperature	14.6				Degrees C			10/15/25 18:39	1
Field Turbidity	11.99				NTU			10/15/25 18:39	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-308
Lab Sample ID: 310-318403-10
Date Collected: 10/16/25 18:34
Matrix: Water
Date Received: 10/18/25 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	430		100	50	ug/L		11/04/25 08:30	11/14/25 16:58	1
Lithium	14		10	2.9	ug/L		11/04/25 08:30	11/14/25 16:58	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	854.01				ft			10/16/25 18:34	1
Oxidation Reduction Potential	202.4				mV			10/16/25 18:34	1
Oxygen, Dissolved	0.11				mg/L			10/16/25 18:34	1
Field pH	6.94				SU			10/16/25 18:34	1
Field Conductivity	880				umhos/cm			10/16/25 18:34	1
Field Temperature	14.0				Degrees C			10/16/25 18:34	1
Field Turbidity	2.41				NTU			10/16/25 18:34	1

Client Sample ID: MW-301
Date Collected: 10/17/25 15:00
Date Received: 10/20/25 15:30

Lab Sample ID: 310-318444-1
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**42**		5.0	2.3	mg/L			11/10/25 13:18	5
Fluoride	<0.38		1.0	0.38	mg/L			11/10/25 13:18	5
Sulfate	**29**		5.0	2.1	mg/L			11/10/25 13:18	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		11/04/25 08:30	11/14/25 17:00	1
Arsenic	<0.53		2.0	0.53	ug/L		11/04/25 08:30	11/14/25 17:00	1
Barium	**38**		2.0	0.66	ug/L		11/04/25 08:30	11/14/25 17:00	1
Beryllium	<0.33		1.0	0.33	ug/L		11/04/25 08:30	11/14/25 17:00	1
Boron	**110**		100	82	ug/L		11/04/25 08:30	11/14/25 17:00	1
Cadmium	<0.10		0.20	0.10	ug/L		11/04/25 08:30	11/14/25 17:00	1
Calcium	**72**		0.50	0.19	mg/L		11/04/25 08:30	11/14/25 17:00	1
Chromium	<1.8		5.0	1.8	ug/L		11/04/25 08:30	11/14/25 17:00	1
Cobalt	<0.17		0.50	0.17	ug/L		11/04/25 08:30	11/14/25 17:00	1
Iron	**67**	**J**	100	50	ug/L		11/04/25 08:30	11/14/25 17:00	1
Lead	<0.33		0.50	0.33	ug/L		11/04/25 08:30	11/14/25 17:00	1
Lithium	**4.6**	**J**	10	2.9	ug/L		11/04/25 08:30	11/14/25 17:00	1
Molybdenum	**1.3**	**J**	2.0	1.3	ug/L		11/04/25 08:30	11/14/25 17:00	1
Selenium	<1.4		5.0	1.4	ug/L		11/04/25 08:30	11/14/25 17:00	1
Thallium	<0.57		1.0	0.57	ug/L		11/04/25 08:30	11/14/25 17:00	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		11/07/25 13:20	11/10/25 11:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**310**		50	36	mg/L			10/22/25 13:07	1
pH (SM 4500 H+ B)	**6.8**	**HF**	1.0	1.0	SU			10/21/25 00:50	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	**0.514**		0.274	0.278	1.00	0.345	pCi/L	10/24/25 08:01	11/20/25 16:21	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*82.9*		*30 - 110*	*10/24/25 08:01*	*11/20/25 16:21*	*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	0.353	U	0.356	0.358	1.00	0.572	pCi/L	10/24/25 08:08	11/20/25 10:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*82.9*		*30 - 110*	*10/24/25 08:08*	*11/20/25 10:04*	*1*
Y Carrier	*76.6*		*30 - 110*	*10/24/25 08:08*	*11/20/25 10:04*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-301
Lab Sample ID: 310-318444-1
Date Collected: 10/17/25 15:00
Matrix: Water
Date Received: 10/20/25 15:30

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	0.867		0.449	0.453	5.00	0.572	pCi/L		11/20/25 08:16	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	855.23				ft			10/17/25 15:00	1
Oxidation Reduction Potential	227.9				mV			10/17/25 15:00	1
Oxygen, Dissolved	0.82				mg/L			10/17/25 15:00	1
Field pH	6.60				SU			10/17/25 15:00	1
Field Conductivity	585				umhos/cm			10/17/25 15:00	1
Field Temperature	20.7				Degrees C			10/17/25 15:00	1
Field Turbidity	6.00				NTU			10/17/25 15:00	1

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-302
Date Collected: 10/17/25 15:46
Date Received: 10/20/25 15:30

Lab Sample ID: 310-318444-2
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.7**	**J**	5.0	2.3	mg/L			11/10/25 13:34	5
Fluoride	<0.38		1.0	0.38	mg/L			11/10/25 13:34	5
Sulfate	**20**		5.0	2.1	mg/L			11/10/25 13:34	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.2**	**J**	2.0	1.0	ug/L		11/05/25 09:00	11/06/25 14:45	1
Arsenic	**3.4**		2.0	0.53	ug/L		11/05/25 09:00	11/06/25 14:45	1
Barium	**81**		2.0	0.66	ug/L		11/05/25 09:00	11/06/25 14:45	1
Beryllium	<0.33		1.0	0.33	ug/L		11/05/25 09:00	11/06/25 14:45	1
Boron	<82		100	82	ug/L		11/05/25 09:00	11/06/25 14:45	1
Cadmium	<0.10		0.20	0.10	ug/L		11/05/25 09:00	11/06/25 14:45	1
Calcium	**53**		0.50	0.19	mg/L		11/05/25 09:00	11/06/25 14:45	1
Chromium	<1.8		5.0	1.8	ug/L		11/05/25 09:00	11/06/25 14:45	1
Cobalt	**1.1**		0.50	0.17	ug/L		11/05/25 09:00	11/06/25 14:45	1
Iron	**320**		100	50	ug/L		11/05/25 09:00	11/06/25 14:45	1
Lead	<0.33		0.50	0.33	ug/L		11/05/25 09:00	11/06/25 14:45	1
Lithium	**3.4**	**J**	10	2.9	ug/L		11/05/25 09:00	11/06/25 14:45	1
Molybdenum	<1.3		2.0	1.3	ug/L		11/05/25 09:00	11/06/25 14:45	1
Selenium	<1.4		5.0	1.4	ug/L		11/05/25 09:00	11/06/25 14:45	1
Thallium	<0.57		1.0	0.57	ug/L		11/05/25 09:00	11/06/25 14:45	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		11/07/25 13:20	11/10/25 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**220**		50	36	mg/L			10/22/25 13:07	1
pH (SM 4500 H+ B)	**7.5**	**HF**	1.0	1.0	SU			10/21/25 00:53	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	0.200	U	0.213	0.214	1.00	0.336	pCi/L	10/24/25 08:01	11/20/25 16:21	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*70.1*		*30 - 110*	*10/24/25 08:01*	*11/20/25 16:21*	*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	0.301	U	0.392	0.393	1.00	0.654	pCi/L	10/24/25 08:08	11/20/25 10:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*70.1*		*30 - 110*	*10/24/25 08:08*	*11/20/25 10:04*	*1*
Y Carrier	*77.0*		*30 - 110*	*10/24/25 08:08*	*11/20/25 10:04*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-302
Lab Sample ID: 310-318444-2
Date Collected: 10/17/25 15:46
Matrix: Water
Date Received: 10/20/25 15:30

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	0.501	U	0.446	0.447	5.00	0.654	pCi/L		11/20/25 08:16	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	855.19				ft			10/17/25 15:46	1
Oxidation Reduction Potential	236.1				mV			10/17/25 15:46	1
Oxygen, Dissolved	0.17				mg/L			10/17/25 15:46	1
Field pH	7.38				SU			10/17/25 15:46	1
Field Conductivity	403				umhos/cm			10/17/25 15:46	1
Field Temperature	13.5				Degrees C			10/17/25 15:46	1
Field Turbidity	8.94				NTU			10/17/25 15:46	1

Client Sample ID: MW-303
Date Collected: 10/17/25 14:00
Date Received: 10/20/25 15:30

Lab Sample ID: 310-318444-3
Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19**		5.0	2.3	mg/L			11/10/25 14:21	5
Fluoride	**0.41**	**J**	1.0	0.38	mg/L			11/10/25 14:21	5
Sulfate	**150**		5.0	2.1	mg/L			11/10/25 14:21	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.5**	**J**	2.0	1.0	ug/L		11/05/25 09:00	11/06/25 14:56	1
Arsenic	**2.1**		2.0	0.53	ug/L		11/05/25 09:00	11/06/25 14:56	1
Barium	**59**		2.0	0.66	ug/L		11/05/25 09:00	11/06/25 14:56	1
Beryllium	<0.33		1.0	0.33	ug/L		11/05/25 09:00	11/06/25 14:56	1
Boron	**470**		100	82	ug/L		11/05/25 09:00	11/06/25 14:56	1
Cadmium	<0.10		0.20	0.10	ug/L		11/05/25 09:00	11/06/25 14:56	1
Calcium	**100**		0.50	0.19	mg/L		11/05/25 09:00	11/06/25 14:56	1
Chromium	<1.8		5.0	1.8	ug/L		11/05/25 09:00	11/06/25 14:56	1
Cobalt	**0.64**		0.50	0.17	ug/L		11/05/25 09:00	11/06/25 14:56	1
Iron	**360**		100	50	ug/L		11/05/25 09:00	11/06/25 14:56	1
Lead	<0.33		0.50	0.33	ug/L		11/05/25 09:00	11/06/25 14:56	1
Lithium	**23**		10	2.9	ug/L		11/05/25 09:00	11/06/25 14:56	1
Molybdenum	**18**		2.0	1.3	ug/L		11/05/25 09:00	11/06/25 14:56	1
Selenium	<1.4		5.0	1.4	ug/L		11/05/25 09:00	11/06/25 14:56	1
Thallium	<0.57		1.0	0.57	ug/L		11/05/25 09:00	11/06/25 14:56	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		11/07/25 13:20	11/10/25 11:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**490**		50	36	mg/L			10/22/25 13:07	1
pH (SM 4500 H+ B)	**7.6**	**HF**	1.0	1.0	SU			10/21/25 00:54	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	**0.391**		0.258	0.260	1.00	0.350	pCi/L	10/24/25 08:01	11/20/25 16:21	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*78.6*		*30 - 110*	*10/24/25 08:01*	*11/20/25 16:21*	*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	0.503	U	0.457	0.459	1.00	0.726	pCi/L	10/24/25 08:08	11/20/25 10:04	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*78.6*		*30 - 110*	*10/24/25 08:08*	*11/20/25 10:04*	*1*
Y Carrier	*79.6*		*30 - 110*	*10/24/25 08:08*	*11/20/25 10:04*	*1*

Client Sample Results

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-303
Lab Sample ID: 310-318444-3
Date Collected: 10/17/25 14:00
Matrix: Water
Date Received: 10/20/25 15:30

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	0.895		0.525	0.528	5.00	0.726	pCi/L		11/20/25 08:16	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	852.62				ft			10/17/25 14:00	1
Oxidation Reduction Potential	178.1				mV			10/17/25 14:00	1
Oxygen, Dissolved	0.22				mg/L			10/17/25 14:00	1
Field pH	7.40				SU			10/17/25 14:00	1
Field Conductivity	764				umhos/cm			10/17/25 14:00	1
Field Temperature	13.7				Degrees C			10/17/25 14:00	1
Field Turbidity	3.27				NTU			10/17/25 14:00	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-309
Date Collected: 10/17/25 17:38
Date Received: 10/20/25 15:30

Lab Sample ID: 310-318444-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	98000		500	190	ug/L		11/05/25 09:00	11/06/25 15:04	1
Iron	1300		100	50	ug/L		11/05/25 09:00	11/06/25 15:04	1
Lithium	22		10	2.9	ug/L		11/05/25 09:00	11/06/25 15:04	1
Magnesium	32000		500	150	ug/L		11/05/25 09:00	11/06/25 15:04	1
Manganese	220		10	3.6	ug/L		11/05/25 09:00	11/06/25 15:04	1
Potassium	3500		500	170	ug/L		11/05/25 09:00	11/06/25 15:04	1
Sodium	32000		1000	650	ug/L		11/05/25 09:00	11/06/25 15:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	210		5.0	2.5	mg/L			10/27/25 12:50	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<2.5		5.0	2.5	mg/L			10/27/25 12:50	1
Total Alkalinity as CaCO3 (SM 2320B)	210		5.0	2.5	mg/L			10/27/25 12:50	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	850.30				ft			10/17/25 17:38	1
Oxidation Reduction Potential	226.1				mV			10/17/25 17:38	1
Oxygen, Dissolved	1.06				mg/L			10/17/25 17:38	1
Field pH	7.43				SU			10/17/25 17:38	1
Field Conductivity	778				umhos/cm			10/17/25 17:38	1
Field Temperature	11.5				Degrees C			10/17/25 17:38	1
Field Turbidity	32.31				NTU			10/17/25 17:38	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-310
Date Collected: 10/17/25 17:14
Date Received: 10/20/25 15:30

Lab Sample ID: 310-318444-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	120000		500	190	ug/L		11/05/25 09:00	11/06/25 15:07	1
Iron	110		100	50	ug/L		11/05/25 09:00	11/06/25 15:07	1
Lithium	21		10	2.9	ug/L		11/05/25 09:00	11/06/25 15:07	1
Magnesium	42000		500	150	ug/L		11/05/25 09:00	11/06/25 15:07	1
Manganese	220		10	3.6	ug/L		11/05/25 09:00	11/06/25 15:07	1
Potassium	4100		500	170	ug/L		11/05/25 09:00	11/06/25 15:07	1
Sodium	40000		1000	650	ug/L		11/05/25 09:00	11/06/25 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	220		5.0	2.5	mg/L			10/27/25 12:59	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<2.5		5.0	2.5	mg/L			10/27/25 12:59	1
Total Alkalinity as CaCO3 (SM 2320B)	220		5.0	2.5	mg/L			10/27/25 12:59	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	850.35				ft			10/17/25 17:14	1
Oxidation Reduction Potential	216.3				mV			10/17/25 17:14	1
Oxygen, Dissolved	0.14				mg/L			10/17/25 17:14	1
Field pH	7.33				SU			10/17/25 17:14	1
Field Conductivity	947				umhos/cm			10/17/25 17:14	1
Field Temperature	12.7				Degrees C			10/17/25 17:14	1
Field Turbidity	4.11				NTU			10/17/25 17:14	1

Client Sample Results

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-311
Date Collected: 10/17/25 16:44
Date Received: 10/20/25 15:30

Lab Sample ID: 310-318444-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	120000		500	190	ug/L		11/05/25 09:00	11/06/25 15:10	1
Iron	90	J	100	50	ug/L		11/05/25 09:00	11/06/25 15:10	1
Lithium	32		10	2.9	ug/L		11/05/25 09:00	11/06/25 15:10	1
Magnesium	29000		500	150	ug/L		11/05/25 09:00	11/06/25 15:10	1
Manganese	180		10	3.6	ug/L		11/05/25 09:00	11/06/25 15:10	1
Potassium	4200		500	170	ug/L		11/05/25 09:00	11/06/25 15:10	1
Sodium	35000		1000	650	ug/L		11/05/25 09:00	11/06/25 15:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	260		5.0	2.5	mg/L			10/27/25 13:07	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<2.5		5.0	2.5	mg/L			10/27/25 13:07	1
Total Alkalinity as CaCO3 (SM 2320B)	260		5.0	2.5	mg/L			10/27/25 13:07	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	850.49				ft			10/17/25 16:44	1
Oxidation Reduction Potential	244.7				mV			10/17/25 16:44	1
Oxygen, Dissolved	0.24				mg/L			10/17/25 16:44	1
Field pH	6.82				SU			10/17/25 16:44	1
Field Conductivity	862				umhos/cm			10/17/25 16:44	1
Field Temperature	16.2				Degrees C			10/17/25 16:44	1
Field Turbidity	5.36				NTU			10/17/25 16:44	1

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: Field Blank
Lab Sample ID: 310-318444-7
Date Collected: 10/17/25 18:01
Matrix: Water
Date Received: 10/20/25 15:30

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			11/10/25 14:36	1
Fluoride	<0.075		0.20	0.075	mg/L			11/10/25 14:36	1
Sulfate	<0.42		1.0	0.42	mg/L			11/10/25 14:36	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		11/05/25 09:00	11/06/25 15:13	1
Arsenic	<0.53		2.0	0.53	ug/L		11/05/25 09:00	11/06/25 15:13	1
Barium	<0.66		2.0	0.66	ug/L		11/05/25 09:00	11/06/25 15:13	1
Beryllium	<0.33		1.0	0.33	ug/L		11/05/25 09:00	11/06/25 15:13	1
Boron	<82		100	82	ug/L		11/05/25 09:00	11/06/25 15:13	1
Cadmium	<0.10		0.20	0.10	ug/L		11/05/25 09:00	11/06/25 15:13	1
Calcium	<0.19		0.50	0.19	mg/L		11/05/25 09:00	11/06/25 15:13	1
Chromium	<1.8		5.0	1.8	ug/L		11/05/25 09:00	11/06/25 15:13	1
Cobalt	<0.17		0.50	0.17	ug/L		11/05/25 09:00	11/06/25 15:13	1
Iron	<50		100	50	ug/L		11/05/25 09:00	11/06/25 15:13	1
Lead	<0.33		0.50	0.33	ug/L		11/05/25 09:00	11/06/25 15:13	1
Lithium	<2.9		10	2.9	ug/L		11/05/25 09:00	11/06/25 15:13	1
Molybdenum	<1.3		2.0	1.3	ug/L		11/05/25 09:00	11/06/25 15:13	1
Selenium	<1.4		5.0	1.4	ug/L		11/05/25 09:00	11/06/25 15:13	1
Thallium	<0.57		1.0	0.57	ug/L		11/05/25 09:00	11/06/25 15:13	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		11/07/25 13:20	11/10/25 11:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	<36		50	36	mg/L			10/22/25 13:07	1
pH (SM 4500 H+ B)	**6.9**	**HF**	1.0	1.0	SU			10/21/25 00:59	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	0.296	U	0.247	0.248	1.00	0.368	pCi/L	10/24/25 08:01	11/20/25 16:21	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*78.9*		*30 - 110*	*10/24/25 08:01*	*11/20/25 16:21*	*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	0.298	U	0.364	0.365	1.00	0.602	pCi/L	10/24/25 08:08	11/20/25 10:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*78.9*		*30 - 110*	*10/24/25 08:08*	*11/20/25 10:07*	*1*
Y Carrier	*79.3*		*30 - 110*	*10/24/25 08:08*	*11/20/25 10:07*	*1*

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: Field Blank
Lab Sample ID: 310-318444-7
Date Collected: 10/17/25 18:01
Matrix: Water
Date Received: 10/20/25 15:30

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	0.594	U	0.440	0.441	5.00	0.602	pCi/L		11/20/25 08:16	1

Definitions/Glossary

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
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
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)
TNTC	Too Numerous To Count

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-472903/3
Matrix: Water
Analysis Batch: 472903

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			11/07/25 02:22	1
Fluoride	<0.075		0.20	0.075	mg/L			11/07/25 02:22	1
Sulfate	<0.42		1.0	0.42	mg/L			11/07/25 02:22	1

Lab Sample ID: LCS 310-472903/4
Matrix: Water
Analysis Batch: 472903

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	2.10		mg/L		105	90 - 110
Sulfate	10.0	10.0		mg/L		100	90 - 110

Lab Sample ID: 310-318403-3 MS
Matrix: Water
Analysis Batch: 472903

Client Sample ID: MW-306
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	17		25.0	40.4		mg/L		94	80 - 120
Fluoride	0.44	J	5.00	5.73		mg/L		106	80 - 120
Sulfate	330		25.0	343	4	mg/L		70	80 - 120

Lab Sample ID: 310-318403-3 MSD
Matrix: Water
Analysis Batch: 472903

Client Sample ID: MW-306
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	17		25.0	40.6		mg/L		94	80 - 120	0	15
Fluoride	0.44	J	5.00	5.75		mg/L		106	80 - 120	0	15
Sulfate	330		25.0	342	4	mg/L		65	80 - 120	0	15

Lab Sample ID: MB 310-473313/3
Matrix: Water
Analysis Batch: 473313

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			11/10/25 07:49	1
Fluoride	<0.075		0.20	0.075	mg/L			11/10/25 07:49	1
Sulfate	<0.42		1.0	0.42	mg/L			11/10/25 07:49	1

Lab Sample ID: LCS 310-473313/4
Matrix: Water
Analysis Batch: 473313

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	10.3		mg/L		103	90 - 110
Fluoride	2.00	2.13		mg/L		107	90 - 110
Sulfate	10.0	10.2		mg/L		102	90 - 110

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-472276/1-A
Matrix: Water
Analysis Batch: 473706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 472276

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		11/04/25 08:30	11/14/25 16:17	1
Arsenic	<0.53		2.0	0.53	ug/L		11/04/25 08:30	11/14/25 16:17	1
Barium	<0.66		2.0	0.66	ug/L		11/04/25 08:30	11/14/25 16:17	1
Beryllium	<0.33		1.0	0.33	ug/L		11/04/25 08:30	11/14/25 16:17	1
Boron	<82		100	82	ug/L		11/04/25 08:30	11/14/25 16:17	1
Cadmium	<0.10		0.20	0.10	ug/L		11/04/25 08:30	11/14/25 16:17	1
Calcium	<0.19		0.50	0.19	mg/L		11/04/25 08:30	11/14/25 16:17	1
Chromium	<1.8		5.0	1.8	ug/L		11/04/25 08:30	11/14/25 16:17	1
Cobalt	<0.17		0.50	0.17	ug/L		11/04/25 08:30	11/14/25 16:17	1
Iron	<50		100	50	ug/L		11/04/25 08:30	11/14/25 16:17	1
Lead	<0.33		0.50	0.33	ug/L		11/04/25 08:30	11/14/25 16:17	1
Lithium	<2.9		10	2.9	ug/L		11/04/25 08:30	11/14/25 16:17	1
Magnesium	<150		500	150	ug/L		11/04/25 08:30	11/14/25 16:17	1
Manganese	<3.6		10	3.6	ug/L		11/04/25 08:30	11/14/25 16:17	1
Molybdenum	<1.3		2.0	1.3	ug/L		11/04/25 08:30	11/14/25 16:17	1
Potassium	<170		500	170	ug/L		11/04/25 08:30	11/14/25 16:17	1
Selenium	<1.4		5.0	1.4	ug/L		11/04/25 08:30	11/14/25 16:17	1
Sodium	<650		1000	650	ug/L		11/04/25 08:30	11/14/25 16:17	1
Thallium	<0.57		1.0	0.57	ug/L		11/04/25 08:30	11/14/25 16:17	1

Lab Sample ID: LCS 310-472276/2-A
Matrix: Water
Analysis Batch: 473706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 472276

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	200	213		ug/L		106	80 - 120
Arsenic	200	198		ug/L		99	80 - 120
Barium	100	94.5		ug/L		94	80 - 120
Beryllium	100	100		ug/L		100	80 - 120
Boron	200	196		ug/L		98	80 - 120
Cadmium	100	95.4		ug/L		95	80 - 120
Calcium	2.00	1.88		mg/L		94	80 - 120
Chromium	100	101		ug/L		101	80 - 120
Cobalt	100	105		ug/L		105	80 - 120
Iron	200	218		ug/L		109	80 - 120
Lead	200	204		ug/L		102	80 - 120
Lithium	200	205		ug/L		103	80 - 120
Magnesium	2000	2060		ug/L		103	80 - 120
Manganese	100	102		ug/L		102	80 - 120
Molybdenum	200	197		ug/L		98	80 - 120
Potassium	2000	2050		ug/L		102	80 - 120
Selenium	400	371		ug/L		93	80 - 120
Sodium	2000	2070		ug/L		104	80 - 120
Thallium	100	95.1		ug/L		95	80 - 120

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

Lab Sample ID: 310-318403-1 MS
Matrix: Water
Analysis Batch: 473706

Client Sample ID: MW-304
Prep Type: Total/NA
Prep Batch: 472276

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1.3	J	200	217		ug/L		108	75 - 125
Arsenic	0.53	J	200	207		ug/L		104	75 - 125
Barium	21		100	111		ug/L		90	75 - 125
Beryllium	<0.33		100	106		ug/L		106	75 - 125
Boron	830		200	1020	4	ug/L		92	75 - 125
Cadmium	<0.10		100	97.8		ug/L		98	75 - 125
Chromium	<1.8		100	101		ug/L		101	75 - 125
Iron	<50		200	233		ug/L		117	75 - 125
Lead	<0.33		200	204		ug/L		102	75 - 125
Lithium	3.5	J	200	209		ug/L		103	75 - 125
Magnesium	29000		2000	30400	4	ug/L		52	75 - 125
Manganese	100		100	208		ug/L		106	75 - 125
Molybdenum	1.3	J	200	199		ug/L		99	75 - 125
Selenium	<1.4		400	374		ug/L		93	75 - 125
Sodium	38000		2000	39000	4	ug/L		59	75 - 125
Thallium	<0.57		100	91.5		ug/L		92	75 - 125

Lab Sample ID: 310-318403-1 MS
Matrix: Water
Analysis Batch: 473842

Client Sample ID: MW-304
Prep Type: Total/NA
Prep Batch: 472276

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	110		2.00	92.9	4	mg/L		-1093	75 - 125
Cobalt	<0.17		100	80.6		ug/L		81	75 - 125
Magnesium	31000		2000	27000	4	ug/L		-203	75 - 125
Manganese	110	F1	100	182	F1	ug/L		72	75 - 125
Potassium	<170		2000	1670		ug/L		84	75 - 125
Sodium	41000		2000	34900	4	ug/L		-287	75 - 125

Lab Sample ID: 310-318403-1 MSD
Matrix: Water
Analysis Batch: 473706

Client Sample ID: MW-304
Prep Type: Total/NA
Prep Batch: 472276

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	1.3	J	200	223		ug/L		111	75 - 125	3	20
Arsenic	0.53	J	200	211		ug/L		105	75 - 125	2	20
Barium	21		100	113		ug/L		92	75 - 125	2	20
Beryllium	<0.33		100	108		ug/L		108	75 - 125	1	20
Boron	830		200	1040	4	ug/L		105	75 - 125	3	20
Cadmium	<0.10		100	100		ug/L		100	75 - 125	2	20
Chromium	<1.8		100	102		ug/L		102	75 - 125	1	20
Iron	<50		200	241		ug/L		120	75 - 125	3	20
Lead	<0.33		200	209		ug/L		104	75 - 125	2	20
Lithium	3.5	J	200	210		ug/L		103	75 - 125	0	20
Magnesium	29000		2000	30800	4	ug/L		73	75 - 125	1	20
Manganese	100		100	212		ug/L		110	75 - 125	2	20
Molybdenum	1.3	J	200	203		ug/L		102	75 - 125	2	20
Selenium	<1.4		400	377		ug/L		94	75 - 125	1	20
Sodium	38000		2000	39700	4	ug/L		94	75 - 125	2	20

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

Lab Sample ID: 310-318403-1 MSD
Matrix: Water
Analysis Batch: 473706

Client Sample ID: MW-304
Prep Type: Total/NA
Prep Batch: 472276

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Thallium	<0.57		100	92.0		ug/L		92	75 - 125	1	20

Lab Sample ID: 310-318403-1 MSD
Matrix: Water
Analysis Batch: 473842

Client Sample ID: MW-304
Prep Type: Total/NA
Prep Batch: 472276

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	110		2.00	110	4	mg/L		-239	75 - 125	17	20
Cobalt	<0.17		100	96.9		ug/L		97	75 - 125	18	20
Magnesium	31000		2000	31900	4	ug/L		43	75 - 125	17	20
Manganese	110	F1	100	214		ug/L		103	75 - 125	16	20
Potassium	<170		2000	2010		ug/L		101	75 - 125	18	20
Sodium	41000		2000	41500	4	ug/L		40	75 - 125	17	20

Lab Sample ID: 310-318444-1 DU
Matrix: Water
Analysis Batch: 473706

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 472276

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			0.552	J	ug/L				NC	20
Barium	38			39.3		ug/L				2	20
Beryllium	<0.33			<0.33		ug/L				NC	20
Boron	110			105		ug/L				4	20
Cadmium	<0.10			<0.10		ug/L				NC	20
Calcium	72			73.3		mg/L				1	20
Chromium	<1.8			<1.8		ug/L				NC	20
Cobalt	<0.17			<0.17		ug/L				NC	20
Iron	67	J		69.7	J	ug/L				3	20
Lead	<0.33			<0.33		ug/L				NC	20
Lithium	4.6	J		4.71	J	ug/L				3	20
Molybdenum	1.3	J		1.39	J	ug/L				4	20
Selenium	<1.4			<1.4		ug/L				NC	20
Thallium	<0.57			<0.57		ug/L				NC	20

Lab Sample ID: MB 310-472424/1-A
Matrix: Water
Analysis Batch: 472771

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 472424

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		11/05/25 09:00	11/06/25 14:39	1
Arsenic	<0.53		2.0	0.53	ug/L		11/05/25 09:00	11/06/25 14:39	1
Barium	<0.66		2.0	0.66	ug/L		11/05/25 09:00	11/06/25 14:39	1
Beryllium	<0.33		1.0	0.33	ug/L		11/05/25 09:00	11/06/25 14:39	1
Boron	<82		100	82	ug/L		11/05/25 09:00	11/06/25 14:39	1
Cadmium	<0.10		0.20	0.10	ug/L		11/05/25 09:00	11/06/25 14:39	1
Calcium	<0.19		0.50	0.19	mg/L		11/05/25 09:00	11/06/25 14:39	1
Chromium	<1.8		5.0	1.8	ug/L		11/05/25 09:00	11/06/25 14:39	1
Cobalt	<0.17		0.50	0.17	ug/L		11/05/25 09:00	11/06/25 14:39	1

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

Lab Sample ID: MB 310-472424/1-A
Matrix: Water
Analysis Batch: 472771

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 472424

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<50		100	50	ug/L		11/05/25 09:00	11/06/25 14:39	1
Lead	<0.33		0.50	0.33	ug/L		11/05/25 09:00	11/06/25 14:39	1
Lithium	<2.9		10	2.9	ug/L		11/05/25 09:00	11/06/25 14:39	1
Magnesium	<150		500	150	ug/L		11/05/25 09:00	11/06/25 14:39	1
Manganese	<3.6		10	3.6	ug/L		11/05/25 09:00	11/06/25 14:39	1
Molybdenum	<1.3		2.0	1.3	ug/L		11/05/25 09:00	11/06/25 14:39	1
Potassium	<170		500	170	ug/L		11/05/25 09:00	11/06/25 14:39	1
Selenium	<1.4		5.0	1.4	ug/L		11/05/25 09:00	11/06/25 14:39	1
Sodium	<650		1000	650	ug/L		11/05/25 09:00	11/06/25 14:39	1
Thallium	<0.57		1.0	0.57	ug/L		11/05/25 09:00	11/06/25 14:39	1

Lab Sample ID: LCS 310-472424/2-A
Matrix: Water
Analysis Batch: 472771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 472424

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	200	208		ug/L		104	80 - 120
Arsenic	200	187		ug/L		94	80 - 120
Barium	100	94.8		ug/L		95	80 - 120
Beryllium	100	103		ug/L		103	80 - 120
Boron	200	218		ug/L		109	80 - 120
Cadmium	100	96.9		ug/L		97	80 - 120
Calcium	2.00	1.95		mg/L		97	80 - 120
Chromium	100	99.1		ug/L		99	80 - 120
Cobalt	100	89.7		ug/L		90	80 - 120
Iron	200	186		ug/L		93	80 - 120
Lead	200	193		ug/L		96	80 - 120
Lithium	200	205		ug/L		102	80 - 120
Magnesium	2000	1890		ug/L		95	80 - 120
Manganese	100	98.9		ug/L		99	80 - 120
Molybdenum	200	193		ug/L		96	80 - 120
Potassium	2000	1820		ug/L		91	80 - 120
Selenium	400	376		ug/L		94	80 - 120
Sodium	2000	2150		ug/L		108	80 - 120
Thallium	100	111		ug/L		111	80 - 120

Lab Sample ID: 310-318444-2 MS
Matrix: Water
Analysis Batch: 472771

Client Sample ID: MW-302
Prep Type: Total/NA
Prep Batch: 472424

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1.2	J	200	221		ug/L		110	75 - 125
Arsenic	3.4		200	203		ug/L		100	75 - 125
Barium	81		100	184		ug/L		103	75 - 125
Beryllium	<0.33		100	111		ug/L		111	75 - 125
Boron	<82		200	251		ug/L		125	75 - 125
Cadmium	<0.10		100	102		ug/L		102	75 - 125
Calcium	53		2.00	56.8	4	mg/L		202	75 - 125
Chromium	<1.8		100	103		ug/L		103	75 - 125

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

Lab Sample ID: 310-318444-2 MS
Matrix: Water
Analysis Batch: 472771

Client Sample ID: MW-302
Prep Type: Total/NA
Prep Batch: 472424

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	1.1		100	89.7		ug/L		89	75 - 125
Iron	320		200	530		ug/L		106	75 - 125
Lead	<0.33		200	199		ug/L		100	75 - 125
Lithium	3.4	J	200	216		ug/L		106	75 - 125
Magnesium	17000		2000	19600	4	ug/L		135	75 - 125
Manganese	860		100	1010	4	ug/L		156	75 - 125
Molybdenum	<1.3		200	203		ug/L		102	75 - 125
Potassium	310	J	2000	2170		ug/L		93	75 - 125
Selenium	<1.4		400	403		ug/L		101	75 - 125
Sodium	4500		2000	6770		ug/L		114	75 - 125
Thallium	<0.57		100	108		ug/L		108	75 - 125

Lab Sample ID: 310-318444-2 MSD
Matrix: Water
Analysis Batch: 472771

Client Sample ID: MW-302
Prep Type: Total/NA
Prep Batch: 472424

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	1.2	J	200	219		ug/L		109	75 - 125	1	20
Arsenic	3.4		200	200		ug/L		99	75 - 125	1	20
Barium	81		100	183		ug/L		101	75 - 125	1	20
Beryllium	<0.33		100	108		ug/L		108	75 - 125	2	20
Boron	<82		200	245		ug/L		123	75 - 125	2	20
Cadmium	<0.10		100	101		ug/L		101	75 - 125	1	20
Calcium	53		2.00	56.5	4	mg/L		183	75 - 125	1	20
Chromium	<1.8		100	101		ug/L		101	75 - 125	2	20
Cobalt	1.1		100	88.5		ug/L		87	75 - 125	1	20
Iron	320		200	527		ug/L		105	75 - 125	1	20
Lead	<0.33		200	195		ug/L		98	75 - 125	2	20
Lithium	3.4	J	200	213		ug/L		105	75 - 125	1	20
Magnesium	17000		2000	19500	4	ug/L		131	75 - 125	0	20
Manganese	860		100	1060	4	ug/L		203	75 - 125	5	20
Molybdenum	<1.3		200	201		ug/L		100	75 - 125	1	20
Potassium	310	J	2000	2150		ug/L		92	75 - 125	1	20
Selenium	<1.4		400	391		ug/L		98	75 - 125	3	20
Sodium	4500		2000	6620		ug/L		107	75 - 125	2	20
Thallium	<0.57		100	105		ug/L		105	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-472792/1-A
Matrix: Water
Analysis Batch: 473010

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 472792

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		11/07/25 13:20	11/10/25 10:17	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 310-472792/2-A
Matrix: Water
Analysis Batch: 473010
Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 472792

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			1.67	1.64		ug/L		98	80 - 120		

Lab Sample ID: MB 310-472800/1-A
Matrix: Water
Analysis Batch: 473010
Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 472800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		11/07/25 13:20	11/10/25 11:21	1

Lab Sample ID: LCS 310-472800/2-A
Matrix: Water
Analysis Batch: 473010
Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 472800

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			1.67	1.62		ug/L		97	80 - 120		

Lab Sample ID: 310-318444-3 MS
Matrix: Water
Analysis Batch: 473010
Client Sample ID: MW-303
Prep Type: Total/NA
Prep Batch: 472800

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	<0.11		1.67	1.56		ug/L		94	80 - 120		

Lab Sample ID: 310-318444-3 MSD
Matrix: Water
Analysis Batch: 473010
Client Sample ID: MW-303
Prep Type: Total/NA
Prep Batch: 472800

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.11		1.67	1.62		ug/L		97	80 - 120	3	20

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 310-471526/2
Matrix: Water
Analysis Batch: 471526
Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3			1000	943		mg/L		94	85 - 115		

Lab Sample ID: 310-318403-7 DU
Matrix: Water
Analysis Batch: 471526
Client Sample ID: MW-314
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Bicarbonate Alkalinity as CaCO3	240			239		mg/L				0.6	
Carbonate Alkalinity as CaCO3	<2.5			<2.5		mg/L				NC	
Total Alkalinity as CaCO3	240			239		mg/L				0.6	13

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 310-470551/1
Matrix: Water
Analysis Batch: 470551

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			10/18/25 15:57	1

Lab Sample ID: LCS 310-470551/2
Matrix: Water
Analysis Batch: 470551

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	968		mg/L		97	89 - 110

Lab Sample ID: MB 310-470813/1
Matrix: Water
Analysis Batch: 470813

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			10/21/25 12:20	1

Lab Sample ID: LCS 310-470813/2
Matrix: Water
Analysis Batch: 470813

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	954		mg/L		95	89 - 110

Lab Sample ID: MB 310-470978/1
Matrix: Water
Analysis Batch: 470978

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			10/22/25 13:07	1

Lab Sample ID: LCS 310-470978/2
Matrix: Water
Analysis Batch: 470978

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	936		mg/L		94	89 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 310-470450/23
Matrix: Water
Analysis Batch: 470450

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: SM 4500 H+ B - pH (Continued)

Lab Sample ID: 310-318403-1 DU
Matrix: Water
Analysis Batch: 470450

Client Sample ID: MW-304
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.9		7.0		SU		0.6	20

Lab Sample ID: LCS 310-470742/1
Matrix: Water
Analysis Batch: 470742

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	6.9		SU		99	98 - 102

Lab Sample ID: 310-318444-1 DU
Matrix: Water
Analysis Batch: 470742

Client Sample ID: MW-301
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.8	HF	6.8		SU		0.4	20

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-741929/1-A
Matrix: Water
Analysis Batch: 745772

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 741929

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	0.2487	U	0.279	0.279	1.00	0.454	pCi/L	10/23/25 08:31	11/18/25 13:29	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Barium	*86.3*		*30 - 110*	*10/23/25 08:31*	*11/18/25 13:29*	*1*

Lab Sample ID: LCS 160-741929/2-A
Matrix: Water
Analysis Batch: 745772

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 741929

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium 226	9.57	9.153		1.27	1.00	0.350	pCi/L	96	75 - 125

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Barium	*80.3*		*30 - 110*

Lab Sample ID: MB 160-742076/1-A
Matrix: Water
Analysis Batch: 746128

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 742076

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	0.1977	U	0.219	0.220	1.00	0.354	pCi/L	10/24/25 08:01	11/20/25 16:18	1

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-742076/1-A
Matrix: Water
Analysis Batch: 746128

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 742076

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Barium	80.6		30 - 110	10/24/25 08:01	11/20/25 16:18	1

Lab Sample ID: LCS 160-742076/2-A
Matrix: Water
Analysis Batch: 746128

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 742076

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium 226			9.57	10.28		1.38	1.00	0.468	pCi/L	107	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Barium	77.5		30 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-741930/1-A
Matrix: Water
Analysis Batch: 745774

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 741930

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	0.3480	U	0.325	0.327	1.00	0.514	pCi/L	10/23/25 08:38	11/18/25 09:55	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Barium	86.3		30 - 110	10/23/25 08:38	11/18/25 09:55	1
Y Carrier	82.6		30 - 110	10/23/25 08:38	11/18/25 09:55	1

Lab Sample ID: LCS 160-741930/2-A
Matrix: Water
Analysis Batch: 745774

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 741930

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium 228			7.92	7.877		1.17	1.00	0.577	pCi/L	99	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Barium	80.3		30 - 110
Y Carrier	84.9		30 - 110

Lab Sample ID: MB 160-742077/1-A
Matrix: Water
Analysis Batch: 746170

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 742077

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	0.4660	U	0.405	0.407	1.00	0.640	pCi/L	10/24/25 08:08	11/20/25 10:02	1

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-742077/1-A
Matrix: Water
Analysis Batch: 746170

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 742077

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Barium	80.6		30 - 110	10/24/25 08:08	11/20/25 10:02	1
Y Carrier	83.0		30 - 110	10/24/25 08:08	11/20/25 10:02	1

Lab Sample ID: LCS 160-742077/2-A
Matrix: Water
Analysis Batch: 746170

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 742077

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium 228			7.92	7.024		1.12	1.00	0.673	pCi/L	89	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Barium	77.5		30 - 110
Y Carrier	84.5		30 - 110

QC Association Summary

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

HPLC/IC

Analysis Batch: 472903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-318403-3	MW-306	Total/NA	Water	9056A	
310-318403-8	MW-312	Total/NA	Water	9056A	
MB 310-472903/3	Method Blank	Total/NA	Water	9056A	
LCS 310-472903/4	Lab Control Sample	Total/NA	Water	9056A	
310-318403-3 MS	MW-306	Total/NA	Water	9056A	
310-318403-3 MSD	MW-306	Total/NA	Water	9056A	

Analysis Batch: 473313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-318403-1	MW-304	Total/NA	Water	9056A	
310-318403-2	MW-305	Total/NA	Water	9056A	
310-318444-1	MW-301	Total/NA	Water	9056A	
310-318444-2	MW-302	Total/NA	Water	9056A	
310-318444-3	MW-303	Total/NA	Water	9056A	
310-318444-7	Field Blank	Total/NA	Water	9056A	
MB 310-473313/3	Method Blank	Total/NA	Water	9056A	
LCS 310-473313/4	Lab Control Sample	Total/NA	Water	9056A	

Metals

Prep Batch: 472276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-318403-1	MW-304	Total/NA	Water	3005A	
310-318403-2	MW-305	Total/NA	Water	3005A	
310-318403-3	MW-306	Total/NA	Water	3005A	
310-318403-4	MW-306A	Total/NA	Water	3005A	
310-318403-5	MW-312A	Total/NA	Water	3005A	
310-318403-6	MW-313	Total/NA	Water	3005A	
310-318403-7	MW-314	Total/NA	Water	3005A	
310-318403-8	MW-312	Total/NA	Water	3005A	
310-318403-9	MW-307	Total/NA	Water	3005A	
310-318403-10	MW-308	Total/NA	Water	3005A	
310-318444-1	MW-301	Total/NA	Water	3005A	
MB 310-472276/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-472276/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-318403-1 MS	MW-304	Total/NA	Water	3005A	
310-318403-1 MSD	MW-304	Total/NA	Water	3005A	
310-318444-1 DU	MW-301	Total/NA	Water	3005A	

Prep Batch: 472424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-318444-2	MW-302	Total/NA	Water	3005A	
310-318444-3	MW-303	Total/NA	Water	3005A	
310-318444-4	MW-309	Total/NA	Water	3005A	
310-318444-5	MW-310	Total/NA	Water	3005A	
310-318444-6	MW-311	Total/NA	Water	3005A	
310-318444-7	Field Blank	Total/NA	Water	3005A	
MB 310-472424/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-472424/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-318444-2 MS	MW-302	Total/NA	Water	3005A	
310-318444-2 MSD	MW-302	Total/NA	Water	3005A	

Metals

Analysis Batch: 472771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-318444-2	MW-302	Total/NA	Water	6020B	472424
310-318444-3	MW-303	Total/NA	Water	6020B	472424
310-318444-4	MW-309	Total/NA	Water	6020B	472424
310-318444-5	MW-310	Total/NA	Water	6020B	472424
310-318444-6	MW-311	Total/NA	Water	6020B	472424
310-318444-7	Field Blank	Total/NA	Water	6020B	472424
MB 310-472424/1-A	Method Blank	Total/NA	Water	6020B	472424
LCS 310-472424/2-A	Lab Control Sample	Total/NA	Water	6020B	472424
310-318444-2 MS	MW-302	Total/NA	Water	6020B	472424
310-318444-2 MSD	MW-302	Total/NA	Water	6020B	472424

Prep Batch: 472792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-318403-1	MW-304	Total/NA	Water	7470A	
310-318403-2	MW-305	Total/NA	Water	7470A	
310-318403-3	MW-306	Total/NA	Water	7470A	
310-318403-8	MW-312	Total/NA	Water	7470A	
310-318444-1	MW-301	Total/NA	Water	7470A	
310-318444-2	MW-302	Total/NA	Water	7470A	
MB 310-472792/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-472792/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 472800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-318444-3	MW-303	Total/NA	Water	7470A	
310-318444-7	Field Blank	Total/NA	Water	7470A	
MB 310-472800/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-472800/2-A	Lab Control Sample	Total/NA	Water	7470A	
310-318444-3 MS	MW-303	Total/NA	Water	7470A	
310-318444-3 MSD	MW-303	Total/NA	Water	7470A	

Analysis Batch: 473010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-318403-1	MW-304	Total/NA	Water	7470A	472792
310-318403-2	MW-305	Total/NA	Water	7470A	472792
310-318403-3	MW-306	Total/NA	Water	7470A	472792
310-318403-8	MW-312	Total/NA	Water	7470A	472792
310-318444-1	MW-301	Total/NA	Water	7470A	472792
310-318444-2	MW-302	Total/NA	Water	7470A	472792
310-318444-3	MW-303	Total/NA	Water	7470A	472800
310-318444-7	Field Blank	Total/NA	Water	7470A	472800
MB 310-472792/1-A	Method Blank	Total/NA	Water	7470A	472792
MB 310-472800/1-A	Method Blank	Total/NA	Water	7470A	472800
LCS 310-472792/2-A	Lab Control Sample	Total/NA	Water	7470A	472792
LCS 310-472800/2-A	Lab Control Sample	Total/NA	Water	7470A	472800
310-318444-3 MS	MW-303	Total/NA	Water	7470A	472800
310-318444-3 MSD	MW-303	Total/NA	Water	7470A	472800

Analysis Batch: 473706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-318403-1	MW-304	Total/NA	Water	6020B	472276

Metals (Continued)

Analysis Batch: 473706 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-318403-2	MW-305	Total/NA	Water	6020B	472276
310-318403-3	MW-306	Total/NA	Water	6020B	472276
310-318403-4	MW-306A	Total/NA	Water	6020B	472276
310-318403-5	MW-312A	Total/NA	Water	6020B	472276
310-318403-6	MW-313	Total/NA	Water	6020B	472276
310-318403-7	MW-314	Total/NA	Water	6020B	472276
310-318403-8	MW-312	Total/NA	Water	6020B	472276
310-318403-9	MW-307	Total/NA	Water	6020B	472276
310-318403-10	MW-308	Total/NA	Water	6020B	472276
310-318444-1	MW-301	Total/NA	Water	6020B	472276
MB 310-472276/1-A	Method Blank	Total/NA	Water	6020B	472276
LCS 310-472276/2-A	Lab Control Sample	Total/NA	Water	6020B	472276
310-318403-1 MS	MW-304	Total/NA	Water	6020B	472276
310-318403-1 MSD	MW-304	Total/NA	Water	6020B	472276
310-318444-1 DU	MW-301	Total/NA	Water	6020B	472276

Analysis Batch: 473842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-318403-1	MW-304	Total/NA	Water	6020B	472276
310-318403-4	MW-306A	Total/NA	Water	6020B	472276
310-318403-1 MS	MW-304	Total/NA	Water	6020B	472276
310-318403-1 MSD	MW-304	Total/NA	Water	6020B	472276

General Chemistry

Analysis Batch: 470450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-318403-1	MW-304	Total/NA	Water	SM 4500 H+ B	
310-318403-2	MW-305	Total/NA	Water	SM 4500 H+ B	
310-318403-3	MW-306	Total/NA	Water	SM 4500 H+ B	
310-318403-8	MW-312	Total/NA	Water	SM 4500 H+ B	
LCS 310-470450/23	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
310-318403-1 DU	MW-304	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 470551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-318403-3	MW-306	Total/NA	Water	SM 2540C	
MB 310-470551/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-470551/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 470742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-318444-1	MW-301	Total/NA	Water	SM 4500 H+ B	
310-318444-2	MW-302	Total/NA	Water	SM 4500 H+ B	
310-318444-3	MW-303	Total/NA	Water	SM 4500 H+ B	
310-318444-7	Field Blank	Total/NA	Water	SM 4500 H+ B	
LCS 310-470742/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
310-318444-1 DU	MW-301	Total/NA	Water	SM 4500 H+ B	

QC Association Summary

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

General Chemistry

Analysis Batch: 470813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-318403-8	MW-312	Total/NA	Water	SM 2540C	
MB 310-470813/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-470813/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 470978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-318403-1	MW-304	Total/NA	Water	SM 2540C	
310-318403-2	MW-305	Total/NA	Water	SM 2540C	
310-318444-1	MW-301	Total/NA	Water	SM 2540C	
310-318444-2	MW-302	Total/NA	Water	SM 2540C	
310-318444-3	MW-303	Total/NA	Water	SM 2540C	
310-318444-7	Field Blank	Total/NA	Water	SM 2540C	
MB 310-470978/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-470978/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 471526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-318403-4	MW-306A	Total/NA	Water	SM 2320B	
310-318403-5	MW-312A	Total/NA	Water	SM 2320B	
310-318403-6	MW-313	Total/NA	Water	SM 2320B	
310-318403-7	MW-314	Total/NA	Water	SM 2320B	
310-318403-8	MW-312	Total/NA	Water	SM 2320B	
310-318444-4	MW-309	Total/NA	Water	SM 2320B	
310-318444-5	MW-310	Total/NA	Water	SM 2320B	
310-318444-6	MW-311	Total/NA	Water	SM 2320B	
LCS 310-471526/2	Lab Control Sample	Total/NA	Water	SM 2320B	
310-318403-7 DU	MW-314	Total/NA	Water	SM 2320B	

Rad

Prep Batch: 741929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-318403-1	MW-304	Total/NA	Water	PrecSep-21	
310-318403-2	MW-305	Total/NA	Water	PrecSep-21	
310-318403-3	MW-306	Total/NA	Water	PrecSep-21	
310-318403-8	MW-312	Total/NA	Water	PrecSep-21	
MB 160-741929/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-741929/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 741930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-318403-1	MW-304	Total/NA	Water	PrecSep_0	
310-318403-2	MW-305	Total/NA	Water	PrecSep_0	
310-318403-3	MW-306	Total/NA	Water	PrecSep_0	
310-318403-8	MW-312	Total/NA	Water	PrecSep_0	
MB 160-741930/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-741930/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 742076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-318444-1	MW-301	Total/NA	Water	PrecSep-21	

Rad (Continued)

Prep Batch: 742076 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-318444-2	MW-302	Total/NA	Water	PrecSep-21	
310-318444-3	MW-303	Total/NA	Water	PrecSep-21	
310-318444-7	Field Blank	Total/NA	Water	PrecSep-21	
MB 160-742076/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-742076/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 742077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-318444-1	MW-301	Total/NA	Water	PrecSep_0	
310-318444-2	MW-302	Total/NA	Water	PrecSep_0	
310-318444-3	MW-303	Total/NA	Water	PrecSep_0	
310-318444-7	Field Blank	Total/NA	Water	PrecSep_0	
MB 160-742077/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-742077/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Field Service / Mobile Lab

Analysis Batch: 472322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-318403-1	MW-304	Total/NA	Water	Field Sampling	
310-318403-2	MW-305	Total/NA	Water	Field Sampling	
310-318403-3	MW-306	Total/NA	Water	Field Sampling	
310-318403-4	MW-306A	Total/NA	Water	Field Sampling	
310-318403-5	MW-312A	Total/NA	Water	Field Sampling	
310-318403-6	MW-313	Total/NA	Water	Field Sampling	
310-318403-7	MW-314	Total/NA	Water	Field Sampling	
310-318403-8	MW-312	Total/NA	Water	Field Sampling	
310-318403-9	MW-307	Total/NA	Water	Field Sampling	
310-318403-10	MW-308	Total/NA	Water	Field Sampling	
310-318444-1	MW-301	Total/NA	Water	Field Sampling	
310-318444-2	MW-302	Total/NA	Water	Field Sampling	
310-318444-3	MW-303	Total/NA	Water	Field Sampling	
310-318444-4	MW-309	Total/NA	Water	Field Sampling	
310-318444-5	MW-310	Total/NA	Water	Field Sampling	
310-318444-6	MW-311	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-304
Lab Sample ID: 310-318403-1
Date Collected: 10/16/25 15:58
Matrix: Water
Date Received: 10/18/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	473313	HE7K	EET CF	11/10/25 12:47
Total/NA	Prep	3005A			472276	RLT9	EET CF	11/04/25 08:30
Total/NA	Analysis	6020B		1	473706	ZRI4	EET CF	11/14/25 16:22
Total/NA	Prep	3005A			472276	RLT9	EET CF	11/04/25 08:30
Total/NA	Analysis	6020B		1	473842	NFT2	EET CF	11/17/25 13:09
Total/NA	Prep	7470A			472792	RLT9	EET CF	11/07/25 13:20
Total/NA	Analysis	7470A		1	473010	RLT9	EET CF	11/10/25 11:04
Total/NA	Analysis	SM 2540C		1	470978	TGN5	EET CF	10/22/25 13:07
Total/NA	Analysis	SM 4500 H+ B		1	470450	W9YR	EET CF	10/17/25 11:48
Total/NA	Prep	PrecSep-21			741929	JTR	EET SL	10/23/25 08:31
Total/NA	Analysis	903.0		1	745901	SWS	EET SL	11/19/25 07:59
Total/NA	Prep	PrecSep_0			741930	JTR	EET SL	10/23/25 08:38
Total/NA	Analysis	904.0		1	745773	SWS	EET SL	11/18/25 10:02
Total/NA	Analysis	Ra226_Ra228 Pos		1	745619	EMH	EET SL	11/18/25 10:44
Total/NA	Analysis	Field Sampling		1	472322	FQT6	EET CF	10/16/25 15:58

Client Sample ID: MW-305
Lab Sample ID: 310-318403-2
Date Collected: 10/16/25 15:20
Matrix: Water
Date Received: 10/18/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	473313	HE7K	EET CF	11/10/25 13:03
Total/NA	Prep	3005A			472276	RLT9	EET CF	11/04/25 08:30
Total/NA	Analysis	6020B		1	473706	ZRI4	EET CF	11/14/25 16:32
Total/NA	Prep	7470A			472792	RLT9	EET CF	11/07/25 13:20
Total/NA	Analysis	7470A		1	473010	RLT9	EET CF	11/10/25 11:06
Total/NA	Analysis	SM 2540C		1	470978	TGN5	EET CF	10/22/25 13:07
Total/NA	Analysis	SM 4500 H+ B		1	470450	W9YR	EET CF	10/17/25 16:41
Total/NA	Prep	PrecSep-21			741929	JTR	EET SL	10/23/25 08:31
Total/NA	Analysis	903.0		1	745901	SWS	EET SL	11/19/25 08:00
Total/NA	Prep	PrecSep_0			741930	JTR	EET SL	10/23/25 08:38
Total/NA	Analysis	904.0		1	745773	SWS	EET SL	11/18/25 10:01
Total/NA	Analysis	Ra226_Ra228 Pos		1	745619	EMH	EET SL	11/18/25 10:44
Total/NA	Analysis	Field Sampling		1	472322	FQT6	EET CF	10/16/25 15:20

Client Sample ID: MW-306
Lab Sample ID: 310-318403-3
Date Collected: 10/14/25 16:25
Matrix: Water
Date Received: 10/18/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	472903	ZRI4	EET CF	11/07/25 04:00
Total/NA	Prep	3005A			472276	RLT9	EET CF	11/04/25 08:30
Total/NA	Analysis	6020B		1	473706	ZRI4	EET CF	11/14/25 16:35

Lab Chronicle

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-306
Lab Sample ID: 310-318403-3
Date Collected: 10/14/25 16:25
Matrix: Water
Date Received: 10/18/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			472792	RLT9	EET CF	11/07/25 13:20
Total/NA	Analysis	7470A		1	473010	RLT9	EET CF	11/10/25 11:08
Total/NA	Analysis	SM 2540C		1	470551	ENB7	EET CF	10/18/25 15:57
Total/NA	Analysis	SM 4500 H+ B		1	470450	W9YR	EET CF	10/17/25 16:41
Total/NA	Prep	PrecSep-21			741929	JTR	EET SL	10/23/25 08:31
Total/NA	Analysis	903.0		1	745901	SWS	EET SL	11/19/25 08:00
Total/NA	Prep	PrecSep_0			741930	JTR	EET SL	10/23/25 08:38
Total/NA	Analysis	904.0		1	745773	SWS	EET SL	11/18/25 10:01
Total/NA	Analysis	Ra226_Ra228 Pos		1	745619	EMH	EET SL	11/18/25 10:44
Total/NA	Analysis	Field Sampling		1	472322	FQT6	EET CF	10/14/25 16:25

Client Sample ID: MW-306A
Lab Sample ID: 310-318403-4
Date Collected: 10/15/25 13:06
Matrix: Water
Date Received: 10/18/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			472276	RLT9	EET CF	11/04/25 08:30
Total/NA	Analysis	6020B		1	473706	ZRI4	EET CF	11/14/25 16:37
Total/NA	Prep	3005A			472276	RLT9	EET CF	11/04/25 08:30
Total/NA	Analysis	6020B		1	473842	NFT2	EET CF	11/17/25 13:23
Total/NA	Analysis	SM 2320B		1	471526	HE7K	EET CF	10/27/25 11:49
Total/NA	Analysis	Field Sampling		1	472322	FQT6	EET CF	10/15/25 13:06

Client Sample ID: MW-312A
Lab Sample ID: 310-318403-5
Date Collected: 10/15/25 17:00
Matrix: Water
Date Received: 10/18/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			472276	RLT9	EET CF	11/04/25 08:30
Total/NA	Analysis	6020B		1	473706	ZRI4	EET CF	11/14/25 16:40
Total/NA	Analysis	SM 2320B		1	471526	HE7K	EET CF	10/27/25 12:05
Total/NA	Analysis	Field Sampling		1	472322	FQT6	EET CF	10/15/25 17:00

Client Sample ID: MW-313
Lab Sample ID: 310-318403-6
Date Collected: 10/16/25 16:59
Matrix: Water
Date Received: 10/18/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			472276	RLT9	EET CF	11/04/25 08:30
Total/NA	Analysis	6020B		1	473706	ZRI4	EET CF	11/14/25 16:48
Total/NA	Analysis	SM 2320B		1	471526	HE7K	EET CF	10/27/25 12:14
Total/NA	Analysis	Field Sampling		1	472322	FQT6	EET CF	10/16/25 16:59

Lab Chronicle

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-314
Lab Sample ID: 310-318403-7
Date Collected: 10/16/25 17:35
Matrix: Water
Date Received: 10/18/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			472276	RLT9	EET CF	11/04/25 08:30
Total/NA	Analysis	6020B		1	473706	ZRI4	EET CF	11/14/25 16:50
Total/NA	Analysis	SM 2320B		1	471526	HE7K	EET CF	10/27/25 12:24
Total/NA	Analysis	Field Sampling		1	472322	FQT6	EET CF	10/16/25 17:35

Client Sample ID: MW-312
Lab Sample ID: 310-318403-8
Date Collected: 10/15/25 15:00
Matrix: Water
Date Received: 10/18/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	472903	ZRI4	EET CF	11/07/25 19:00
Total/NA	Prep	3005A			472276	RLT9	EET CF	11/04/25 08:30
Total/NA	Analysis	6020B		1	473706	ZRI4	EET CF	11/14/25 16:53
Total/NA	Prep	7470A			472792	RLT9	EET CF	11/07/25 13:20
Total/NA	Analysis	7470A		1	473010	RLT9	EET CF	11/10/25 11:10
Total/NA	Analysis	SM 2320B		1	471526	HE7K	EET CF	10/27/25 12:41
Total/NA	Analysis	SM 2540C		1	470813	TGN5	EET CF	10/21/25 12:20
Total/NA	Analysis	SM 4500 H+ B		1	470450	W9YR	EET CF	10/17/25 16:41
Total/NA	Prep	PrecSep-21			741929	JTR	EET SL	10/23/25 08:31
Total/NA	Analysis	903.0		1	745901	SWS	EET SL	11/19/25 11:04
Total/NA	Prep	PrecSep_0			741930	JTR	EET SL	10/23/25 08:38
Total/NA	Analysis	904.0		1	745773	SWS	EET SL	11/18/25 10:02
Total/NA	Analysis	Ra226_Ra228 Pos		1	745619	EMH	EET SL	11/18/25 10:44
Total/NA	Analysis	Field Sampling		1	472322	FQT6	EET CF	10/15/25 15:00

Client Sample ID: MW-307
Lab Sample ID: 310-318403-9
Date Collected: 10/15/25 18:39
Matrix: Water
Date Received: 10/18/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			472276	RLT9	EET CF	11/04/25 08:30
Total/NA	Analysis	6020B		1	473706	ZRI4	EET CF	11/14/25 16:55
Total/NA	Analysis	Field Sampling		1	472322	FQT6	EET CF	10/15/25 18:39

Client Sample ID: MW-308
Lab Sample ID: 310-318403-10
Date Collected: 10/16/25 18:34
Matrix: Water
Date Received: 10/18/25 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			472276	RLT9	EET CF	11/04/25 08:30
Total/NA	Analysis	6020B		1	473706	ZRI4	EET CF	11/14/25 16:58
Total/NA	Analysis	Field Sampling		1	472322	FQT6	EET CF	10/16/25 18:34

Lab Chronicle

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-301
Lab Sample ID: 310-318444-1
Date Collected: 10/17/25 15:00
Matrix: Water
Date Received: 10/20/25 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	473313	HE7K	EET CF	11/10/25 13:18
Total/NA	Prep	3005A			472276	RLT9	EET CF	11/04/25 08:30
Total/NA	Analysis	6020B		1	473706	ZRI4	EET CF	11/14/25 17:00
Total/NA	Prep	7470A			472792	RLT9	EET CF	11/07/25 13:20
Total/NA	Analysis	7470A		1	473010	RLT9	EET CF	11/10/25 11:13
Total/NA	Analysis	SM 2540C		1	470978	TGN5	EET CF	10/22/25 13:07
Total/NA	Analysis	SM 4500 H+ B		1	470742	ZJX4	EET CF	10/21/25 00:50
Total/NA	Prep	PrecSep-21			742076	JTR	EET SL	10/24/25 08:01
Total/NA	Analysis	903.0		1	746128	SWS	EET SL	11/20/25 16:21
Total/NA	Prep	PrecSep_0			742077	JTR	EET SL	10/24/25 08:08
Total/NA	Analysis	904.0		1	746170	SWS	EET SL	11/20/25 10:04
Total/NA	Analysis	Ra226_Ra228 Pos		1	745619	EMH	EET SL	11/20/25 08:16
Total/NA	Analysis	Field Sampling		1	472322	FQT6	EET CF	10/17/25 15:00

Client Sample ID: MW-302
Lab Sample ID: 310-318444-2
Date Collected: 10/17/25 15:46
Matrix: Water
Date Received: 10/20/25 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	473313	HE7K	EET CF	11/10/25 13:34
Total/NA	Prep	3005A			472424	RLT9	EET CF	11/05/25 09:00
Total/NA	Analysis	6020B		1	472771	NFT2	EET CF	11/06/25 14:45
Total/NA	Prep	7470A			472792	RLT9	EET CF	11/07/25 13:20
Total/NA	Analysis	7470A		1	473010	RLT9	EET CF	11/10/25 11:15
Total/NA	Analysis	SM 2540C		1	470978	TGN5	EET CF	10/22/25 13:07
Total/NA	Analysis	SM 4500 H+ B		1	470742	ZJX4	EET CF	10/21/25 00:53
Total/NA	Prep	PrecSep-21			742076	JTR	EET SL	10/24/25 08:01
Total/NA	Analysis	903.0		1	746128	SWS	EET SL	11/20/25 16:21
Total/NA	Prep	PrecSep_0			742077	JTR	EET SL	10/24/25 08:08
Total/NA	Analysis	904.0		1	746170	SWS	EET SL	11/20/25 10:04
Total/NA	Analysis	Ra226_Ra228 Pos		1	745619	EMH	EET SL	11/20/25 08:16
Total/NA	Analysis	Field Sampling		1	472322	FQT6	EET CF	10/17/25 15:46

Client Sample ID: MW-303
Lab Sample ID: 310-318444-3
Date Collected: 10/17/25 14:00
Matrix: Water
Date Received: 10/20/25 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	473313	HE7K	EET CF	11/10/25 14:21
Total/NA	Prep	3005A			472424	RLT9	EET CF	11/05/25 09:00
Total/NA	Analysis	6020B		1	472771	NFT2	EET CF	11/06/25 14:56
Total/NA	Prep	7470A			472800	RLT9	EET CF	11/07/25 13:20
Total/NA	Analysis	7470A		1	473010	RLT9	EET CF	11/10/25 11:25
Total/NA	Analysis	SM 2540C		1	470978	TGN5	EET CF	10/22/25 13:07

Lab Chronicle

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: MW-303
Lab Sample ID: 310-318444-3
Date Collected: 10/17/25 14:00
Matrix: Water
Date Received: 10/20/25 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 H+ B		1	470742	ZJX4	EET CF	10/21/25 00:54
Total/NA	Prep	PrecSep-21			742076	JTR	EET SL	10/24/25 08:01
Total/NA	Analysis	903.0		1	746128	SWS	EET SL	11/20/25 16:21
Total/NA	Prep	PrecSep_0			742077	JTR	EET SL	10/24/25 08:08
Total/NA	Analysis	904.0		1	746170	SWS	EET SL	11/20/25 10:04
Total/NA	Analysis	Ra226_Ra228 Pos		1	745619	EMH	EET SL	11/20/25 08:16
Total/NA	Analysis	Field Sampling		1	472322	FQT6	EET CF	10/17/25 14:00

Client Sample ID: MW-309
Lab Sample ID: 310-318444-4
Date Collected: 10/17/25 17:38
Matrix: Water
Date Received: 10/20/25 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			472424	RLT9	EET CF	11/05/25 09:00
Total/NA	Analysis	6020B		1	472771	NFT2	EET CF	11/06/25 15:04
Total/NA	Analysis	SM 2320B		1	471526	HE7K	EET CF	10/27/25 12:50
Total/NA	Analysis	Field Sampling		1	472322	FQT6	EET CF	10/17/25 17:38

Client Sample ID: MW-310
Lab Sample ID: 310-318444-5
Date Collected: 10/17/25 17:14
Matrix: Water
Date Received: 10/20/25 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			472424	RLT9	EET CF	11/05/25 09:00
Total/NA	Analysis	6020B		1	472771	NFT2	EET CF	11/06/25 15:07
Total/NA	Analysis	SM 2320B		1	471526	HE7K	EET CF	10/27/25 12:59
Total/NA	Analysis	Field Sampling		1	472322	FQT6	EET CF	10/17/25 17:14

Client Sample ID: MW-311
Lab Sample ID: 310-318444-6
Date Collected: 10/17/25 16:44
Matrix: Water
Date Received: 10/20/25 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			472424	RLT9	EET CF	11/05/25 09:00
Total/NA	Analysis	6020B		1	472771	NFT2	EET CF	11/06/25 15:10
Total/NA	Analysis	SM 2320B		1	471526	HE7K	EET CF	10/27/25 13:07
Total/NA	Analysis	Field Sampling		1	472322	FQT6	EET CF	10/17/25 16:44

Client Sample ID: Field Blank
Lab Sample ID: 310-318444-7
Date Collected: 10/17/25 18:01
Matrix: Water
Date Received: 10/20/25 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		1	473313	HE7K	EET CF	11/10/25 14:36

Lab Chronicle

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

Client Sample ID: Field Blank
Lab Sample ID: 310-318444-7
Date Collected: 10/17/25 18:01
Matrix: Water
Date Received: 10/20/25 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			472424	RLT9	EET CF	11/05/25 09:00
Total/NA	Analysis	6020B		1	472771	NFT2	EET CF	11/06/25 15:13
Total/NA	Prep	7470A			472800	RLT9	EET CF	11/07/25 13:20
Total/NA	Analysis	7470A		1	473010	RLT9	EET CF	11/10/25 11:32
Total/NA	Analysis	SM 2540C		1	470978	TGN5	EET CF	10/22/25 13:07
Total/NA	Analysis	SM 4500 H+ B		1	470742	ZJX4	EET CF	10/21/25 00:59
Total/NA	Prep	PrecSep-21			742076	JTR	EET SL	10/24/25 08:01
Total/NA	Analysis	903.0		1	746128	SWS	EET SL	11/20/25 16:21
Total/NA	Prep	PrecSep_0			742077	JTR	EET SL	10/24/25 08:08
Total/NA	Analysis	904.0		1	746128	SWS	EET SL	11/20/25 10:07
Total/NA	Analysis	Ra226_Ra228 Pos		1	745619	EMH	EET SL	11/20/25 08:16

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: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

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	07-01-26
Connecticut	State	PH-0241	03-31-27
Florida	NELAP	E87689	06-30-26
HI - RadChem Recognition	State	n/a	06-30-26
Illinois	NELAP	200023	11-30-25
Iowa	State	373	12-01-26
Kansas	NELAP	E-10236	10-31-26
Kentucky (DW)	State	KY90125	12-31-25
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-25
Louisiana (All)	NELAP	106151	06-30-26
Louisiana (DW)	State	LA011	12-31-25
Maryland	State	310	10-01-26
Massachusetts	State	M-MO054	06-30-26
MI - RadChem Recognition	State	9005	06-30-26
Missouri	State	780	06-30-28
Nevada	State	MO00054	07-31-26
New Jersey	NELAP	MO002	06-30-26
New Mexico	State	MO00054	06-30-26
New York	NELAP	11616	03-31-26
North Carolina (DW)	State	29700	06-30-26
North Dakota	State	R-207	06-30-25 *
Oklahoma	NELAP	9997	12-31-25
Oregon	NELAP	4157	09-01-26
Pennsylvania	NELAP	68-00540	02-28-26
South Carolina	State	85002	06-30-26
Texas	NELAP	T104704193	07-31-26
US Fish & Wildlife	US Federal Programs	058448	07-31-26
USDA	US Federal Programs	525-23-138-94730	05-18-26
Utah	NELAP	MO00054	07-31-26
Virginia	NELAP	460230	06-14-26
Washington	State	C592	08-31-26
West Virginia DEP	State	381	11-30-26

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

Method Summary

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

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 2320B	Alkalinity	SM	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 Pos	Combined Radium-226 and Radium-228	TAL-STL	EET SL
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

08/27/2026 - Classification: Internal - ECRM13799659

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:	Lab PM: Sandie Fredrick	Carrier Tracking No(s):	COC No:
Client Contact: Meghan Blodgett	Phone:	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 #: 25225076			
Email: mblodgett@scsengineers.com	WO #:			
Project Name: Sutherland Generating Station 25225076	Project #: 25225076			
Site: Marshalltown, 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, total (Sb, As, Ba, Be, B, Ca, Cd, Cr, Co, Fe, Pb, Li, Mo, Se, Tl)	7470 Mercury, total	6020 Metals, total (Fe and Li)	6020 Metals, total (Ca, Mg, Mn, K, Na)	TDS and pH	Chloride, Fluoride, Sulfate	EPA 903/904 Radium 226 + 228	Bicarbonate & carbonate alkalinity						Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	D	D	I	I	I	D	I							
MW-301			G	W	N		X	X			X	X	X								
MW-302			G	W	N		X	X			X	X	X								
MW-303			G	W	N		X	X			X	X	X								
MW-304			G	W	N		X	X			X	X	X								
MW-305			G	W	N		X	X			X	X	X								
MW-306			G	W	N		X	X			X	X	X								
MW-306A			G	W	N				X	X				X							
MW-307			G	W	N				X												
MW-308			G	W	N				X												
MW-309			G	W	N				X	X				X							
MW-310			G	W	N				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
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

11/24/2025

08/27/2026 - Classification: Internal - ECRM13799659

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:	Lab PM: Sandie Fredrick	Carrier Tracking No(s):	COC No:
Client Contact: Meghan Blodgett	Phone:	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 #: 25225076			
Email: mblodgett@scsengineers.com	WO #:			
Project Name: Sutherland Generating Station 25225076	Project #: 25225076			
Site: Marshalltown, 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, total (Sb, As, Ba, Be, B, Ca, Cd, Cr, Co, Fe, Pb, Li, Mo, Se, Tl)	7470 Mercury, total	6020 Metals, total (Fe and Li)	6020 Metals, total (Ca, Mg, Mn, K, Na)	TDS and pH	Chloride, Fluoride, Sulfate	EPA 903/904 Radium 226 + 228	Bicarbonate & carbonate alkalinity						Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	D	D	I	I	I	D	I							
MW-311			G	W	N				X	X				X							
MW-312			G	W	N		X	X		X	X	X	X	X							
MW-312A			G	W	N				X	X				X							
MW-313			G	W	N				X	X				X							
MW-314			G	W	N				X	X				X							
Field Blank			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
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

11/24/2025

eurofins | Environment Testing America

310-318403 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information						
Client: SCS						
City/State:	CITY Madison		STATE WI	Project		
Receipt Information						
Date/Time Received:	DATE 10-17-2025		TIME 1615	Received By Brady Patterson		
Delivery Type: ☐ UPS	☐ FedEx	☐ FedEx Ground	☐ US Mail	☐ Spee-Dee		
☒ Lab Courier	☐ Lab Field Services	☐ Client Drop-off	☐ Other: _____			
Condition of Cooler/Containers						
Sample(s) received in Cooler?	☒ Yes	☐ No	*If yes:* Cooler ID.			
Multiple Coolers?	☐ Yes	☒ No	*If yes:* Cooler # _____ of _____			
Cooler Custody Seals Present? 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): 0.1			Corrected Temp (°C). 0.1			
• Sample Container Temperature						
Container(s) used.	CONTAINER 1		CONTAINER 2			
Uncorrected Temp (°C):						
Corrected Temp (°C)						
Exceptions Noted						
1) If temperature exceeds criteria, was sample(s) received same day of sampling?				☐ Yes	☐ No	
a) *If yes:* Is there evidence that the chilling process began?				☐ Yes	☐ No	
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e g , bulging septa, broken/cracked bottles, frozen solid?)				☐ Yes	☐ No	
NOTE If yes, contact PM before proceeding If no, proceed with login						
Additional Comments						

08/27/2026 - Classification: Internal - ECRM13799659

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

Chain of Custody Record

EUROFINS
DES MOINES SERVICE CENTER
214

eurofins

Client Information	Sampler	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 310-111022-19293.1
Client Contact: Meghan Blodgett	Phone:	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:	PO #: 25225076			
Email: mblodgett@scsengineers.com	WO #:			
Project Name: Sutherland Generating Station 25225076	Project #: 31011020			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
D - HNO3
N - None
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 904.0	6020B, 7470A	2540C_Calcd, 9056A_ORGFM_28D, SM4600_H+	6020B - Metals (7)	2320B - Alkalinity	2540C_Calcd, SM4600_H+	2320B, 9056A_ORGFM_28D	6020B - Metals (2)	Total Number of containers	Special Instructions/Note:
				Preservation Code:			D	D	N	N	N	N	N	N		
MW-301				Water												
MW-302				Water												
MW-303				Water												
MW-304	10-16	1558		Water												
MW-305	10-16	1520		Water												
MW-306	10 14	1625		Water												
FIELD BLANK				Water												
				Water												
MW-306A	10-[illegible]15	1306		Water												
MW-309				Water												
MW-310				Water												

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

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

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

Special Instructions/QC Requirements.

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

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Garrett Terrell	10-17 902	SCS	Erin Hill	10/17/25 11:30	Eurofins
2				Brady Patterson	10-17-25 1615	Eurofins
3					10/17/25 1615	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

11/24/2025

08/27/2026 - Classification: Internal - ECRM13799659

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

Chain of Custody Record

EUROFINS
DES MOINES SERVICE CENTER
214

eurofins

Client Information	Sampler	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 310-111022-19293 2
Client Contact: Meghan Blodgett	Phone:	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:	PO #: 25225076			
Email: mblodgett@scsengineers.com	WO #:			
Project Name: Sutherland Generating Station 25225076	Project #: 31011020			
Site:	SSOW#:			

Analysis Requested

Preservation Codes.
D - HNO3
N - None
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 904.0	6020B, 7470A	2540C_Calcd, 9056A_ORGFM_28D, SM4500_H+	6020B - Metals (7)	2320B - Alkalinity	2540C_Calcd, SM4600_H+	2320B, 9056A_ORGFM_28D	6020B - Metals (2)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	D	N	N	N	N	N	N		
MW-311				Water												
MW-312A	10-15	1200		Water												
MW-313	10 16	1659		Water												
MW-314	10-16	1735		Water												
				Water												
MW-312	10-15	1500		Water												
MW-307	10-15	1839		Water												
MW-308	10-16	1934		Water												

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

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

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

Special Instructions/QC Requirements

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Garrett Horak	10 17 902	SCS		10/17/25 11:30	Eurofins
Relinquished by:	Date/Time:	Company	Received by: Brady Patterson	Date/Time: 10-17-25 1615	Company Eurofins
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/17/25	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No

Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Page 67 of 78
11/24/2025

eurofins | Environment Testing America

310-318444 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY Madison STATE WI Project:

Receipt Information

Date/Time Received: DATE 10/20/25 TIME 1530 Received By: BP

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 2

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: R Correction Factor (°C): +0

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

Uncorrected Temp (°C): 3.3 Corrected Temp (°C). 3.3

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used.		
Uncorrected Temp (°C).		
Corrected Temp (°C).		

Exceptions Noted

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

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

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

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY Madison | STATE WI | Project:

Receipt Information

Date/Time Received: DATE 10/20/25 | TIME 1530 | Received By: BP

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 2

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: R | 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

08/27/2026 - Classification: Internal - ECRM13799659

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:	Lab PM: Sandie Fredrick	Carrier Tracking No(s):	COC No.
Client Contact: Meghan Blodgett	Phone:	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 #: 25225076			
Email: mblodgett@scsengineers.com	WO #:			
Project Name: Sutherland Generating Station 25225076	Project #: 25225076			
Site: Marshalltown 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 total (Sb, As Ba Be B Ca Cd Cr Co, Fe Pb, Li Mo Se Tl)	7470 Mercury total	6020 Metals total (Fe and Li)	6020 Metals total (Ca Mg Mn K, Na)	TDS and pH	Chloride Fluoride Sulfate	EPA 903/904 Radium 226 + 228	Bicarbonate & carbonate alkalinity						Total Number of containers	Special Instructions/Note
			Preservation Code:				D	D	D	I	I	I	D	I							
MW-301	10-17	1500	G	W	N		X	X			X	X	X								
MW-302	10-17	1546	G	W	N		X	X			X	X	X								
MW-303	10-17	1400	G	W	N		X	X			X	X	X								
~~MW-304~~			~~G~~	~~W~~	~~N~~		~~X~~	~~X~~			~~X~~	~~X~~	~~X~~								
MW-305			G	W	N		X	X			X	X	X								
MW-306			G	W	N		X	X			X	X	X								
~~MW-306A~~			~~G~~	~~W~~	N				X	X				X							
MW-307			G	W	N				X												
MW-308			G	W	N				X												
MW-309	17:38 10-17	~~1049~~	G	W	N				X	X				X							
MW-310	10-17	1714	G	W	N				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
1	Garrett Hauk	10 20 900	SCS	Bradley Patterson	10-20-25 1530	Eurofins
2						
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

11/24/2025

08/27/2026 - Classification: Internal - ECRM13799659

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:	Lab PM: Sandie Fredrick	Carrier Tracking No(s):	COC No
Client Contact: Meghan Blodgett	Phone:	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 #: 25225076
Email: mblodgett@scsengineers.com	WO #:
Project Name: Sutherland Generating Station 25225076	Project #: 25225076
Site: Marshalltown 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 total (Sb, As Ba Be B Ca Cd Cr Co Fe Pb, Li Mo Se Tl)	7470 Mercury total	6020 Metals total (Fe and Li)	6020 Metals total (Ca Mg, Mn K, Na)	TDS and pH	Chloride Fluoride Sulfate	EPA 903/904 Radium 226 + 228	Bicarbonate & carbonate alkalinity	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	D	D	I	I	I	D	I		
MW-311	10-17	1644	G	W	N				X	X				X		
MW-312			G	W	N		X	X		X	X	X	X	X		
MW-312A			G	W	N				X	X				X		
MW-313			G	W	N				X	X				X		
MW-314			G	W	N				X	X				X		
Field Blank			G	W	N		X	X			X	X	X			
EB Blanks	10 17	1801														

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: Garrett Hovis	Date/Time: 10-20 9am	Company: SCS	Received by: Brady Patterson	Date/Time: 10-20-25 / 1530	Company: 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

11/24/2025

08/27/2026 - Classification: Internal - ECRM13799659

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

Chain of Custody Record

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): N/A	COC No: 310-88125.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Iowa	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Iowa		Job #: 310-318403-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 11/3/2025			
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Sutherland Generating Station 25225076	Project #: 31011020			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21Radium-226 (GFPC)	904.0/PrecSep_0Radium-228 (GFPC)	Ra226_228GFPC_PCombined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-304 (310-318403-1)	10/16/25	15:58 Central	G	Water			X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-305 (310-318403-2)	10/16/25	15:20 Central	G	Water			X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-306 (310-318403-3)	10/14/25	16:25 Central	G	Water			X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-312 (310-318403-8)	10/15/25	15:00 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
	10/21/25 1150		M. Pinette	OCT 22 2025 0820	
Relinquished by:	Date/Time:	Company	Received by: Meadow Pinette	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: 10/10/2024

11/24/2025

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-318403-1

Login Number: 318403
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: 310-318403-1

Login Number: 318403
List Number: 2
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 10/22/25 11:36 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	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	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-318403-1

Login Number: 318444
List Number: 1
Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

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

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

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-318403-1

Login Number: 318444
List Number: 2
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 10/22/25 11:36 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	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	

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

Tracer/Carrier Summary

Client: SCS Engineers
Job ID: 310-318403-1
Project/Site: Sutherland Generating Station 25225076

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)
310-318403-1	MW-304	75.2
310-318403-2	MW-305	79.2
310-318403-3	MW-306	77.2
310-318403-8	MW-312	57.3
310-318444-1	MW-301	82.9
310-318444-2	MW-302	70.1
310-318444-3	MW-303	78.6
310-318444-7	Field Blank	78.9
LCS 160-741929/2-A	Lab Control Sample	80.3
LCS 160-742076/2-A	Lab Control Sample	77.5
MB 160-741929/1-A	Method Blank	86.3
MB 160-742076/1-A	Method Blank	80.6

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)
310-318403-1	MW-304	75.2	80.4
310-318403-2	MW-305	79.2	82.6
310-318403-3	MW-306	77.2	78.1
310-318403-8	MW-312	57.3	71.8
310-318444-1	MW-301	82.9	76.6
310-318444-2	MW-302	70.1	77.0
310-318444-3	MW-303	78.6	79.6
310-318444-7	Field Blank	78.9	79.3
LCS 160-741930/2-A	Lab Control Sample	80.3	84.9
LCS 160-742077/2-A	Lab Control Sample	77.5	84.5
MB 160-741930/1-A	Method Blank	86.3	82.6
MB 160-742077/1-A	Method Blank	80.6	83.0

Tracer/Carrier Legend

Ba = Barium
Y = Y Carrier

Groundwater Monitoring Results - Field Parameters
Sutherland Generating Station / SCS Engineers Project #25225076.00
October 2025

Sample	Sample Date	GW Elevation (feet amsl)	Temperature (Deg. C)	pH (Std. Units)	Dissolved Oxygen (mg/L)	Specific Conductivity (µs/cm)	ORP (mV)	Turbidity (NTU)
MW-301	10/17/2025	855.23	20.7	6.60	0.82	585	227.9	6.00
MW-302	10/17/2025	855.19	13.5	7.38	0.17	403	236.1	8.94
MW-303	10/17/2025	852.62	13.7	7.40	0.22	764	178.1	3.27
MW-304	10/16/2025	852.38	15.1	6.90	0.28	850	188.7	2.39
MW-305	10/16/2025	852.19	14.8	7.78	0.25	944	216.9	3.22
MW-306	10/14/2025	852.13	14.2	7.52	0.10	1005	-28.2	2.01
MW-306A	10/15/2025	852.32	13.6	7.41	0.13	849	-94.4	3.99
MW-307	10/15/2025	853.52	14.6	6.44	0.16	1133	105.1	11.99
MW-308	10/16/2025	854.01	14.0	6.94	0.11	880	202.4	2.41
MW-309	10/17/2025	850.30	11.5	7.43	1.06	778	226.1	32.31
MW-310	10/17/2025	850.35	12.7	7.33	0.14	947	216.3	4.11
MW-311	10/17/2025	850.49	16.2	6.82	0.24	862	244.7	5.36
MW-312	10/15/2025	852.58	15.2	7.55	0.12	824	8.6	3.94
MW-312A	10/15/2025	852.57	14.7	7.42	0.12	889	-107.2	3.91
MW-313	10/16/2025	851.98	13.9	7.15	0.14	1004	199.2	10.62
MW-314	10/16/2025	851.59	14.0	7.35	0.29	870	198.7	12.27

Abbreviations:
mg/L = milligrams per liter
Deg C = Degrees Celsius
µs/cm = MicroSiemens per Centimeter
mV = millivolts
amsl = above mean sea level
Std. Units = Standard Units

Created by: RM Date: 4/17/2024
Last revision by: LH Date: 11/3/2025
Checked by: RM Date: 11/4/2025

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Appendix D

Historical Monitoring Results

08/27/2026 - Classification: Internal - ECRM13799659

Single Location
Name: IPL - Sutherland Generating Station

Location ID: MW-301
Number of Sampling Dates: 24

Parameter Name	Units	3/27/2018	5/23/2018	6/26/2018	7/26/2018	9/11/2018	11/28/2018	1/9/2019	2/12/2019	4/2/2019	10/16/2019	12/11/2019	2/3/2020	4/7/2020	10/13/2020	4/6/2021	10/26/2021	4/22/2022	10/12/2022	4/11/2023
Boron	ug/L	246	189	274	212	234	188	82.7	97.3	<110	170	<110	120	<100	370	76	62	<58	71	77
Calcium	mg/L	71.2	85.9	59.5	83.1	89.8	78.8	88.7	84.2	82	82	75	82	78	100	70	81	50	55	69
Chloride	mg/L	15.5	46.2	6	58.6	38.2	37.5	51.4	42.1	39	37	16	28	21	71	85	9	2.4	8.9	18
Field pH	Std. Units	6.84	7.62	7.5	6.46	6.82	6.6	6.83	6.85	7.16	6.97	6.69	6.79	6.87	6.66	6.69	6.21	6.23	6.5	6.59
Fluoride	mg/L	0.15	0.22	0.26	0.27	0.2	0.2	<0.19	<0.19	0.5	0.27	<0.23	--	0.41	<0.23	2.5	<0.28	<0.22	<0.22	<0.38
Sulfate	mg/L	79	78.1	46.9	73.4	71.9	61.9	60.9	63	46	28	29	32	17	98	160	83	33	22	46
Total Dissolved Solids	mg/L	399	489	326	433	439	426	418	420	400	340	360	380	330	540	260	200	150	260	290
Antimony	ug/L	0.13	0.18	0.27	<0.15	0.78	<0.078	0.33	0.2	--	--	<0.53	--	<0.58	--	<1.1	<1.1	<0.69	<0.69	<1
Arsenic	ug/L	0.45	2.4	1.6	1.4	16.2	0.84	0.95	1.6	--	--	<0.75	<0.88	<0.88	<0.88	<0.75	<0.75	<0.75	<0.75	0.77
Barium	ug/L	98	254	137	324	1110	140	135	132	--	--	130	120	240	110	59	130	86	45	56
Beryllium	ug/L	0.014	0.3	<0.12	0.48	1.3	<0.089	0.17	0.16	--	--	<0.27	--	0.33	<0.27	<0.27	<0.27	<0.27	<0.27	<0.33
Cadmium	ug/L	0.037	0.11	<0.07	0.28	0.6	0.053	0.11	0.11	--	--	0.086	0.047	0.17	0.077	<0.051	0.08	<0.055	0.081	0.18
Chromium	ug/L	2.2	3.5	2.6	1.7	20.8	0.5	0.9	2	--	--	<0.98	--	1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
Cobalt	ug/L	0.43	3.8	1.6	3.5	21.7	1.1	0.93	2.6	--	--	0.99	0.75	1.6	0.28	0.18	0.24	0.63	0.25	0.47
Lead	ug/L	0.33	2.5	1.5	1.6	19.1	0.58	0.73	2	--	--	0.46	0.34	0.5	<0.11	<0.21	0.52	0.26	<0.24	0.38
Lithium	ug/L	6.5	<4.6	6.2	11.4	12.6	<4.6	<4.6	7.7	--	--	3.5	2.7	3.4	3.2	2.5	2.8	3	3.3	2.8
Mercury	ug/L	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.037	--	--	<0.1	--	<0.1	--	<0.15	<0.15	<0.11	--	<0.14
Molybdenum	ug/L	4.4	1.4	8.5	0.44	13.6	<0.57	0.99	3.6	--	--	<1.1	<1.1	<1.1	2.5	<1.3	<1.3	<1.2	<1.2	1.9
Selenium	ug/L	2.7	3.3	2.3	5.8	8.3	1.8	1.2	0.81	--	--	<1	--	<1	--	<0.96	2.8	1.3	11	6.8
Thallium	ug/L	<0.036	<0.14	<0.14	<0.14	0.43	<0.099	<0.099	0.11	--	--	<0.27	--	<0.26	--	<0.26	<0.26	<0.26	<0.26	0.97
Total Radium	pCi/L	0.18	0.429	0.637	3.32	2.53	0.875	1.79	1.1	--	--	1.06	0.388	0.291	0.463	0.256	1.07	0.244	0.739	0.00562
Radium-226	pCi/L	-0.171	0	0.342	0.713	1.58	0.51	0.915	0.462	--	--	0.083	0.0951	0.291	0.0851	0.168	0.427	0.136	-0.00272	0.00562
Radium-228	pCi/L	0.18	0.429	0.295	2.61	0.949	0.365	0.876	0.638	--	--	0.973	0.293	-0.02	0.378	0.0882	0.642	0.107	0.739	-0.123
pH at 25 Degrees C	Std. Units	7	6.8	7.4	6.8	6.7	7	6.9	7.2	7.1	7.2	7	7.3	6.8	6.8	7	6.2	6.4	7.1	7
Field Specific Conductance	umhos/cm	645.7	738	518	673	688	459	417	601	618	642	550	651	583.7	906	502	485	282.4	388.3	461.5
Field Temperature	deg C	7.1	10.8	14.6	14.9	19.2	13.61	8.88	5.8	4.89	17.84	12.4	9.54	11	17.8	9.9	14.3	8.9	15.6	8.8
Oxygen, Dissolved	mg/L	0.32	0.57	3.07	0.29	0.24	0.37	0.48	0.37	1.48	0.16	0.34	3.24	0.13	0.11	0.16	1.44	0.98	-0.04	0.38
Collected By		--	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Collected Date		--	--	--	--	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Collected Time		--	--	--	--	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Field Oxidation Potential	millivolts	62.7	185	227	159	117.4	-76.2	74.1	75.8	58.7	34.7	84.1	61.7	143.1	30	180.2	148.3	139.7	172.5	134.1
Groundwater Elevation	ft	855.23	855.45	856.24	855.96	857.41	856.99	856.85	856.59	857.33	856.15	857.05	856.24	856.16	854.44	854.38	852.42	853.87	851.98	854.2
Turbidity	NTU	11.6	73.98	35.03	240.2	410.3	112	172	56.09	65	11.4	51.94	19.1	68.5	19.1	25.1	110	40.7	0	36.2
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	250	220	--	190	--
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<4.6	<4.6	--	<4.6	--
Iron, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	120	170	--	150	340
Magnesium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21000	16000	--	15000	--
Potassium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1700	1600	--	1800	--
Sodium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7900	13000	--	12000	--
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	250	220	--	190	--
Manganese, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2000	1000	--	2400	--
Iron, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<36	--
Magnesium, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16000	--
Manganese, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2200	--

Single Location
Name: IPL - Sutherland Generating Station

Location ID: MW-301
Number of Sampling Dates: 24

Parameter Name	Units	10/18/2023	4/11/2024	10/17/2024	4/2/2025	10/17/2025
Boron	ug/L	<76	<76	160	<82	110
Calcium	mg/L	63	64	41	37	72
Chloride	mg/L	11	13	6.2	3.6	42
Field pH	Std. Units	6.12	6.55	6.6	6.28	6.6
Fluoride	mg/L	<0.38	<0.38	<0.38	<0.38	<0.38
Sulfate	mg/L	28	28	16	11	29
Total Dissolved Solids	mg/L	270	270	220	130	310
Antimony	ug/L	<1	<1	<1	<1	<1
Arsenic	ug/L	<0.53	<0.53	<0.53	<0.53	<0.53
Barium	ug/L	43	58	36	22	38
Beryllium	ug/L	<0.33	<0.33	<0.33	<0.33	<0.33
Cadmium	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	ug/L	<1.1	<1.2	<1.2	<1.8	<1.8
Cobalt	ug/L	0.24	<0.17	0.2	<0.17	<0.17
Lead	ug/L	<0.24	<0.26	<0.26	0.53	<0.33
Lithium	ug/L	3.1	3.7	3.3	4.5	4.6
Mercury	ug/L	<0.14	<0.11	<0.11	<0.11	<0.11
Molybdenum	ug/L	<0.91	<1.3	<1.3	<1.3	1.3
Selenium	ug/L	3.8	2.2	1.6	1.5	<1.4
Thallium	ug/L	<0.26	<0.57	<0.57	<0.57	<0.57
Total Radium	pCi/L	0.957	--	1.15	0.474	0.867
Radium-226	pCi/L	0.044	--	0.114	0.0679	0.514
Radium-228	pCi/L	0.913	--	1.04	0.407	0.353
pH at 25 Degrees C	Std. Units	6.7	7	7.2	6.9	6.8
Field Specific Conductance	umhos/cm	498.5	475.8	521	272.5	585
Field Temperature	deg C	17.5	13.2	18	10.8	20.7
Oxygen, Dissolved	mg/L	1.52	2.52	1.99	1.6	0.82
Collected By		--	--	--	--	--
Collected Date		--	--	--	--	--
Collected Time		--	--	--	--	--
Field Oxidation Potential	millivolts	128.6	116.2	145.4	441.8 mV	227.9
Groundwater Elevation	ft	851.34	851.89	852.94	853.28	855.23
Turbidity	NTU	17.97	33.51	19.88	19.47	6
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--
Iron, total	ug/L	220	92	140	52	67
Magnesium, total	ug/L	--	--	--	--	--
Potassium, total	ug/L	--	--	--	--	--
Sodium, total	ug/L	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--
Manganese, total	ug/L	--	--	--	--	--
Iron, dissolved	ug/L	--	--	--	--	--
Magnesium, dissolved	ug/L	--	--	--	--	--
Manganese, dissolved	ug/L	--	--	--	--	--

Single Location
Name: IPL - Sutherland Generating Station

Location ID: MW-302
Number of Sampling Dates: 24

Parameter Name	Units	3/27/2018	5/23/2018	6/26/2018	7/26/2018	9/11/2018	11/28/2018	1/9/2019	2/12/2019	4/2/2019	10/16/2019	12/12/2019	2/3/2020	4/7/2020	10/13/2020	4/6/2021	10/26/2021	4/22/2022	10/10/2022	4/10/2023
Boron	ug/L	58.4	53.7	65.3	53.8	22.4	36.6	36.7	31.5	<110	<110	<110	<100	<100	<80	67	<58	71	<58	<76
Calcium	mg/L	67.4	67.3	69.9	80.3	77.9	65	65.4	61.7	63	57	58	56	71	71	80	95	77	68	87
Chloride	mg/L	14	9.4	12.4	10.7	10.1	5.5	4.5	5.3	5.6	5.5	4.7	3.8	5.2	5.6	85	7.2	17	5.8	22
Field pH	Std. Units	7.2	7.31	7.3	6.99	7.3	7.2	7.34	7.21	7.5	7.22	6.98	7.31	7.36	7.43	6.96	7.3	7.11	7.17	7.03
Fluoride	mg/L	0.24	0.24	0.21	0.24	0.24	0.22	0.2	0.21	0.6	0.28	<0.23	--	0.55	0.3	2.5	<0.28	<0.22	<0.22	<0.38
Sulfate	mg/L	68.5	41.3	56	58.7	52.5	25.5	21.9	21.2	20	19	14	17	14	12	180	43	91	16	110
Total Dissolved Solids	mg/L	309	322	352	360	356	272	255	256	270	200	240	250	250	260	300	270	320	270	380
Antimony	ug/L	0.41	2.8	0.68	0.29	0.31	0.26	0.59	0.22	--	--	<0.53	--	<0.58	--	<1.1	<1.1	0.69	<0.69	<1
Arsenic	ug/L	1.4	5.8	8.5	10.2	8.5	5.9	10.8	2.8	--	--	6.1	19	5.3	4.6	3	7.4	21	4.5	3.9
Barium	ug/L	93.6	105	124	132	117	112	108	83.7	--	--	81	100	97	100	130	140	170	88	110
Beryllium	ug/L	<0.012	<0.12	0.19	<0.12	<0.12	<0.089	<0.089	<0.089	--	--	<0.27	--	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.33
Cadmium	ug/L	0.028	<0.07	<0.07	<0.07	<0.07	<0.033	0.054	<0.033	--	--	<0.039	<0.039	<0.039	<0.049	<0.051	<0.051	<0.055	<0.055	0.11
Chromium	ug/L	0.35	<0.19	0.26	0.25	0.26	0.22	0.45	0.14	--	--	<0.98	--	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
Cobalt	ug/L	1.8	3.5	5.7	3.4	4.2	8.4	5	6.2	--	--	1.3	3.7	1.7	0.77	4.7	1.6	6.3	1.8	1.5
Lead	ug/L	0.19	<0.12	<0.12	0.15	<0.12	0.34	0.17	<0.13	--	--	<0.27	<0.27	<0.27	<0.11	<0.21	0.31	<0.24	<0.24	<0.24
Lithium	ug/L	5.2	<4.6	<4.6	7.8	<4.6	<4.6	<4.6	7.5	--	--	2.8	<2.3	<2.3	2.8	2.8	2.9	2.5	2.8	2.8
Mercury	ug/L	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.037	--	--	<0.1	--	<0.1	--	<0.15	<0.15	<0.11	--	<0.14
Molybdenum	ug/L	1.2	1.2	0.68	1	1.2	<0.57	1.3	0.76	--	--	<1.1	<1.1	<1.1	<1.1	<1.3	<1.3	<1.2	<1.2	0.91
Selenium	ug/L	8	1	3.9	0.56	0.58	0.73	0.88	0.67	--	--	<1	--	<1	--	2.5	1.3	22	<0.96	12
Thallium	ug/L	<0.036	<0.14	<0.14	<0.14	<0.14	<0.099	<0.099	<0.099	--	--	<0.27	--	<0.26	--	<0.26	<0.26	<0.26	<0.26	1.3
Total Radium	pCi/L	0.304	0.926	0.68	0.856	1.59	1.47	1.96	0.943	--	--	0.828	0.808	0.547	0.58	0.6	0.614	0.663	1.14	0.548
Radium-226	pCi/L	0	0.392	-0.084	0.341	0.758	1.03	0.926	0.196	--	--	0.294	0.299	0.171	0.214	0.294	0.331	0.124	0.194	0.0634
Radium-228	pCi/L	0.304	0.534	0.68	0.515	0.829	0.436	1.03	0.747	--	--	0.534	0.509	0.376	0.365	0.306	0.283	0.539	0.945	0.485
pH at 25 Degrees C	Std. Units	7.4	7.5	7.5	7.1	6.9	7.6	7.3	7.4	7.5	7.6	7.5	7.5	7.3	7.4	7.2	7.2	7.1	7.6	7.3
Field Specific Conductance	umhos/cm	546.5	527	603	623	593	319	302	393.6	437	431	394	464	456.2	463.6	581	624	538.8	472.6	571.1
Field Temperature	deg C	7.4	9.9	11.8	12.4	13.9	11.96	10.73	9.7	9.53	12.8	11	9.42	11.3	13.2	9.3	13.2	8.2	13.2	8.9
Oxygen, Dissolved	mg/L	2.39	0.1	0.3	0.16	0.26	0.21	0.17	0.13	0.79	0.24	0.46	0.95	0.14	0.11	0.49	1.34	3.76	-0.1	1.99
Collected By		--	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Collected Date		--	--	--	--	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Collected Time		--	--	--	--	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Field Oxidation Potential	millivolts	79.3	-89	-51	-102	-58.3	-98	5.8	-42.7	10	-32.9	-45.9	5.6	-80.4	-103.6	161.9	146.4	123.3	2.6	59.7
Groundwater Elevation	ft	855.97	855.32	856.55	855.75	857.06	856.74	856.82	856.43	857.12	855.3	856.11	856.59	856.23	854.38	854.85	852.68	855.04	851.94	854.63
Turbidity	NTU	5.9	17.12	2.85	10.83	3.03	31.7	22.5	4.7	12.9	4.9	5.12	2.87	6.32	3.7	2.69	23.2	16.3	83.99	5.39
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	280	400	--	380	--
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<4.6	<4.6	--	<4.6	--
Iron, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	210	1000	--	650	370
Magnesium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25000	26000	--	20000	--
Potassium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	320	440	--	330	--
Sodium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12000	9200	--	4300	--
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	280	400	--	380	--
Manganese, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	590	1000	--	970	--
Iron, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	270	--
Magnesium, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	23000	--
Manganese, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	910	--

Single Location
Name: IPL - Sutherland Generating Station

Location ID: MW-302
Number of Sampling Dates: 24

Parameter Name	Units	10/18/2023	4/11/2024	10/17/2024	4/4/2025	10/17/2025
Boron	ug/L	<76	<76	<76	<82	<82
Calcium	mg/L	71	79	70	66	53
Chloride	mg/L	6.1	7.3	10	5.2	3.7
Field pH	Std. Units	7.03	7.07	7.13	7.2	7.38
Fluoride	mg/L	<0.38	<0.38	<0.38	<0.38	<0.38
Sulfate	mg/L	18	23	18	30	20
Total Dissolved Solids	mg/L	270	320	260	290	220
Antimony	ug/L	<1	<1	<1	1.1	1.2
Arsenic	ug/L	3.8	6.2	6.2	3.8	3.4
Barium	ug/L	96	120	110	100	81
Beryllium	ug/L	<0.33	<0.33	<0.33	<0.33	<0.33
Cadmium	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	ug/L	<1.1	<1.2	<1.2	<1.8	<1.8
Cobalt	ug/L	1.8	4.8	1.4	1.8	1.1
Lead	ug/L	<0.24	<0.26	<0.26	0.48	<0.33
Lithium	ug/L	2.8	4.3	3	3.5	3.4
Mercury	ug/L	<0.14	<0.11	<0.11	<0.11	<0.11
Molybdenum	ug/L	<0.91	<1.3	<1.3	<1.3	<1.3
Selenium	ug/L	<1.4	<1.4	<1.4	<1.4	<1.4
Thallium	ug/L	<0.26	<0.57	<0.57	0.6	<0.57
Total Radium	pCi/L	0.788	0.722	0.994	6.73	0.501
Radium-226	pCi/L	0.0592	0.215	0.535	1.74	0.2
Radium-228	pCi/L	0.729	<0.654	0.46	4.99	0.301
pH at 25 Degrees C	Std. Units	7.1	7.4	7.7	7.9	7.5
Field Specific Conductance	umhos/cm	525	534	642	521	403
Field Temperature	deg C	14.4	10.7	14.9	8.4	13.5
Oxygen, Dissolved	mg/L	0.65	0.25	0.33	0.01	0.17
Collected By		--	--	--	--	--
Collected Date		--	--	--	--	--
Collected Time		--	--	--	--	--
Field Oxidation Potential	millivolts	10.7	-13.1	67.6	370.7 mV	236.1
Groundwater Elevation	ft	851.44	852.19	853.15	853.85	855.19
Turbidity	NTU	8.67	19.65	27.64	6.29	8.94
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--
Iron, total	ug/L	410	860	690	400	320
Magnesium, total	ug/L	--	--	--	--	--
Potassium, total	ug/L	--	--	--	--	--
Sodium, total	ug/L	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--
Manganese, total	ug/L	--	--	--	--	--
Iron, dissolved	ug/L	--	--	--	--	--
Magnesium, dissolved	ug/L	--	--	--	--	--
Manganese, dissolved	ug/L	--	--	--	--	--

Single Location
Name: IPL - Sutherland Generating Station

Location ID: MW-303
Number of Sampling Dates: 24

Parameter Name	Units	3/27/2018	5/23/2018	6/26/2018	7/26/2018	9/11/2018	11/28/2018	1/9/2019	2/12/2019	4/2/2019	10/16/2019	12/12/2019	2/3/2020	4/7/2020	10/13/2020	4/6/2021	10/26/2021	4/22/2022	10/10/2022	4/10/2023
Boron	ug/L	619	799	989	852	597	696	609	737	730	740	570	440	530	710	360	400	130	410	240
Calcium	mg/L	265	116	106	113	109	134	206	160	140	120	130	160	110	120	80	87	28	79	79
Chloride	mg/L	22.8	25.5	24	29.6	32.9	29.2	25.8	28	28	12	15	12	11	14	81	3.8	<2.3	12	4.6
Field pH	Std. Units	7.19	8.92	7.89	7.33	7.82	7.2	6.96	7.02	7.29	6.97	6.82	6.84	7.17	7.12	7.04	6.84	7.3	7.44	7.1
Fluoride	mg/L	0.49	0.54	0.46	0.56	0.51	0.56	0.41	0.5	0.85	0.55	<0.23	--	0.68	0.44	2.7	<0.28	<0.22	<0.22	0.39
Sulfate	mg/L	745	208	185	474	195	348	482	377	330	310	270	350	210	190	250	160	33	55	150
Total Dissolved Solids	mg/L	1360	658	658	597	628	797	1080	852	800	660	740	830	570	610	340	300	100	350	430
Antimony	ug/L	0.072	<0.15	<0.15	<0.15	0.18	<0.078	0.16	0.1	--	--	<0.53	--	<0.58	--	<1.1	<1.1	<0.69	<0.69	<1
Arsenic	ug/L	0.11	1.3	2.5	2	2.2	1.3	0.91	1.1	--	--	0.82	<0.88	<0.88	1.6	0.96	4.8	1.9	2.5	0.58
Barium	ug/L	66.9	31.7	32.6	37.4	33.9	48.4	63.4	57.7	--	--	47	55	41	65	39	91	36	48	46
Beryllium	ug/L	<0.012	<0.12	0.83	<0.12	<0.12	<0.089	<0.089	<0.089	--	--	<0.27	--	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.33
Cadmium	ug/L	0.14	<0.07	0.073	<0.07	0.093	<0.033	0.084	0.037	--	--	<0.039	<0.039	0.2	<0.049	0.086	0.16	0.29	0.062	<0.1
Chromium	ug/L	0.086	<0.19	0.23	<0.19	0.29	<0.078	0.36	0.62	--	--	<0.98	--	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
Cobalt	ug/L	0.54	0.42	0.48	0.65	0.58	0.89	1.2	1.4	--	--	0.95	1.3	0.53	1	0.31	0.66	1.4	1.1	0.21
Lead	ug/L	0.1	<0.12	0.13	<0.12	0.22	<0.13	0.32	0.35	--	--	<0.27	<0.27	0.31	<0.11	<0.21	0.5	0.73	0.34	<0.24
Lithium	ug/L	38.4	35.9	37.9	37.3	35.3	30.7	28.2	36.5	--	--	27	22	23	26	17	20	7.8	19	16
Mercury	ug/L	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.037	--	--	<0.1	--	<0.1	--	<0.15	<0.15	<0.11	--	<0.14
Molybdenum	ug/L	12.9	32.7	22.6	30.8	26.3	32.6	18.4	20.9	--	--	19	11	23	22	11	5.9	2.4	5.3	4.7
Selenium	ug/L	1.6	<0.16	0.61	<0.16	0.18	<0.085	0.18	0.097	--	--	<1	--	<1	--	<0.96	26	1.4	<0.96	9
Thallium	ug/L	<0.036	<0.14	<0.14	<0.14	<0.14	<0.099	<0.099	<0.099	--	--	<0.27	--	<0.26	--	<0.26	<0.26	<0.26	<0.26	<0.26
Total Radium	pCi/L	0.618	0.699	0.941	0.744	0.317	0.921	1.25	1.19	--	--	0.931	0.159	1.18	0.531	0.268	0.666	2.04	0.623	0
Radium-226	pCi/L	0.0803	0.115	0.381	0.316	0.0751	0.389	0.459	0.12	--	--	0.078	0.0473	0.0691	0.19	0.094	0.194	0.574	0.0805	-0.0324
Radium-228	pCi/L	0.538	0.584	0.56	0.428	0.242	0.532	0.788	1.07	--	--	0.852	0.111	1.11	0.342	0.174	0.472	1.47	0.543	-0.0206
pH at 25 Degrees C	Std. Units	7.1	7.7	8.1	7.7	7.7	6.8	7	7.2	7.3	7.2	7.2	7.2	7.1	7.3	7.3	7.2	7.3	7.8	7.4
Field Specific Conductance	umhos/cm	1806	923	921	914	921	710	835	1087	1077	1037	1004	1173	814	888	601	576.6	240.8	546	560
Field Temperature	deg C	7.2	11.9	13.1	13.8	16	11.38	8.11	8.9	10.57	15.23	10.4	7.99	11.3	14.4	8	13.5	7	15.7	7.7
Oxygen, Dissolved	mg/L	0.39	0.05	0.24	0.21	0.24	0.28	0.61	0.11	0.78	0.24	1.02	1.89	0.13	0.2	0.15	2.57	3.23	0.01	-0.08
Collected By		--	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Collected Date		--	--	--	--	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Collected Time		--	--	--	--	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Field Oxidation Potential	millivolts	81.4	24	74	15	106.5	12.9	66.1	39.2	61	35	52.8	60.1	124.3	-74.2	68.5	167.1	83.7	-8.5	193.1
Groundwater Elevation	ft	854.35	854.07	854.97	854.14	855.96	855.01	855.11	854.58	855.6	854.9	854.47	854.57	854.63	851.7	853.21	850.54	852.35	849.96	853.34
Turbidity	NTU	3.27	3.19	3.04	0.51	1.77	1.16	14.6	5.96	2.44	3.16	15.07	5.25	3.58	2.38	3.55	110	34.7	0	0.02
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	240	230	--	280	--
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<4.6	<4.6	--	<4.6	--
Iron, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	420	2900	--	410	84
Magnesium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	23000	21000	--	20000	--
Potassium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3300	3900	--	4700	--
Sodium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19000	18000	--	19000	--
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	240	230	--	280	--
Manganese, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	930	700	--	1500	--
Iron, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	62	--
Magnesium, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20000	--
Manganese, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1200	--

Single Location
Name: IPL - Sutherland Generating Station

Location ID: MW-303
Number of Sampling Dates: 24

Parameter Name	Units	10/20/2023	4/11/2024	10/17/2024	4/3/2025	10/17/2025
Boron	ug/L	360	340	450	300	470
Calcium	mg/L	93	94	100	89	100
Chloride	mg/L	11	3.4	20	2.4	19
Field pH	Std. Units	7.28	7.05	7.27	6.95	7.4
Fluoride	mg/L	<0.38	<0.38	0.63	0.41	0.41
Sulfate	mg/L	89	180	110	170	150
Total Dissolved Solids	mg/L	410	460	460	450	490
Antimony	ug/L	<1	<1	<1	1.5	1.5
Arsenic	ug/L	2	0.64	1.8	40	2.1
Barium	ug/L	53	67	61	320	59
Beryllium	ug/L	<0.33	<0.33	<0.33	<0.33	<0.33
Cadmium	ug/L	<0.1	<0.1	<0.1	1.9	<0.1
Chromium	ug/L	<1.1	<1.2	<1.2	<1.8	<1.8
Cobalt	ug/L	0.69	<0.17	0.59	27	0.64
Lead	ug/L	<0.24	<0.26	<0.26	2.3	<0.33
Lithium	ug/L	21	20	21	21	23
Mercury	ug/L	<0.14	<0.11	<0.11	<0.11	<0.11
Molybdenum	ug/L	16	<1.3	15	16	18
Selenium	ug/L	<1.4	42	<1.4	3.7	<1.4
Thallium	ug/L	<0.26	<0.57	<0.57	<0.57	<0.57
Total Radium	pCi/L	0.393	<0.702	1.88	2.16	0.895
Radium-226	pCi/L	0.0255	0.291	0.727	0.649	0.391
Radium-228	pCi/L	0.368	<0.702	1.15	1.51	0.503
pH at 25 Degrees C	Std. Units	7.6	7.4	7.6	7.7	7.6
Field Specific Conductance	umhos/cm	741	714	996	418.6	764
Field Temperature	deg C	15	11.6	14.2	8.4	13.7
Oxygen, Dissolved	mg/L	1.22	3.64	0.58	0.01	0.22
Collected By		--	--	--	--	--
Collected Date		--	--	--	--	--
Collected Time		--	--	--	--	--
Field Oxidation Potential	millivolts	8.9	91.8	35.5	418.6 mV	178.1
Groundwater Elevation	ft	849.47	850.73	850.96	852.44	852.62
Turbidity	NTU	5.33	10.1	4.43	18.65	3.27
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--
Iron, total	ug/L	150	40	370	49000	360
Magnesium, total	ug/L	--	--	--	--	--
Potassium, total	ug/L	--	--	--	--	--
Sodium, total	ug/L	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--
Manganese, total	ug/L	--	--	--	--	--
Iron, dissolved	ug/L	--	--	--	--	--
Magnesium, dissolved	ug/L	--	--	--	--	--
Manganese, dissolved	ug/L	--	--	--	--	--

Single Location
Name: IPL - Sutherland Generating Station

Location ID: MW-304
Number of Sampling Dates: 24

Parameter Name	Units	3/26/2018	5/23/2018	6/26/2018	7/26/2018	9/11/2018	11/28/2018	1/9/2019	2/12/2019	4/2/2019	10/16/2019	12/12/2019	2/3/2020	4/7/2020	10/13/2020	4/6/2021	10/26/2021	4/21/2022	10/11/2022	4/11/2023
Boron	ug/L	575	604	736	795	715	751	665	649	590	840	660	560	580	830	570	480	630	470	440
Calcium	mg/L	155	145	121	138	151	149	164	174	180	170	150	150	150	150	130	110	130	110	120
Chloride	mg/L	30.8	35.1	32.1	31.2	29.7	27.4	24.6	28.3	29	23	17	21	15	11	80	15	3.7	12	7
Field pH	Std. Units	7.08	7.64	7.24	7.6	7.04	6.6	6.71	6.27	6.85	6.72	6.47	6.71	6.68	6.64	6.61	7.04	6.77	6.64	6.72
Fluoride	mg/L	0.33	0.46	0.62	0.56	0.55	0.31	0.22	0.26	0.67	0.6	<0.23	--	0.49	<0.23	2.5	<0.28	<0.22	0.26	<0.38
Sulfate	mg/L	371	366	339	363	405	375	372	442	450	400	360	360	350	330	430	170	310	160	310
Total Dissolved Solids	mg/L	820	785	782	791	860	853	841	902	910	840	840	800	750	800	600	450	580	530	620
Antimony	ug/L	0.041	<0.15	<0.15	<0.15	0.28	<0.078	0.13	0.11	--	--	<0.53	--	<0.58	--	<1.1	<1.1	<0.69	<0.69	<1
Arsenic	ug/L	<0.052	0.23	0.37	0.39	0.64	0.46	0.45	0.26	--	--	<0.75	<0.88	<0.88	<0.88	<0.75	<0.75	<0.75	<0.75	<0.53
Barium	ug/L	21.3	18.7	24.3	24.5	24.1	29	24.6	23	--	--	28	24	22	21	16	23	21	26	25
Beryllium	ug/L	<0.012	<0.12	0.69	<0.12	0.19	<0.089	<0.089	<0.089	--	--	<0.27	--	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.33
Cadmium	ug/L	0.08	0.14	0.19	0.1	0.3	0.085	0.12	0.078	--	--	<0.039	0.36	0.079	0.075	0.15	0.24	0.073	0.068	<0.1
Chromium	ug/L	0.28	<0.19	0.6	<0.19	0.36	0.11	0.44	0.24	--	--	<0.98	--	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
Cobalt	ug/L	0.093	<0.15	0.22	<0.15	0.35	0.45	0.27	0.23	--	--	0.41	0.19	0.28	0.11	<0.091	0.3	<0.19	<0.19	<0.17
Lead	ug/L	0.094	<0.12	0.35	<0.12	0.32	0.17	0.2	<0.13	--	--	<0.27	<0.27	<0.27	<0.11	<0.21	0.75	<0.24	<0.24	<0.24
Lithium	ug/L	10.1	6.9	15.6	11	10.9	<4.6	<4.6	5.7	--	--	2.9	<2.3	<2.3	2.8	<2.5	6.8	<2.5	6.8	<2.5
Mercury	ug/L	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.037	--	--	<0.1	--	<0.1	--	<0.15	<0.15	<0.11	--	<0.14
Molybdenum	ug/L	1.6	2	17.2	7.8	6.6	1.2	1	0.82	--	--	1.3	1.5	<1.1	1.4	<1.3	<1.3	<1.2	2.5	<0.91
Selenium	ug/L	0.18	<0.16	0.5	<0.16	0.32	<0.085	0.21	0.12	--	--	<1	--	<1	--	1.1	<0.96	<0.96	<0.96	3.3
Thallium	ug/L	<0.036	<0.14	<0.14	<0.14	0.26	<0.099	<0.099	<0.099	--	--	<0.27	--	<0.26	--	<0.26	<0.26	<0.26	<0.26	<0.26
Total Radium	pCi/L	0.48	0.523	0.466	0.556	0.201	1.56	1.17	0.404	--	--	0.373	0.0516	0.494	0.606	0.0369	0.721	0.35	0.772	0.462
Radium-226	pCi/L	0	0.174	0.0806	0.165	0.125	0.57	0.461	0.225	--	--	0.0285	0.043	0.0606	0.0947	0.0369	0.281	0.0884	0.0641	0.0319
Radium-228	pCi/L	0.48	0.349	0.385	0.391	0.0761	0.993	0.706	0.179	--	--	0.344	0.00857	0.433	0.511	-0.0801	0.44	0.261	0.708	0.43
pH at 25 Degrees C	Std. Units	7.1	7.2	7.5	7.1	6.9	7.7	6.7	6.8	6.8	7.1	6.7	7	6.7	6.8	6.8	7.1	7	7.3	7.1
Field Specific Conductance	umhos/cm	1166	1084	1076	1131	1175	731	690	1057	1170	1158	1083	1149	1016	1033	957	831	874	732	816
Field Temperature	deg C	8.5	10.5	11.2	14	16.3	11.28	8.65	8.2	7.59	14.12	10.5	8.09	10.4	14.5	8.4	13.8	7.2	13	6.7
Oxygen, Dissolved	mg/L	0.47	0.1	0.17	0.15	0.08	0.37	0.43	0.14	1.35	0.87	0.37	1.87	0.28	6.2	5.83	1.58	0.77	0	2.62
Collected By		--	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Collected Date		--	--	--	--	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Collected Time		--	--	--	--	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Field Oxidation Potential	millivolts	114.3	107	121	98	53.4	-39.3	76	59.5	57.1	39.1	75.1	62.5	95.1	39.1	182.1	152.1	98.9	218.8	195.7
Groundwater Elevation	ft	853.79	853.92	854.64	853.86	855.66	854.79	854.93	854.41	855.47	854.78	854.29	854.35	854.54	851.3	853.15	850.13	851.97	849.7	853.27
Turbidity	NTU	6.71	0.6	3.68	3.62	1.35	22.7	15.5	6.27	1.18	1.58	0.19	1.59	2.12	1.68	0.79	19.8	4.72	0	0.02
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	230	350	--	290	--
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<4.6	<4.6	--	<4.6	--
Iron, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<36	71	--	61	<36
Magnesium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	34000	29000	--	29000	--
Potassium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<150	600	--	620	--
Sodium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38000	33000	--	33000	--
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	230	350	--	290	--
Manganese, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	180	270	--	66	--
Iron, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<36	--
Magnesium, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	29000	--
Manganese, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14	--

Single Location
Name: IPL - Sutherland Generating Station

Location ID: MW-304
Number of Sampling Dates: 24

Parameter Name	Units	10/20/2023	4/9/2024	10/17/2024	4/2/2025	10/16/2025
Boron	ug/L	430	440	760	500	830
Calcium	mg/L	90	100	140	110	110
Chloride	mg/L	8.7	8.8	10	9.8	11
Field pH	Std. Units	7.19	7.05	6.71	6.64	6.9
Fluoride	mg/L	0.4	<0.38	<0.38	0.4	1.5
Sulfate	mg/L	150	180	320	330	230
Total Dissolved Solids	mg/L	460	510	720	640	540
Antimony	ug/L	<1	<1	<1	<1	1.3
Arsenic	ug/L	<0.53	<0.53	<0.53	<0.53	0.53
Barium	ug/L	22	29	29	22	21
Beryllium	ug/L	<0.33	<0.33	<0.33	<0.33	<0.33
Cadmium	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	ug/L	<1.1	<1.2	<1.2	<1.8	<1.8
Cobalt	ug/L	<0.17	<0.17	<0.17	<0.17	<0.17
Lead	ug/L	<0.24	<0.26	<0.26	0.43	<0.33
Lithium	ug/L	6.3	7.8	2.8	<2.9	3.5
Mercury	ug/L	<0.14	<0.11	<0.11	<0.11	<0.11
Molybdenum	ug/L	3.8	5.8	<1.3	<1.3	1.3
Selenium	ug/L	<1.4	<1.4	<1.4	<1.4	<1.4
Thallium	ug/L	<0.26	<0.57	<0.57	<0.57	<0.57
Total Radium	pCi/L	0.975	0.813	0.132	0.518	0.566
Radium-226	pCi/L	0.0592	0.127	-0.0359	0.00451	0.015
Radium-228	pCi/L	0.915	0.686	0.132	0.514	0.551
pH at 25 Degrees C	Std. Units	7.4	7.3	7.5	7.1	6.9
Field Specific Conductance	umhos/cm	775	770	1361	961	850
Field Temperature	deg C	12.2	13.1	14.2	12.3	15.1
Oxygen, Dissolved	mg/L	0.99	1.49	0.46	2.51	0.28
Collected By		--	--	--	--	--
Collected Date		--	--	--	--	--
Collected Time		--	--	--	--	--
Field Oxidation Potential	millivolts	107.6	65.5	137.3	453.3 mV	188.7
Groundwater Elevation	ft	849.24	850.53	850.68	852.19	852.38
Turbidity	NTU	5.09	4.4	3.82	3.11	2.39
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--
Iron, total	ug/L	<36	<36	<36	68	<50
Magnesium, total	ug/L	--	--	--	--	--
Potassium, total	ug/L	--	--	--	--	--
Sodium, total	ug/L	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--
Manganese, total	ug/L	--	--	--	--	--
Iron, dissolved	ug/L	--	--	--	--	--
Magnesium, dissolved	ug/L	--	--	--	--	--
Manganese, dissolved	ug/L	--	--	--	--	--

Single Location
Name: IPL - Sutherland Generating Station

Location ID: MW-305
Number of Sampling Dates: 26

Parameter Name	Units	3/26/2018	5/23/2018	6/26/2018	7/26/2018	9/11/2018	11/28/2018	1/9/2019	2/12/2019	4/2/2019	10/16/2019	12/12/2019	2/3/2020	4/7/2020	5/11/2020	10/13/2020	4/6/2021	10/26/2021	4/21/2022	10/11/2022	4/11/2023	10/20/2023
Boron	ug/L	815	741	1110	1200	992	920	847	809	660	1100	760	930	850	--	1400	1400	1800	1100	1100	910	1100
Calcium	mg/L	173	124	96.4	108	124	152	166	139	160	140	160	140	170	--	140	150	110	140	110	150	100
Chloride	mg/L	21.9	31.5	29.5	26.9	25.3	17.4	17.5	19.9	15	23	15	17	12	--	17	91	24	20	27	21	36
Field pH	Std. Units	6.99	7.93	7.61	7.22	7.1	6.63	6.71	6.82	6.9	6.94	6.52	6.61	6.7	5.97	7.33	6.68	7.58	6.99	7.58	6.93	7.48
Fluoride	mg/L	0.54	0.63	0.64	0.74	0.72	0.53	0.44	0.6	1.4	0.77	<0.23	--	0.69	--	0.46	2.7	<0.28	<0.22	0.36	<0.38	0.45
Sulfate	mg/L	495	365	317	315	407	445	482	387	490	410	450	440	450	--	410	470	240	280	200	390	200
Total Dissolved Solids	mg/L	893	742	667	647	734	935	965	777	990	790	960	850	900	--	790	800	500	590	540	840	530
Antimony	ug/L	0.075	<0.15	<0.15	<0.15	<0.15	0.27	0.13	0.092	--	--	<0.53	--	<0.58	--	--	<1.1	<1.1	<0.69	<0.69	<1	<1
Arsenic	ug/L	5.9	8.6	6.9	8.6	9.1	65.9	12.9	6.9	--	--	7.6	6.3	8.8	--	11	6.4	7.4	7.1	8.4	5.8	10
Barium	ug/L	34.8	32.2	36.1	35.7	42.2	167	49	27.9	--	--	45	32	41	--	52	32	47	35	41	39	41
Beryllium	ug/L	0.012	<0.12	0.78	<0.12	<0.12	0.1	<0.089	<0.089	--	--	<0.27	--	<0.27	--	<0.27	<0.27	<0.27	<0.27	<0.27	<0.33	<0.33
Cadmium	ug/L	0.071	<0.07	<0.07	<0.07	<0.07	0.1	0.07	0.043	--	--	<0.039	<0.039	<0.039	--	<0.049	0.052	<0.051	0.061	<0.055	0.1	<0.1
Chromium	ug/L	0.69	0.62	0.45	<0.19	1.3	0.25	0.32	0.52	--	--	<0.98	--	<1.1	--	<1.1	<1.1	<1.1	2.8	<1.1	<1.1	<1.1
Cobalt	ug/L	2.7	1.4	0.74	0.83	1.6	2.8	2.2	2	--	--	1.5	1.6	2.1	--	0.6	1.7	0.63	1.4	0.62	1.1	0.69
Lead	ug/L	0.39	0.43	0.19	0.16	0.76	0.58	0.17	0.35	--	--	0.38	<0.27	0.48	--	<0.11	<0.21	<0.21	<0.24	<0.24	<0.24	<0.24
Lithium	ug/L	21.3	14.2	21.8	17.8	16.2	16.9	8.3	18.6	--	--	16	10	12	--	22	29	35	32	37	22	36
Mercury	ug/L	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.037	--	--	<0.1	--	<0.1	--	--	<0.15	<0.15	<0.11	--	<0.14	<0.14
Molybdenum	ug/L	25.8	32.5	29.3	38	35.3	21.5	23.8	27.3	--	--	24	18	20	--	36	41	55	42	48	27	48
Selenium	ug/L	0.34	0.3	0.59	<0.16	1.1	0.44	0.24	0.31	--	--	<1	--	<1	--	--	<0.96	<0.96	<0.96	<0.96	<1.4	<1.4
Thallium	ug/L	<0.036	<0.14	<0.14	<0.14	<0.14	<0.099	<0.099	<0.099	--	--	<0.27	--	<0.26	--	--	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Total Radium	pCi/L	0.0087	1.05	0	1.27	1.15	2.23	1.33	0.852	--	--	1.54	0.51	3.1	0.557	0.986	0.34	1.02	0.349	0.703	0.545	0.853
Radium-226	pCi/L	-0.344	0.59	0	0.942	0.638	1.08	0.564	0.459	--	--	0.167	0.119	0.84	0.226	0.42	0.102	0.268	0.21	0.24	0.187	0.0891
Radium-228	pCi/L	0.0087	0.458	-0.116	0.33	0.516	1.15	0.764	0.393	--	--	1.37	0.39	2.26	0.332	0.567	0.238	0.752	0.139	0.464	0.358	0.764
pH at 25 Degrees C	Std. Units	7	7.4	7.7	7.3	6.9	7	6.9	7	6.9	7.2	6.9	6.9	6.7	--	7.4	7	7.8	7.2	7.8	7.3	7.7
Field Specific Conductance	umhos/cm	1262	1012	939	935	1029	773	817	939	1168	1061	1178	1200	1198	1215	1029	1171	807	938	786	1044	911
Field Temperature	deg C	9.7	11	12.1	13.3	17.9	12.24	10.3	9.4	8.49	13.81	11.4	9.9	10.2	9.1	14.8	10.9	14.8	10	14.7	9.4	14.2
Oxygen, Dissolved	mg/L	0.1	0.08	0.21	0.12	0.08	0.23	0.17	0.08	0.96	0.4	0.27	1.09	0.2	0.12	0.12	0.15	1.15	0.14	-0.1	0.13	0.64
Collected By		--	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Collected Date		--	--	--	--	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Collected Time		--	--	--	--	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Field Oxidation Potential	millivolts	11.9	-134	-102	-116	-77.2	-117.7	60.9	23.6	47	24.7	50.5	57.8	-6.6	20.2	-79.3	69.8	134.7	120.5	17.5	140	29.3
Groundwater Elevation	ft	853.64	853.99	854.55	854	855.94	854.87	854.94	854.56	855.67	854.99	854.33	854.28	854.64	853.78	851.32	853.02	850.12	851.91	849.73	853.13	849.27
Turbidity	NTU	11.12	14.96	4.69	8.39	15.83	119	3.64	12.33	6.46	2.17	78.41	4.9	8.14	2.98	3.75	3.44	19.9	11.1	0	0.02	6.19
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	200	230	--	230	--	--
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<4.6	<4.6	--	<4.6	--	--
Iron, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	250	230	--	240	350	310
Magnesium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	40000	25000	--	26000	--	--
Potassium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3900	5900	--	5700	--	--
Sodium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	48000	38000	--	38000	--	--
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	200	230	--	230	--	--
Manganese, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1400	520	--	620	--	--
Iron, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<36	--	--
Magnesium, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<150	--	--
Manganese, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<3.6	--	--
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Hardness as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Single Location
Name: IPL - Sutherland Generating Station

Location ID: MW-305
Number of Sampling Dates: 26

Parameter Name	Units	4/9/2024	10/17/2024	4/2/2025	10/16/2025	12/22/2025
Boron	ug/L	1100	890	710	960	--
Calcium	mg/L	110	98	110	110	--
Chloride	mg/L	31	30	18	29	--
Field pH	Std. Units	7.51	7.6	7.01	7.78	7.59
Fluoride	mg/L	<0.38	0.39	<0.38	0.9	--
Sulfate	mg/L	200	180	290	270	--
Total Dissolved Solids	mg/L	100	520	620	650	--
Antimony	ug/L	<1	<1	<1	1.6	--
Arsenic	ug/L	8.3	7.2	4.7	9.9	--
Barium	ug/L	41	50	47	46	--
Beryllium	ug/L	<0.33	<0.33	<0.33	<0.33	--
Cadmium	ug/L	<0.1	<0.1	0.18	<0.1	--
Chromium	ug/L	<1.2	<1.2	<1.8	<1.8	--
Cobalt	ug/L	0.84	0.65	0.55	0.65	--
Lead	ug/L	<0.26	<0.26	0.39	<0.33	--
Lithium	ug/L	38	42	24	41	--
Mercury	ug/L	<0.11	<0.11	<0.11	<0.11	--
Molybdenum	ug/L	39	36	22	39	--
Selenium	ug/L	<1.4	<1.4	1.7	<1.4	--
Thallium	ug/L	<0.57	<0.57	<0.57	<0.57	--
Total Radium	pCi/L	<0.594	0.674	0.276	1.26	--
Radium-226	pCi/L	<0.106	0.126	-0.08	0.221	--
Radium-228	pCi/L	<0.594	0.548	0.276	1.04	--
pH at 25 Degrees C	Std. Units	7.8	8	7.7	7.8	--
Field Specific Conductance	umhos/cm	878	1066	976	944	775
Field Temperature	deg C	10.7	15	11.8	14.8	11.1
Oxygen, Dissolved	mg/L	0.27	0.39	0.59	0.25	0.31
Collected By		--	--	--	--	--
Collected Date		--	--	--	--	--
Collected Time		--	--	--	--	--
Field Oxidation Potential	millivolts	43.1	117.2	445.4 mV	216.9	142.5 mV
Groundwater Elevation	ft	850.48	850.57	852.07	852.19	852.09 feet
Turbidity	NTU	4.37	8.71	3.75	3.22	4.29
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	220
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	<2.5
Iron, total	ug/L	240	120	<50	150	--
Magnesium, total	ug/L	--	--	--	--	--
Potassium, total	ug/L	--	--	--	--	--
Sodium, total	ug/L	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--
Manganese, total	ug/L	--	--	--	--	500
Iron, dissolved	ug/L	--	--	--	--	--
Magnesium, dissolved	ug/L	--	--	--	--	--
Manganese, dissolved	ug/L	--	--	--	--	--
Total Suspended Solids	mg/L	--	--	--	--	6.3
Alkalinity as CaCO3	mg/L	--	--	--	--	220
Total Hardness as CaCO3	mg/L	--	--	--	--	330

Single Location
Name: IPL - Sutherland Generating Station

Location ID: MW-306
Number of Sampling Dates: 28

Parameter Name	Units	3/27/2018	5/23/2018	6/26/2018	7/26/2018	9/11/2018	11/28/2018	1/9/2019	2/12/2019	4/2/2019	10/16/2019	12/12/2019	2/3/2020	4/7/2020	5/11/2020	10/13/2020	2/24/2021	4/6/2021	7/14/2021	10/26/2021	4/21/2022	10/12/2022
Boron	ug/L	1100	1790	2090	2120	2160	2990	3260	3350	3200	2500	2400	2500	2500	--	3800	--	3400	--	4400	4400	3400
Calcium	mg/L	213	201	172	199	201	166	194	183	130	200	210	220	220	--	230	--	210	--	150	170	140
Chloride	mg/L	30.8	35.1	30.2	32	29.7	14.1	18.9	18	16	13	11	12	14	--	21	--	95	--	20	19	16
Field pH	Std. Units	7.94	9.46	7.74	7.38	7.68	7.41	7.44	7.61	7.81	7.38	7.5	7.61	7.72	7.08	7.62	7.61	7.64	8.11	7.44	7.71	7.68
Fluoride	mg/L	0.46	0.5	0.5	0.56	0.63	0.53	0.44	0.48	0.93	0.38	<0.23	--	0.75	--	0.65	--	2.5	--	<0.28	<0.22	0.25
Sulfate	mg/L	622	709	639	824	736	87.4	533	597	220	460	480	550	560	--	400	--	710	--	440	470	340
Total Dissolved Solids	mg/L	1160	1160	1110	1160	1170	955	1090	1020	750	1000	1100	1100	1100	--	1200	--	1200	--	690	780	720
Antimony	ug/L	0.056	<0.15	<0.15	<0.15	<0.15	<0.078	0.11	0.09	--	--	<0.53	--	<0.58	--	--	--	<1.1	--	<1.1	<0.69	<0.69
Arsenic	ug/L	3.6	3.1	3.3	3.4	3.8	5.2	4.7	3.9	--	--	4.3	4.6	3.6	--	4.4	--	4	--	4.1	4	4.1
Barium	ug/L	91.7	93.4	88.6	95.9	87.4	78.3	88	75	--	--	98	100	99	--	110	--	110	--	74	80	66
Beryllium	ug/L	<0.012	<0.12	0.49	<0.12	<0.12	<0.089	<0.089	<0.089	--	--	<0.27	--	<0.27	--	<0.27	--	<0.27	--	<0.27	<0.27	<0.27
Cadmium	ug/L	0.027	<0.07	<0.07	<0.07	<0.07	0.041	0.056	0.036	--	--	<0.039	<0.039	0.045	--	<0.049	--	<0.051	--	<0.051	<0.055	<0.055
Chromium	ug/L	0.1	<0.19	<0.19	<0.19	<0.19	<0.078	0.26	0.23	--	--	<0.98	--	<1.1	--	<1.1	--	<1.1	--	<1.1	<1.1	<1.1
Cobalt	ug/L	0.66	0.81	0.6	0.64	0.57	0.57	0.68	0.72	--	--	0.75	0.85	0.66	--	0.68	--	0.71	--	0.59	0.54	0.42
Lead	ug/L	0.063	<0.12	<0.12	<0.12	<0.12	<0.13	<0.13	<0.13	--	--	<0.27	<0.27	<0.27	--	<0.11	--	<0.21	--	0.58	<0.24	<0.24
Lithium	ug/L	37.1	28.6	29.9	32.2	31.5	36.8	35.6	43.7	--	--	40	39	40	42	52	55	48	59	55	52	63
Mercury	ug/L	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.037	--	--	<0.1	--	<0.1	--	--	--	<0.15	--	<0.15	<0.11	--
Molybdenum	ug/L	35.8	36.4	36.1	44.5	38.2	45.6	39.6	40.6	--	--	40	38	36	--	42	--	59	--	66	83	81
Selenium	ug/L	<0.086	<0.16	0.38	<0.16	<0.16	<0.085	0.13	<0.085	--	--	<1	--	<1	--	--	--	<0.96	--	<0.96	<0.96	<0.96
Thallium	ug/L	<0.036	<0.14	<0.14	<0.14	<0.14	<0.099	<0.099	<0.099	--	--	<0.27	--	<0.26	--	--	--	<0.26	--	<0.26	<0.26	<0.26
Total Radium	pCi/L	0.996	0.0586	0.86	0	0.982	1.12	1.4	0.966	--	--	1.58	0.214	0.36	--	0.51	--	0.261	--	0.307	0.194	0.75
Radium-226	pCi/L	-0.074	0.0586	0.351	0	0.361	0.515	0.324	0.376	--	--	0.0272	0.0568	-0.0459	--	0.224	--	0.0888	--	0.145	0.0542	-0.0579
Radium-228	pCi/L	0.996	-0.195	0.509	-0.435	0.621	0.605	1.08	0.59	--	--	1.56	0.157	0.36	--	0.286	--	0.172	--	0.162	0.139	0.75
pH at 25 Degrees C	Std. Units	7.7	7.8	7.8	7.6	7.4	6.7	7.7	7.7	7.9	7.9	7.8	7.8	7.6	--	7.8	--	7.8	--	7.8	7.7	7.9
Field Specific Conductance	umhos/cm	1509	1432	1395	1468	1469	814	871	1140	907	1294	1329	1446	1428	1557	1445	1479	1464	1178	1038	1100	915
Field Temperature	deg C	10.3	11.9	12.9	14	15.7	12.53	10.73	10.7	10.79	13.09	11.6	10.86	11.1	10.7	15	11.5	12	14.1	15.7	11.2	14.2
Oxygen, Dissolved	mg/L	0.1	0.06	0.08	0.05	0.03	0.32	0.29	0.08	1.37	0.28	0.32	1.46	0.12	0.1	0.09	0.09	0.11	0.13	1.22	0.25	-0.08
Collected By		--	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Collected Date		--	--	--	--	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Collected Time		--	--	--	--	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Field Oxidation Potential	millivolts	0.3	-17	5	12	-172.7	2.1	39.8	-113.1	25.7	43.4	30.8	72.7	209.2	123.2	-97.4	-38.8	-29.2	57.7	161	110.2	118.8
Groundwater Elevation	ft	853.49	854.11	854.57	853.94	856.48	854.91	854.94	854.75	855.96	852.16	854.39	854.14	854.7	853.71	851.13	850.56	852.79	850.67	850	851.82	849.62
Turbidity	NTU	1.09	1.82	0.72	3.29	1	1.75	0.64	4.78	0.78	1.81	0.78	0.74	0.58	1.43	0.02	0.02	0.02	0.78	19.8	4.6	0
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	170	--	100	--	150
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<4.2	--	<4.6	--	<4.6
Iron, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	61	--	220	--	85
Magnesium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	55000	--	26000	--	25000
Potassium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7000	--	7400	--	7500
Sodium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	46000	--	41000	--	34000
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	170	--	100	--	150
Manganese, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3400	--	1900	--	1800
Iron, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<36
Lithium, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	62
Magnesium, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25000
Manganese, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1900
Total Suspended Solids	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Hardness as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Single Location
Name: IPL - Sutherland Generating Station

Location ID: MW-306
Number of Sampling Dates: 28

Parameter Name	Units	4/12/2023	10/19/2023	4/9/2024	10/16/2024	4/3/2025	10/14/2025	12/22/2025
Boron	ug/L	3400	4000	3600	3400	3100	3000	--
Calcium	mg/L	150	120	140	150	130	150	--
Chloride	mg/L	18	18	18	16	19	17	--
Field pH	Std. Units	7.69	7.72	7.7	7.62	7.8	7.52	7.69
Fluoride	mg/L	<0.38	0.39	<0.38	0.43	0.51	0.44	--
Sulfate	mg/L	400	320	350	330	380	330	--
Total Dissolved Solids	mg/L	720	600	1200	940	750	720	--
Antimony	ug/L	<1	<1	<1	<1	<1	<1	--
Arsenic	ug/L	3.5	4.5	4.4	4.4	4.2	5.8	--
Barium	ug/L	63	57	100	71	64	64	--
Beryllium	ug/L	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	--
Cadmium	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--
Chromium	ug/L	<1.1	<1.1	<1.2	<1.2	<1.8	<1.8	--
Cobalt	ug/L	0.38	0.29	0.5	0.35	0.39	0.38	--
Lead	ug/L	<0.24	<0.24	<0.26	<0.26	0.45	<0.33	--
Lithium	ug/L	59	62	58	66	53	99	--
Mercury	ug/L	<0.14	<0.14	<0.11	<0.11	<0.11	<0.11	--
Molybdenum	ug/L	76	100	86	89	83	77	--
Selenium	ug/L	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	--
Thallium	ug/L	<0.26	<0.26	<0.57	<0.57	<0.57	<0.57	--
Total Radium	pCi/L	0.474	1.26	<0.471	0.863	0.77	1.11	--
Radium-226	pCi/L	0.0722	-0.0346	0.145	0.0794	-0.0111	0.243	--
Radium-228	pCi/L	0.402	1.26	<0.471	0.784	0.77	0.87	--
pH at 25 Degrees C	Std. Units	7.9	7.9	6.2	7.7	7.9	7.8	--
Field Specific Conductance	umhos/cm	988	933	1003	1279	991	1005	926
Field Temperature	deg C	11.4	13.6	17	14.7	10.4	14.2	12.3
Oxygen, Dissolved	mg/L	0.14	0.6	0.25	0.41	0.13	0.1	0.12
Collected By		--	--	--	--	--	--	--
Collected Date		--	--	--	--	--	--	--
Collected Time		--	--	--	--	--	--	--
Field Oxidation Potential	millivolts	-8.9	27.1	-33.4	114.2	380.9 mV	-28.2	-30.8 mV
Groundwater Elevation	ft	853.01	849.22	850.41	850.25	852.02	852.13	851.91 feet
Turbidity	NTU	0.02	6.6	8.98	3.97	5.3	2.01	3.03
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	160
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	<2.5
Iron, total	ug/L	49	<36	140	44	170	57	--
Magnesium, total	ug/L	--	--	--	--	--	--	--
Potassium, total	ug/L	--	--	--	--	--	--	--
Sodium, total	ug/L	--	--	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--
Manganese, total	ug/L	--	--	--	--	--	--	1900
Iron, dissolved	ug/L	--	--	--	--	--	--	--
Lithium, dissolved	ug/L	--	--	--	--	--	--	--
Magnesium, dissolved	ug/L	--	--	--	--	--	--	--
Manganese, dissolved	ug/L	--	--	--	--	--	--	--
Total Suspended Solids	mg/L	--	--	--	--	--	--	<1.3
Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	160
Total Hardness as CaCO3	mg/L	--	--	--	--	--	--	440

Single Location
Name: IPL - Sutherland Generating Station

Location ID: MW-306A
Number of Sampling Dates: 6

Parameter Name	Units	4/12/2023	10/18/2023	4/9/2024	10/15/2024	4/3/2025	10/15/2025
Calcium	mg/L	170	160	170	150	130	140
Chloride	mg/L	21	--	--	--	--	--
Field pH	Std. Units	7.48	7.35	7.4	7.34	7.54	7.41
Sulfate	mg/L	210	--	--	--	--	--
Lithium	ug/L	38	39	43	36	33	38
Field Specific Conductance	umhos/cm	940	1016	972	1107	838	849
Field Temperature	deg C	12.6	14.1	12.8	13.6	11.3	13.6
Oxygen, Dissolved	mg/L	0.11	0.69	0.12	0.21	0.14	0.13
Field Oxidation Potential	millivolts	-69	-59.2	-104	-58.3	263 mV	-94.4
Groundwater Elevation	ft	853.37	849.6	850.79	850.66	852.41	852.32
Turbidity	NTU	4.53	15.2	2.94	4.77	4.12	3.99
Bicarbonate Alkalinity as CaCO3	mg/L	340	280	300	260	300	280
Carbonate Alkalinity as CaCO3	mg/L	<2.5	<2.5	<5	<2.5	<2.5	<2.5
Iron, total	ug/L	510	1000	640	570	500	650
Magnesium, total	ug/L	14000	14000	14000	14000	13000	17000
Potassium, total	ug/L	9900	9600	9100	7800	7100	7000
Sodium, total	ug/L	29000	27000	25000	21000	18000	19000
Total Alkalinity as CaCO3	mg/L	340	280	300	260	300	280
Manganese, total	ug/L	740	770	680	610	540	650

Single Location
Name: IPL - Sutherland Generating Station

Location ID: MW-307
Number of Sampling Dates: 9

Parameter Name	Units	12/9/2021	4/21/2022	10/10/2022	4/10/2023	10/18/2023	4/10/2024	10/14/2024	4/2/2025	10/15/2025
Boron	ug/L	460	500	420	--	--	--	--	--	--
Calcium	mg/L	150	180	170	--	--	--	--	--	--
Chloride	mg/L	19	21	17	--	--	--	--	--	--
Field pH	Std. Units	6.53	6.62	6.64	6.56	6.58	6.41	6.41	6.57	6.44
Fluoride	mg/L	<0.28	<0.22	<0.22	--	--	--	--	--	--
Sulfate	mg/L	320	350	270	--	--	--	--	--	--
Total Dissolved Solids	mg/L	700	750	760	--	--	--	--	--	--
Antimony	ug/L	<1.1	<0.69	<0.69	--	--	--	--	--	--
Arsenic	ug/L	2.6	4.4	5.9	--	--	--	--	--	--
Barium	ug/L	47	46	44	--	--	--	--	--	--
Beryllium	ug/L	<0.27	<0.27	<0.27	--	--	--	--	--	--
Cadmium	ug/L	0.18	0.35	0.24	--	--	--	--	--	--
Chromium	ug/L	<1.1	1.3	<1.1	--	--	--	--	--	--
Cobalt	ug/L	6.8	6.8	4.6	--	--	--	--	--	--
Lead	ug/L	<0.21	0.92	0.8	--	--	--	--	--	--
Lithium	ug/L	22	26	22	24	11	37	22	16	21
Mercury	ug/L	<0.15	<0.11	--	--	--	--	--	--	--
Molybdenum	ug/L	6.5	4.1	5.8	--	--	--	--	--	--
Selenium	ug/L	<0.96	<0.96	<0.96	--	--	--	--	--	--
Thallium	ug/L	<0.26	<0.26	<0.26	--	--	--	--	--	--
Total Radium	pCi/L	1.83	0.568	0.873	--	--	--	--	--	--
Radium-226	pCi/L	0.138	0.0677	0.109	--	--	--	--	--	--
Radium-228	pCi/L	1.69	0.5	0.764	--	--	--	--	--	--
pH at 25 Degrees C	Std. Units	6.8	6.9	7	--	--	--	--	--	--
Field Specific Conductance	umhos/cm	1137	1104	1025	1686	991	1756	1532	1303	1133
Field Temperature	deg C	14.3	10.6	17.3	10.7	14.2	12.3	14.2	9.9	14.6
Oxygen, Dissolved	mg/L	2.37	0.12	0	-0.06	0.71	0.32	0.33	0.19	0.16
Field Oxidation Potential	millivolts	52.5	81.3	22.9	136.4	29.8	76	107.1	440.9 mV	105.1
Groundwater Elevation	ft	--	852.76	850.79	853.97	850.32	851.37	851.63	852.95	853.52
Turbidity	NTU	13	26.3	44.77	1.27	10.82	17.97	5.33	4.1	11.99
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	350	--	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	--	--	<4.6	--	--	--	--	--	--
Iron, total	ug/L	--	--	2300	620	280	430	790	390	590
Magnesium, total	ug/L	--	--	40000	--	--	--	--	--	--
Potassium, total	ug/L	--	--	5200	--	--	--	--	--	--
Sodium, total	ug/L	--	--	29000	--	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	--	350	--	--	--	--	--	--
Manganese, total	ug/L	--	--	5500	--	--	--	--	--	--
Iron, dissolved	ug/L	--	--	560	--	--	--	--	--	--
Lithium, dissolved	ug/L	--	--	21	--	--	--	--	--	--
Magnesium, dissolved	ug/L	--	--	39000	--	--	--	--	--	--
Manganese, dissolved	ug/L	--	--	5200	--	--	--	--	--	--

Single Location
Name: IPL - Sutherland Generating Station

Location ID: MW-308
Number of Sampling Dates: 9

Parameter Name	Units	12/9/2021	4/21/2022	10/10/2022	4/13/2023	10/18/2023	4/10/2024	10/14/2024	4/4/2025	10/16/2025
Boron	ug/L	330	370	400	--	--	--	--	--	--
Calcium	mg/L	96	120	130	--	--	--	--	--	--
Chloride	mg/L	17	14	14	--	--	--	--	--	--
Field pH	Std. Units	6.96	7.12	6.91	6.73	6.8	6.7	6.74	6.44	6.94
Fluoride	mg/L	<0.28	<0.22	0.26	--	--	--	--	--	--
Sulfate	mg/L	89	120	130	--	--	--	--	--	--
Total Dissolved Solids	mg/L	390	390	540	--	--	--	--	--	--
Antimony	ug/L	<1.1	<0.69	<0.69	--	--	--	--	--	--
Arsenic	ug/L	<0.75	0.9	<0.75	--	--	--	--	--	--
Barium	ug/L	69	81	64	--	--	--	--	--	--
Beryllium	ug/L	<0.27	<0.27	<0.27	--	--	--	--	--	--
Cadmium	ug/L	<0.051	<0.055	<0.055	--	--	--	--	--	--
Chromium	ug/L	<1.1	<1.1	<1.1	--	--	--	--	--	--
Cobalt	ug/L	2	2.8	2.5	--	--	--	--	--	--
Lead	ug/L	0.21	0.34	<0.24	--	--	--	--	--	--
Lithium	ug/L	11	15	14	12	16	17	14	17	14
Mercury	ug/L	<0.15	<0.11	--	--	--	--	--	--	--
Molybdenum	ug/L	<1.3	<1.2	<1.2	--	--	--	--	--	--
Selenium	ug/L	<0.96	<0.96	<0.96	--	--	--	--	--	--
Thallium	ug/L	<0.26	<0.26	<0.26	--	--	--	--	--	--
Total Radium	pCi/L	1.67	0.517	0.763	--	--	--	--	--	--
Radium-226	pCi/L	0.0914	-0.031	0.172	--	--	--	--	--	--
Radium-228	pCi/L	1.58	0.517	0.591	--	--	--	--	--	--
pH at 25 Degrees C	Std. Units	7.2	7.3	7.2	--	--	--	--	--	--
Field Specific Conductance	umhos/cm	739	726	780	1160	981	1139	1023	1650	880
Field Temperature	deg C	13.3	8.9	15	9.3	13.8	11.1	13.7	7.8	14
Oxygen, Dissolved	mg/L	6.33	0.15	-0.1	0.11	0.61	0.14	0.43	-0.21	0.11
Field Oxidation Potential	millivolts	-37.3	105.7	-23.9	47.9	28.5	63.6	129.1	414.7 mV	202.4
Groundwater Elevation	ft	--	853.08	851.18	852.53	850.64	851.63	852.11	853.23	854.01
Turbidity	NTU	14	26.9	77.91	40	4.96	18.25	14.38	30.01	2.41
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	310	--	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	--	--	<4.6	--	--	--	--	--	--
Iron, total	ug/L	--	--	710	4700	580	190	1100	2400	430
Magnesium, total	ug/L	--	--	29000	--	--	--	--	--	--
Potassium, total	ug/L	--	--	4800	--	--	--	--	--	--
Sodium, total	ug/L	--	--	21000	--	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	--	310	--	--	--	--	--	--
Manganese, total	ug/L	--	--	1700	--	--	--	--	--	--
Iron, dissolved	ug/L	--	--	660	--	--	--	--	--	--
Magnesium, dissolved	ug/L	--	--	30000	--	--	--	--	--	--
Manganese, dissolved	ug/L	--	--	1700	--	--	--	--	--	--

Single Location
Name: IPL - Sutherland Generating Station

Location ID: MW-309
Number of Sampling Dates: 9

Parameter Name	Units	5/12/2022	8/11/2022	10/11/2022	4/11/2023	10/20/2023	4/10/2024	10/15/2024	4/2/2025	10/17/2025
Boron	ug/L	--	--	1400	--	--	--	--	--	--
Calcium	mg/L	--	--	170	140	95	130	120	100	98000 ug/L
Chloride	mg/L	--	--	17	19	--	--	--	--	--
Field pH	Std. Units	7.42	7.4	7.17	7.25	7.41	7.19	7.11	7.29	7.43
Fluoride	mg/L	--	--	0.22	--	--	--	--	--	--
Sulfate	mg/L	--	--	350	400	--	--	--	--	--
Total Dissolved Solids	mg/L	--	--	800	--	--	--	--	--	--
Antimony	ug/L	--	--	<0.69	--	--	--	--	--	--
Arsenic	ug/L	--	--	2.2	--	--	--	--	--	--
Barium	ug/L	--	--	170	--	--	--	--	--	--
Beryllium	ug/L	--	--	<0.27	--	--	--	--	--	--
Cadmium	ug/L	--	--	0.25	--	--	--	--	--	--
Chromium	ug/L	--	--	2.5	--	--	--	--	--	--
Cobalt	ug/L	--	--	5.8	--	--	--	--	--	--
Lead	ug/L	--	--	2	--	--	--	--	--	--
Lithium	ug/L	17	26	24	21	17	26	19	23	22
Molybdenum	ug/L	--	--	<1.2	--	--	--	--	--	--
Selenium	ug/L	--	--	<0.96	--	--	--	--	--	--
Thallium	ug/L	--	--	<0.26	--	--	--	--	--	--
Total Radium	pCi/L	--	--	2.39	--	--	--	--	--	--
Radium-226	pCi/L	--	--	0.107	--	--	--	--	--	--
Radium-228	pCi/L	--	--	2.28	--	--	--	--	--	--
pH at 25 Degrees C	Std. Units	--	--	7.6	--	--	--	--	--	--
Field Specific Conductance	umhos/cm	937	1065	1017	1017	1128	1028	1184	896	778
Field Temperature	deg C	9.5	13.3	11.7	9.7	11.5	10.3	12.1	9.4	11.5
Oxygen, Dissolved	mg/L	7.66	0.25	0.09	0.44	0.92	0.35	1.04	0.73	1.06
Field Oxidation Potential	millivolts	191.4	22.3	193.6	96.7	83.8	46.6	115.2	419.8 mV	226.1
Groundwater Elevation	ft	853.95	849.47	848.44	851.58	848.35	849.58	848.67	851.06	850.3
Turbidity	NTU	0.08	36.6	653.34	1.69	36.02	12.08	2.71	4.64	32.31
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	240	220	190	200	190	230	210
Carbonate Alkalinity as CaCO3	mg/L	--	--	<4.6	<2.5	<2.5	<5	<2.5	<2.5	<2.5
Iron, total	ug/L	--	--	4800	360	950	220	<36	79	1300
Magnesium, total	ug/L	--	--	51000	41000	30000	39000	36000	34000	32000
Potassium, total	ug/L	--	--	4900	4700	3500	4600	4000	4200	3500
Sodium, total	ug/L	--	--	42000	43000	33000	42000	34000	34000	32000
Total Alkalinity as CaCO3	mg/L	--	--	240	220	190	200	190	230	210
Manganese, total	ug/L	--	--	990	98	180	57	97	25	220
Iron, dissolved	ug/L	--	--	83	--	--	--	--	--	--
Magnesium, dissolved	ug/L	--	--	44000	--	--	--	--	--	--
Manganese, dissolved	ug/L	--	--	35	--	--	--	--	--	--

Single Location
Name: IPL - Sutherland Generating Station

Location ID: MW-310
Number of Sampling Dates: 9

Parameter Name	Units	5/12/2022	8/11/2022	10/11/2022	4/11/2023	10/20/2023	4/10/2024	10/15/2024	4/2/2025	10/17/2025
Boron	ug/L	--	--	920	--	--	--	--	--	--
Calcium	mg/L	--	--	140	170	130	150	130	130	120000 ug/L
Chloride	mg/L	--	--	20	43	--	--	--	--	--
Field pH	Std. Units	7.44	7.37	7.1	6.96	7.3	7.16	7.03	7.06	7.33
Fluoride	mg/L	--	--	<0.22	--	--	--	--	--	--
Sulfate	mg/L	--	--	290	460	--	--	--	--	--
Total Dissolved Solids	mg/L	--	--	710	--	--	--	--	--	--
Antimony	ug/L	--	--	<0.69	--	--	--	--	--	--
Arsenic	ug/L	--	--	1.2	--	--	--	--	--	--
Barium	ug/L	--	--	55	--	--	--	--	--	--
Beryllium	ug/L	--	--	<0.27	--	--	--	--	--	--
Cadmium	ug/L	--	--	0.11	--	--	--	--	--	--
Chromium	ug/L	--	--	<1.1	--	--	--	--	--	--
Cobalt	ug/L	--	--	2.7	--	--	--	--	--	--
Lead	ug/L	--	--	2.6	--	--	--	--	--	--
Lithium	ug/L	20	19	18	4	20	25	21	13	21
Molybdenum	ug/L	--	--	<1.2	--	--	--	--	--	--
Selenium	ug/L	--	--	<0.96	--	--	--	--	--	--
Thallium	ug/L	--	--	<0.26	--	--	--	--	--	--
Total Radium	pCi/L	--	--	1.99	--	--	--	--	--	--
Radium-226	pCi/L	--	--	0.499	--	--	--	--	--	--
Radium-228	pCi/L	--	--	1.49	--	--	--	--	--	--
pH at 25 Degrees C	Std. Units	--	--	7.5	--	--	--	--	--	--
Field Specific Conductance	umhos/cm	1044	1001	937	1189	1123	1172	1356	1117	947
Field Temperature	deg C	9.6	13.3	13.7	7.7	12.3	10.3	12.6	9.7	12.7
Oxygen, Dissolved	mg/L	4.81	0.14	1.07	2.83	1.81	0.23	0.91	0.22	0.14
Field Oxidation Potential	millivolts	190.7	29	178.5	88.2	82.1	32.9	115.1	417.5 mV	216.3
Groundwater Elevation	ft	853.71	849.49	848.31	851.7	848.13	849.52	848.71	851.07	850.35
Turbidity	NTU	2.91	36.4	217.88	0.02	8.17	2.05	4.02	4.81	4.11
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	260	260	200	260	200	230	220
Carbonate Alkalinity as CaCO3	mg/L	--	--	<4.6	<2.5	<2.5	<5	<2.5	<2.5	<2.5
Iron, total	ug/L	--	--	1900	<36	97	<36	<36	91	110
Magnesium, total	ug/L	--	--	43000	64000	41000	47000	43000	48000	42000
Potassium, total	ug/L	--	--	4100	220	4100	4300	4200	1800	4100
Sodium, total	ug/L	--	--	39000	36000	41000	45000	40000	38000	40000
Total Alkalinity as CaCO3	mg/L	--	--	260	260	200	260	200	230	220
Manganese, total	ug/L	--	--	600	6.6	360	320	170	36	220
Iron, dissolved	ug/L	--	--	250	--	--	--	--	--	--
Magnesium, dissolved	ug/L	--	--	40000	--	--	--	--	--	--
Manganese, dissolved	ug/L	--	--	240	--	--	--	--	--	--

Single Location
Name: IPL - Sutherland Generating Station

Location ID: MW-311
Number of Sampling Dates: 9

Parameter Name	Units	5/12/2022	8/11/2022	10/11/2022	4/11/2023	10/20/2023	4/10/2024	10/15/2024	4/2/2025	10/17/2025
Boron	ug/L	--	--	1400	--	--	--	--	--	--
Calcium	mg/L	--	--	150	120	130	120	110	120	120000 ug/L
Chloride	mg/L	--	--	19	21	--	--	--	--	--
Field pH	Std. Units	7.17	7.27	7.05	7.17	7.16	7.19	6.77	7.13	6.82
Fluoride	mg/L	--	--	0.33	--	--	--	--	--	--
Sulfate	mg/L	--	--	310	260	--	--	--	--	--
Total Dissolved Solids	mg/L	--	--	760	--	--	--	--	--	--
Antimony	ug/L	--	--	<0.69	--	--	--	--	--	--
Arsenic	ug/L	--	--	1.2	--	--	--	--	--	--
Barium	ug/L	--	--	120	--	--	--	--	--	--
Beryllium	ug/L	--	--	<0.27	--	--	--	--	--	--
Cadmium	ug/L	--	--	0.092	--	--	--	--	--	--
Chromium	ug/L	--	--	<1.1	--	--	--	--	--	--
Cobalt	ug/L	--	--	1.1	--	--	--	--	--	--
Lead	ug/L	--	--	0.27	--	--	--	--	--	--
Lithium	ug/L	25	31	29	20	33	29	26	25	32
Molybdenum	ug/L	--	--	<1.2	--	--	--	--	--	--
Selenium	ug/L	--	--	<0.96	--	--	--	--	--	--
Thallium	ug/L	--	--	<0.26	--	--	--	--	--	--
Total Radium	pCi/L	--	--	0.541	--	--	--	--	--	--
Radium-226	pCi/L	--	--	-0.0307	--	--	--	--	--	--
Radium-228	pCi/L	--	--	0.541	--	--	--	--	--	--
pH at 25 Degrees C	Std. Units	--	--	7.5	--	--	--	--	--	--
Field Specific Conductance	umhos/cm	1017	952	977	847	1075	898	1100	969	862
Field Temperature	deg C	7.9	15	14.9	6.9	13.9	8.4	15.1	8.8	16.2
Oxygen, Dissolved	mg/L	5.15	0.71	0.16	1.88	1.62	0.54	1.13	0.14	0.24
Field Oxidation Potential	millivolts	199.6	39.7	160.3	112.9	93.7	38.7	154.1	426.1 mV	244.7
Groundwater Elevation	ft	853.56	849.46	848.21	851.72	847.99	849.44	848.72	851.02	850.49
Turbidity	NTU	0.67	32	4.89	0.02	7.5	31.96	6.6	2.54	5.36
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	250	240	220	200	210	260	260
Carbonate Alkalinity as CaCO3	mg/L	--	--	<4.6	<2.5	<2.5	<5	<2.5	<2.5	<2.5
Iron, total	ug/L	--	--	1400	<36	47	<36	<36	<50	90
Magnesium, total	ug/L	--	--	37000	31000	34000	30000	29000	31000	29000
Potassium, total	ug/L	--	--	5200	3600	5100	3900	3800	3700	4200
Sodium, total	ug/L	--	--	45000	39000	43000	36000	33000	36000	35000
Total Alkalinity as CaCO3	mg/L	--	--	250	240	220	200	210	260	260
Manganese, total	ug/L	--	--	510	45	87	33	67	9	180
Iron, dissolved	ug/L	--	--	<36	--	--	--	--	--	--
Magnesium, dissolved	ug/L	--	--	36000	--	--	--	--	--	--
Manganese, dissolved	ug/L	--	--	100	--	--	--	--	--	--

Single Location
Name: IPL - Sutherland Generating Station

Location ID: MW-312
Number of Sampling Dates: 7

Parameter Name	Units	4/11/2023	10/19/2023	4/9/2024	10/16/2024	4/3/2025	10/15/2025	12/22/2025
Boron	ug/L	--	1400	1300	1300	1000	1100	--
Calcium	mg/L	140	120	130	120	110	110	--
Chloride	mg/L	17	17	17	17	18	20	--
Field pH	Std. Units	7.7	7.52	7.45	7.64	7.72	7.55	7.61
Fluoride	mg/L	--	<0.38	<0.38	<0.38	0.49	0.61	--
Sulfate	mg/L	240	250	230	270	210	230	--
Total Dissolved Solids	mg/L	--	560	570	550	590	550	--
Antimony	ug/L	--	<1	<1	<1	<1	<1	--
Arsenic	ug/L	--	1.2	1.1	1	1.2	1.3	--
Barium	ug/L	--	56	48	54	44	48	--
Beryllium	ug/L	--	<0.33	<0.33	<0.33	<0.33	<0.33	--
Cadmium	ug/L	--	<0.1	<0.1	<0.1	<0.1	<0.1	--
Chromium	ug/L	--	<1.1	<1.2	<1.2	<1.8	<1.8	--
Cobalt	ug/L	--	0.96	0.91	0.83	0.86	0.81	--
Lead	ug/L	--	<0.24	<0.26	<0.26	0.36	<0.33	--
Lithium	ug/L	58	66	75	58	53	58	--
Mercury	ug/L	--	<0.14	<0.11	<0.11	<0.11	<0.11	--
Molybdenum	ug/L	--	33	31	31	30	28	--
Selenium	ug/L	--	<1.4	<1.4	<1.4	<1.4	<1.4	--
Thallium	ug/L	--	<0.26	<0.57	<0.57	<0.57	<0.57	--
Total Radium	pCi/L	--	1.02	<0.532	0.212	0.211	0.411	--
Radium-226	pCi/L	--	0.00562	<0.109	0.088	0.0705	0.0703	--
Radium-228	pCi/L	--	1.02	<0.532	0.124	0.14	0.341	--
pH at 25 Degrees C	Std. Units	--	7.8	7.8	8	7.9	7.9	--
Field Specific Conductance	umhos/cm	848	934	870	1108	863	824	933
Field Temperature	deg C	10.5	14.4	11.7	15.3	9.9	15.2	11.8
Oxygen, Dissolved	mg/L	0.1	1.3	0.13	0.22	0.07	0.12	0.02
Field Oxidation Potential	millivolts	19.4	7.5	-49.3	-0.9	381.4 mV	8.6	-23.1 mV
Groundwater Elevation	ft	853.47	849.64	850.82	850.81	852.48	852.58	852.39 feet
Turbidity	NTU	0.02	10	3.78	2.75	6.78	3.94	2.32
Bicarbonate Alkalinity as CaCO3	mg/L	260	170	240	180	--	210	220
Carbonate Alkalinity as CaCO3	mg/L	<2.5	<2.5	<5	<2.5	--	<2.5	<2.5
Iron, total	ug/L	72	90	65	<36	<50	<50	--
Magnesium, total	ug/L	22000	23000	23000	24000	24000	27000	--
Potassium, total	ug/L	7500	7700	7900	7300	7500	7400	--
Sodium, total	ug/L	26000	26000	25000	25000	24000	23000	--
Total Alkalinity as CaCO3	mg/L	260	170	240	180	--	210	--
Manganese, total	ug/L	1400	1200	1100	1200	1100	1300	1600
Total Suspended Solids	mg/L	--	--	--	--	--	--	<1.3
Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	220
Total Hardness as CaCO3	mg/L	--	--	--	--	--	--	480

Single Location
Name: IPL - Sutherland Generating Station

Location ID: MW-312A
Number of Sampling Dates: 4

Parameter Name	Units	4/9/2024	10/16/2024	4/3/2025	10/15/2025
Calcium	mg/L	140	140	120	130
Field pH	Std. Units	7.28	7.46	7.52	7.42
Lithium	ug/L	38	34	28	31
Field Specific Conductance	umhos/cm	983	1220	937	889
Field Temperature	deg C	12.8	13.9	11.2	14.7
Oxygen, Dissolved	mg/L	0.59	0.26	0.25	0.12
Field Oxidation Potential	millivolts	-102.3	-78.1	130.8 mV	-107.2
Groundwater Elevation	ft	850.85	850.78	852.47	852.57
Turbidity	NTU	15.25	13.92	4.12	3.91
Bicarbonate Alkalinity as CaCO3	mg/L	250	260	280	280
Carbonate Alkalinity as CaCO3	mg/L	<5	<2.5	<2.5	<2.5
Iron, total	ug/L	1200	1000	870	950
Magnesium, total	ug/L	24000	25000	22000	27000
Potassium, total	ug/L	7500	6800	6600	6400
Sodium, total	ug/L	28000	25000	22000	25000
Total Alkalinity as CaCO3	mg/L	250	260	280	280
Manganese, total	ug/L	760	700	580	660

Single Location
Name: IPL - Sutherland Generating Station

Location ID: MW-313
Number of Sampling Dates: 6

Parameter Name	Units	4/12/2023	10/19/2023	4/10/2024	10/15/2024	4/1/2025	10/16/2025
Calcium	mg/L	150	130	140	140	110	140
Chloride	mg/L	15	--	--	--	--	--
Field pH	Std. Units	7.03	7.21	7.04	6.96	7.26	7.15
Sulfate	mg/L	290	--	--	--	--	--
Lithium	ug/L	25	44	44	43	54	43
Field Specific Conductance	umhos/cm	1013	1076	1015	1222	846	1004
Field Temperature	deg C	9.7	12.7	10.8	13.8	9.3	13.9
Oxygen, Dissolved	mg/L	0.07	1.3	0.06	1.89	0.18	0.14
Field Oxidation Potential	millivolts	61.1	39	2.5	81.4	298.8 mV	199.2
Groundwater Elevation	ft	853.15	849.41	850.65	850.34	852.14	851.98
Turbidity	NTU	4.45	13.24	6.39	2.33	3.44	10.62
Bicarbonate Alkalinity as CaCO3	mg/L	340	180	290	270	220	330
Carbonate Alkalinity as CaCO3	mg/L	<2.5	<2.5	<5	<2.5	<2.5	<2.5
Iron, total	ug/L	200	110	55	46	170	610
Magnesium, total	ug/L	37000	31000	32000	33000	23000	37000
Potassium, total	ug/L	4100	5500	5400	5300	5900	5700
Sodium, total	ug/L	30000	34000	32000	27000	23000	26000
Total Alkalinity as CaCO3	mg/L	340	180	290	270	220	330
Manganese, total	ug/L	4100	3200	3100	3200	1900	3700

Single Location
Name: IPL - Sutherland Generating Station

Location ID: MW-314
Number of Sampling Dates: 6

Parameter Name	Units	4/13/2023	10/19/2023	4/10/2024	10/15/2024	4/1/2025	10/16/2025
Calcium	mg/L	130	140	140	140	130	120
Chloride	mg/L	18	--	--	--	--	--
Field pH	Std. Units	7.26	7.15	7.15	7	7.32	7.35
Sulfate	mg/L	310	--	--	--	--	--
Lithium	ug/L	32	35	37	44	39	49
Field Specific Conductance	umhos/cm	967	1195	1102	1319	907	870
Field Temperature	deg C	7.4	13.4	9	14.7	7.5	14
Oxygen, Dissolved	mg/L	0.22	2.14	0.53	1.72	1.98	0.29
Field Oxidation Potential	millivolts	55.4	78.3	46.9	123.2	402.4 mV	198.7
Groundwater Elevation	ft	852.77	849.05	850.35	849.91	851.84	851.59
Turbidity	NTU	30	26.17	6.11	4.4	5.89	12.27
Bicarbonate Alkalinity as CaCO3	mg/L	250	210	250	250	240	240
Carbonate Alkalinity as CaCO3	mg/L	<2.5	<2.5	<5	<2.5	<2.5	<2.5
Iron, total	ug/L	790	620	<36	<36	86	400
Magnesium, total	ug/L	37000	40000	40000	35000	33000	29000
Potassium, total	ug/L	4900	5900	5000	5800	5200	5700
Sodium, total	ug/L	38000	47000	38000	38000	29000	25000
Total Alkalinity as CaCO3	mg/L	250	210	250	250	240	240
Manganese, total	ug/L	640	800	540	640	510	580

Appendix E

Statistical Evaluation

08/27/2026 - Classification: Internal - ECRM13799659

E1 LCL Evaluation – April 2025 Event

08/27/2026 - Classification: Internal - ECRM13799659

Confidence Interval

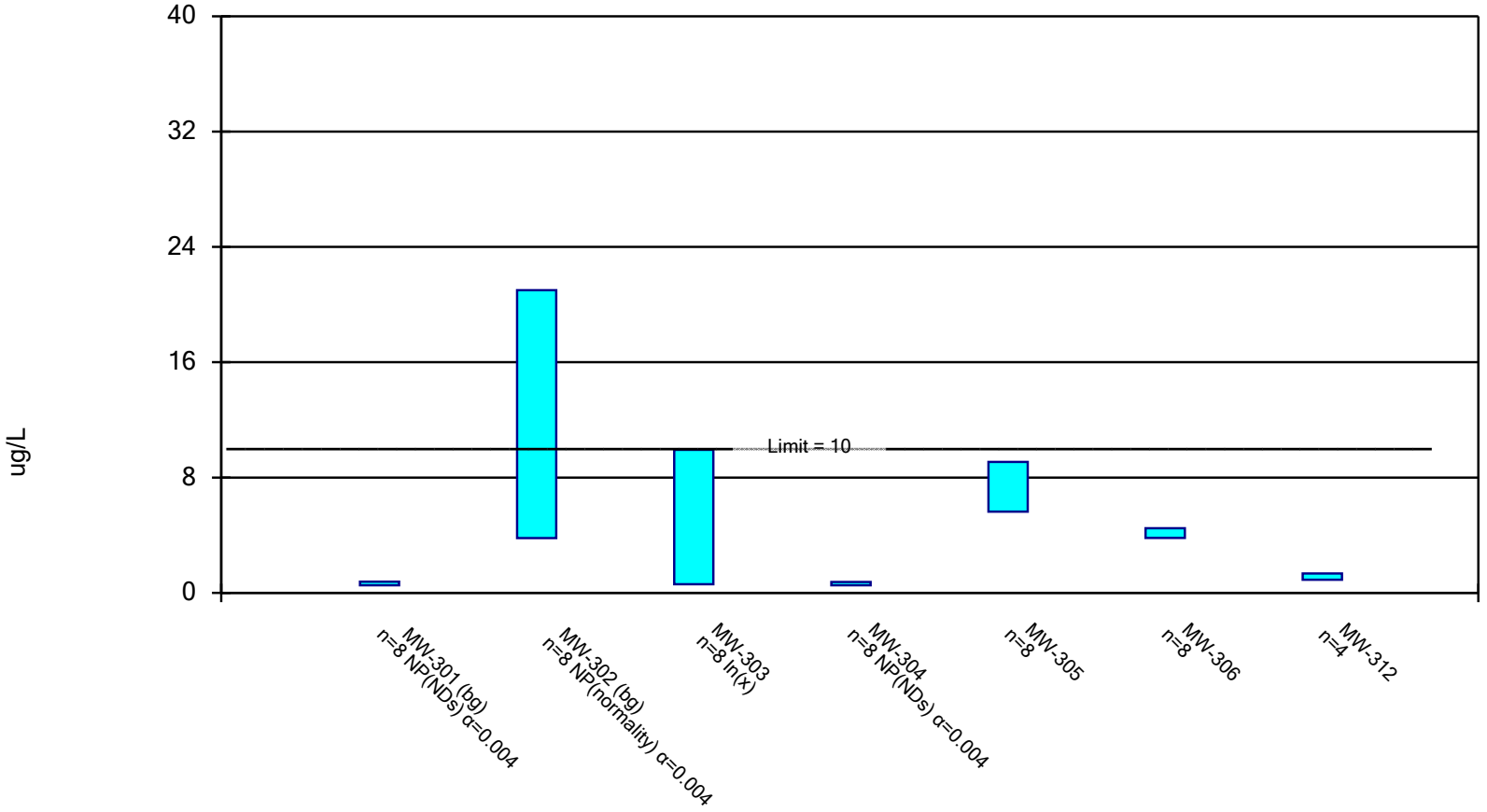
Sutherland Generating Station Client: SCS Engineers Data: Sutherland Printed 6/4/2025, 3:13 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (ug/L)	MW-301 (bg)	0.77	0.53	10	No	8	87.5	No	0.004	NP (NDs)
Arsenic (ug/L)	MW-302 (bg)	21	3.8	10	No	8	0	No	0.004	NP (normality)
Arsenic (ug/L)	MW-303	9.924	0.5954	10	No	8	0	ln(x)	0.01	Param.
Arsenic (ug/L)	MW-304	0.75	0.53	10	No	8	100	No	0.004	NP (NDs)
Arsenic (ug/L)	MW-305	9.087	5.638	10	No	8	0	No	0.01	Param.
Arsenic (ug/L)	MW-306	4.485	3.815	10	No	8	0	No	0.01	Param.
Arsenic (ug/L)	MW-312	1.342	0.9076	10	No	4	0	No	0.01	Param.
Cobalt (ug/L)	MW-301 (bg)	0.4569	0.1206	6	No	8	25	No	0.01	Param.
Cobalt (ug/L)	MW-302 (bg)	6.3	1.4	6	No	8	0	No	0.004	NP (normality)
Cobalt (ug/L)	MW-303	4.852	0.1377	6	No	8	12.5	ln(x)	0.01	Param.
Cobalt (ug/L)	MW-304	0.3	0.17	6	No	8	87.5	No	0.004	NP (NDs)
Cobalt (ug/L)	MW-305	1.086	0.547	6	No	8	0	ln(x)	0.01	Param.
Cobalt (ug/L)	MW-306	0.5406	0.3244	6	No	8	0	No	0.01	Param.
Cobalt (ug/L)	MW-312	1.02	0.7602	6	No	4	0	No	0.01	Param.
Lithium (ug/L)	MW-301 (bg)	3.873	2.768	40	No	8	0	ln(x)	0.01	Param.
Lithium (ug/L)	MW-302 (bg)	4.3	2.5	40	No	8	0	No	0.004	NP (normality)
Lithium (ug/L)	MW-303	21	7.8	40	No	8	0	No	0.004	NP (normality)
Lithium (ug/L)	MW-304	7.8	2.5	40	No	8	37.5	No	0.004	NP (normality)
Lithium (ug/L)	MW-305	40.61	25.89	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	**MW-306**	**63.78**	**53.22**	**40**	**Yes**	**8**	**0**	**No**	**0.01**	**Param.**
Lithium (ug/L)	**MW-312**	**76.46**	**47.54**	**40**	**Yes**	**5**	**0**	**No**	**0.01**	**Param.**
Molybdenum (ug/L)	MW-301 (bg)	1.9	0.91	100	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (ug/L)	MW-302 (bg)	1.3	0.91	100	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (ug/L)	MW-303	17.88	1.713	100	No	8	12.5	ln(x)	0.01	Param.
Molybdenum (ug/L)	MW-304	3.352	0.7225	100	No	8	62.5	ln(x)	0.01	Param.
Molybdenum (ug/L)	MW-305	51.41	27.84	100	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-306	93.42	72.58	100	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-312	34.11	28.39	100	No	4	0	No	0.01	Param.

08/27/2026 - Classification: Internal - ECRM13799659

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: Arsenic Analysis Run 6/4/2025 3:08 PM

Sutherland Generating Station Client: SCS Engineers Data: Sutherland

Confidence Interval

Constituent: Arsenic (ug/L) Analysis Run 6/4/2025 3:13 PM

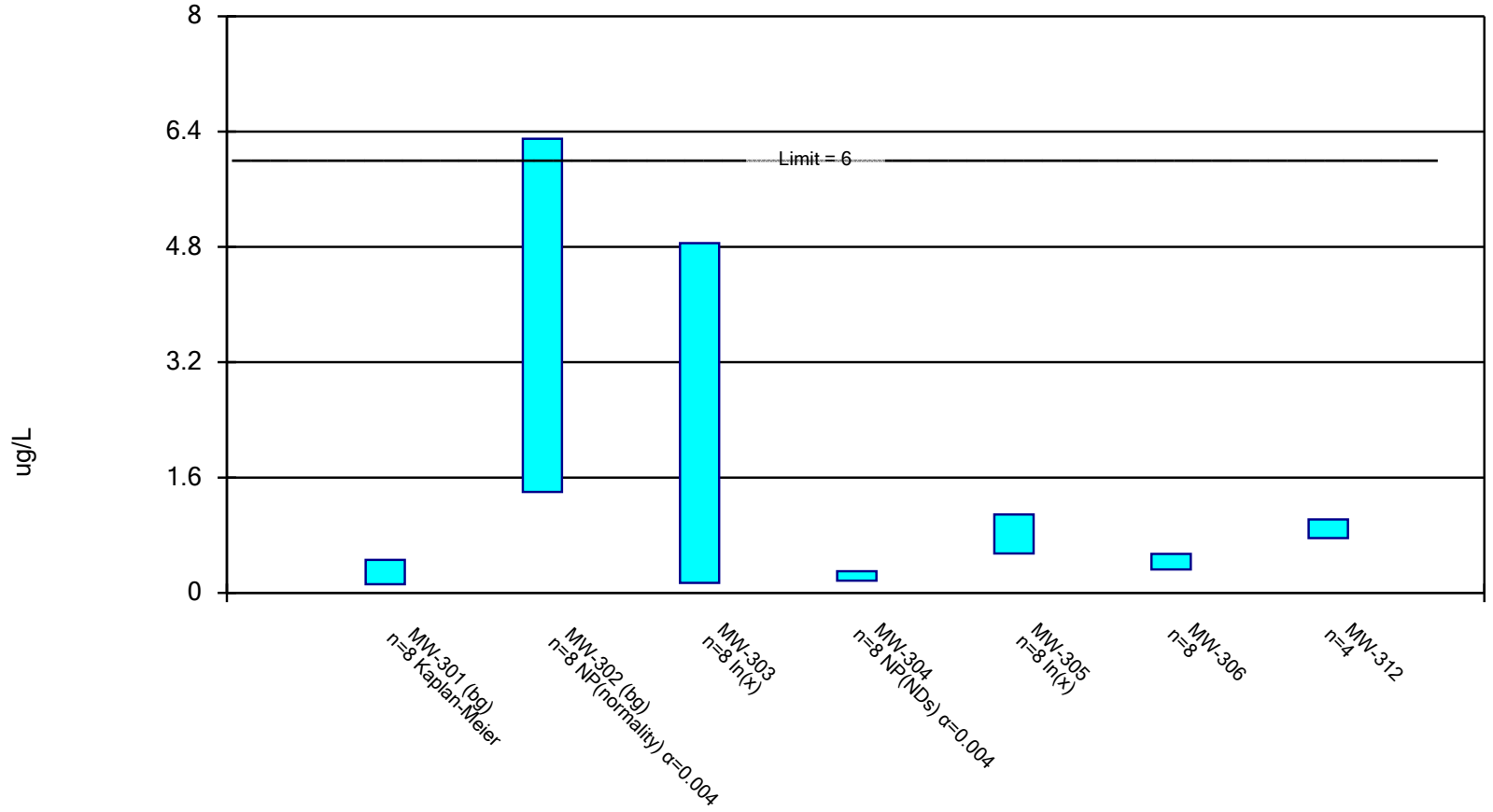
Sutherland Generating Station Client: SCS Engineers Data: Sutherland

	MW-301 (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-312
10/26/2021	<0.75 (U)	7.4	4.8	<0.75 (U)	7.4	4.1	
4/21/2022				<0.75 (U)	7.1	4	
4/22/2022	<0.75 (U)	21	1.9 (J)				
10/10/2022		4.5	2.5				
10/11/2022				<0.75 (U)	8.4		
10/12/2022	<0.75 (U)					4.1	
4/10/2023		3.9	0.58 (J)				
4/11/2023	0.77 (J)			<0.53 (U)	5.8		
4/12/2023						3.5	
10/18/2023	<0.53 (U)	3.8					
10/19/2023						4.5	1.2 (J)
10/20/2023			2	<0.53 (U)	10		
4/9/2024				<0.53	8.3	4.4	1.1 (J)
4/11/2024	<0.53	6.2	0.64 (J)				
10/16/2024						4.4	1 (J)
10/17/2024	<0.53	6.2	1.8 (J)	<0.53	7.2		
4/2/2025	<0.53 (U)			<0.53 (U)	4.7		
4/3/2025			40			4.2	1.2 (J)
4/4/2025		3.8					
Mean	0.6425	7.1	6.778	0.6125	7.363	4.15	1.125
Std. Dev.	0.1204	5.778	13.49	0.1139	1.627	0.3162	0.09574
Upper Lim.	0.77	21	9.924	0.75	9.087	4.485	1.342
Lower Lim.	0.53	3.8	0.5954	0.53	5.638	3.815	0.9076

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: Cobalt Analysis Run 6/4/2025 3:09 PM

Sutherland Generating Station Client: SCS Engineers Data: Sutherland

Confidence Interval

Constituent: Cobalt (ug/L) Analysis Run 6/4/2025 3:13 PM

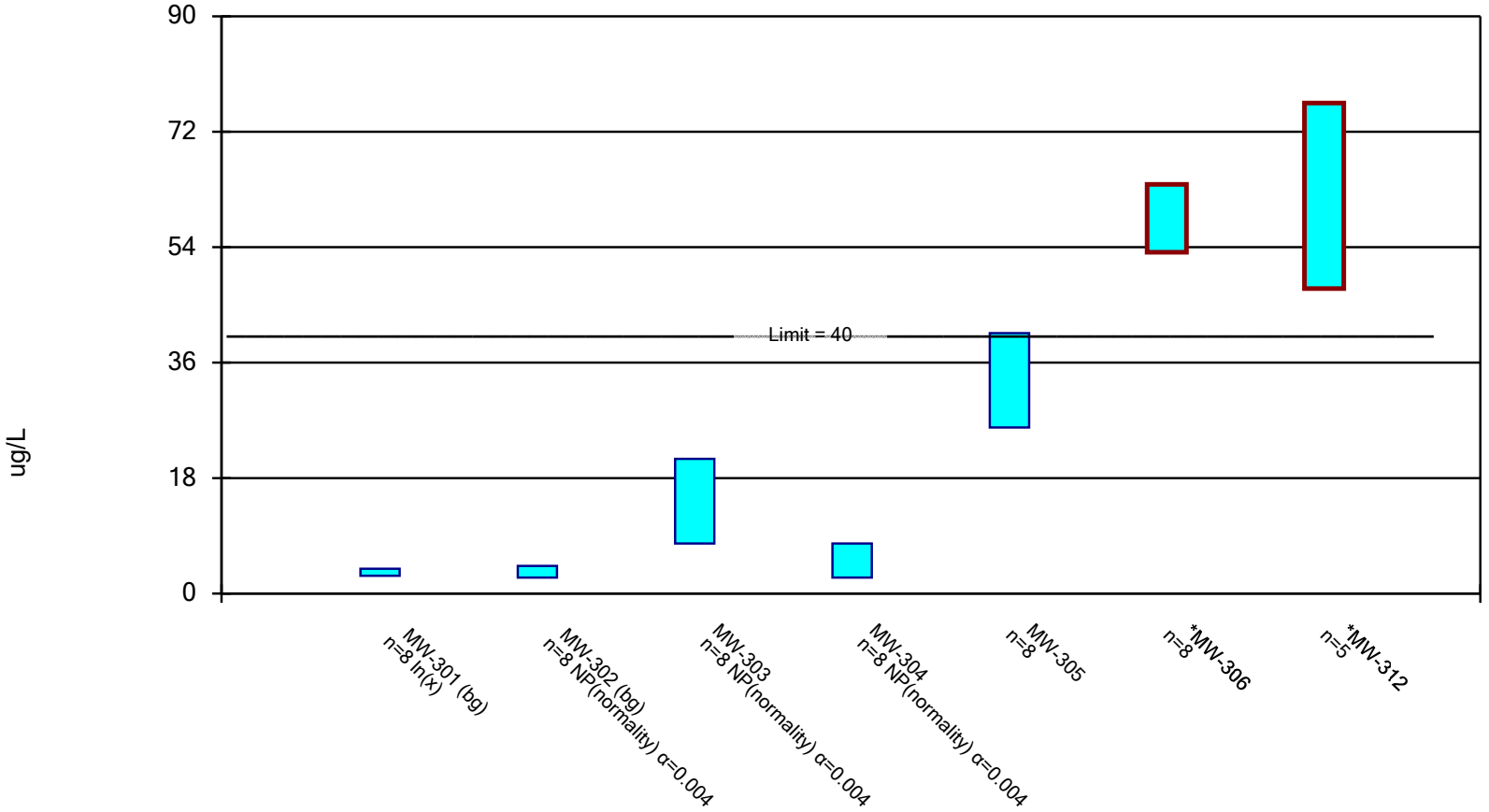
Sutherland Generating Station Client: SCS Engineers Data: Sutherland

	MW-301 (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-312
10/26/2021	0.24 (J)	1.6	0.66	0.3 (J)	0.63	0.59	
4/21/2022				<0.19 (U)	1.4	0.54	
4/22/2022	0.63	6.3	1.4				
10/10/2022		1.8	1.1				
10/11/2022				<0.19 (U)	0.62		
10/12/2022	0.25 (J)					0.42 (J)	
4/10/2023		1.5	0.21 (J)				
4/11/2023	0.47 (J)			<0.17 (U)	1.1		
4/12/2023						0.38 (J)	
10/18/2023	0.24 (J)	1.8					
10/19/2023						0.29 (J)	0.96
10/20/2023			0.69	<0.17 (U)	0.69		
4/9/2024				<0.17	0.84	0.5	0.91
4/11/2024	<0.17	4.8	<0.17				
10/16/2024						0.35 (J)	0.83
10/17/2024	0.2 (J)	1.4	0.59	<0.17	0.65		
4/2/2025	<0.17 (U)			<0.17 (U)	0.55		
4/3/2025			27			0.39 (J)	0.86
4/4/2025		1.8					
Mean	0.275	2.625	3.967	0.1913	0.81	0.4325	0.89
Std. Dev.	0.1871	1.855	9.317	0.04486	0.295	0.1019	0.05715
Upper Lim.	0.4569	6.3	4.852	0.3	1.086	0.5406	1.02
Lower Lim.	0.1206	1.4	0.1377	0.17	0.547	0.3244	0.7602

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: Lithium Analysis Run 6/4/2025 3:09 PM

Sutherland Generating Station Client: SCS Engineers Data: Sutherland

Confidence Interval

Constituent: Lithium (ug/L) Analysis Run 6/4/2025 3:14 PM

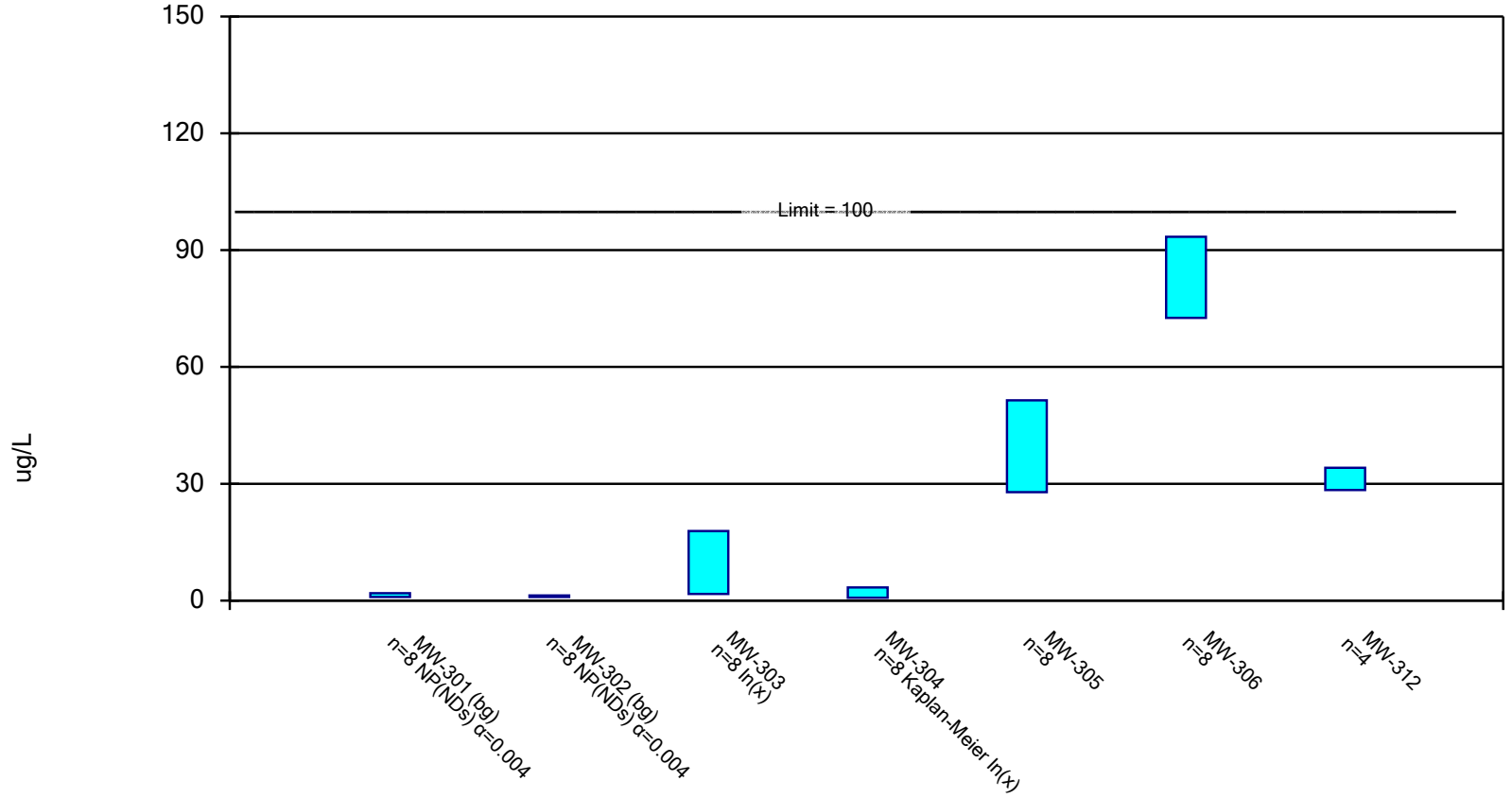
Sutherland Generating Station Client: SCS Engineers Data: Sutherland

	MW-301 (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-312
10/26/2021	2.8 (J)	2.9 (J)	20	6.8 (J)	35	55	
4/21/2022				<2.5 (U)	32	52	
4/22/2022	3 (J)	2.5 (J)	7.8 (J)				
10/10/2022		2.8 (J)	19				
10/11/2022				6.8 (J)	37		
10/12/2022	3.3 (J)					63	
4/10/2023		2.8 (J)	16				
4/11/2023	2.8 (J)			<2.5 (U)	22		58
4/12/2023						59	
10/18/2023	3.1 (J)	2.8 (J)					
10/19/2023						62	66
10/20/2023			21	6.3 (J)	36		
4/9/2024				7.8 (J)	38	58	75
4/11/2024	3.7 (J)	4.3 (J)	20				
10/16/2024						66	58
10/17/2024	3.3 (J)	3 (J)	21	2.8 (J)	42		
4/2/2025	4.5 (J)			<2.9 (U)	24		
4/3/2025			21			53	53
4/4/2025		3.5 (J)					
Mean	3.313	3.075	18.23	4.8	33.25	58.5	62
Std. Dev.	0.5643	0.5701	4.53	2.313	6.944	4.986	8.631
Upper Lim.	3.873	4.3	21	7.8	40.61	63.78	76.46
Lower Lim.	2.768	2.5	7.8	2.5	25.89	53.22	47.54

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 6/4/2025 3:10 PM

Sutherland Generating Station Client: SCS Engineers Data: Sutherland

Confidence Interval

Constituent: Molybdenum (ug/L) Analysis Run 6/4/2025 3:14 PM

Sutherland Generating Station Client: SCS Engineers Data: Sutherland

	MW-301 (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-312
10/26/2021	<1.3 (U)	<1.3 (U)	5.9	<1.3 (U)	55	66	
4/21/2022				<1.2 (U)	42	83	
4/22/2022	<1.2 (U)	<1.2 (U)	2.4				
10/10/2022		<1.2 (U)	5.3				
10/11/2022				2.5	48		
10/12/2022	<1.2 (U)					81	
4/10/2023		0.91 (J)	4.7				
4/11/2023	1.9 (J)			<0.91 (U)	27		
4/12/2023						76	
10/18/2023	<0.91 (U)	<0.91 (U)					
10/19/2023						100	33
10/20/2023			16	3.8	48		
4/9/2024				5.8	39	86	31
4/11/2024	<1.3	<1.3	<1.3				
10/16/2024						89	31
10/17/2024	<1.3	<1.3	15	<1.3	36		
4/2/2025	<1.3 (U)			<1.3 (U)	22		
4/3/2025			16			83	30
4/4/2025		<1.3 (U)					
Mean	1.301	1.177	8.244	2.264	39.63	83	31.25
Std. Dev.	0.2757	0.1708	6.375	1.718	11.12	9.827	1.258
Upper Lim.	1.9	1.3	17.88	3.352	51.41	93.42	34.11
Lower Lim.	0.91	0.91	1.713	0.7225	27.84	72.58	28.39

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

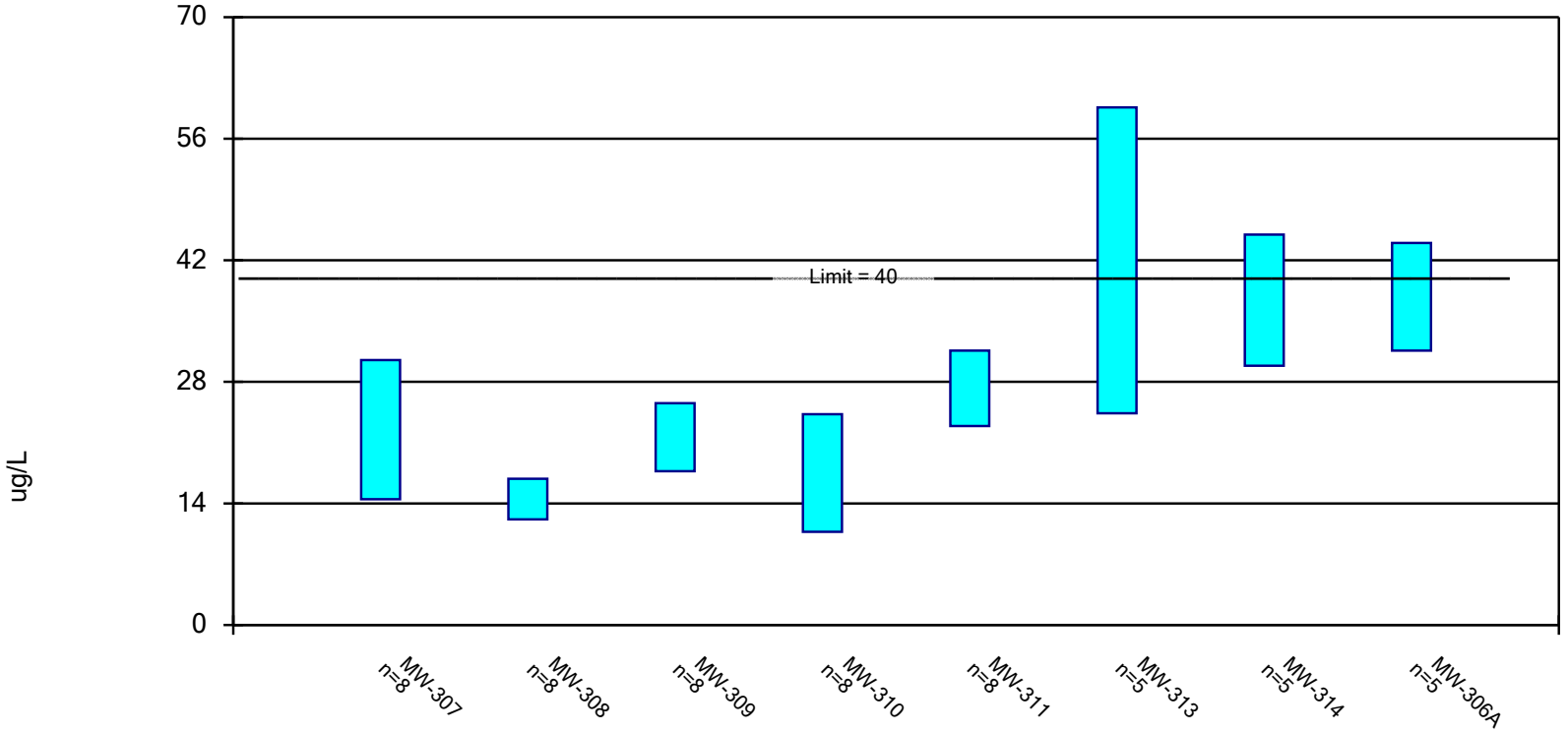
Sutherland Generating Station Client: SCS Engineers Data: Sutherland Printed 6/4/2025, 3:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Lithium (ug/L)	MW-307	30.51	14.49	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-308	16.84	12.16	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-309	25.55	17.7	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-310	24.28	10.72	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-311	31.59	22.91	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-313	59.61	24.39	40	No	5	0	No	0.01	Param.
Lithium (ug/L)	MW-314	44.95	29.85	40	No	5	0	No	0.01	Param.
Lithium (ug/L)	MW-306A	44	31.6	40	No	5	0	No	0.01	Param.

08/27/2026 - Classification: Internal - ECRM13799659

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/4/2025 3:14 PM

Sutherland Generating Station Client: SCS Engineers Data: Sutherland

Confidence Interval

Constituent: Lithium (ug/L) Analysis Run 6/4/2025 3:20 PM

Sutherland Generating Station Client: SCS Engineers Data: Sutherland

	MW-307	MW-308	MW-309	MW-310	MW-311	MW-313	MW-314	MW-306A
12/9/2021	22	11						
4/21/2022	26	15						
5/12/2022			17	20	25			
8/11/2022			26	19	31			
10/10/2022	22	14						
10/11/2022			24	18	29			
4/10/2023	24							
4/11/2023			21	4 (J)	20			
4/12/2023						25		38
4/13/2023		12					32	
10/18/2023	11	16						39
10/19/2023						44	35	
10/20/2023			17	20	33			
4/9/2024								43
4/10/2024	37	17	26	25	29	44	37	
10/14/2024	22	14						
10/15/2024			19	21	26	43	44	36
4/1/2025						54	39	
4/2/2025	16		23	13	25			
4/3/2025								33
4/4/2025		17						
Mean	22.5	14.5	21.63	17.5	27.25	42	37.4	37.8
Std. Dev.	7.559	2.204	3.701	6.392	4.097	10.51	4.506	3.701
Upper Lim.	30.51	16.84	25.55	24.28	31.59	59.61	44.95	44
Lower Lim.	14.49	12.16	17.7	10.72	22.91	24.39	29.85	31.6

E2 LCL Evaluation – October 2025 Event

08/27/2026 - Classification: Internal - ECRM13799659

Confidence Interval

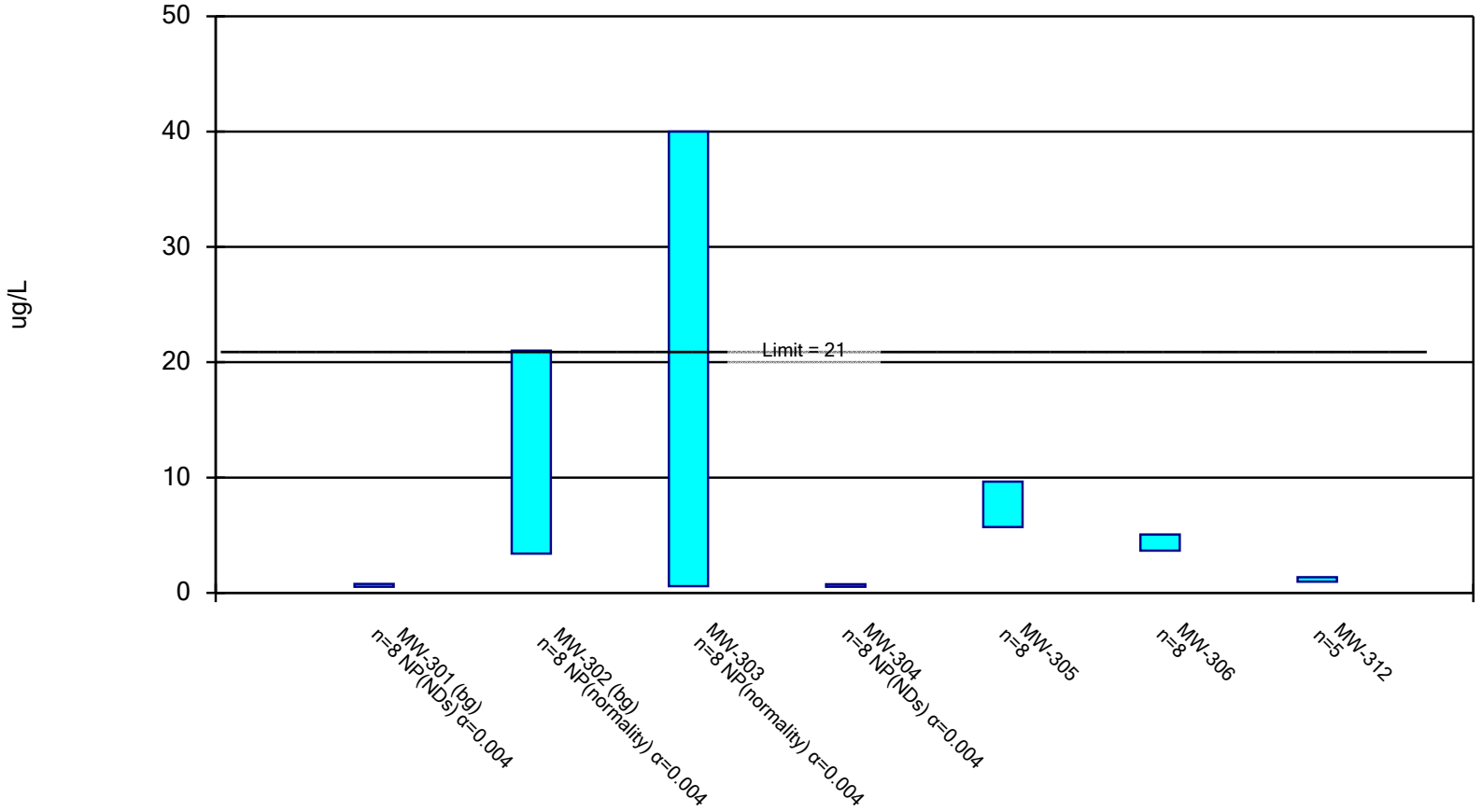
Sutherland Generating Station Client: SCS Engineers Data: Sutherland Printed 2/6/2026, 9:41 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (ug/L)	MW-301 (bg)	0.77	0.53	21	No	8	87.5	No	0.004	NP (NDs)
Arsenic (ug/L)	MW-302 (bg)	21	3.4	21	No	8	0	No	0.004	NP (normality)
Arsenic (ug/L)	MW-303	40	0.58	21	No	8	0	No	0.004	NP (normality)
Arsenic (ug/L)	MW-304	0.75	0.53	21	No	8	87.5	No	0.004	NP (NDs)
Arsenic (ug/L)	MW-305	9.646	5.704	21	No	8	0	No	0.01	Param.
Arsenic (ug/L)	MW-306	5.063	3.662	21	No	8	0	No	0.01	Param.
Arsenic (ug/L)	MW-312	1.351	0.9689	21	No	5	0	No	0.01	Param.
Cobalt (ug/L)	MW-301 (bg)	0.4173	0.1549	17.3	No	8	37.5	ln(x)	0.01	Param.
Cobalt (ug/L)	MW-302 (bg)	6.3	1.1	17.3	No	8	0	No	0.004	NP (normality)
Cobalt (ug/L)	MW-303	4.836	0.1371	17.3	No	8	12.5	ln(x)	0.01	Param.
Cobalt (ug/L)	MW-304	0.19	0.17	17.3	No	8	100	No	0.004	NP (NDs)
Cobalt (ug/L)	MW-305	1.088	0.5506	17.3	No	8	0	ln(x)	0.01	Param.
Cobalt (ug/L)	MW-306	0.4914	0.3211	17.3	No	8	0	No	0.01	Param.
Cobalt (ug/L)	MW-312	0.9763	0.7717	17.3	No	5	0	No	0.01	Param.
Lithium (ug/L)	MW-301 (bg)	4.256	2.819	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-302 (bg)	3.748	2.527	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-303	23	7.8	40	No	8	0	No	0.004	NP (normality)
Lithium (ug/L)	MW-304	7.8	2.5	40	No	8	37.5	No	0.004	NP (normality)
Lithium (ug/L)	MW-305	41.91	26.09	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	**MW-306**	**99**	**52**	**40**	**Yes**	**8**	**0**	**No**	**0.004**	**NP (normality)**
Lithium (ug/L)	**MW-312**	**72.17**	**50.49**	**40**	**Yes**	**6**	**0**	**No**	**0.01**	**Param.**
Molybdenum (ug/L)	MW-301 (bg)	1.9	0.91	100	No	8	75	No	0.004	NP (normality)
Molybdenum (ug/L)	MW-302 (bg)	1.3	0.91	100	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (ug/L)	MW-303	18	0.65	100	No	8	12.5	No	0.004	NP (normality)
Molybdenum (ug/L)	MW-304	3.352	0.7225	100	No	8	50	ln(x)	0.01	Param.
Molybdenum (ug/L)	MW-305	47.42	27.83	100	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-306	92.47	76.28	100	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-312	33.64	27.56	100	No	5	0	No	0.01	Param.

08/27/2026 - Classification: Internal - ECRM13799659

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: Arsenic Analysis Run 2/6/2026 9:35 AM

Sutherland Generating Station Client: SCS Engineers Data: Sutherland

Confidence Interval

Constituent: Arsenic (ug/L) Analysis Run 2/6/2026 9:41 AM

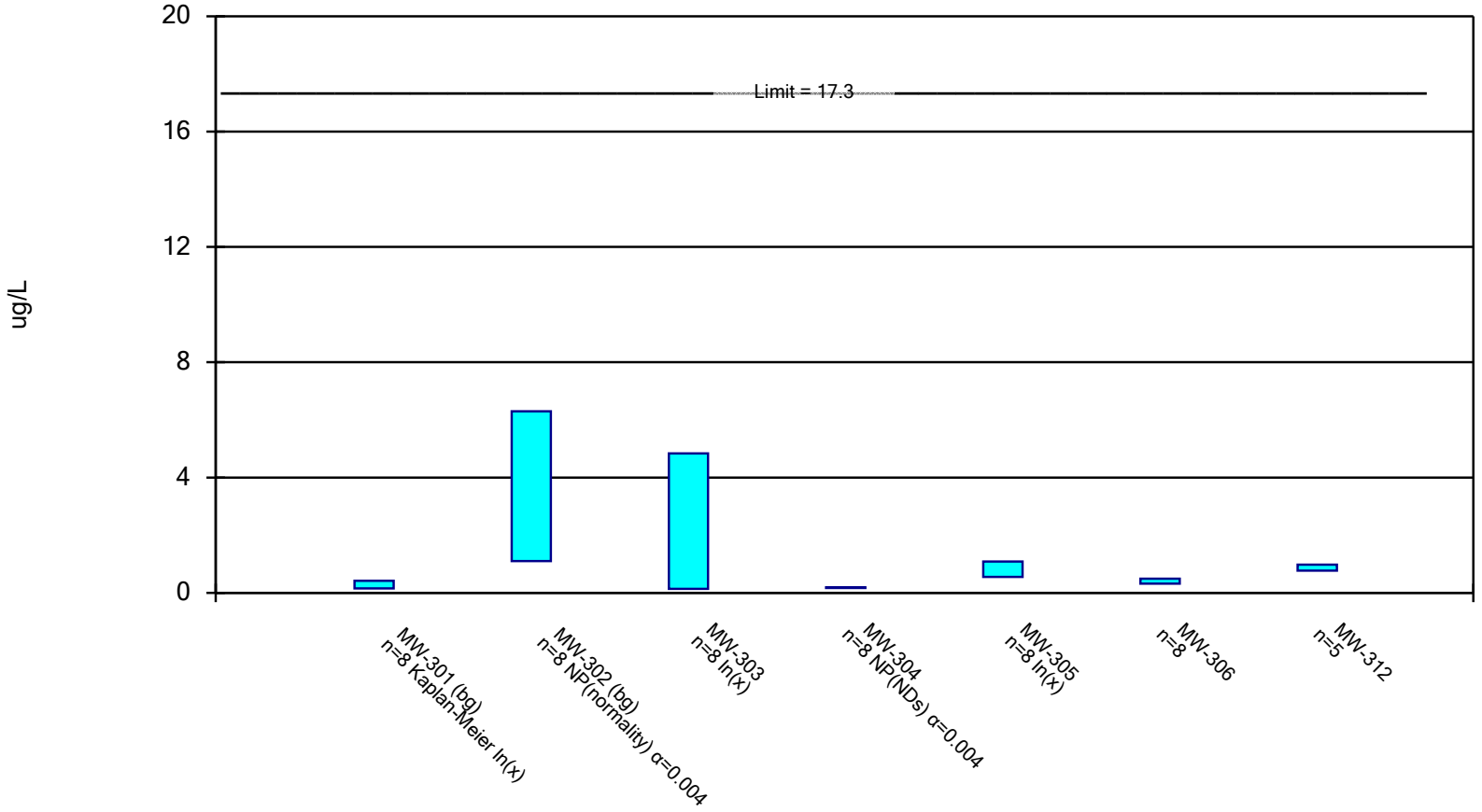
Sutherland Generating Station Client: SCS Engineers Data: Sutherland

	MW-301 (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-312
4/21/2022				<0.75 (U)	7.1	4	
4/22/2022	<0.75 (U)	21	1.9 (J)				
10/10/2022		4.5	2.5				
10/11/2022				<0.75 (U)	8.4		
10/12/2022	<0.75 (U)					4.1	
4/10/2023		3.9	0.58 (J)				
4/11/2023	0.77 (J)			<0.53 (U)	5.8		
4/12/2023						3.5	
10/18/2023	<0.53 (U)	3.8					
10/19/2023						4.5	1.2 (J)
10/20/2023			2	<0.53 (U)	10		
4/9/2024				<0.53	8.3	4.4	1.1 (J)
4/11/2024	<0.53	6.2	0.64 (J)				
10/16/2024						4.4	1 (J)
10/17/2024	<0.53	6.2	1.8 (J)	<0.53	7.2		
4/2/2025	<0.53 (U)			<0.53 (U)	4.7		
4/3/2025			40			4.2	1.2 (J)
4/4/2025		3.8					
10/14/2025						5.8	
10/15/2025							1.3 (J)
10/16/2025				0.53 (J)	9.9		
10/17/2025	<0.53 (U)	3.4	2.1				
Mean	0.615	6.6	6.44	0.585	7.675	4.363	1.16
Std. Dev.	0.1175	5.92	13.58	0.1018	1.859	0.661	0.114
Upper Lim.	0.77	21	40	0.75	9.646	5.063	1.351
Lower Lim.	0.53	3.4	0.58	0.53	5.704	3.662	0.9689

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: Cobalt Analysis Run 2/6/2026 9:35 AM

Sutherland Generating Station Client: SCS Engineers Data: Sutherland

Confidence Interval

Constituent: Cobalt (ug/L) Analysis Run 2/6/2026 9:41 AM

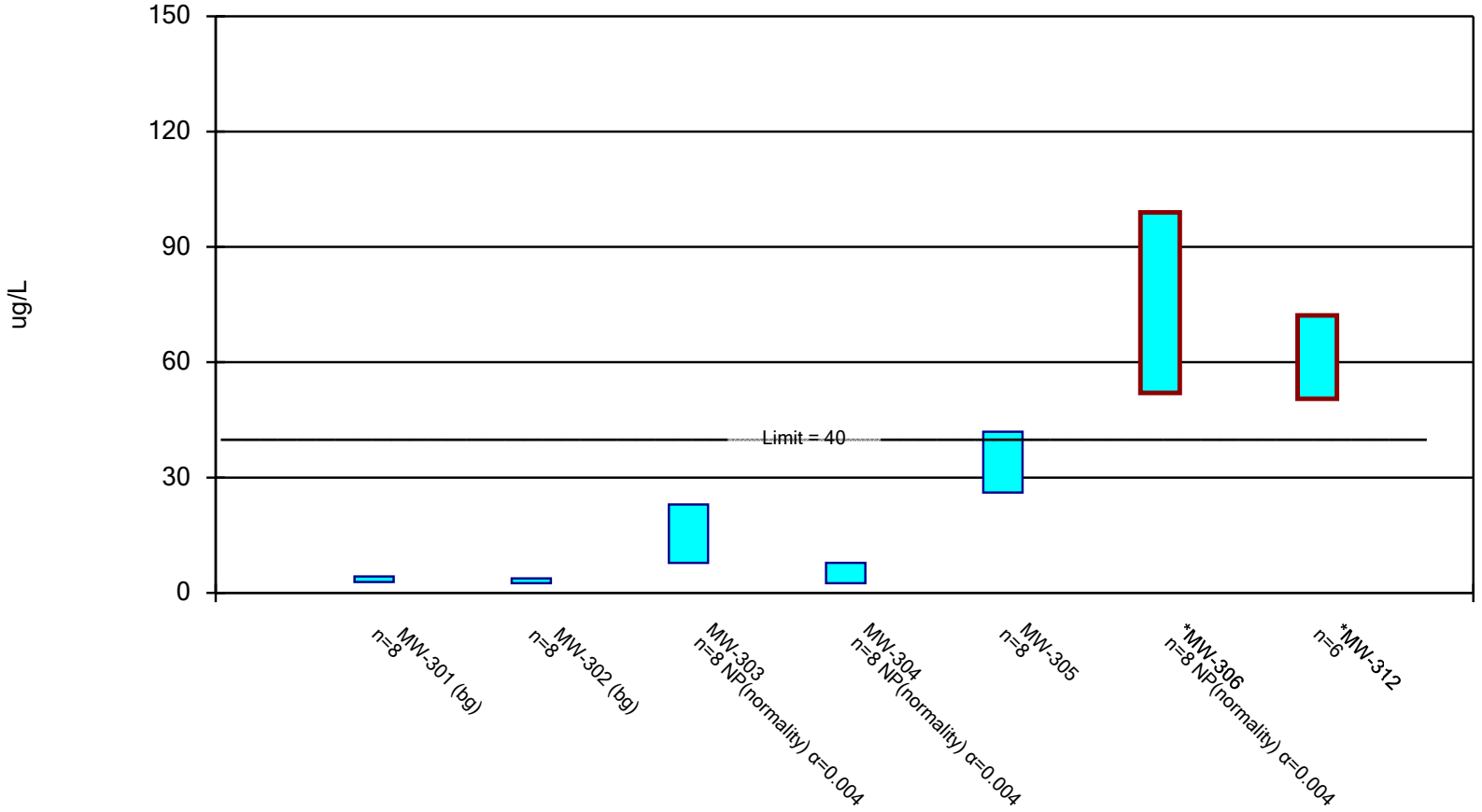
Sutherland Generating Station Client: SCS Engineers Data: Sutherland

	MW-301 (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-312
4/21/2022				<0.19 (U)	1.4	0.54	
4/22/2022	0.63	6.3	1.4				
10/10/2022		1.8	1.1				
10/11/2022				<0.19 (U)	0.62		
10/12/2022	0.25 (J)					0.42 (J)	
4/10/2023		1.5	0.21 (J)				
4/11/2023	0.47 (J)			<0.17 (U)	1.1		
4/12/2023						0.38 (J)	
10/18/2023	0.24 (J)	1.8					
10/19/2023						0.29 (J)	0.96
10/20/2023			0.69	<0.17 (U)	0.69		
4/9/2024				<0.17	0.84	0.5	0.91
4/11/2024	<0.17	4.8	<0.17				
10/16/2024						0.35 (J)	0.83
10/17/2024	0.2 (J)	1.4	0.59	<0.17	0.65		
4/2/2025	<0.17 (U)			<0.17 (U)	0.55		
4/3/2025			27			0.39 (J)	0.86
4/4/2025		1.8					
10/14/2025						0.38 (J)	
10/15/2025							0.81
10/16/2025				<0.17 (U)	0.65		
10/17/2025	<0.17 (U)	1.1	0.64				
Mean	0.2556	2.563	3.964	0.175	0.8125	0.4063	0.874
Std. Dev.	0.1989	1.903	9.318	0.009258	0.2933	0.08035	0.06107
Upper Lim.	0.4173	6.3	4.836	0.19	1.088	0.4914	0.9763
Lower Lim.	0.1549	1.1	0.1371	0.17	0.5506	0.3211	0.7717

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: Lithium Analysis Run 2/6/2026 9:35 AM

Sutherland Generating Station Client: SCS Engineers Data: Sutherland

Confidence Interval

Constituent: Lithium (ug/L) Analysis Run 2/6/2026 9:41 AM

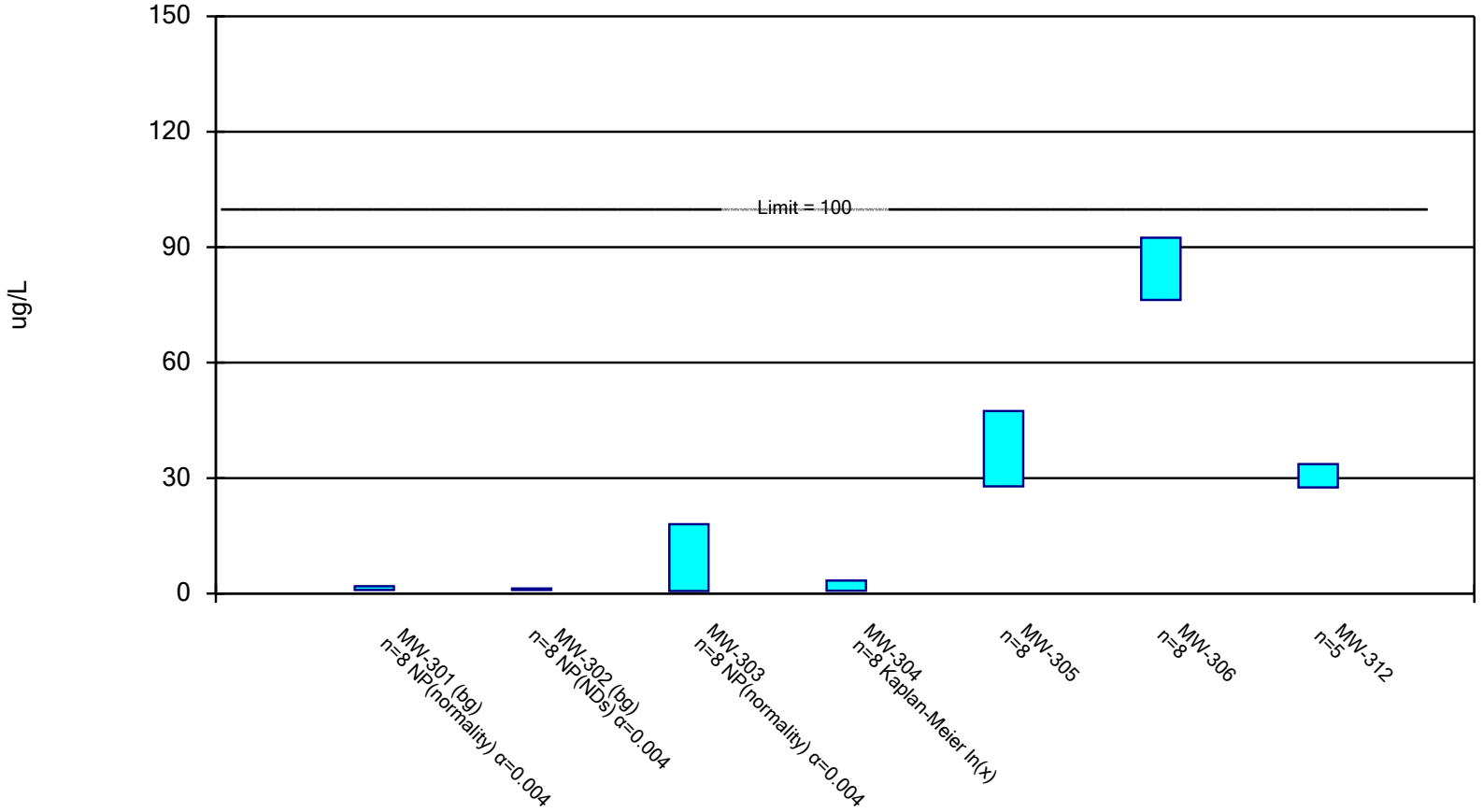
Sutherland Generating Station Client: SCS Engineers Data: Sutherland

	MW-301 (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-312
4/21/2022				<2.5 (U)	32	52	
4/22/2022	3 (J)	2.5 (J)	7.8 (J)				
10/10/2022		2.8 (J)	19				
10/11/2022				6.8 (J)	37		
10/12/2022	3.3 (J)					63	
4/10/2023		2.8 (J)	16				
4/11/2023	2.8 (J)			<2.5 (U)	22		58
4/12/2023						59	
10/18/2023	3.1 (J)	2.8 (J)					
10/19/2023						62	66
10/20/2023			21	6.3 (J)	36		
4/9/2024				7.8 (J)	38	58	75
4/11/2024	3.7 (J)	4.3 (J)	20				
10/16/2024						66	58
10/17/2024	3.3 (J)	3 (J)	21	2.8 (J)	42		
4/2/2025	4.5 (J)			<2.9 (U)	24		
4/3/2025			21			53	53
4/4/2025		3.5 (J)					
10/14/2025						99	
10/15/2025							58
10/16/2025				3.5 (J)	41		
10/17/2025	4.6 (J)	3.4 (J)	23				
Mean	3.538	3.138	18.6	4.388	34	64	61.33
Std. Dev.	0.6781	0.5755	4.813	2.196	7.464	14.93	7.891
Upper Lim.	4.256	3.748	23	7.8	41.91	99	72.17
Lower Lim.	2.819	2.527	7.8	2.5	26.09	52	50.49

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 2/6/2026 9:35 AM

Sutherland Generating Station Client: SCS Engineers Data: Sutherland

Confidence Interval

Constituent: Molybdenum (ug/L) Analysis Run 2/6/2026 9:41 AM

Sutherland Generating Station Client: SCS Engineers Data: Sutherland

	MW-301 (bg)	MW-302 (bg)	MW-303	MW-304	MW-305	MW-306	MW-312
4/21/2022				<1.2 (U)	42	83	
4/22/2022	<1.2 (U)	<1.2 (U)	2.4				
10/10/2022		<1.2 (U)	5.3				
10/11/2022				2.5	48		
10/12/2022	<1.2 (U)					81	
4/10/2023		0.91 (J)	4.7				
4/11/2023	1.9 (J)			<0.91 (U)	27		
4/12/2023						76	
10/18/2023	<0.91 (U)	<0.91 (U)					
10/19/2023						100	33
10/20/2023			16	3.8	48		
4/9/2024				5.8	39	86	31
4/11/2024	<1.3	<1.3	<1.3				
10/16/2024						89	31
10/17/2024	<1.3	<1.3	15	<1.3	36		
4/2/2025	<1.3 (U)			<1.3 (U)	22		
4/3/2025			16			83	30
4/4/2025		<1.3 (U)					
10/14/2025						77	
10/15/2025							28
10/16/2025				1.3 (J)	39		
10/17/2025	1.3 (J)	<1.3 (U)	18				
Mean	1.301	1.177	9.756	2.264	37.63	84.38	30.6
Std. Dev.	0.2757	0.1708	7.13	1.718	9.242	7.633	1.817
Upper Lim.	1.9	1.3	18	3.352	47.42	92.47	33.64
Lower Lim.	0.91	0.91	0.65	0.7225	27.83	76.28	27.56

08/27/2026 - Classification: Internal - ECRM13799659

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

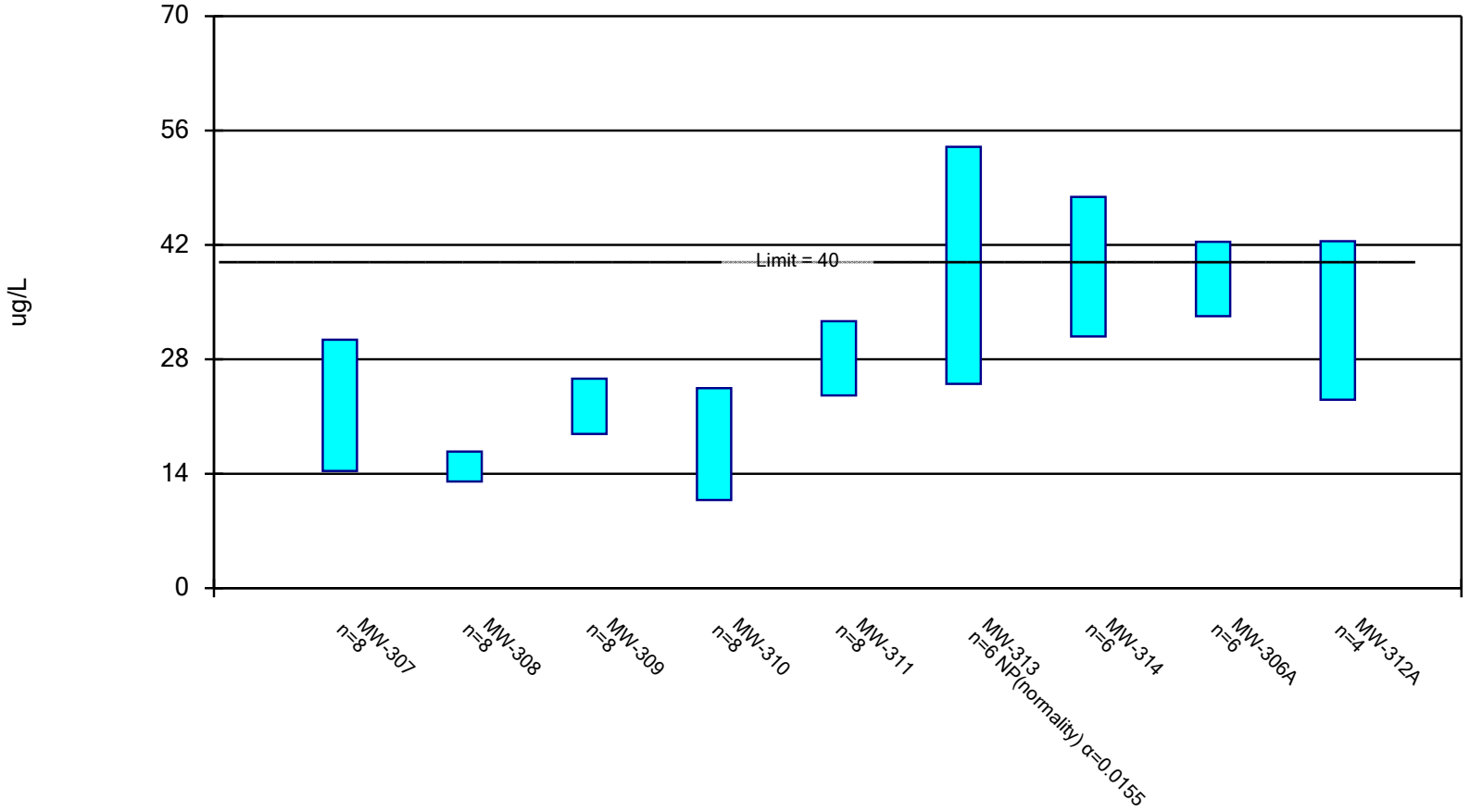
Sutherland Generating Station Client: SCS Engineers Data: Sutherland Printed 1/6/2026, 3:13 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Lithium (ug/L)	MW-307	30.41	14.34	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-308	16.71	13.04	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-309	25.64	18.86	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-310	24.47	10.78	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-311	32.67	23.58	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-313	54	25	40	No	6	0	No	0.0155	NP (normality)
Lithium (ug/L)	MW-314	47.88	30.79	40	No	6	0	No	0.01	Param.
Lithium (ug/L)	MW-306A	42.38	33.28	40	No	6	0	No	0.01	Param.
Lithium (ug/L)	MW-312A	42.45	23.05	40	No	4	0	No	0.01	Param.

08/27/2026 - Classification: Internal - ECRM13799659

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 1/6/2026 3:11 PM

Sutherland Generating Station Client: SCS Engineers Data: Sutherland

Confidence Interval

Constituent: Lithium (ug/L) Analysis Run 1/6/2026 3:13 PM

Sutherland Generating Station Client: SCS Engineers Data: Sutherland

	MW-307	MW-308	MW-309	MW-310	MW-311	MW-313	MW-314	MW-306A	MW-312A
4/21/2022	26	15							
8/11/2022			26	19	31				
10/10/2022	22	14							
10/11/2022			24	18	29				
4/10/2023	24								
4/11/2023			21	4 (J)	20				
4/12/2023						25		38	
4/13/2023		12					32		
10/18/2023	11	16						39	
10/19/2023						44	35		
10/20/2023			17	20	33				
4/9/2024								43	38
4/10/2024	37	17	26	25	29	44	37		
10/14/2024	22	14							
10/15/2024			19	21	26	43	44	36	
10/16/2024									34
4/1/2025						54	39		
4/2/2025	16		23	13	25				
4/3/2025								33	28
4/4/2025		17							
10/15/2025	21							38	31
10/16/2025		14				43	49		
10/17/2025			22	21	32				
Mean	22.38	14.88	22.25	17.63	28.13	42.17	39.33	37.83	32.75
Std. Dev.	7.577	1.727	3.196	6.457	4.291	9.411	6.218	3.312	4.272
Upper Lim.	30.41	16.71	25.64	24.47	32.67	54	47.88	42.38	42.45
Lower Lim.	14.34	13.04	18.86	10.78	23.58	25	30.79	33.28	23.05