

2025 Annual Groundwater Monitoring and Corrective Action Report

Burlington Generating Station
Burlington, Iowa

Prepared for:

Alliant Energy



SCS ENGINEERS

25225066.00 | January 30, 2026

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OVERVIEW OF CURRENT STATUS

Burlington Generating Station, Impoundments 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 Burlington Generating Station (BGS) impoundments is a multi-unit system. 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)	<p>(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):</p> <p>(A) Identify those constituents listed in Appendix III to this part and the names of the monitoring wells associated with such an increase; and</p>	<p>SSIs initially determined on January 15, 2018, based on October 2017 monitoring results. In October 2024 and April 2025, SSIs for compliance wells at the waste boundary included the following; see Table 5A and 5B for complete results.</p> <p><u>October 2024</u> Boron: MW-301, MW-302, MW-303, MW-304, MW-308, MW-309 Calcium: MW-302 Fluoride: MW-302, MW-303, MW-304, MW-305 Field pH: MW-306, MW-307 Sulfate: MW-301, MW-302, MW-308 Total Dissolved Solids (TDS): MW-301, MW-302, MW-308</p> <p><u>April 2025</u> Boron: MW-301, MW-303, MW-304, MW-307, MW-308, MW-309 Calcium: MW-301</p>

Category	Rule Requirement	Site Status
		Field pH: MW-306, MW-307, MW-308 Sulfate: MW-301 TDS: MW-301
	(B) Provide the date when the assessment monitoring program was initiated for the CCR unit.	July 16, 2018
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 GPS in January 2019 at monitoring wells MW-302, MW-303, MW-304, MW-306, MW-307, and MW-308. In October 2024 and April 2025 events, compliance wells with concentrations determined to be at SSL above the GPS as follows: <u>October 2024</u> MW-302, MW-304, MW-307, MW-308 <u>April 2025</u> MW-302, MW-304, MW-307, MW-308 Molybdenum: Initially determined to be at SSL above GPS in January 2019 at monitoring wells MW-301, MW-302, MW-304, MW-307, and MW-308. In October 2023 and April 2024 events, compliance wells with concentrations determined to be at SSL above the GPS as follows: <u>October 2024</u> MW-303 <u>April 2025</u> MW-303

Category	Rule Requirement	Site Status
	(B) Provide the date when the assessment of corrective measures was initiated for the CCR unit;	April 15, 2019
	(C) Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit; and	October 14, 2020 A public meeting was held prior to remedy selection on July 26, 2023.
	(D) Provide the date when the assessment of corrective measures was completed for the CCR unit.	September 12, 2019 - Original Assessment of Corrective Measures (ACM) November 24, 2020 – Addendum No. 1 to ACM
Selection of Remedy	(v) Whether a remedy was selected pursuant to §257.97 during the current annual reporting period, and if so, the date of remedy selection; and	Selection of remedy was complete as of December 31, 2023.
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, conducting a full-scale pumping test and performing a leach study 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) Rule (40 Code of Federal Regulations [CFR] 257.50-107). Specifically, this report was prepared to fulfill the requirements of 40 CFR 257.90(e). The applicable sections of the Rule are provided below in italics, followed by applicable information relative to the 2025 Annual Groundwater Monitoring and Corrective Action Report for the CCR Units. The Burlington Generating Station (BGS) site location is shown on **Figure 1**.

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

The groundwater monitoring system at the BGS impoundments is a multi-unit system. The BGS facility includes four existing CCR units:

- BGS Ash Seal Pond (existing CCR surface impoundment)
- BGS Main Ash Pond (existing CCR surface impoundment)
- BGS Economizer Ash Pond (existing CCR surface impoundment)
- BGS Upper Ash Pond (existing CCR surface impoundment)

The multi-unit system is designed to detect monitored constituents at the waste boundary of the facility as required by 40 CFR 257.91(d). The groundwater monitoring system currently consists of two upgradient background monitoring wells, nine downgradient compliance wells at the waste boundary, two supplemental background wells, and seven additional downgradient delineation wells (**Figure 2** and **Table 1**).

The Selection of Remedy (SOR) Report was completed on December 31, 2023. The SOR Report identified the following remedies which meet the criteria established in the CCR Rule:

- Stopping all CCR and wastewater discharges to the BGS ash ponds.
- Closing the pond with CCR in place according to 40 CFR 257.102(d).
- Implementing groundwater extraction with treatment for molybdenum and lithium.

Ceasing of wastewater discharges was completed as of October 2022. Consolidation and covering of CCR material on site continued in 2024 as described in the BGS Written Closure Plan updated June 13, 2024. Work to implement a groundwater extraction and treatment system continued in 2025 as described in this report.

In early 2025, closure activities completed included cover repairs for utility pole install.

2.0 BACKGROUND

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

- Geologic and hydrogeologic setting
- CCR Rule monitoring system

2.1 GEOLOGIC AND HYDROGEOLOGIC SETTING

2.1.1 Regional Information

The uppermost geologic formation beneath the Burlington plant that meets the definition of the “uppermost aquifer,” as defined under 40 CFR 257.53, is the surficial alluvial aquifer. The alluvial aquifer is comprised of Mississippi River valley clay, silt, sand, and sand and gravel deposits. This deposit is present along the edges of the entire Mississippi River valley in southeastern Iowa. A map of the regional glacial geology in the area is included in **Appendix A**.

Regionally, the uppermost bedrock is Mississippian Limestone. A bedrock geology map of the area is located in **Appendix A**. The limestone bedrock is also an aquifer and is likely hydraulically connected to the alluvial aquifer above. Locally, the Mississippian Limestone is absent in some areas due to erosion, and where it is absent the uppermost bedrock is the Devonian-Mississippian Aquaclude (shale, siltstone, and mudstone).

The regional groundwater flow direction is generally east, from the bedrock uplands west of the site toward the Mississippi River. A map of regional flow in the Mississippian aquifer is included in **Appendix A**.

2.1.2 Site Information

Monitoring wells MW-301 through MW-311 were installed in December 2015 through March 2016 as the initial monitoring system for the CCR units. The wells were installed to intersect the surficial alluvium aquifer at the site. The unconsolidated material at these well locations is generally clay and silt to approximately 20 feet below ground surface, and these fine-grained sediments are underlain by sand or silty sand. The total boring depths were between 24 and 34 feet, and bedrock was not encountered in any boring. Boring logs, well construction, and development documentation for MW-301 through MW-311 are included in **Appendix B**.

Monitoring wells MW-312 and MW-313 were installed in May 2019 as delineation wells to assess the downgradient extent of groundwater impacts. Both wells were installed near the Mississippi River. Both monitoring wells are screened near the top of the alluvial sands, below a confining clay layer. The total boring depths were 26 feet at MW-312 and 32 feet at MW-313. Boring logs, well construction, and development documentation for MW-312 and MW-313 are included in **Appendix B**.

Monitoring wells MW-302A, MW-307A, and MW-313A were installed in June and July 2020 as additional delineation wells to assess the downgradient vertical extent of groundwater impacts. They were installed as nested wells with MW-302, MW-307, and MW-313. Monitoring well MW-310A was installed in nest with upgradient well MW-310 to provide additional background groundwater information. The boring for well MW-310A encountered bedrock at 25 feet and the well is screened in Mississippian mudstone. The three downgradient delineation wells are screened in the alluvial sands. Total boring depths ranged from 50 to 62 feet. Boring logs, well construction, and development documentation for MW-302A, MW-307A, MW-310A, and MW-313A are included in **Appendix B**.

Monitoring wells MW-307B and MW-313B were installed in May 2021 as additional delineation wells to provide information on vertical groundwater flow and the vertical distribution of target groundwater quality parameters. Each new well was installed adjacent to pre-existing well pairs (MW-307/MW-307A and MW-313/MW-313A). Total boring depths ranged from 75 to 85 feet. Boring

logs, well construction, and development documentation for MW-307B and MW-313B are included in **Appendix B**.

Monitoring well MW-314 was installed in February 2022 as a supplemental background monitoring well to evaluate background conditions in the shallow groundwater at a location side-gradient from the CCR units, but in the same hydrogeologic environment as the compliance and delineation wells. Total boring depth of MW-314 is 24 feet. Boring log, well construction, and development documentation for MW-314 are included in **Appendix B**.

Shallow groundwater at the site generally flows to the east and southeast, toward the Mississippi River. The shallow potentiometric surface elevations and groundwater flow direction in April 2025 are shown on **Figure 3**. In April 2025, shallow groundwater flow converged from the west and east toward the center of the site. Flow from the eastern side of the site toward the west may be caused by the elevation of the river, which has historically been observed in April sampling events. The deeper groundwater flow direction for April 2025 was to the southeast to the river and is shown on **Figure 4**.

The shallow groundwater flow direction during October 2025 was to the southeast and is shown on **Figure 5**. The deeper groundwater flow for October 2025 was to the southeast to the river and is shown on **Figure 6**.

The groundwater elevation data for the CCR monitoring wells are provided in **Table 3**. Estimated horizontal gradients and flow velocities are provided in **Table 4A**. Calculated vertical gradients for the nested wells are provided in **Table 4B**.

2.2 CCR RULE MONITORING SYSTEM

The groundwater monitoring system initially established in accordance with the CCR Rule consists of two upgradient (background) monitoring wells and nine downgradient monitoring wells. The background wells include MW-310 and MW-311. The nine downgradient wells include MW-301, MW-302, MW-303, MW-304, MW-305, MW-306, MW-307, MW-308, and MW-309. The CCR Rule wells are installed in the upper portion of the alluvial aquifer. Well depths range from approximately 19 to 35 feet, measured from the top of the well casing.

Temporary monitoring well TW-101 was installed during the dewatering activities on site and used for groundwater elevation monitoring only. TW-101 is not part of the CCR rule monitoring system. In June 2025, TW-101 was successfully rehabilitated by raising the casing to grade and placing a new concrete pad. The well may be used for groundwater elevation measurements when it is re-surveyed.

As described in **Section 2.1.2**, two supplemental background wells and nine downgradient delineation wells have been added to support the assessment of the nature and extent of lithium and molybdenum impacts in groundwater.

Although piezometer MW-310A is located upgradient of the CCR units, this supplemental background well has not been used in the statistical evaluation of background conditions because it is not installed in the same hydrostratigraphic unit as the downgradient wells. MW-310A is installed in a low permeability mudstone bedrock, and the other monitoring wells are installed in the overlying alluvial aquifer.

Supplemental background monitoring well MW-314 is located approximately 3,300 feet south of the CCR units and is not currently being used in the statistical analysis of background conditions.

3.0 §257.90(E) ANNUAL REPORT REQUIREMENTS

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

3.1 §257.90(e)(1) Site Map

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

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

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

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

There were no changes made to the monitoring system in 2025.

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

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

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

Groundwater samples collected in the April and October 2025 sampling events were analyzed for both Appendix III and Appendix IV constituents. Samples from the compliance wells at the waste boundary were analyzed for the full list of Appendix III and Appendix IV constituents. Samples from the delineation wells were analyzed for select Appendix IV parameters. Supplemental groundwater quality parameters were included in the monitoring program in 2025 to support the remedial design process.

The validation and evaluation of the October 2024 monitoring event data were completed and transmitted to IPL on February 20, 2025. The April 2025 monitoring event validation and evaluation were transmitted on August 28, 2025. The validation and evaluation of the October 2025 monitoring event data were in progress at the end of 2025 and will be transmitted to IPL in 2026; therefore, the October 2025 monitoring results will be included in the 2026 annual report. The October 2025 groundwater elevation data are included in this report.

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

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

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

The Corrective Action Groundwater Monitoring Program was established on March 29, 2024. In accordance with the program, assessment monitoring continued in 2025.

An Assessment of Corrective Measures (ACM) was initiated for the BGS CCR Units on April 15, 2019. The ACM was completed on September 12, 2019, and an addendum to the ACM was completed on November 24, 2020. The ACM was initiated in response to the detection of lithium and molybdenum at a statistically significant level (SSL) exceeding the Groundwater Protection Standards (GPS). Assessment monitoring continued during the ACM and will continue during implementation of the corrective action program.

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

Based on the LCL evaluations completed for the October 2024 and April 2025 events, SSLs above the GPS were identified for the following parameters in compliance wells:

- Lithium: MW-302, MW-304, MW-307, MW-308
- Molybdenum: MW-303

SSLs above the GPS for lithium have been identified previously for these wells. The evaluation of the October 2024 event was the first time molybdenum has been identified as an SSL above the GPS at MW-303; however, molybdenum has previously been identified as an SSL above the GPS for other wells, including MW-301, MW-304, MW-307, and MW-308. No SSLs above the GPS were identified for arsenic, cobalt, or thallium.

Because concentrations of arsenic in the upgradient background wells exceed the U.S. EPA's maximum contaminant level (MCL), the GPS for arsenic is established based on background conditions. Consistent with the single-sample GPS approach outlined in the Section 7.4 of the Unified Guidance, the GPS was established based on a background upper tolerance limit (UTL). To evaluate compliance with the background GPS, the LCL for the mean (or median if non-parametric) is compared to the background GPS. The original UTL calculation completed using Sanitas™ for the October 2021 monitoring event was included as an appendix to the 2022 Annual Groundwater and Corrective Action Report.

The comparison to background was based on a prediction limit approach, comparing the results to interwell upper prediction limits (UPLs) for Appendix III parameters and UTLs for Appendix IV parameters based on background monitoring results from the upgradient wells (MW-310 and MW-311). The interwell UPLs were most recently updated in August 2024 using background data collected through October 2023. The August 2024 interwell UPL and UTL update was included in the 2024 Annual Report.

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 (i.e., UPLs and UTLs) for both intrawell and interwell analyses. For semiannual monitoring, an update interval of 2 to 3 years is recommended.

3.5 §257.90(E)(5) OTHER REQUIREMENTS

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

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

3.5.1 §257.90(e) General Requirements

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

Status of Groundwater Monitoring and Corrective Action Program. Following the Selection of Remedy Report publication (December 31, 2023), the groundwater monitoring program was updated to a corrective action groundwater monitoring program in a plan dated March 29, 2024. Other corrective action activities to support remedy design included a pilot pumping test, full scale 72-hour pumping test, leach testing, and base-of-ash borings with the closure areas to aid in the design of a full-scale pumping and treat system.

Summary of Key Actions Completed:

- Prepared 2024 Annual Groundwater Monitoring and Corrective Action Report (January 2025).
- Completed statistical evaluation of the October 2024 assessment monitoring event and prepared groundwater monitoring results letter (February 2025).
- Completed two semiannual assessment monitoring events (April and October 2025).
- Completed statistical evaluation of the April 2025 assessment monitoring event and prepared a monitoring results letter (August 2025).
- Performed a full-scale 72-hour aquifer pump test.
- Evaluated results of full-scale aquifer test to support design of a full-scale groundwater extraction and treatment system.
- Continued groundwater extraction system design and further development of MODFLOW model to assist with the extraction system design.

Description of Any Problems Encountered:

- No problems were encountered during the 2025 semi-annual monitoring events.

Discussion of Actions to Resolve the Problems:

- Not applicable.

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

- Complete statistical evaluation and determination of any SSLs exceeding the GPS for the October 2025 monitoring event and prepare groundwater monitoring results letter (February 2026).
- Complete statistical evaluation and determination of any SSLs exceeding the GPS for the April 2026 monitoring event and prepare groundwater monitoring results letter.
- Complete two semiannual assessment monitoring events (April and October 2026).
- Continue development and implementation of MODFLOW model for design of a groundwater extraction and treatment system.
- Update conceptual site model based on additional findings during remedy design.
- Continue other design activities for the selected remedy.

3.5.2 §257.94(d) Alternative Detection Monitoring Frequency

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

Not applicable. BGS is no longer in the detection monitoring program.

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

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

Not applicable. BGS is no longer in the detection monitoring program.

3.5.4 §257.95(c) Alternative Assessment Monitoring Frequency

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

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

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

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

The October 2024 assessment monitoring results, background UPLs, and GPSs established for BGS are provided in **Table 5A**. The April 2025 assessment monitoring results, background UPLs and UTLs, and GPSs established for BGS are provided in **Table 5B**. The laboratory reports are provided in **Appendix C**. Historical monitoring results are summarized in **Appendix D**.

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

3.5.6 §257.95(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 evaluation for assessment monitoring was completed in 2025.

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

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

Not applicable. The ACM was initiated on April 15, 2019. The certification demonstrating the need for a 90-day deadline extension was completed on July 10, 2019, and was included in the 2019 annual groundwater monitoring and corrective action report. The ACM was completed on September 12, 2019. Addendum No. 1 to the ACM was completed on November 24, 2020. The Selection of Remedy Report was completed on December 31, 2023.

3.6 §257.90(E)(6) OVERVIEW

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

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

4.0 REFERENCES

SCS Engineers, Selection of Remedy, Burlington Generating Station, December 31, 2023.

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

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**Table 1. Groundwater Monitoring Well Network
Burlington Generating Station / SCS Engineers Project #25225066.00**

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

Last revision by: LH 11/14/2025
Checked by: RM 11/24/2025

**Table 2. CCR Rule Groundwater Samples Summary
Burlington Generating Station
SCS Engineers Project #25225066.00**

Sample Dates	Background Wells		Compliance Wells									Delineation Wells						Supplemental Background Wells*		
	MW-310	MW-311	MW-301	MW-302	MW-303	MW-304	MW-305	MW-306	MW-307	MW-308	MW-309	MW-307A	MW-307B	MW-302A	MW-312	MW-313	MW-313A	MW-313B	MW-310A	MW-314
April 28-29, 2025	A	A	A	A	A	A	A	A	A	A	A	A-NE	A-NE	A-NE	A-NE	A-NE	A-NE	A-NE	--	--
October 20-21, 2025	A	A	A	A	A	A	A	A	A	A	A	A-NE	A-NE	A-NE	A-NE	A-NE	A-NE	A-NE	--	--
Total Samples	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0

Abbreviations:

A = Assessment Monitoring Program

A-NE = Assessment monitoring for nature and extent, supplemental parameters

-- = Not Sampled

NI = Not Installed

* = used for water elevation measurements only

Last revision by: LH Date: 11/14/2025
 Checked by: RM Date: 12/1/2025

Table 3. Groundwater Elevation Summary
Burlington Generating Station / SCS Engineers Project #25225066.00

Well Number	MW-301	MW-302	MW-302A	MW-303	MW-304	MW-305	MW-306	MW-307	MW-307A	MW-307B	MW-308	MW-309	MW-310	MW-310A	MW-311	MW-312	MW-313	MW-313A	MW-313B	MW-314
April 20, 2016	522.63	521.91	NI	521.76	521.78	521.96	521.74	522.38	NI	NI	521.93	522.09	525.43	NI	523.72	NM	NM	NI	NI	NI
June 6 & 7, 2016	521.07	521.21	NI	521.26	521.28	521.48	521.43	521.75	NI	NI	521.43	521.39	524.13	NI	521.80	NM	NM	NI	NI	NI
August 16 & 17, 2016	521.81	521.35	NI	521.31	521.37	521.46	521.53	521.91	NI	NI	521.56	521.70	524.84	NI	522.92	NM	NM	NI	NI	NI
October 3, 2016	527.48	527.54	NI	527.57	527.57	527.71	527.67	527.81	NI	NI	527.62	527.57	527.58	NI	527.34	NM	NM	NI	NI	NI
January 9 & 10, 2017	525.38	525.50	NI	525.56	525.62	525.74	525.67	525.81	NI	NI	525.65	525.57	525.78	NI	525.16	NM	NM	NI	NI	NI
April 3 & 4, 2017	523.08	522.84	NI	522.81	522.87	523.03	523.07	523.14	NI	NI	523.07	523.10	525.52	NI	524.01	NM	NM	NI	NI	NI
June 12 & 13, 2017	523.21	522.84	NI	522.80	522.90	522.78	522.87	523.17	NI	NI	522.90	522.91	524.94	NI	523.55	NM	NM	NI	NI	NI
August 15 & 16, 2017	519.96	519.39	NI	519.30	519.23	519.93	519.82	520.16	NI	NI	519.80	519.93	523.89	NI	521.12	NM	NM	NI	NI	NI
October 16, 2017	522.13	522.20	NI	522.23	522.32	522.48	522.72	522.55	NI	NI	522.46	522.67	525.49	NI	523.44	NM	NM	NI	NI	NI
May 8 & 9, 2018	525.51	525.81	NI	525.80	525.85	526.06	526.00	526.06	NI	NI	525.62	525.54	525.79	NI	525.08	NM	NM	NI	NI	NI
August 13 & 14, 2018	520.19	519.87	NI	519.78	519.81	520.29	520.14	520.46	NI	NI	520.22	520.22	523.69	NI	521.06	NM	NM	NI	NI	NI
October 9 & 10, 2018	528.01	528.08	NI	528.78	528.82	528.97	528.95	529.08	NI	NI	528.98	528.93	529.00	NI	528.49	NM	NM	NI	NI	NI
March 11, 2019	523.38	522.83	NI	522.74	522.80	NM	523.21	523.49	NI	NI	523.13	NM	NM	NI	NM	NM	NM	NI	NI	NI
April 3, 2019	528.15	528.21	NI	528.22	528.27	528.36	528.40	528.63	NI	NI	528.39	528.40	528.62	NI	528.20	NM	NM	NI	NI	NI
June 6, 2019	530.70	531.02	NI	531.00	531.04	TOC	531.19	531.38	NI	NI	531.15	531.08	531.48	NI	531.07	531.08	531.05	NI	NI	NI
October 10 & 11, 2019	526.80	526.88	NI	526.87	526.97	527.03	527.22	527.45	NI	NI	527.08	527.02	526.25	NI	526.68	526.97	526.97	NI	NI	NI
June 2-4, 2020	523.94	523.98	NI	523.97	524.02	524.12	524.45	524.62	NI	NI	524.10	524.06	525.36	NI	524.05	524.05	524.02	NI	NI	NI
September 9, 2020	519.90	519.79	519.71	519.73	519.83	520.00	520.14	520.41	519.97	NI	520.11	520.13	524.13	509.16	520.87	519.85	519.83	519.76	NI	NI
October 14-16 & 19, 2020	519.26	518.94	518.79	518.78	518.69	519.00	519.05	519.33	519.00	NI	519.02	519.28	523.81	489.84	520.59	518.68	518.70	518.61	NI	NI
March 1-3, 2021	521.10	520.21	520.14	520.09	520.15	520.48	520.65	521.01	520.52	NI	520.70	520.75	--	487.06	522.89	520.12	520.18	520.02	NI	NI
April 19 - 20, 2021	522.87	522.27	522.25	522.13	522.24	522.31	522.52	522.89	522.39	NI	522.57	522.72	525.46	521.12	523.89	522.20	522.23	522.11	NI	NI
July 1, 2021	NM	NM	NM	NM	NM	NM	NM	NM	NM	520.12	NM	NM	NM	NM	NM	NM	NM	NM	519.51	NI
September 21-22, 2021	NM	NM	NM	NM	518.29	NM	NM	NM	NM	NM	NM	NM	524.42	NM	NM	NM	NM	NM	NM	NI
October 11-14, 2021	519.40	518.75	518.64	518.58	518.68	519.18	519.15	519.55	519.09	519.13	519.25	519.43	524.69	521.83	522.00	518.78	518.72	518.62	518.72	NI
February 22, 2022	NM	519.03	NM	NM	NM	NM	NM	519.74	519.32	519.37	NM	NM	NM	NM	NM	NM	518.91	518.81	518.88	NI
April 4-6, 2022	522.99	522.34	522.28	522.20	522.41	522.60	522.63	522.91	522.47	522.37	522.61	522.74	525.44	522.58	523.78	522.51	522.48	522.38	522.45	522.27
October 17, 2022	DRY	DRY	506.87	DRY	DRY	DRY	DRY	DRY	508.27	508.35	DRY	DRY	DRY	512.84	DRY	DRY	512.08	511.86	511.91	517.58
October 20, 2022	DRY	DRY	506.87	DRY	DRY	DRY	DRY	DRY	508.27	508.35	DRY	DRY	DRY	512.84	DRY	DRY	512.08	511.86	511.91	517.58
April 24-27, 2023	524.21	525.56	525.51	525.42	525.20	517.35	522.20	519.61	520.77	520.77	521.08	523.02	518.44	509.69	522.07	524.68	524.37	524.29	524.39	NM
July 31, 2023	518.30	518.26	518.20	518.15	518.20	518.16	518.16	518.37	519.70	518.25	518.38	518.34	520.39	517.83	518.63	518.13	518.19	518.08	518.14	518.31
August 1-3, 2023	518.33	518.19	518.09	517.91	518.19	518.03	518.07	518.04	519.42	518.20	518.22	518.22	520.29	490.83	518.28	517.93	518.09	518.00	518.01	518.28
October 2-5, 2023	518.33	518.19	518.12	518.06	518.08	518.00	518.13	518.30	519.61	518.14	520.25	518.42	520.39	517.75	518.68	518.03	518.18	518.05	518.12	518.02
April 23-25, 2024	521.23	520.85	520.78	520.89	520.90	520.96	520.89	521.08	522.38	520.96	521.36	521.18	523.93	521.84	522.23	520.93	520.87	520.87	520.92	520.95
October 22-23, 2024	518.38	517.99	517.97	518.16	518.27	518.30	518.42	518.80	520.05	518.57	518.65	518.30	522.94	521.18	519.64	518.15	518.12	518.20	518.24	518.18
April 28-29, 2025	521.89	522.14	522.07	522.21	522.22	522.28	521.15	522.13	523.64	522.22	522.32	522.06	523.24	521.63	522.28	522.43	522.36	522.24	522.27	521.61
October 20-21, 2025	518.69	518.39	518.42	518.49	518.44	518.36	518.37	518.62	519.89	518.45	518.71	518.62	522.79	520.89	519.45	518.57	518.44	518.29	518.39	518.43

Notes: Created by: MDB Date: 6/15/2016
 NM = not measured Last revision by: BLJ Date: 10/27/2025
 TOC = top of casing Checked by: NLB Date: 10/29/2025
 NI = not installed

I:\25225066.00\Deliverables\2025 - Annual CCR Report\Tables\[Table 3 - BGS GW Elevation Summary_2025.xls]levels

**Table 4A. Horizontal Gradients and Flow Velocity
Burlington Generating Station / SCS Engineers Project #25225066.00
January - December 2025**

Flow Path A - Shallow Potentiometric Surface						
Sampling Dates	h1 (ft)	h2 (ft)	Δl (ft)	Δh/Δl (ft/ft)	V (ft/d)	Direction
April 28-29, 2025	523.00	522.00	774	0.001	0.3	East-Southeast
October 20-21, 2025	520.00	518.62	759	0.002	0.5	East-Southeast

Flow Path B - Deeper Potentiometric Surface						
Sampling Dates	h1 (ft)	h2 (ft)	Δl (ft)	Δh/Δl (ft/ft)	V (ft/d)	Direction
April 28-29, 2025	523.64	522.50	544	0.002	0.5	Southeast
October 20-21, 2025	519.50	518.29	607	0.002	0.5	Southeast

Well	K Values (cm/sec)	K Values (ft/d)
MW-301	1.6E-03	4.4
MW-302	2.9E-02	82
MW-302A	4.9E-02	140
MW-303	8.3E-03	24
MW-304	6.0E-02	171
MW-305	6.1E-02	173
MW-306	1.0E-01	295
MW-307	8.5E-03	24
MW-307A	4.1E-02	116
MW-307B	6.2E-02	175
MW-308	7.6E-02	215
MW-309	1.2E-02	34
MW-310	3.7E-02	104
MW-310A	1.49E-07	0
MW-311	9.1E-03	26
MW-312	6.6E-02	187
MW-313	1.1E-01	298
MW-313A	1.2E-01	334
MW-313B	4.8E-02	135
Geometric Mean	3.5E-02	100

Assumed Porosity, n
0.40

ft = feet
ft/d = feet per day
K = hydraulic conductivity
n = effective porosity

h1, h2 = point interpreted groundwater elevation at locations 1 and 2
Δl = distance between location 1 and 2
Δh/Δl = hydraulic gradient
V = groundwater flow velocity

- MW-310, MW-310A, and MW-311 are background wells and are not included in geometric mean calculation
- See Figures 3, 4, 5 and 6 for velocity calculation flow path locations.

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

Last revision by: NLB
Checked by: LH

Date: 12/2/2025
Date: 12/2/2025

**Table 4B. Summary of Vertical Hydraulic Gradients
Burlington Generating Station / SCS Engineers Project #25225066.00**

Well Nest Location	Well Type	Top of Screen Elevation (ft amsl)	Bottom of Screen Elevation (ft amsl)	April 2025					October 2025					
				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-302	WT	510.7	505.7	522.14	508.2	0.07	46.3	0.002	518.39	508.2	-0.03	42.6	-0.001	
MW-302A	P	478.3	473.3	522.07	475.8				518.42	475.8				
MW-307	WT	510.3	505.3	522.13	507.8	-1.51	48.4	-0.031	518.62	507.8	-1.27	44.9	-0.028	
MW-307A	P	476.2	471.2	523.64	473.7				519.89	473.7				
MW-307A	P	476.2	471.2	523.64	473.7	1.42	65.9	0.022	519.89	473.7	1.44	62.4	0.023	
MW-307B	P	458.7	453.7	522.22	456.2				518.45	456.2				
MW-310	WT	518.2	513.2	523.24	515.7	1.61	37.0	0.043	522.79	515.7	1.90	36.6	0.052	
MW-310A	P	488.7	483.7	521.63	486.2				520.89	486.2				
MW-313	WT	507.9	502.9	522.36	505.4	0.12	47.2	0.003	518.44	505.4	0.15	43.2	0.003	
MW-313A	P	477.7	472.7	522.24	475.2				518.29	475.2				
MW-313A	P	477.7	427.7	522.24	452.7	-0.03	55.8	-0.001	518.29	452.7	-0.10	51.8	-0.002	
Mw-313B	P	469.1	464.1	522.27	466.6				518.39	466.6				
Average								0.006	Average					0.008

Footnotes:

⁽¹⁾ For water table monitoring wells, the reference point (L) is the midpoint between water table elevation and the bottom of the well screen elevation if the water table intersects the well screen. For water table wells with a saturated screen (water table elevation above the top of screen elevation), the Reference Point (L) is the midpoint between the top and bottom of well screen elevations. For piezometers, reference point (L) is the elevation in the middle of the screen.

⁽²⁾ Delta h is the difference between water table elevation and potentiometric surface elevation.

⁽³⁾ Delta L is the difference between water table elevation and the elevation of the mid-point of the piezometer screen.

Notes:

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

Updated by: NLB Date: 11/18/2025
Checked by: LH Date: 12/19/2025

I:\25225066.00\Deliverables\2025 - Annual CCR Report\Tables\[Table 4B_BGS Vertical Hydraulic Gradients_2025.xlsx]GW Field Data

**Table 5A. Groundwater Analytical Results Summary - Assessment Monitoring
Burlington Generating Station, Burlington, IA / SCS Engineers Project #25225066.00**

				Background Wells		Compliance Wells										Delineation Wells						Supplemental Background Wells																		
Parameter Name	UPL Method	UPL	GPS	MW-310	MW-311	MW-301	MW-302	MW-303	MW-304	MW-305	MW-306	MW-307	MW-308	MW-309	MW-302A	MW-307A	MW-307B	MW-312	MW-313	MW-313A	MW-313B	MW-310A	MW-314																	
				10/21/2024	10/22/2024	10/23/2024	10/23/2024	10/22/2024	10/22/2024	10/22/2024	10/22/2024	10/22/2024	10/21/2024	10/23/2024	10/23/2024	10/22/2024	10/22/2024	10/22/2024	10/22/2024	10/22/2024	10/22/2024	10/22/2024	10/22/2024	10/21/2024	10/22/2024															
Groundwater Elevation, ft amsl				522.94	519.64	518.38	517.99	518.16	518.27	518.30	518.42	518.80	518.65	518.30	517.97	520.05	518.57	518.15	518.12	518.20	518.24	521.18	518.18																	
Appendix III																																								
Boron, µg/L	NP	3,500		170	1500	5,300	3,600	11,000	6,600	3,000	3,200	3,000	5,700	12,000	--	--	--	--	--	--	--	0.55	J	160																
Calcium, mg/L	P	208		95	140	200	280	160	110	150	100	37	140	82	--	--	--	--	--	--	--	46		160																
Chloride, mg/L	P	167		9.4	20	17	10	21	16	18	25	20	37	31	--	--	--	--	--	--	--	8.4		11																
Fluoride, mg/L	P	0.526		<0.38	<0.38	<0.38	1.7	1.5	1.5	1.5	<0.38	<0.38	<0.38	0.38	J	--	--	--	--	--	--	<0.38		<0.38																
Field pH, Std. Units	P	7.51		7.00	6.82	6.7	6.46	6.67	6.82	6.49	8.63	8.37	7.27	6.94	7.10	7.47	7.28	6.89	6.98	7.26	7.21	7.12		6.64																
Sulfate, mg/L	P	444		72	110	730	730	360	150	400	160	170	590	94	--	--	--	--	--	--	--	76		75																
Total Dissolved Solids, mg/L	P	1,060		350	570	1600	1,400	840	580	880	490	380	1,100	490	--	--	--	--	--	--	--	540		660																
Appendix IV																																								
	UTL Method	UTL	GPS																																					
Antimony, µg/L	NP	1.9	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	<1.0		<1.0																
Arsenic, µg/L	NP	79.8	79.8	37	5.6	6.3	6.7	22	19	4.4	31	14	4.7	23	--	--	--	--	--	--	--	0.55	J	4.1																
Barium, µg/L	NP	829	2,000	260	170	38	45	160	65	41	92	46	69	120	--	--	--	--	--	--	--	51		280																
Beryllium, µg/L	NP	0.33	4	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	--	--	--	--	--	--	--	<0.33		<0.33																
Cadmium, µg/L	NP	0.10	5	<0.10	<0.10	<0.10	<0.10	<0.10	0.12	J	<0.10	<0.10	<0.10	0.18	J	<0.10	--	--	--	--	--	<0.10		<0.10																
Chromium, µg/L	NP	1.10	100	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	--	--	--	--	--	--	--	<1.2		<1.2																
Cobalt, µg/L	NP	3.80	6	1.9	0.85	8.4	9.0	1.1	0.55	1.8	<0.17	<0.17	0.96	<0.17	--	--	--	--	--	--	--	<0.17		0.42	J															
Fluoride, mg/L	P	0.537	4	<0.38	<0.38	<0.38	1.7	1.5	1.5	1.5	<0.38	<0.38	<0.38	0.38	J	--	--	--	--	--	--	<0.38		<0.38																
Lead, µg/L	NP	1.1	15	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	--	--	--	--	--	--	--	0.27	J	<0.26																
Lithium, µg/L	NP	9.8	40	<2.5	<2.5	16	81	35	88	48	25	60	230	4.5	J	6.4	J	9.8	J	7.4	J	19	17	5.8	J	6.5	J	38	4.4	J										
Mercury, µg/L	NP	0.15	2	<1.1	<1.1	<0.11	<0.11	<0.11	0.23	<0.11	<0.11	<1.1	<1.1	<1.1	--	--	--	--	--	--	--	<1.1		<1.1																
Molybdenum, µg/L	P	23.5	100	5.4	6.2	59	150	160	500	4.4	140	290	760	36	14	6.7	12.0	36	47	5.8	14	7.3		1.3	J															
Selenium, µg/L	NP	1.4	50	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	--	--	--	--	--	--	--	<1.4		<1.4																
Thallium, µg/L	NP	0.5	2	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	--	--	--	--	--	--	--	<0.57		<0.57																
Radium 226/228 Combined, pCi/L	P	3.53	5	0.773	0.570	0.135	1.05	1.420	0.686	0.709	0.744	0.0774	0.774	0.226	--	--	--	--	--	--	--	1.87		1.810																
Additional Parameters Monitored for Selection of Remedy																																								
Iron, µg/L	UPL or GPS not applicable			12000	B	13000	B	18000	B	28000	B	28000	B	16000	B	32000	B	<36	540	B	1600	B	19000	B	4500	B	1500	B	1700	B	15000	B	8600	B	2400	B	2200	B	<36	13,000
Magnesium, µg/L	UPL or GPS not applicable			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
Manganese, µg/L	UPL or GPS not applicable			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Bicarbonate Alkalinity, mg/L	UPL or GPS not applicable			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Carbonate Alkalinity, mg/L	UPL or GPS not applicable			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Total Alkalinity, mg/L	UPL or GPS not applicable			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		

4.4 Blue highlighted cell indicates the compliance or delineation well result exceeds the UPL or UTL (background) and the LOQ.
 30.8 Yellow highlighted cell indicates the compliance or delineation well result exceeds the GPS.
 17 Grayscale indicates Additional Parameters sampled for selection of remedy and evaluation of Monitored Natural Attenuation.

See page 2 for Notes and Abbreviations

**Table 5A. Groundwater Analytical Results Summary - Assessment Monitoring
Burlington Generating Station, Burlington, IA / SCS Engineers Project #25225066.00**

Abbreviations:

UPL = Upper Prediction Limit
 UTL = Upper Tolerance Limit
 GPS = Groundwater Protection Standard
 LOD = Limit of Detection
 LOQ = Limit of Quantitation

P = Parametric UPL or UTL
 NP = Nonparametric UPL or UTL
 -- = Not Analyzed
 mg/L = milligrams per liter
 µg/L = micrograms per liter

Std. Units - Standard Units
 ft amsl = feet above mean sea level
 pCi/L - picocuries per liter

Lab Notes:

B = Analyte was detected in the associated Method Blank.
 J = Estimated concentration at or above the LOD and below the LOQ.

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 (US EPA) Maximum Contamination Level (MCL), if established, or the value from 40 CFR 257.95(h)(2), or the background upper tolerance limit if it is higher.
3. Interwell UPLs and UTLs calculated based on results from background wells MW-310 and MW-311.
4. For compliance wells, only results confirmed above the LOQ are evaluated as potential SSIs above background.

Created by: <u>RM</u>	<u>12/1/2024</u>
Last revision by: <u>BLR</u>	<u>12/5/2024</u>
Checked by: <u>KMV</u>	<u>12/6/2024</u>

**Table 5B. Groundwater Analytical Results Summary - Assessment Monitoring
Burlington Generating Station, Burlington, IA / SCS Engineers Project #25225066.00**

				Background Wells		Compliance Wells										Delineation Wells						
Parameter Name	UPL Method	UPL	GPS	MW-310	MW-311	MW-301	MW-302	MW-303	MW-304	MW-305	MW-306	MW-307	MW-308	MW-309	MW-302A	MW-307A	MW-307B	MW-312	MW-313	MW-313A	MW-313B	
				4/29/2025	4/29/2025	4/28/2025	4/29/2025	4/28/2025	4/28/2025	4/29/2025	4/29/2025	4/29/2025	4/28/2025	4/29/2025	4/29/2025	4/28/2025	4/29/2025	4/29/2025	4/29/2025	4/29/2025	4/28/2025	4/28/2025
Groundwater Elevation, ft amsl				523.24	522.28	521.89	522.14	522.21	522.22	522.28	521.15	522.13	522.32	522.06	522.07	523.64	522.22	522.43	522.36	522.24	522.27	
Appendix III																						
Boron, µg/L	NP	3,500		98 J	1,600	5,600	1,700	6,700	3,700	1,400	2,100	3,500	4,400	13,000	--	--	--	--	--	--	--	
Calcium, mg/L	P	208		89	180	240	140	140	110	80	86	44	66	94	--	--	--	--	--	--	--	
Chloride, mg/L	P	167		12	47	15	12	24	11	16	29	21	76	23	--	--	--	--	--	--	--	
Fluoride, mg/L	P	0.526		<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	--	--	--	--	--	--	--	
Field pH, Std. Units	P	7.51		7.44	7.14	6.65	6.57	6.76	7.03	6.65	8.94	9.05	7.63	6.88	7.17	7.83	7.58	7.07	7.15	7.50	7.48	
Sulfate, mg/L	P	444		66	210	970	310	370	140	210	85	170	300	120	--	--	--	--	--	--	--	
Total Dissolved Solids, mg/L	P	1,060		340	800	1900	710	780	550	480	390	360	670	570	--	--	--	--	--	--	--	
Appendix IV																						
	UTL Method	UTL	GPS																			
Antimony, µg/L	NP	1.9	6	<1.0	1.0 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	--	
Arsenic, µg/L	NP	79.8	79.8	15	7.7	6.1	5.6	18	18	3.8	32	20	5.5	19	--	--	--	--	--	--	--	
Barium, µg/L	NP	829	2,000	190	140	43	39	170	68	37	88	44	42	140	--	--	--	--	--	--	--	
Beryllium, µg/L	NP	0.33	4	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	--	--	--	--	--	--	--	
Cadmium, µg/L	NP	0.10	5	<0.10	<0.10	<0.10	0.12 J	0.11 J	0.19 J	<0.10	0.10 J	0.22	0.47	<0.10	--	--	--	--	--	--	--	
Chromium, µg/L	NP	1.10	100	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	--	--	--	--	--	--	--	
Cobalt, µg/L	NP	3.80	6	1.9	2.7	8.8	2.4	0.85	0.25 J	0.37 J	<0.17	<0.17	0.42 J	<0.17	--	--	--	--	--	--	--	
Fluoride, mg/L	P	0.537	4	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	--	--	--	--	--	--	--	
Lead, µg/L	NP	1.1	15	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	--	--	--	--	--	--	--	
Lithium, µg/L	NP	9.8	40	<2.9	<2.9	15	53	36	81	28	18	57	110	3.6 J	6.3 J	10	6.8 J	14	15	6.0 J	7.1 J	
Mercury, µg/L	NP	0.15	2	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	--	--	--	--	--	--	--	
Molybdenum, µg/L	P	23.5	100	5.5	4.7	49	200	190	370	6.2	140	350	950	34	18	16	13.0	40	41	8.3	20	
Selenium, µg/L	NP	1.4	50	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	--	--	--	--	--	--	--	
Thallium, µg/L	NP	0.5	2	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	--	--	--	--	--	--	--	
Radium 226/228 Combined, pCi/L	P	3.53	5	0.122	0.358	0.709	0.405	0.625	0.613	0.952	0.531	0.623	0.189	0.897	--	--	--	--	--	--	--	
Additional Parameters Monitored for Selection of Remedy																						
Iron, µg/L	UPL or GPS not applicable			12000	23000	20000	9300	20000	15000	15000	<50	530	1400	22000	5300	1400	2200	9600	8000	2400	2800	
Magnesium, µg/L	UPL or GPS not applicable			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11000	--	--	
Manganese, µg/L	UPL or GPS not applicable			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3700	--	--	
Bicarbonate Alkalinity, mg/L	UPL or GPS not applicable			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	220	--	--	
Carbonate Alkalinity, mg/L	UPL or GPS not applicable			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.5	--	--	
Total Alkalinity, mg/L	UPL or GPS not applicable			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	220	--	--	

4.4 Blue highlighted cell indicates the compliance or delineation well result exceeds the UPL or UTL (background) and the LOQ.
 30.8 Yellow highlighted cell indicates the compliance or delineation well result exceeds the GPS.
 17 Grayscale indicates Additional Parameters sampled for selection of remedy and evaluation of Monitored Natural Attenuation.

See page 2 for Notes and Abbreviations

**Table 5B. Groundwater Analytical Results Summary - Assessment Monitoring
Burlington Generating Station, Burlington, IA / SCS Engineers Project #25225066.00**

Abbreviations:

UPL = Upper Prediction Limit
UTL = Upper Tolerance Limit
GPS = Groundwater Protection Standard
LOD = Limit of Detection
LOQ = Limit of Quantitation

P = Parametric UPL or UTL
NP = Nonparametric UPL or UTL
mg/L = milligrams per liter
µg/L = micrograms per liter

Std. Units - Standard Units
ft amsl = feet above mean sea level
pCi/L - picocuries per liter
-- = Not Analyzed

Lab Notes:

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

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 (US EPA) Maximum Contamination Level (MCL), if established, or the value from 40 CFR 257.95(h)(2), or the background upper tolerance limit if it is higher.
3. Interwell UPLs and UTLs calculated based on results from background wells MW-310 and MW-311.
4. For compliance wells, only results confirmed above the LOQ are evaluated as potential SSIs above background.

Created by: <u>RM</u>	<u>12/1/2024</u>
Last revision by: <u>RM</u>	<u>6/3/2025</u>
Checked by: <u>BLJ</u>	<u>6/4/2025</u>

**Table 6. Groundwater Field Data Summary
Burlington Generating Station / SCS Engineers Project #25225066.00**

Well	Sample Date	Groundwater Elevation (feet)	Field Temperature (deg C)	Field pH (Std. Units)	Oxygen, Dissolved (mg/L)	Field Specific Conductance (umhos/cm)	Field Oxidation Potential (mV)	Turbidity (NTU)
MW-301	4/28/2025	521.89	14.3	6.65	0.40	2,455	-11.1	19.63
	10/21/2024	518.38	13.6	6.7	0.42	2,505	-63.0	8.77
MW-302	4/29/2025	522.14	11.8	6.57	-0.08	988	79.7	17.12
	10/21/2024	517.99	12.1	6.46	0.09	1,501	-71.4	2.19
MW-302A	4/29/2025	522.07	11.6	7.17	0.27	497.0	-96.3	6.82
	10/21/2024	517.97	11.1	7.10	0.07	461.2	-124.8	3.55
MW-303	4/28/2025	522.21	12.9	6.76	-0.01	1,088	-77.1	11.74
	10/20/2024	518.16	12.9	6.67	0.07	1,149	-106.4	4.57
MW-304	4/28/2025	522.22	14.9	7.03	0.05	899	-115.9	16.01
	10/20/2024	518.27	15.5	6.82	0.01	879	-124.1	2.59
MW-305	4/29/2025	522.28	14.4	6.65	0.01	756	-43.2	10.27
	10/21/2024	518.30	13.7	6.49	1.19	1,469	-55.5	8.35
MW-306	4/29/2025	521.15	11.6	8.94	0.13	596	-160.2	0.57
	10/21/2024	518.42	12.9	8.63	0.26	835	109.5	3.51
MW-307	4/29/2025	522.13	11.7	9.05	0.11	576	-316.3	1.97
	10/21/2024	518.80	12.7	8.37	0.88	677	-194.2	4.02
MW-307A	4/29/2025	523.64	11.3	7.83	0.30	493.0	-188.6	1.61
	10/21/2024	520.05	11.5	7.47	0.57	537.00	-131.2	9.12
MW-307B	4/29/2025	522.22	11.5	7.58	0.28	529.0	-157.8	1.05
	10/21/2024	518.57	12.9	7.28	1.79	539.0	-75.8	7.50
MW-308	4/29/2025	522.32	12.8	7.63	0.10	1,032	-138.1	0.91
	10/21/2024	518.65	13.5	7.27	0.33	1,907	-16.9	4.31
MW-309	4/29/2025	522.06	14.0	6.88	-0.05	942	-135.4	19.54
	10/21/2024	518.30	14.6	6.94	0.40	961	-122.2	6.04
MW-310	4/29/2025	523.24	7.8	7.44	0.23	634	-173.6	1.61
	10/21/2024	522.94	18.0	7.00	0.01	640	-133.0	2.79
MW-310A	10/21/2024	521.18	13.1	7.12	1.67	921	-25.4	4.82
MW-311	4/29/2025	522.28	11.6	7.14	0.18	1,262	-168.9	1.28
	10/21/2024	519.64	14.6	6.82	0.06	927	-132.9	2.25
MW-312	4/29/2025	522.43	11.2	7.07	0.01	550	-108.6	7.29
	10/21/2024	518.15	11.8	6.89	0.35	845	-110.3	5.67
MW-313	4/28/2025	522.36	10.5	7.15	0.04	574.9	-90.3	0.87
	10/20/2024	518.12	10.5	6.98	0.02	627.2	-136.8	1.70
MW-313A	4/28/2025	522.24	10.2	7.50	0.00	438.7	-118.7	1.41
	10/20/2024	518.20	11.5	7.26	0.29	421.8	-142.5	6.68
MW-313B	4/28/2025	522.27	9.9	7.48	0.01	496.8	-119.6	0.79
	10/20/2024	518.24	10.3	7.21	0.06	455.7	-125.6	2.08
MW-314	10/21/2024	518.18	13.9	6.64	0.05	1078	-105.5	1.96

Notes:

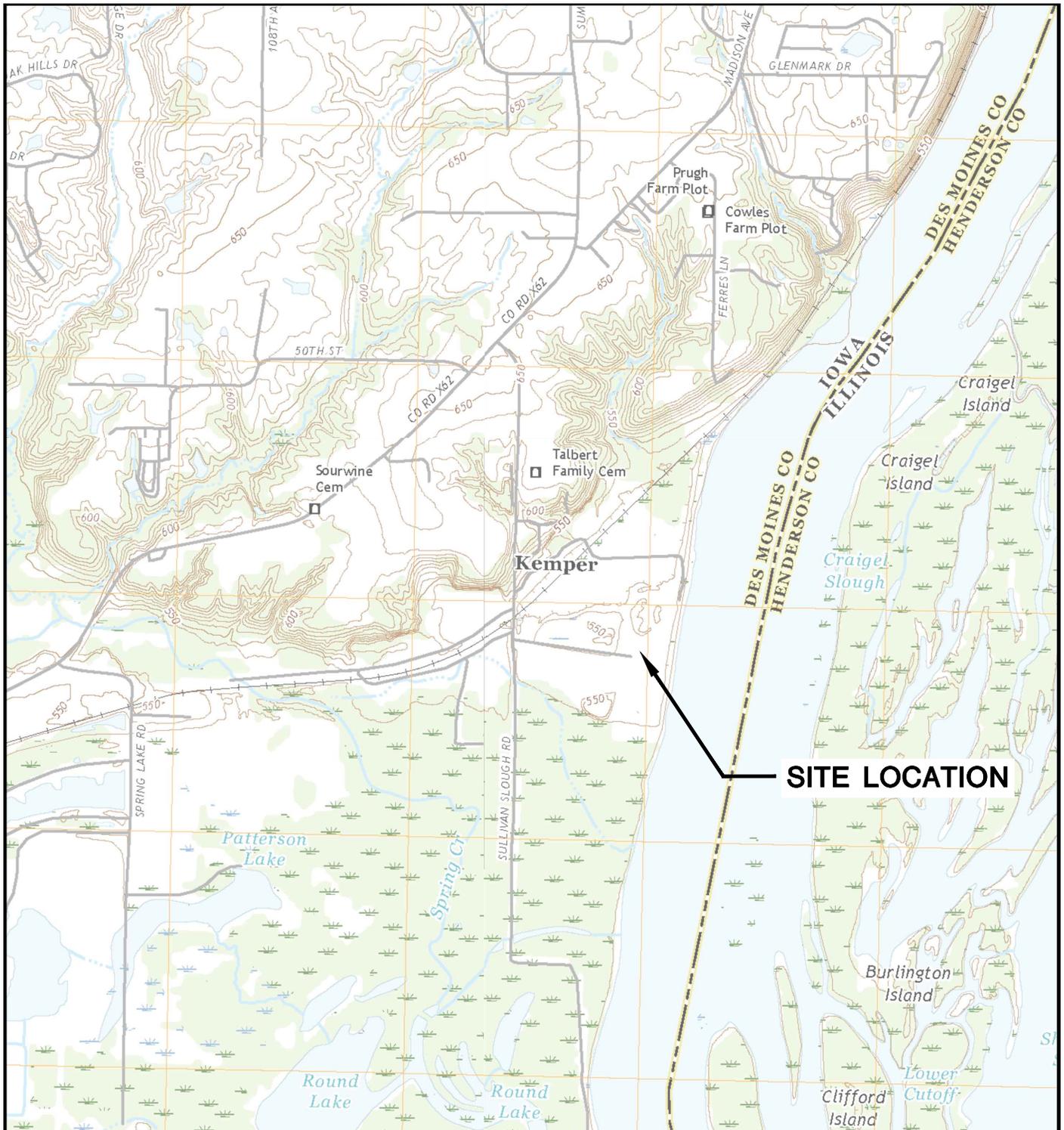
-- = Not sampled or unable to sample

Last revision by: NLB
Checked by: LH

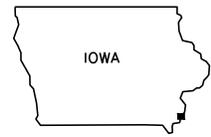
Date: 10/31/2025
Date: 11/14/2025

Figures

- 1 Site Location Map
- 2 Site Plan and Monitoring Well Locations
- 3 Shallow Potentiometric Contour Map – April 28-29, 2025
- 4 Deep Potentiometric Groundwater Surface Contour Map – April 28-29, 2025
- 5 Shallow Potentiometric Contour Map – October 20-21, 2025
- 6 Deep Potentiometric Groundwater Surface Contour Map – October 20-21, 2025



LOMAX QUADRANGLE
 ILLINOIS / IOWA-DES MOINES CO.
 7.5 MINUTE SERIES (TOPOGRAPHIC)
 2018
 SCALE: 1" = 2,000'



CLIENT	ALLIANT ENERGY 4902 N. BILTMORE LANE, #1000 MADISON, WI 53718		SITE	ALLIANT ENERGY BURLINGTON GENERATING STATION BURLINGTON, IOWA		ENGINEER	SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830		FIGURE 1
	PROJECT NO.	25219066.00		DRAWN BY:	BSS		APPROVED BY:	TK 01/30/2020	
	DRAWN:	11/14/2019		CHECKED BY:	MDB				
REVISED:	01/14/2020								

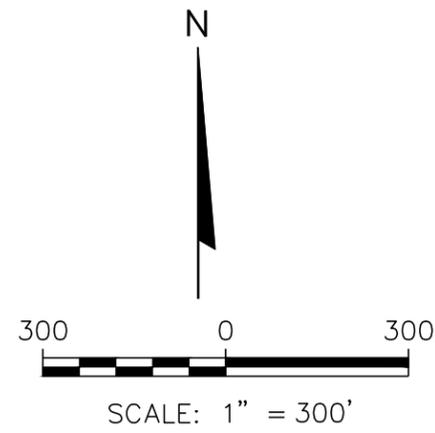
I:\25219066.00\Drawings\CCR 2019 Annual Report\Site Location Map.dwg, 1/30/2020 3:35:22 PM



LEGEND	
	CCR RULE MONITORING WELL
	CCR RULE PIEZOMETER
	TEMPORARY MONITORING WELL
	BACKGROUND MONITORING WELL
	PUMPING WELL
	OBSERVATION WELL
	FINAL COVER LIMITS (LIMITS OF ASH DISPOSAL)
	CCR UNITS
	EXISTING GRADE (10' CONTOUR)
	EXISTING GRADE (2' CONTOUR)
	APPROXIMATE PROPERTY LINES
	EXISTING DRAINAGE SWALES
	EXISTING GAS MAIN
	EXISTING OVERHEAD UTILITY
	EXISTING SANITARY SEWER
	EXISTING STORM SEWER / CULVERT
	EXISTING PROCESS WATER CONVEYANCE PIPE
	EXISTING TELEPHONE
	EXISTING UNDERGROUND ELECTRIC
	EXISTING WATER MAIN

NOTES:

1. MONITORING WELLS MW-303 THROUGH MW-308 WERE INSTALLED BY CASCADE DRILLING, LLP. UNDER THE SUPERVISION OF SCS ENGINEERS ON DECEMBER 15-17, 2015.
2. MONITORING WELLS MW-301, MW-302, AND MW-309 THROUGH MW-311 WERE INSTALLED BY DIRECT PUSH ANALYTICAL SERVICES CORP. UNDER THE SUPERVISION OF SCS ENGINEERS FROM FEBRUARY 29, 2016 TO MARCH 1, 2016.
3. MONITORING WELLS MW-312 AND MW-313 WERE INSTALLED BY ROBERTS ENVIRONMENTAL DRILLING IN MAY 2019.
4. PIEZOMETERS MW-302A, MW-307A, MW-310A, AND MW-311A WERE INSTALLED BY ROBERTS ENVIRONMENTAL DRILLING IN JUNE-JULY 2020.
5. PIEZOMETERS MW-307B AND MW-313B INSTALLED BY CASCADE DRILLING, LLP. UNDER THE SUPERVISION OF SCS ENGINEERS FROM AMY 10-12, 2021.
6. MONITORING WELL MW-314 INSTALLED BY TERRACON CONSULTANTS, INC. UNDER THE SUPERVISION OF SCS ENGINEERS ON FEBRUARY 25, 2022.
7. OBSERVATION WELLS OBS-1, OBS-2, AND PUMP WELLS PW-1, PW-2 INSTALLED APRIL 11-13, 2024 BY CASCADE DRILLING, LLP. WELLS OBSERVED BY MOHN SURVEYING ON APRIL 24, 2024.
8. DRAWING COORDINATES: IOWA STATE PLANES, SOUTH ZONE, US FOOT, NAD83 DATUM. VERTICAL DATUM IS NAVD 88.
9. EXISTING GRADES AND AERIAL IMAGERY FROM NOVEMBER 18, 2023 DRONE SURVEY BY DRONE VIEW TECHNOLOGIES.
10. WESTERN PROPERTY LINE AND EASTERN NORMAL HIGH WATER LINE BASED ON INFORMATION PROVIDED BY MOHN SURVEYING, INC.. REMAINDER OF EASTERN PROPERTY LINE IS APPROXIMATE BASED ON HISTORY OF CONSTRUCTION REPORT PREPARED BY HARD HAT SERVICES DATED MARCH 6, 2018.



PROJECT NO. 25221060.00	DRAWN BY: AR/RVG/SB	 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 BURLINGTON GENERATING STATION BURLINGTON, IOWA	FIGURE 2
DRAWN: 11/21/2025	CHECKED BY: NLB, 1/26/2026		 ENGINEER		SITE PLAN AND MONITORING WELL LOCATIONS
REVISED: 01/26/2026	APPROVED BY: TK 01/29/2026				

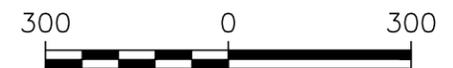


LEGEND

- MONITORING WELL
- DEEP PIEZOMETER
- CCR BACKGROUND MONITORING WELL
- TEMPORARY MONITORING WELL
- OBSERVATION WELL
- PUMP WELL
- CCR UNITS
- 518.38 WATER LEVEL MEASURED APR 28-29, 2025
- WATER TABLE ELEVATION CONTOUR 1.0' INTERVAL (DASHED WHERE INFERRED)
- APPROXIMATE FLOW DIRECTION
- APPROXIMATE PROPERTY LINE
- 530 EXISTING GRADE (10' CONTOUR)
- EXISTING GRADE (2' CONTOUR)
- FLOW PATH FOR VELOCITY CALCULATION (SEE TABLE 4)

NOTES:

1. WATER LEVELS WERE MEASURED ON APRIL 28-29, 2025.
2. WELL INSTALLATION AND SURVEY INFORMATION, SEE FIGURE 2 NOTES.
3. CCR BACKGROUND MONITORING WELLS ARE: MW-310 AND MW-311.
4. CCR MONITORING WELLS: MW-301, MW-302, MW-302A, MW-303, MW-304, MW-305, MW-306, MW-307, MW-307A, MW-307B, MW-308, MW-309, MW-310A, MW-312, MW-313, MW-313A, MW-313B, AND MW-314.
5. OTHER MONITORING POINTS: TW-101.
6. THERE WERE NO DRY MONITORING WELLS OR LEACHATE HEADWELLS IN APRIL, 2025
7. VERTICAL DATUM IS REFERENCED TOT EH USGS MEAN SEA LEVEL (MSL)
8. AERIAL IMAGE DRONE SURVEY BY DRONE VIEW TECHNOLOGIES. DATED NOVEMBER 18, 2023
9. MW-310A IS SCREENED WITHIN MUDSTONE BEDROCK. THE GROUNDWATER ELEVATION AT THIS WELL IS NOT USED FOR POTENTIOMETRIC SURFACE CONTOURS.



SCALE: 1" = 300'



PROJECT NO.	25225066.00	DRAWN BY:	RVG/AR
DRAWN:	05/15/2025	CHECKED BY:	NLB, 1/26/2026
REVISED:	01/26/2026	APPROVED BY:	TK 01/29/2026

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
 BURLINGTON GENERATING STATION
 BURLINGTON, IOWA

SHALLOW POTENTIOMETRIC SURFACE
 CONTOUR MAP
 APRIL 28-29 2025

FIGURE
 3

I:\25225066.00\Drawings\2025 Annual CCR Report\April 28-29 2025 WTBL.dwg, 1/26/2026 7:19:57 AM



LEGEND	
	MONITORING WELL
	DEEP PIEZOMETER
	CCR BACKGROUND MONITORING WELL
	TEMPORARY MONITORING WELL
	OBSERVATION WELL
	PUMP WELL
	CCR UNITS
	517.97 WATER LEVEL MEASURED OCT 22-23, 2024
	(518.57) WATER LEVEL MEASURED OCT 22-23, 2024 NOT USED FOR CONTOURING
	POTENTIOMETRIC GROUNDWATER SURFACE ELEVATION CONTOUR 0.5' INTERVAL (DASHED WHERE INFERRED)
	APPROXIMATE FLOW DIRECTION
	APPROXIMATE PROPERTY LINE
	EXISTING GRADE (10' CONTOUR)
	EXISTING GRADE (2' CONTOUR)
	FLOW PATH FOR VELOCITY CALCULATION (SEE TABLE 4)

- NOTES:
1. WATER LEVELS WERE MEASURED ON APRIL 28-29, 2025.
 2. WELL INSTALLATION AND SURVEY INFORMATION, SEE FIGURE 2 NOTES.
 3. CCR BACKGROUND MONITORING WELLS ARE: MW-310 AND MW-311.
 4. CCR MONITORING WELLS: MW-301, MW-302, MW-302A, MW-303, MW-304, MW-305, MW-306, MW-307, MW-307A, MW-307B, MW-308, MW-309, MW-310A, MW-312, MW-313, MW-313A, MW-313B, AND MW-314.
 5. OTHER MONITORING POINTS: TW-101.
 6. THERE WERE NO DRY MONITORING WELLS OR LEACHATE HEADWELLS IN APRIL, 2025
 7. VERTICAL DATUM IS REFERENCED TO THE USGS MEAN SEA LEVEL (MSL)
 8. AERIAL IMAGE DRONE SURVEY BY DRONE VIEW TECHNOLOGIES. DATED NOVEMBER 18, 2023
 9. MW-310A IS SCREENED WITHIN MUDSTONE BEDROCK. THE GROUNDWATER ELEVATION AT THIS WELL IS NOT USED FOR POTENTIOMETRIC SURFACE CONTOURS.

PROJECT NO. 25226066.00	DRAWN BY: RVG/AR	 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 BURLINGTON GENERATING STATION BURLINGTON, IOWA	DEEP POTENTIOMETRIC GROUNDWATER SURFACE CONTOUR MAP APRIL 28-29, 2025	FIGURE
DRAWN: 05/16/2025	CHECKED BY: NLB, 1/26/2026					4
REVISED: 01/26/2026	APPROVED BY: TK 01/29/2026					

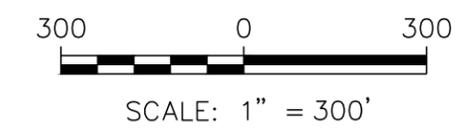
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LEGEND

- MONITORING WELL
- DEEP PIEZOMETER
- CCR BACKGROUND MONITORING WELL
- TEMPORARY MONITORING WELL
- OBSERVATION WELL
- PUMP WELL
- 518.38** WATER LEVEL MEASURED OCT 20-21, 2025
- WATER TABLE ELEVATION CONTOUR 1.0' INTERVAL (DASHED WHERE INFERRED)
- APPROXIMATE FLOW DIRECTION
- FLOW PATH FOR VELOCITY CALCULATION (SEE TABLE 4)
- CCR UNITS

- NOTES:**
1. WATER LEVELS WERE MEASURED ON OCTOBER 20-21, 2025.
 2. WELL INSTALLATION AND SURVEY INFORMATION, SEE FIGURE 2 NOTES.
 3. CCR BACKGROUND MONITORING WELLS ARE: MW-310 AND MW-311.
 4. CCR MONITORING WELLS: MW-301, MW-302, MW-302A, MW-303, MW-304, MW-305, MW-306, MW-307, MW-307A, MW-307B, MW-308, MW-309, MW-310A, MW-312, MW-313, MW-313A, MW-313B, AND MW-314.
 5. OTHER MONITORING POINTS: TW-101.
 6. THERE WERE NO DRY MONITORING WELLS OR LEACHATE HEADWELLS IN APRIL, 2025
 7. VERTICAL DATUM IS REFERENCED TOT EH USGS MEAN SEA LEVEL (MSL)
 8. AERIAL IMAGE DRONE SURVEY BY DRONE VIEW TECHNOLOGIES. DATED NOVEMBER 18, 2023
 9. MW-310A IS SCREENED WITHIN MUDSTONE BEDROCK. THE GROUNDWATER ELEVATION AT THIS WELL IS NOT USED FOR POTENTIOMETRIC SURFACE CONTOURS.



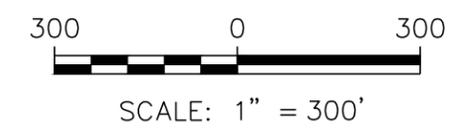
PROJECT NO. 25225066.00	DRAWN BY: RVG	 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	CLIENT ALLIANT ENERGY 4902 N. BILTMORE LANE, #1000 MADISON, WI 53718	SITE ALLIANT ENERGY BURLINGTON GENERATING STATION BURLINGTON, IOWA	SHALLOW POTENTIOMETRIC SURFACE CONTOUR MAP OCTOBER 20-21, 2025	FIGURE
DRAWN: 11/04/2025	CHECKED BY: NLB, 1/26/2026					5
REVISED: 01/26/2026	APPROVED BY: TK 01/29/2026					

I:\25225066.00\Drawings\2025 Annual CCR Report\OCT 2025 WTBL.dwg, 1/26/2026 7:20:32 AM



LEGEND	
	MONITORING WELL
	DEEP PIEZOMETER
	CCR BACKGROUND MONITORING WELL
	TEMPORARY MONITORING WELL
	OBSERVATION WELL
	PUMP WELL
517.97	WATER LEVEL MEASURED OCT 20-21, 2025
(518.57)	WATER LEVEL MEASURED OCT 20-21, 2025 NOT USED FOR CONTOURING
	POTENTIOMETRIC GROUNDWATER SURFACE ELEVATION CONTOUR 0.5' INTERVAL (DASHED WHERE INFERRED)
	APPROXIMATE FLOW DIRECTION
	FLOW PATH FOR VELOCITY CALCULATION (SEE TABLE 4)
	CCR UNITS

- NOTES:
1. WATER LEVELS WERE MEASURED ON OCTOBER 20-21, 2025.
 2. WELL INSTALLATION AND SURVEY INFORMATION, SEE FIGURE 2 NOTES.
 3. CCR BACKGROUND MONITORING WELLS ARE: MW-310 AND MW-311.
 4. CCR MONITORING WELLS: MW-301, MW-302, MW-302A, MW-303, MW-304, MW-305, MW-306, MW-307, MW-307A, MW-307B, MW-308, MW-309, MW-310A, MW-312, MW-313, MW-313A, MW-313B, AND MW-314.
 5. OTHER MONITORING POINTS: TW-101.
 6. THERE WERE NO DRY MONITORING WELLS OR LEACHATE HEADWELLS IN APRIL, 2025
 7. VERTICAL DATUM IS REFERENCED TOT EH USGS MEAN SEA LEVEL (MSL)
 8. AERIAL IMAGE DRONE SURVEY BY DRONE VIEW TECHNOLOGIES. DATED NOVEMBER 18, 2023
 9. MW-310A IS SCREENED WITHIN MUDSTONE BEDROCK. THE GROUNDWATER ELEVATION AT THIS WELL IS NOT USED FOR POTENTIOMETRIC SURFACE CONTOURS.



PROJECT NO. 25225066.00	DRAWN BY: RVG	 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 BURLINGTON GENERATING STATION BURLINGTON, IOWA	DEEP POTENTIOMETRIC GROUNDWATER SURFACE CONTOUR MAP OCTOBER 20.-21, 2025	FIGURE	6	
DRAWN: 11/04/2025	CHECKED BY: NLB, 1/26/2026		ENGINEER							
REVISED: 01/26/2026	APPROVED BY: TK 01/29/2026									

I:\25225066.00\Drawings\2025 Annual CCR Report\OCT 2025 WTBL.dwg, 1/26/2026 7:20:50 AM



Appendix A
Regional Hydrogeologic Information

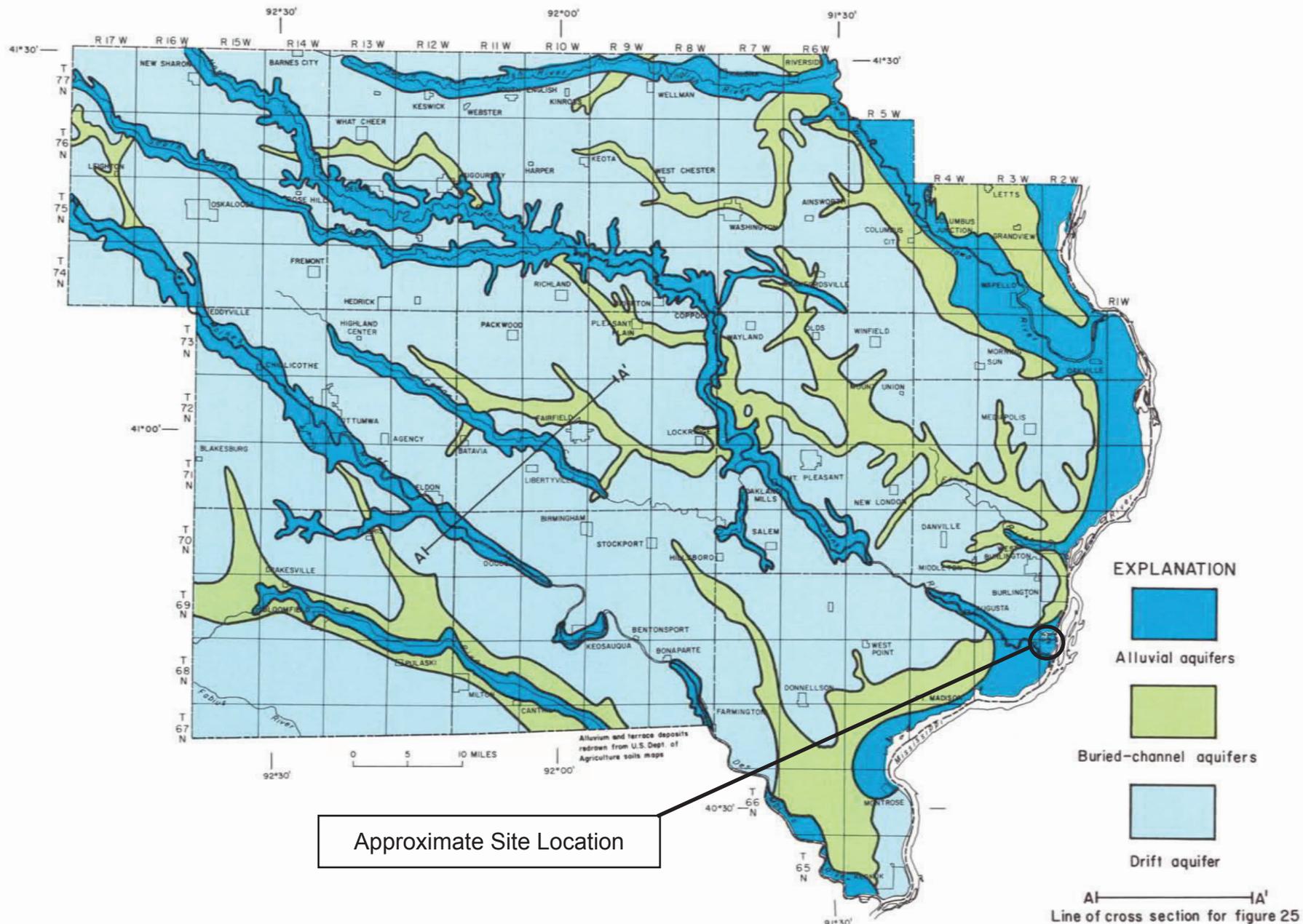
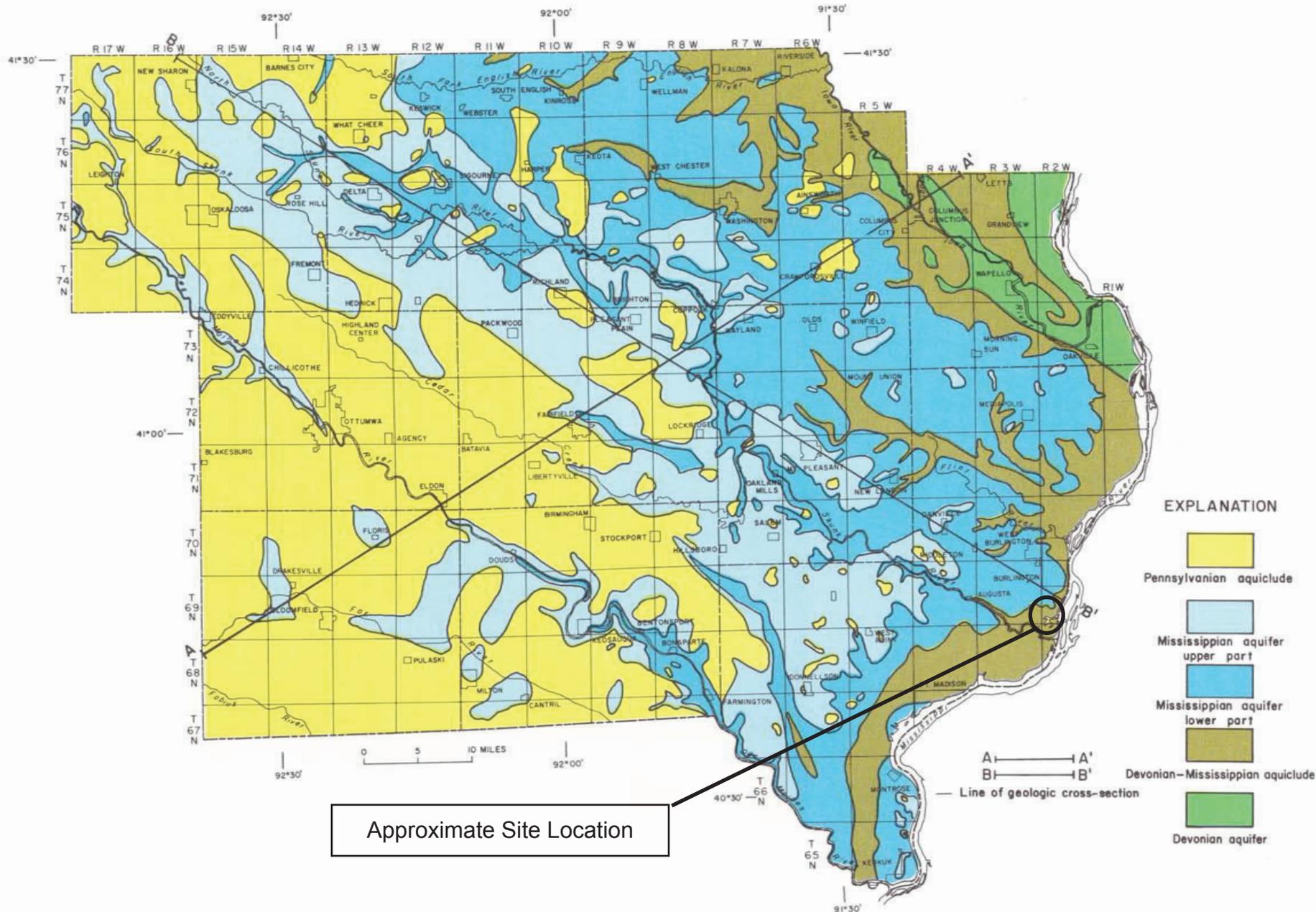


Figure 24.—Areal distribution of surficial aquifers

Source: Coble, R.W., The Water Resources of Southeast Iowa, Iowa Geological Survey Water Atlas Number 4, 1971.



Approximate Site Location

Figure 27.—Bedrock hydrogeologic map

Source: Coble, R.W., The Water Resources of Southeast Iowa, Iowa Geological Survey Water Atlas Number 4, 1971.

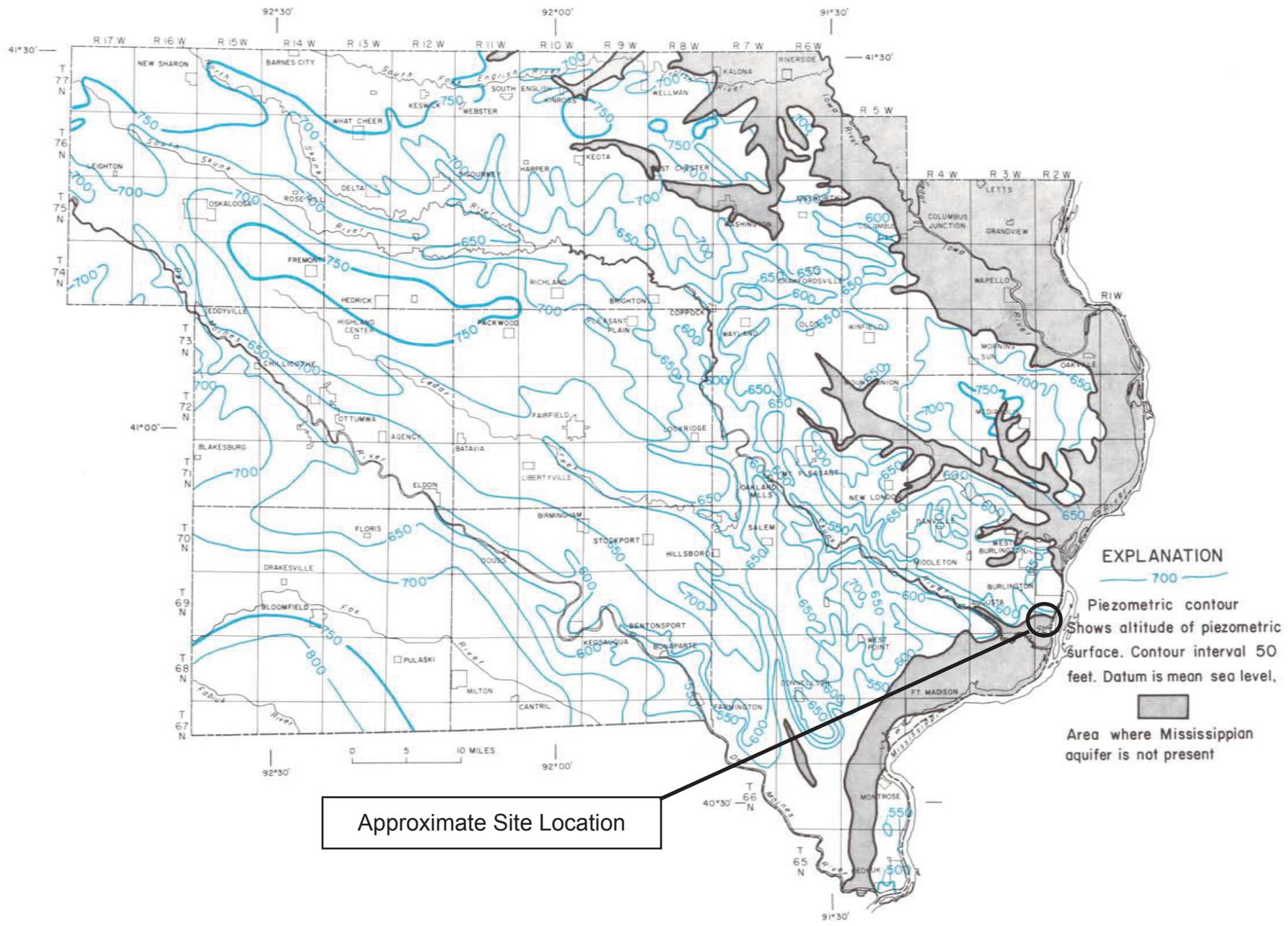


Figure 41.—Altitude of the water levels in wells tapping the Mississippiian aquifer

Source: Coble, R.W., The Water Resources of Southeast Iowa, Iowa Geological Survey Water Atlas Number 4, 1971.



Appendix B
Boring Logs and Well Construction Documentation

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

Facility/Project Name IPL- Burlington Generating Station SCS#: 25215135.80		License/Permit/Monitoring Number		Boring Number MW-301	
Boring Drilled By: Name of crew chief (first, last) and Firm Kevin Collins Direct Push Analytical			Date Drilling Started 2/29/2016		Date Drilling Completed 2/29/2016
Unique Well No.	DNR Well ID No.	Common Well Name MW-301	Final Static Water Level Feet	Surface Elevation 536.0 Feet	Borehole Diameter 8.5 in
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 278,382 N, 2,300,041 E S/C/N SW 1/4 of SW 1/4 of Section 29, T 69 N, R 2 W			Lat _____ ° _____ ' _____ "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
Facility ID		County Des Moines		Civil Town/City/ or Village Burlington	

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						RQD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200			
			1	FILL, boring location was cleared to 10' bgs by hydrovac, then back filled.	FILL											
			2													
			3													
			4													
			5													
			6													
			7													
			8													
			9													
			10													
			11	LEAN CLAY WITH SAND, very dark gray (10YR 3/1).	CL											
S1	16		12													
S2	45		14													
			15													

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

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

SCS ENGINEERS

Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

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

Facility/Project Name IPL- Burlington Generating Station SCS#: 25215135.80		License/Permit/Monitoring Number		Boring Number MW-302	
Boring Drilled By: Name of crew chief (first, last) and Firm Kevin Collins Direct Push Analytical		Date Drilling Started 2/29/2016		Date Drilling Completed 2/29/2016	
Unique Well No.		DNR Well ID No.		Common Well Name MW-302	
Final Static Water Level Feet		Surface Elevation 533.2 Feet		Borehole Diameter 8.5 in	

Local Grid Origin (estimated:) or Boring Location
 State Plane 278,310 N, 2,300,647 E S/C/N Lat _____ " _____ "
 SE 1/4 of SW 1/4 of Section 29, T 69 N, R 2 W Long _____ " _____ "
 Local Grid Location _____ N _____ E
 _____ S _____ W

Facility ID _____ County Des Moines Civil Town/City/ or Village Burlington

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						RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			1	FILL, boring location was cleared to 10' bgs by hydrovac, then back filled.											
			2												
			3												
			4												
			5		FILL										
			6												
			7												
			8												
			9												
			10												
S1	15		11	POORLY GRADED SAND WITH SILT, medium grained, very dark gray (10YR 3/1).	SP-SM							W			
			12												
			13	POORLY GRADED SAND, medium grained, very dark gray (10YR 3/1).	SP							W			
S2	15		14												
			15												

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

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

Boring Number MW-302

Page 2 of 2

Sample		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					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S3	17		16	POORLY GRADED SAND, medium grained, very dark gray (10YR 3/1). (continued)	SP									
			17	LEAN CLAY, very dark gray (10YR 3/1).										
S4	15		18		CL					W				
			19											
S5	16		20	POORLY GRADED SAND, coarse grained, very dark gray (10YR 3/1).										
			21											
S4	15		22							W				
			23											
S5	16		24		SP									
			25											
S5	16		26							W				
			27											
			28	End of Boring at 28 feet bgs.										

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

Facility/Project Name Burlington Generating Station SCS#: 25220055.00		License/Permit/Monitoring Number		Boring Number MW-302A	
Boring Drilled By: Name of crew chief (first, last) and Firm Jeff Crank Roberts Environmental Services		Date Drilling Started 6/30/2020		Date Drilling Completed 7/1/2020	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level 11.92 Feet		Surface Elevation 533.51 Feet MSL		Borehole Diameter 8.0 in.	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane 278,310 N, 2,300,647 E S/C/N		Local Grid Location	
SE 1/4 of SW 1/4 of Section 29, T 69 N, R 2 W		Lat _____ ' _____ "		Feet <input type="checkbox"/> N <input type="checkbox"/> E	
		Long _____ ' _____ "		Feet <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Des Moines		County Code	
				Civil Town/City/ or Village Burlington	

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					RQD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200		
	0		0	Blind drilled to 28' bgs											
			1												
			2	See boring logs for MW-302 for log information from 0-25'bgs.											
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			10												
			11												
			12												
			13												
			14												
			15												

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

Signature 	Firm SCS Engineers	Tel: Fax:
--	------------------------------	--------------

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 used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Boring Number **MW-302A** Use only as an attachment to Form 4400-122. Page **2** of **3**

Sample		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					RQD/ Comments	
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			16												
			17												
			18												
			19												
			20												
			21												
			22												
			23												
			24												
S1	14	34 78	25	POORLY GRADED SAND, mostly fine to meium grain, trace coarse grain, gray to dark gray (5y, 4/1), with clay lense at top of spoon. olive gray, dense.											
			26												
			27												
			28												
			29												
S2	3	02 45	30	Same, fine grain, trace coarse grain with large piece of limestone.											
			31												
			32												
			33		SP										
			34												
			35												
S3	0	68 78	36	No returns											
			37												
			38												
			39												
			40												

Roberts began using water to keep sand from backing up into augers. Took two jar samples from 25-27' bgs.

SCS ENGINEERS

Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

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

Facility/Project Name IPL- Burlington Generating Station SCS#: 25215135.80		License/Permit/Monitoring Number		Boring Number MW-303	
Boring Drilled By: Name of crew chief (first, last) and Firm Mike Mueller Cascade Drilling		Date Drilling Started 12/15/2015		Date Drilling Completed 12/15/2015	
Drilling Method 4-1/2 hollow stem auger		Unique Well No.		DNR Well ID No.	
Common Well Name MW-303		Final Static Water Level Feet		Surface Elevation 531.0 Feet	
Borehole Diameter 8.5 in		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		Local Grid Location	
State Plane 278,450 N, 2,300,854 E S/C/N		Lat ° ' "		<input type="checkbox"/> N <input type="checkbox"/> E	
SE 1/4 of SW 1/4 of Section 29, T 69 N, R 2 W		Long ° ' "		Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W	
Facility ID		County Des Moines		Civil Town/City/ or Village Burlington	

Sample		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					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			1-9	FILL, boring location was cleared to 10' bgs by hydrovac, then back filled.	FILL									
S1	0	46 88	10-11	LEAN CLAY, dark gray (10YR 3/1).	CL									Rock in the end of shoe.
S2	14	24 45	13-14											

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

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

SCS ENGINEERS

Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

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

Facility/Project Name IPL- Burlington Generating Station SCS#: 25215135.80		License/Permit/Monitoring Number		Boring Number MW-304	
Boring Drilled By: Name of crew chief (first, last) and Firm Mike Mueller Cascade Drilling		Date Drilling Started 12/15/2015		Date Drilling Completed 12/15/2015	
Unique Well No.		DNR Well ID No.		Common Well Name MW-304	
Final Static Water Level Feet		Surface Elevation 532.2 Feet		Borehole Diameter 8.5 in	

Local Grid Origin (estimated:) or Boring Location
 State Plane 278,721 N, 2,300,883 E S/C/N Lat _____ ° _____ ' _____ "
 SE 1/4 of SW 1/4 of Section 29, T 69 N, R 2 W Long _____ ° _____ ' _____ "
 Local Grid Location _____ Feet N _____ Feet E
 _____ Feet S _____ Feet W

Facility ID _____ County Des Moines Civil Town/City/ or Village Burlington

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						RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			1	FILL, boring location was cleared to 10' bgs by hydrovac, then back filled.											
			2												
			3												
			4												
			5		FILL										
			6												
			7												
			8												
			9												
			10	FAT CLAY, dark gray (10YR 3/1).											
S1	12	3 4 11 14	11												
			12												
			13		CH										
			14												
S2		2 3 5 5	14												
			15												

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

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

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

Facility/Project Name IPL- Burlington Generating Station SCS#: 25215135.80		License/Permit/Monitoring Number		Boring Number MW-305	
Boring Drilled By: Name of crew chief (first, last) and Firm Mike Mueller Cascade Drilling			Date Drilling Started 12/17/2015	Date Drilling Completed 12/17/2015	Drilling Method 4-1/2 hollow stem auger
Unique Well No.	DNR Well ID No.	Common Well Name MW-305	Final Static Water Level Feet	Surface Elevation 530.9 Feet	Borehole Diameter 8.5 in
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 280,157 N, 2,300,473 E S/C/N			Lat _____ ° ' "		Local Grid Location
NE 1/4 of SW 1/4 of Section 29, T 69 N, R 2 W			Long _____ ° ' "		Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W

Facility ID	County Des Moines	Civil Town/City/ or Village Burlington
-------------	-----------------------------	--

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					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			1	FILL, boring location was cleared to 5' bgs by hydrovac, then back filled.	FILL									
S1	14	13 30 20 12	6	SILT, ash, black (2.5Y 2.5/1), (fill).	ML					M				
S2	6	3 4 2 1	9							M				
S3	5	4 4 6 7	11	LEAN CLAY, olive (5Y 4/4).	CL					M				
S4	10	2 4 6 8	14	same as above except, black (2.5Y 2.5/1).						M				

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

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

Boring Number MW-305

Page 2 of 2

Sample		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					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S5	14	11 23	16	LEAN CLAY, olive (5Y 4/4). (continued)	CL									
			17											
S6	16	11 22	18	same as above except, very dark gray (10YR 3/1).										
			19											
S7	12	12 45	20	POORLY GRADED SAND, very dark gray (10YR 3/1), coarse grained.										
			21							W				
			22											
S8	12	11 23	23		SP									
			24								W			
			25											
S9	8		26											
			27							W				
				End of Boring at 27.50 ft bgs.										

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

Facility/Project Name IPL- Burlington Generating Station SCS#: 25215135.80		License/Permit/Monitoring Number		Boring Number MW-306	
Boring Drilled By: Name of crew chief (first, last) and Firm Mike Mueller Cascade Drilling			Date Drilling Started 12/16/2015		Date Drilling Completed 12/17/2015
Unique Well No.		DNR Well ID No.	Common Well Name MW-306	Final Static Water Level Feet	Surface Elevation 534.5 Feet
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane 279,643 N, 2,300,362 E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NE 1/4 of SW 1/4 of Section 29, T 69 N, R 2 W		Lat _____ Long _____		Feet _____	
Facility ID		County Des Moines		Civil Town/City/ or Village Burlington	

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					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			1	FILL, boring location was cleared to 7.5' bgs by hydrovac, then back filled.	FILL									
			2											
			3											
			4											
			5											
			6											
			7											
S1	22	68 12 12	8	SANDY SILT, very dark gray (2.5Y 3/1), fine grained sand.	ML									
			9											
			10											
S2	22	72 22	11											
			12											
			13											
S3	12	49 19 21	14											
			15											

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

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

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

Facility/Project Name IPL- Burlington Generating Station SCS#: 25215135.80		License/Permit/Monitoring Number		Boring Number MW-307	
Boring Drilled By: Name of crew chief (first, last) and Firm Mike Mueller Cascade Drilling		Date Drilling Started 12/16/2015		Date Drilling Completed 12/16/2015	
Unique Well No.		DNR Well ID No.		Common Well Name MW-307	
Final Static Water Level Feet		Surface Elevation 534.3 Feet		Borehole Diameter 8.5 in	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 279,517 N, 2,300,349 E S/C/N		Lat ° ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NE 1/4 of SW 1/4 of Section 29, T 69 N, R 2 W		Long ° ' "		Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W	

Facility ID	County Des Moines	Civil Town/City/ or Village Burlington
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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					RQD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			1	FILL, boring location was cleared to 7.5' bgs by hydrovac, then back filled.											
			2												
			3												
			4		FILL										
			5												
			6												
			7												
S1	0		8	SILT, ash, (fill).	FILL										
			9												
S2	16	13 8 6 11	10	SANDY SILT, ash, fine grained, very dark gray, (2.5Y 3/1), (fill).	FILL						W				
			11												
			12		FILL										
			13												
S3	15	4 9 6 3	14	SANDY SILT, fine grained, very dark gray, (2.5Y 3/1).	ML						W				
			15												

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

Signature <i>Jackie Rennebohm</i> for Kyle Kramer	Firm SCS Engineers 2830 Dairy Drive, Madison, WI 53718 608-224-2830	Tel: Fax:
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Amended on 10/6/2021

Boring Number MW-307

Page 2 of 2

Sample		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					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S4	18	13 55	16 17	SANDY SILT, fine grained, very dark gray, (2.5Y 3/1). <i>(continued)</i>	ML				W					
S5	20	12 22	18 19	LEAN CLAY, black, (10YR 2/1).	CL				W					
S6	16	12 46	20 21 22	POORLY GRADED SAND, coarse grained, very dark gray, (2.5Y 3/1).					W					
S7	10	12 44	23 24		SP				W					
S8	12	22 34	25 26						W					
			27	End of boring at 27 ft bgs.										

Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment , other

Facility/Project Name Burlington Generating Station		SVS#: 2H288H88		License/Permit/Monitoring Number		Boring Number MW-380A	
Boring Drilled By: Name of Crew Chief (first/last) and Firm Jeff VranP Roberts Environmental Services				Date Drilling Started "/24/2828		Date Drilling Completed 0/1/2828	
WI Unique Well No		H x R Well H x o5		Common Well Name		Final Static Water Level 12.09 Feet	
						Surface Elevation H3364 Feet MS7	
						Borehole Diameter D8 in5	
Local Grid, Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 206H10 x L 2B88B46 E S/V/x				7 at _____' _____'		Local Grid Location	
x E 1/4 of SW 1/4 of Section 26L T "6 x LR 2 W				7 ong _____' _____'		Feet <input type="checkbox"/> x Feet <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility Loc		County Des Moines		County Code		Village/Town/City or Precinct Burlington	

Sample Number and Type	7 engt9 Att5& Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USVS	Graphic Log	Well Diagram	Oh/Fth	Soil Properties						RQh/Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	OC	O288	
8			1 2 3 4 H " 0 D 6 18 11 12 13 14 1H	Blind drilled to 28' bgs See boring logs for MW-380 for log information from 8-28'bgs5											

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

Signature:  Firm: **SVS Engineers** Tel: _____
Fax: _____

This form is authorized by Chapters 2DIL2D1L2D6L261L262L263L26H and 266LWis5 Stats5. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$18 and \$2H888Lor imprisonment for up to one year depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. x, TE: See instructions for more information. Including where the completed form should be sent.

Boring number **MW-380A** Use only as an attachment to Form 4488-1225 Page **2** of **3**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Region For Each Major Unit	USVS	Graphic Log	Well Diagram	Other/Flt	Soil Properties					RQh / Comments	
Number and Type	Length Att 5 & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	OC		
S1	16	31 86	21	SI7 TLdarP gray (25Y L2.5/1) Lwit9 trace sand Lfine grain to coarse5	M7				80H	W				TooP two jar samples at 28-22' bgs5	
S2	14	H0 6 11	22	Same											
			20	Q , R7Y GRAh Eh SAX h Lfine to medium grain L trace coarse grain LdarP gray (25Y L2.5/1)5							W			Roberts began pumping water down hole to Peep sand out of augers5	
S3	D	3 " 00	31	Same L trace silt5							W				
S4	D	3 H 0 D	33	Same L fine to medium grain L grayis9 brown (25Y L3/1) L trace pieces of gravel Lno silt5							W				

Boring number **MW-380A** Use only as an attachment to Form 4488-1225 Page **3** of **3**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Region For Each Major Unit	USVS	Graphic Log	Well Diagram	Other/Flt	Soil Properties					RQh / Comments
Number and Type	Length Att 5' & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	OC	
SH	22	23	41	Q, R7Y GRAh Eh SAx h Lfine to medium grainL gray (2H/L4/1) Ltrace gravel wit9 ". layer of sticPs in middle of spoon5										7arge amount of sticPs in center of spoon5
S"	28	4"	4"	SameLfine to coarse grainLtrace gravelLgray to grayis9 brown (2H/L4/1) wit9 trace sticPs5										
S0	85H	4 2" 1"	H1	SameLno sticPs5	so									Refusal last " inches sand pushed up into augers and locPed up spoon5
SD	28	4 6 14 16	H1	SameLfine to medium grainLgray to grayis9 brown (2H/L4/1)5										TooP two jar samples from HHH' bgs5
				End of boring ar "8' below ground surface5 Set well from H' bgs5										

Route To: Watershed/Wastewater Waste Management
Remediation/Rcdevelopment Other

Facility/Project Name IPL- Burlington Generating Station SCS#: 25215135.80		License/Permit/Monitoring Number		Boring Number MW-308	
Boring Drilled By: Name of crew chief (first, last) and Firm Mike Mueller Cascade Drilling			Date Drilling Started 12/15/2015	Date Drilling Completed 12/16/2015	Drilling Method 4-1/2 hollow stem auger
Unique Well No.	DNR Well ID No.	Common Well Name MW-308	Final Static Water Level Feet	Surface Elevation 534.9 Feet	Borehole Diameter 8.5 in
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 279,359 N, 2,300,306 E S/C/N			Lat _____ ° _____ ' _____ "		Local Grid Location
NE 1/4 of SW 1/4 of Section 29, T 69 N, R 2 W			Long _____ ° _____ ' _____ "		Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W

Facility ID	County Des Moines	Civil Town/City/ or Village Burlington
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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						RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			1	FILL, boring location was cleared to 5' bgs by hydrovac, then back filled.	FILL										
S1	14	22 12 13 15	5-6	SANDY SILT, olive brown (2.5Y 4/3).									W		
S2	18	2 2 4 8	8-9										W		
S3	18	1 2 2 50	11-12		MLS								W		
S4	14	3 15 50	13-14										W		

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

Signature 	Firm SCS Engineers 2830 Dairy Drive Madison, WI 53718	Tel: 608-224-2830 Fax:
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Boring Number MW-308

Page 2 of 2

Sample		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					RQD/ Comments
Number and Type	Length Aft. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S5	12	6 4	16	LEAN CLAY, black (2.5Y 2.5/1).	CL									
		2 4	17											
S6	12	5 6	18											
		5 10	19											
S7	18	1 1	20	SILT, very dark gray (7.5YR 3/1), trace sand.	ML									
		1 2	21											
S8	10	1 12	22	POORLY GRADED SAND, very dark gray (2.5Y 3/1), coarse grained.										
		13 18	23											
S9	12	2 6	24		SP									
		8 10	25											
S10		2 2	26											
		6 8	27											
			28											
			29	End of Boring at 29.5 ft bgs.										

SCS ENGINEERS

Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

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

Facility/Project Name IPL- Burlington Generating Station SCS#: 25215135.80		License/Permit/Monitoring Number		Boring Number MW-309	
Boring Drilled By: Name of crew chief (first, last) and Firm Kevin Collins Direct Push Analytical		Date Drilling Started 3/1/2016		Date Drilling Completed 3/1/2016	
Drilling Method 4-1/2 hollow stem auger		Final Static Water Level Feet		Surface Elevation 534.1 Feet	
Unique Well No.		DNR Well ID No.		Common Well Name MW-309	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane 279,210 N, 2,300,022 E S/C/N		Local Grid Location	
SW 1/4 of SW 1/4 of Section 29, T 69 N, R 2 W		Lat _____ ' _____ "		Feet <input type="checkbox"/> N <input type="checkbox"/> E	
		Long _____ ' _____ "		Feet <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Des Moines		Civil Town/City/ or Village Burlington	

Sample		Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties						RQD/ Comments
Number and Type	Length Att. & Recovered (in)							Blow Counts	Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
		1-10	FILL, boring location was cleared to 10' bgs by hydrovac, then back filled.	FILL	[Hatched Pattern]	[Well Diagram]								
S1	14	10-11	LEAN CLAY, olive brown (2.5Y 4/3).	CL							W			
S2	34	11-14	Same as above except, gray (2.5Y 6/1).	CL							W			

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

Signature <i>[Signature]</i>	Firm SCS Engineers 2830 Dairy Drive Madison, WI 53718	Tel: 608-224-2830 Fax:
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Boring Number MW-309

Page 2 of 2

Sample		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					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S3	34		16	LEAN CLAY, olive brown (2.5Y 4/3). (continued)	CL									
			17	Same as above except, very dark gray (2.5Y 3/1).										
S4	31		18	POORLY GRADED SAND, coarse grained, very dark gray (10YR 3/1).	SP									
			19											
			20											
			21											
			22											
			23											
			24											
			25	End of Boring at 25 feet bgs.										

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

Facility/Project Name IPL- Burlington Generating Station SCS#: 25215135.80		License/Permit/Monitoring Number		Boring Number MW-310	
Boring Drilled By: Name of crew chief (first, last) and Firm Kevin Collins Direct Push Analytical		Date Drilling Started 3/1/2016		Date Drilling Completed 3/1/2016	
Unique Well No.		DNR Well ID No.		Common Well Name MW-310	
Final Static Water Level Feet		Surface Elevation 532.2 Feet		Borehole Diameter 8.5 in	

Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		Lat _____		Local Grid Location	
State Plane 279,610 N, 2,298,832 E S/C/N		Long _____		<input type="checkbox"/> N <input type="checkbox"/> E	
NE 1/4 of SE 1/4 of Section 30, T 69 N, R 2 W				<input type="checkbox"/> S <input type="checkbox"/> W	

Facility ID	County Des Moines	Civil Town/City/ or Village Burlington
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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					RQD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200		
S1	13		1	LEAN CLAY WITH SAND, dark olive brown (2.5Y 3/3).											
			2												M
			3												
S2	33		4	Same as above except, very dark gray (2.5Y 3/1).	CL										
			5												M
S3	22		6	Trace organics.											
			7												M
S4	31		8	SILTY SAND, very dark grayish brown (2.5Y 3/2).	SM										
			9												
			10												W
			11	POORLY GRADED SAND, coarse grained, very dark grayish brown (2.5Y 3/2).	SP										
			12												
			13												
			14												
			15												

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

Signature	Firm SCS Engineers 2830 Dairy Drive Madison, WI 53718	Tel: 608-224-2830 Fax:
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Boring Number MW-310

Page 2 of 2

Sample		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					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S5	35		16	POORLY GRADED SAND, coarse grained, very dark grayish brown (2.5Y 3/2). (continued)	SP									
			17											
S6	NA		18	LEAN CLAY, dark gray (2.5Y 4/1).	CL									
			19											
			20											
			21											
S6	NA		22	POORLY GRADED SAND, very dark grayish brown (2.5Y 3/2).	SP									
			23											
			24											
			24	End of Boring at 24 feet bgs.										

Sample stuck in discrete sampler. Refusal @24'.

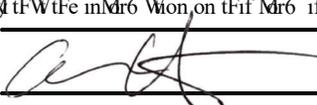
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Route To: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name IPL- Burlington Generating Station SCS#: 25215135.80		License/Permit/Monitoring Number		Boring Number MW-311	
Boring Drilled By: Name of crew chief (first, last) and Firm Kevin Collins Direct Push Analytical		Date Drilling Started 3/1/2016		Date Drilling Completed 3/1/2016	
Unique Well No.		DNR Well ID No.		Common Well Name MW-311	
Final Static Water Level Feet		Surface Elevation 532.7 Feet		Borehole Diameter 8.5 in	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane 279,439 N, 2,298,835 E S/C/N		Local Grid Location	
NE 1/4 of SE 1/4 of Section 30 , T 69 N, R 2 W		Lat _____ Long _____		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Des Moines		Civil Town/City/ or Village Burlington	

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					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1	14		1	TOPSOIL.	TOPSOIL									
			2	LEAN CLAY, dark olive brown (2.5Y 3/3).	CL					M				
S2	8		4	POORLY GRADED SAND, yellowish brown (10YR 5/8), coarse grained.										
			6		SP				M					
S3	6		8	LEAN CLAY, very dark gray (2.5Y 3/1).										
			10		CL				M			Rock in shoe.		
S4	25		14											

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

Signature 	Firm SCS Engineers 2830 Dairy Drive Madison, WI 53718	Tel: 608-224-2830 Fax:
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Boring Number MW-311

Page 2 of 2

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S5	34		16	LEAN CLAY, very dark gray (2.5Y 3/1). (continued)	CL									
			17	SILTY SAND, black (2.5Y 2.5/1).	SM									
			18											
S6	40		19	POORLY GRADED SAND, very dark grayish brown (2.5Y 3/2).	SP									
			20	SILTY SAND, very dark grayish brown (2.5Y 3/2).	SM									
			21											
			22											
S7	45		23	SILT, very dark grayish brown (2.5Y 3/2).	ML									
			24	LEAN CLAY, dark gray (2.5Y 4/1), laminated, organics.	CL									
			25											
			26											
			27											
S8			28	POORLY GRADED SAND, very dark grayish brown (2.5Y 3/2).	SP									
			29	LEAN CLAY, dark gray (2.5Y 4/1), laminated, organics.	CL									
			30											
			31	Same as above except, dark greenish gray (5GY 4/1), shells.										
32	End of Boring at 32 feet bgs.													

SCS ENGINEERS

Environmental Consultants and Contractors

SOIL BORING LOG INFORMATION

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

Facility/Project Name IPL - Burlington Generating Station SCS#: 25218220.00		License/Permit/Monitoring Number		Boring Number MW312	
Boring Drilled By: Name of crew chief (first, last) and Firm Jeff Crank Roberts Environmental Drilling		Date Drilling Started 5/20/2019		Date Drilling Completed 5/20/2019	
Unique Well No.		DNR Well ID No.		Common Well Name MW312	
Final Static Water Level 531.08 Feet		Surface Elevation 533.8 Feet		Borehole Diameter 8.5 in	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane 279,576 N, 2,300,970 E S/C/N		Local Grid Location	
SE 1/4 of SW 1/4 of Section 29, T 69 N, R 2		Lat _____"		Feet <input type="checkbox"/> N <input type="checkbox"/> E	
		Long _____"		Feet <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Des Moines		Civil Town/City/ or Village Burlington	

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					RQD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			1-8	Hydrovaced to 8'											
4	33 67		9	LEAN CLAY, teal/blue, (GLEY1 5/10 GY), trace coarse sand.								M			
18	34 57		11	same as above but dark green, (GLEY1 3/10 GY), with gravel.	CL							M			
10	12 58		13	trace organic material								M			
			14	same as above but dark green, (10YR 2/1).											

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

Signature 	Firm SCS Engineers 2830 Dairy Drive, Madison, WI 53718	Tel: Fax:
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Boring Number MW312

Page 2 of 2

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
24	1 4 5 6		14 16 17 18	LEAN CLAY, teal/blue, (GLEY1 5/10 GY), trace coarse sand. (continued)	CL			M						
	2 3 3 4		19 20							M				
	6 0 1 2 3		21 22	POORLY GRADED SAND, fine to coarse, (2.5YR 3/2).						W				
	6 1 2 4 5		23 24		SP			W						
	4		25					W						
			26	End of Boring at 26 feet.										

SCS ENGINEERS

Environmental Consultants and Contractors

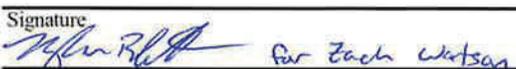
SOIL BORING LOG INFORMATION

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

Facility/Project Name IPL - Burlington Generating Station SCS#: 25218220.00		License/Permit/Monitoring Number		Boring Number MW313	
Boring Drilled By: Name of crew chief (first, last) and Firm Jeff Crank Roberts Environmental Drilling		Date Drilling Started 5/21/2019		Date Drilling Completed 5/21/2019	
Unique Well No.		DNR Well ID No.		Common Well Name MW313	
Final Static Water Level 531.05 Feet		Surface Elevation 534.0 Feet		Borehole Diameter 8.5 in	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane 279,130 N, 2,300,907 E S/C/N		Local Grid Location	
SE 1/4 of SW 1/4 of Section 29, T 69 N, R 2		Lat _____ "		Feet <input type="checkbox"/> N <input type="checkbox"/> E	
Long _____ "		Feet <input type="checkbox"/> S <input type="checkbox"/> W		Feet <input type="checkbox"/> W	
Facility ID		County Des Moines		Civil Town/City/ or Village Burlington	

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					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			1	Hydrovaced to 8'										
			2											
			3											
			4											
			5											
			6											
			7											
			8											
	8	31 45	9	LEAN CLAY, (GLEY1 4/10Y), trace coarse sand.							M			
	8	11 34	11		CL						M			
	8	11 22	13	Trace organic material							M			
			14											
			15											

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

Signature 	Firm SCS Engineers 2830 Dairy Drive, Madison, WI 53718	Tel: Fax:
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Boring Number MW313

Page 2 of 2

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
12	11	11	11	LEAN CLAY, (GLEY1 4/10Y), trace coarse sand. <i>(continued)</i>	CL									
	22	22	16	Same as above but dark gray, (10YR 2/1).										
			11											
			22											
			17											
			22											
			18											
			18											
			19											
			22											
18	11	34	21											
			22											
24	32	34	23											
			24	Small sand lenses.										
			24											
18	11	28	25											
			26	POORLY GRADED SAND, coarse.										
4			27											
			28											
10	32	46	29											
			30											
0	13	87	31											
			32	End of Boring at 32 feet.										

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a l l niU6e a ell x o3	Gx T a ell IG x o3	Vo6 6 on a ell x W6 e	AinW0tW6- a W6r 7evel 12.13 Aect
7o-W6rid , risin <input type="checkbox"/> S6fti6 W6dc <input type="checkbox"/> (or Borins 7o-W6n <input checked="" type="checkbox"/> OtW6 O6W6 2) FL' . 9 x L 2L 99IF9) w 0 RV R6 0w "R oM 0a "R oM 0e-tion 2FL : DF x LT 2 a		0SrM6 wlevW6n H2F3 HAect m07	Boreuole GiW6 eter 83 in3
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									OtW6dW6d OenetrW6n	m oiftSre Vontent	7iLSid 7i6 it	O6W6i-ity IndeC	O 299	
				Blind drilled to 28' belog sroSnd fSrM6e3 Oee losf Mr ma 5" . Mr los inMr6 W6n betg een 9528' bsf3										

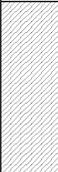
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inMr6 W6n on tuif Mr6 if not intended to be be Sfed Mr W6y utuer zSzf6e3 x , : we Oee infrS-tionf Mr 6 ore inMr6 W6nLin-lSdins g uere tue -o6 zleted Mr6
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Boring Number MW-307B

Page 2 of 4

Sample		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					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S4	40		16	FLY ASH, fine to coarse grained, black, with bottom ash throughout (fill). <i>(continued)</i> FLY ASH, fine to coarse grained, black, with bottom ash throughout (fill).										
			17											
			18											
			19											
S5	0		20	No Recovery from 20-25'.										
			21											
			22											
			23											
			24											
			25											
S6	28		27	LEAN CLAY, dark gray to black, (5Y 2.5/1), loose to dense, with trace gravel.	CL									
			28											
			29											
S7	48		30	POORLY GRADED SAND, fine to coarse grained, dark gray, (10YR 4/1), with trace clay and silt. Same as above but no clay or silt.	SP									
			31											
			32											
			33											
			34											
			35											
S8	0		36											
			37											
			38											
			39											
			40											

Exact depth of transition from ash to clay is uncertain due to poor sample recovery.

No recovery 35 - 40' bgs

Boring Number MW-307B

Page 3 of 4

Sample		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					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S9	40		41	POORLY GRADED SAND, fine to coarse grained, dark gray, (10YR 4/1), with trace clay and silt. <i>(continued)</i> Same as above but gray to dark gray, (5Y 4/1).	SP									
			42											
S10	10		43	SANDY SILT, fine to coarse grained, black, (5Y 2.5/1), with pieces of wood.	ML									
			44											
S11	52		45	POORLY GRADED SAND, fine to coarse grain, dark gray, (5Y 3/1), with trace silt and gravel. Same as above but gray to dark gray, (5Y 4/1) with no silt.	SP									
			46											
S12	38		47	Same as above but gray, (5Y 5/1).	SP									
			48											
S13	50		49	Same as above with trace silt at 60'.	SP									
			50											
			51											
			52											
			53											
			54											
			55											
			56											
			57											
			58											
			59											
			60											
			61											
			62											
			63											
			64											
			65											

Boring Number MW-307B

Page 4 of 4

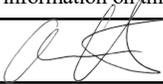
Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200		
S14	18		66	POORLY GRADED SAND, fine to coarse grain, dark gray, (5Y 3/1), with trace silt and gravel. <i>(continued)</i> Same as above but dark gray, (5YR 4/1).											
			67												
S15	48		68	Same as above but coarse grained and dark gray, (5YR 4/1).	SP										
			69												
			70												
			71												
S16	48		72	Same as above but dark grayish brown, (10YR 4/2).											
			73												
			74												
			75												
S17	50		76	LEAN CLAY, dark gray, (5Y 3/1), very dense with gravel and large cobbles, reacts with acid.	CL										
			77												
			78												
			79												
			80												
			81												
			82												
			83												
			84												
			85	End of boring at 85' below ground surface.											

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

Facility/Project Name Burlington Generating Station		SCS#: 25221160.00		License/Permit/Monitoring Number		Boring Number MW-313B	
Boring Drilled By: Name of crew chief (first, last) and Firm Mike Mueller Cascade Drilling				Date Drilling Started 5/11/2021		Date Drilling Completed 5/12/2021	
Unique Well No.		DNR Well ID No.		Common Well Name MW-313B		Final Static Water Level Feet MSL	
						Surface Elevation 533.9 Feet MSL	
						Borehole Diameter 6.0 in	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 279,110 N, 2,300,905 E <input checked="" type="checkbox"/> C/N				Lat 40° 44' 28.5"		Local Grid Location	
SE 1/4 of SW 1/4 of Section 29, T 69 N, R 2 W				Long -91° 6' 58.2"		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Des Moines		Civil Town/City/ or Village Burlington, IA			

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					RQD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			1-7	Hydrovacced to 8' below ground surface (bgs).											
S1	16		8-9	LEAN CLAY, gray to olive gray, (5Y 3/2), with gravel and trace roots.	CL				2.5	W					
S2	52		12-13	SILT, gray to dark gray, (10YR 4/1).	ML				2.0	W					
			13-14	LEAN CLAY, gray to olive gray, (5Y 3/2), with trace gravel, roots, and sticks.	CL										

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:
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Boring Number MW-313B

Page 2 of 4

Sample		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					RQD/ Comments	
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200		
S3	54		16	LEAN CLAY, gray to olive gray, (5Y 3/2,) with trace gravel, roots, and sticks. <i>(continued)</i>	CL										
			17	Same as above but black to very black, (5Y 2.5/1).										1.0	W
			18												
			19												
			20												
21	S4	58	22	SILT, very dark gray, (5Y 3/1), with trace sand.	ML										
23			0.75	W											
24															
25															
26															
27	S5	52	27		POORLY GRADED SAND, fine to coarse grained, gray to dark gray, (5Y 4/1).	SP									
28			W												
29															
30				Same as above but more fine than coarse grained.	W										
31															
32															
33	S6	16	33	SP											
34			W												
35															
36															
37					S7								19	37	SP
38	W														
39															
40		Same as above but with trace subrounded to subangular gravel.													
39															
40															

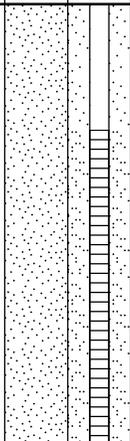
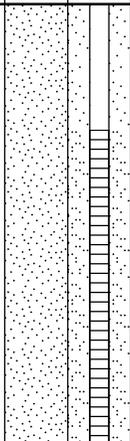
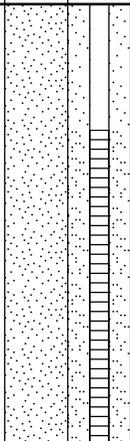
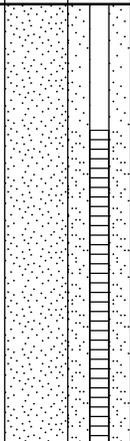
Boring Number **MW-313B**

Page 3 of 4

Sample		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					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S8	46		41	POORLY GRADED SAND, fine to coarse grained, gray to dark gray, (5Y 4/1). (continued)										
			42											
			43											
			44											
			45											
S9	33		46											
			47											
			48											
			49											
			50											
S10	30		51		SP									
			52											
			53											
			54											
			55											
S11	35		55	Same as above but grayish brown, (2.5Y 5/2).										
			56											
			57											
			58											
			59											
S12	54		60											
			61											
			62											
			63											
			64											
			65											

Boring Number MW-313B

Page 4 of 4

Sample		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					RQD/ Comments							
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200								
S13	0		66	POORLY GRADED SAND, fine to coarse grained, gray to dark gray, (5Y 4/1). (continued)	SP				W												
			67																		
			68	Same as above but with more gravel.	SP				W												
			69																		
			70	Same as above but with more gravel.	SP				W												
			71																		
S14	56		72	LEAN CLAY, gray, (5Y 3/1), very dense, with gravel and cobbles, reacts with acid.	CL				W	4.5+											
			73																		
			74																		
			75																		
				End of boring at 75' below ground surface.																	

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

Facility/Project Name Burlington Generating Station SCS#: 25221160.00		License/Permit/Monitoring Number		Boring Number MW-314	
Boring Drilled By: Name of crew chief (first, last) and Firm Ryan Peterson Terracon Consultants Inc.			Date Drilling Started 2/25/2022		Date Drilling Completed 2/25/2022
Unique Well No.	DNR Well ID No.	Common Well Name MW-314	Final Static Water Level 519.2 Feet MSL	Surface Elevation 524.1 Feet MSL	Borehole Diameter 8.3 in
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 274,984 N, 2,299,795 E <input checked="" type="checkbox"/> C/N S 1/4 of SW 1/4 of Section 32, T 69 N, R 2 W			Lat _____ " _____ "	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Des Moines		Civil Town/City/ or Village Burlington	

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					RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S1	12		1	LEAN CLAY, brown, with silt and trace sand.	CL									
			2	Same as above but with trace organic.										
S2	14		3	SANDY LEAN CLAY, dark brown, with silt and trace organic.	CL									
			4											
S3	8		5	LEAN CLAY, gray brown.	CL									
			6											
S4	14		7	FAT CLAY, gray, with silt, trace sand, and organic.	CH									
			8											
S5	14		9	LEAN CLAY, gray, with silt, trace sand, and roots.	CL									
			10											
S6	16		11	Same as above but gray brown with trace gravel.	CL									
			12											
S7	16		13											
			14											
			15											

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

Signature 	Firm SCS Engineers 2830 Dairy Drive, Madison, WI 53718 608-228-2830	Tel: Fax:
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Boring Number MW-314

Page 2 of 2

Sample		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					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Standard Penetration	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S8	14		14	LEAN CLAY, gray, with silt, trace sand, and roots. <i>(continued)</i>	CL					W				
S9	14		16-17	SANDY LEAN CLAY, fine to medium grained sand, gray brown, with trace gravel.	CL					W				
S10	16		18-20	POORLY GRADED SAND, fine to medium grained, gray brown. Same as above but fine to coarse grained.	SP					W				
S11	18		21							W				
S12	24		22-23							W				
			24	End of boring at 24' below ground surface.										



IOWA DEPARTMENT OF NATURAL RESOURCES
MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Burlington Generating Station Permit No.: _____

Well or Piezometer No: MW-301

Dates Started: 2/29/16 Date Completed: 2/29/16

A. SURVEYED LOCATIONS AND ELEVATIONS	B. SOIL BORING INFORMATION
Locations (± 0.5 ft): _____	Name & Address of Construction Company: _____
Specify corner of site: <u>SE of Parcel 16-29-300-007</u>	<u>Direct Push Analytical Corp</u>
Distance & direction along boundary: <u>119' W</u>	<u>4N969 Old LaFox Road, Unit E</u>
Distance & direction from boundary to wall: <u>356' N</u>	<u>St. Charles, IL 60175</u>
Elevations (± 0.01 ft MSL): _____	Name of Driller: <u>Kevin Collins</u>
Ground Surface: <u>535.98</u>	Drilling Method: <u>Direct Push/4.25" HSA</u>
Top of protective casing: <u>538.75</u>	Drilling Fluid: <u>NA</u>
Top of well casing: _____ <u>538.38</u>	Bore Hole Diameter: <u>8.5 inch</u>
Benchmark elevation: _____	Soil Sampling Method: <u>Macro Core</u>
Benchmark description: _____	Depth of Boring: <u>29.50 ft bgs</u>

C. MONITORING WELL INSTALLATION	
Casing material: _____ <u>PVC</u>	Placement method: <u>Gravity</u>
Length of casing: _____ <u>24.5</u>	Volume: <u>4.4 cubic ft</u>
Outside casing diameter: _____ <u>2.38"</u>	Backfill (if different from seal): _____
Inside casing diameter: _____ <u>2"</u>	Material: _____
Casing joint type: _____ <u>threaded</u>	Placement method: _____
Casing/screen joint type: _____ <u>threaded</u>	Volume: _____
Screen material: _____ <u>PVC</u>	Surface seal design: _____
Screen opening size: _____ <u>0.010"</u>	Material of protective casing: <u>Steel 4 inch</u>
Screen length: _____ <u>5 ft</u>	Material of grout between protective casing and well casing: <u>sand</u>
Depth of well: _____ <u>29.5 ft</u>	Protective cap: _____
Filter Pack: _____	Material: <u>Steel, vented</u>
Material: _____ <u>NSF R.W Sidley Inc.</u>	Vented: <input type="checkbox"/> Yes <input type="checkbox"/> No Locking: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Grain size: _____ <u>10/20</u>	Well Cap: _____
Volume: _____ <u>2.25 cubic ft</u>	Material: <u>PVC</u>
Seal (minimum 3 ft length above filter pack): _____	Vented: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Material: <u>Black Hills Bentonite 3/8 inch</u>	

D. GROUNDWATER MEASUREMENT (± 0.01 ft below top of inner well casing)	
Water level: <u>15.47 ft</u>	Stabilization Time: <u><5 minutes</u>
Well development method: <u>Surged with block and pumped to reduce turbidity. 45 gallons pumped.</u>	
Average depth of frostline: <u>3.5'</u>	

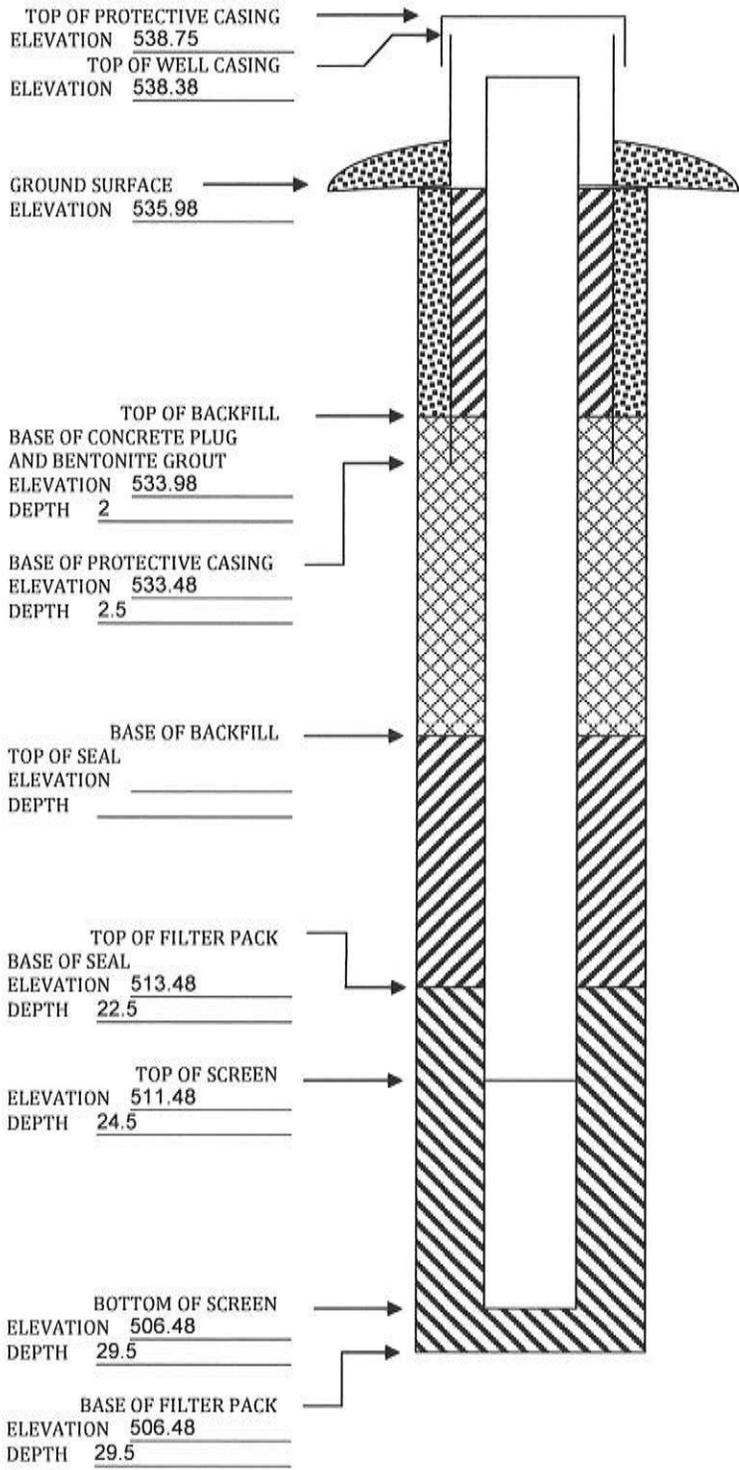
Attachments: Driller's log, Pipe schedules and grouting schedules. 8 1/2x11 inch map showing locations of all monitoring wells and piezometers.

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

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.)





IOWA DEPARTMENT OF NATURAL RESOURCES
MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Burlington Generating Station Permit No.: _____

Well or Piezometer No: MW-302

Dates Started: 2/29/16 Date Completed: 2/29/16

A. SURVEYED LOCATIONS AND ELEVATIONS	B. SOIL BORING INFORMATION
Locations (± 0.5 ft): _____	Name & Address of Construction Company: _____
Specify corner of site: <u>SE of Parcel 16-29-300-008</u>	<u>Direct Push Analytical Corp</u>
Distance & direction along boundary: <u>315' W</u>	<u>4N969 Old LaFox Road, Unit E</u>
Distance & direction from boundary to wall: <u>34'N</u>	<u>St. Charles, IL 60175</u>
Elevations (± 0.01 ft MSL): _____	Name of Driller: <u>Kevin Collins</u>
Ground Surface: <u>533.24</u>	Drilling Method: <u>Direct Push/4.25" HSA</u>
Top of protective casing: <u>535.98</u>	Drilling Fluid: <u>NA</u>
Top of well casing: _____ <u>535.69</u>	Bore Hole Diameter: <u>8.5 inch</u>
Benchmark elevation: _____	Soil Sampling Method: <u>Macro Core</u>
Benchmark description: _____	Depth of Boring: <u>28 ft bgs</u>

C. MONITORING WELL INSTALLATION	
Casing material: <u>PVC</u>	Placement method: <u>Gravity</u>
Length of casing: <u>22.5</u>	Volume: <u>2.7 cubic ft</u>
Outside casing diameter: <u>2.38"</u>	Backfill (if different from seal): _____
Inside casing diameter: <u>2"</u>	Material: _____
Casing joint type: <u>threaded</u>	Placement method: _____
Casing/screen joint type: <u>threaded</u>	Volume: _____
Screen material: <u>PVC</u>	Surface seal design: _____
Screen opening size: <u>0.010"</u>	Material of protective casing: <u>Steel 4 inch</u>
Screen length: <u>5 ft</u>	Material of grout between protective casing and well casing: <u>sand</u>
Depth of well: <u>27.5</u>	Protective cap: _____
Filter Pack: _____	Material: <u>Steel, vented</u>
Material: <u>NSF R.W Sidley Inc.</u>	Vented: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Locking: <input type="checkbox"/> Yes <input type="checkbox"/> No
Grain size: <u>10/20</u>	Well Cap: _____
Volume: <u>1.25 cubic ft</u>	Material: <u>PVC</u>
Seal (minimum 3 ft length above filter pack): _____	Vented: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Material: <u>Black Hills Bentonite 3/8 inch</u>	

D. GROUNDWATER MEASUREMENT (± 0.01 ft below top of inner well casing)	
Water level: <u>12.70 ft</u>	Stabilization Time: <u><5 minutes</u>
Well development method: <u>Surged with block and pumped to reduce turbidity. 68.5 gallons pumped.</u>	
Average depth of frostline: <u>3.5</u>	

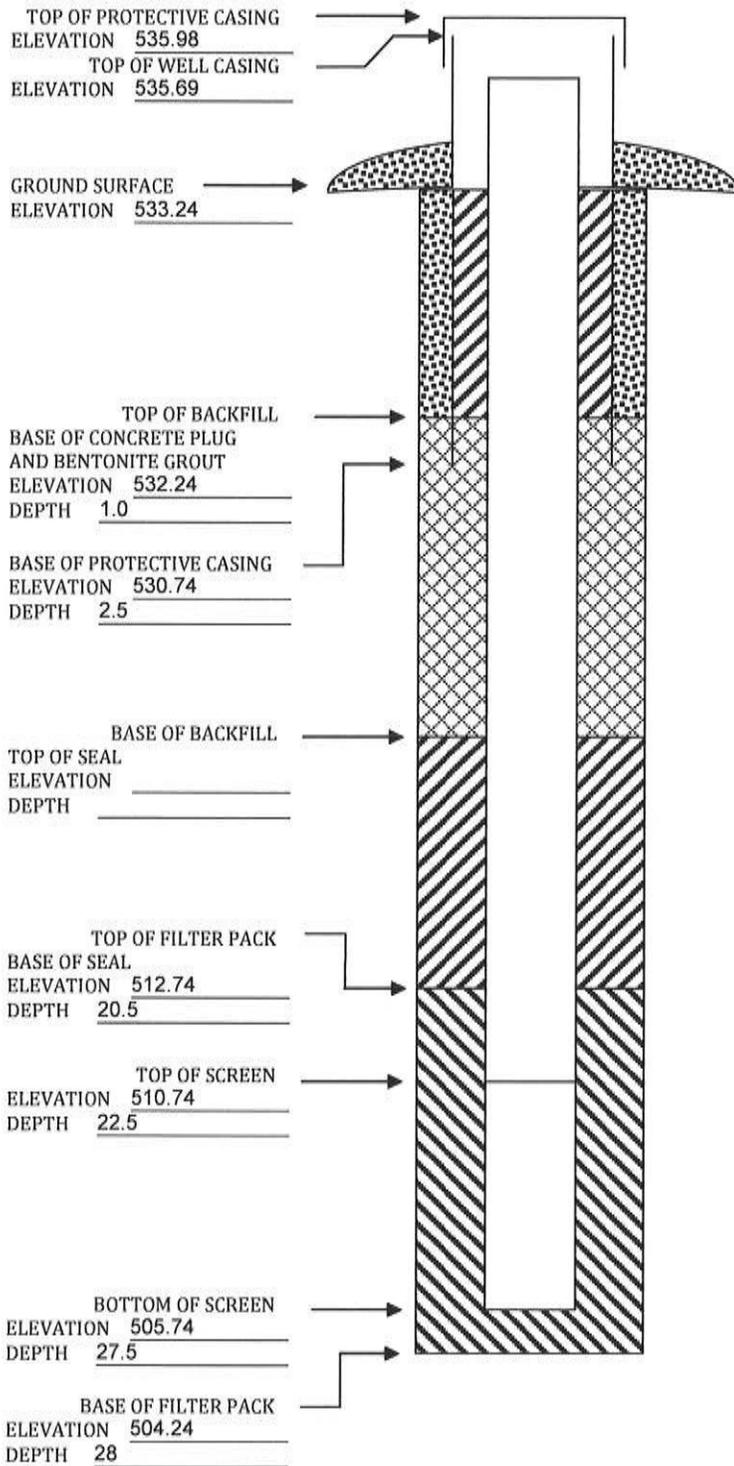
Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2x11 inch map showing locations of all monitoring wells and piezometers.

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

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.)



MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name Burlington Generating Station Permit No. _____
Well or Piezometer No. MW-302A Dates Started 6/30/2020 Date Completed 7/1/2020

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

Specify corner of site South East Corner Distance and direction along boundary _____
Distance and direction from boundary to surface monitoring well _____
Elevation (+0.01 ft. MSL) _____
Ground Surface 533.51' Top of protective casing 536.28'
Top of well casing 535.89' Benchmark elevation _____
Benchmark description _____

B. SOIL BORING INFORMATION

Construction Company Name Roberts Environmental Drilling
Address 1107 S Mulberry St City, State, Zip Code Millstadt, IL 62260
Name of driller Jeff Crank
Drilling method Hollow Stem Auger Drilling fluid Water Bore Hole diameter 4.25"
Soil sampling method Split spoon Depth of boring 61'

C. MONITORING WELL INSTALLATION

Casing material Sch. 40 PVC Placement method Pumped
Length of casing 62.5' Volume 8, 50lbs bags (120 gallons of grout)
Outside casing diameter 2.4" Backfill (if different from seal): _____
Inside casing diameter 2" Material 3/8" Bentonite chips
Casing joint type Threaded Placement method Poured
Casing/screen joint type Threaded Volume 3, 50lbs bags
Screen material Sch. 40 PVC Surface seal design: Stick-up
Screen opening size 0.01 Material of protective casing: steel
Screen length 5' Material of grout between
Depth of Well 60' protective casing and well casing: Sand
Filter Pack: _____ Protective cap: _____
Material Sand (FilterSil) Material Steel
Grain Size 18-23 Vented?: Y N Locking?: Y N
Volume 2, 50lbs bags Well cap: Lockable expanding well plug
Seal (minimum 3 ft. length above filter pack): _____ Material Plastic
Material Bentonite grout Vented?: Y N

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

Water level 14.25' Stabilization time < 5 min
Well development method Surged with bailer and pumped
Average depth of frost line 4'

DRILLER'S CERTIFICATION

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

Signature *Jeff Crank* Certification # 8515 Date 9-16-20

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2 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.

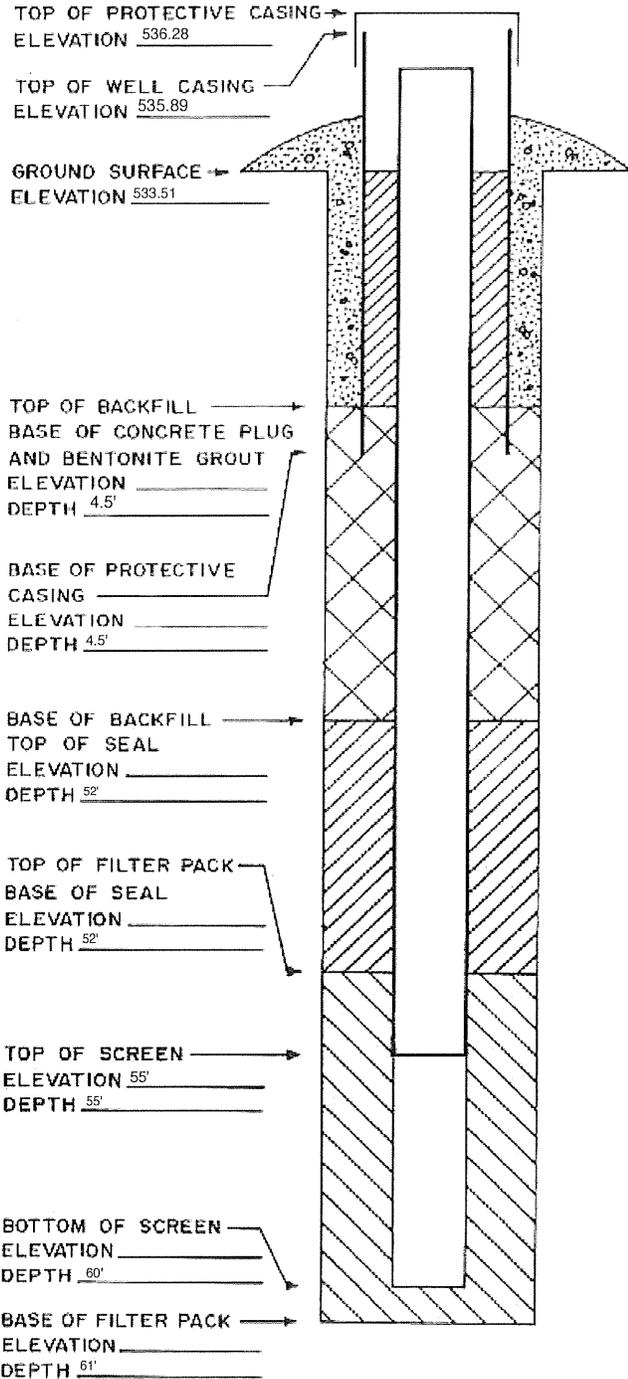
Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

09/2017 cmc

DNR Form 542-1277

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).





IOWA DEPARTMENT OF NATURAL RESOURCES
MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Burlington Generating Station Permit No.: _____
 Well or Piezometer No: MW-303
 Dates Started: 12/15/15 Date Completed: 12/15/15

A. SURVEYED LOCATIONS AND ELEVATIONS	B. SOIL BORING INFORMATION
Locations (± 0.5 ft): _____ Specify corner of site: <u>SE of Parcel 16-29-300-008</u>	Name & Address of Construction Company: <u>Cascade Drilling, LP</u>
Distance & direction along boundary: <u>89' W</u>	<u>301 Alderson St</u>
Distance & direction from boundary to wall: <u>139' N</u>	<u>Schofield, WI 54476</u>
Elevations (± 0.01 ft MSL): _____	Name of Driller: <u>Mike Mueller</u>
Ground Surface: <u>531.01</u>	Drilling Method: <u>4.25" HSA</u>
Top of protective casing: <u>534.08</u>	Drilling Fluid: <u>NA</u>
Top of well casing: _____ <u>533.6</u>	Bore Hole Diameter: <u>8.5 inch</u>
Benchmark elevation: _____	Soil Sampling Method: <u>Spoon</u>
Benchmark description: _____	Depth of Boring: <u>27 ft</u>

C. MONITORING WELL INSTALLATION	
Casing material: _____ <u>PVC</u>	Placement method: <u>Gravity</u>
Length of casing: _____ <u>21 ft</u>	Volume: <u>7.4 cubic ft</u>
Outside casing diameter: _____ <u>2.38"</u>	Backfill (if different from seal): _____
Inside casing diameter: _____ <u>2"</u>	Material: _____
Casing joint type: _____ <u>threaded</u>	Placement method: _____
Casing/screen joint type: _____ <u>threaded</u>	Volume: _____
Screen material: _____ <u>PVC</u>	Surface seal design: _____
Screen opening size: _____ <u>0.010"</u>	Material of protective casing: <u>Steel 6 inch</u>
Screen length: _____ <u>5 ft</u>	Material of grout between protective casing and well casing: <u>sand</u>
Depth of well: _____ <u>26 ft</u>	Protective cap: _____
Filter Pack: _____	Material: <u>steel, vented</u>
Material: _____ <u>Red Flint</u>	Vented: <input type="checkbox"/> Yes <input type="checkbox"/> No Locking: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Grain size: _____ <u>#40</u>	Well Cap: _____
Volume: _____ <u>2.5 cubic ft</u>	Material: <u>PVC</u>
Seal (minimum 3 ft length above filter pack): _____	Vented: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Material: <u>Hole Plug 3/8 inch</u>	

D. GROUNDWATER MEASUREMENT (± 0.01 ft below top of inner well casing)	
Water level: <u>10.55 ft</u>	Stabilization Time: <u><5 minutes</u>
Well development method: <u>Surged with block and pumped to reduce turbidity. 147 gallons pumped.</u>	
Average depth of frostline: <u>3.5'</u>	

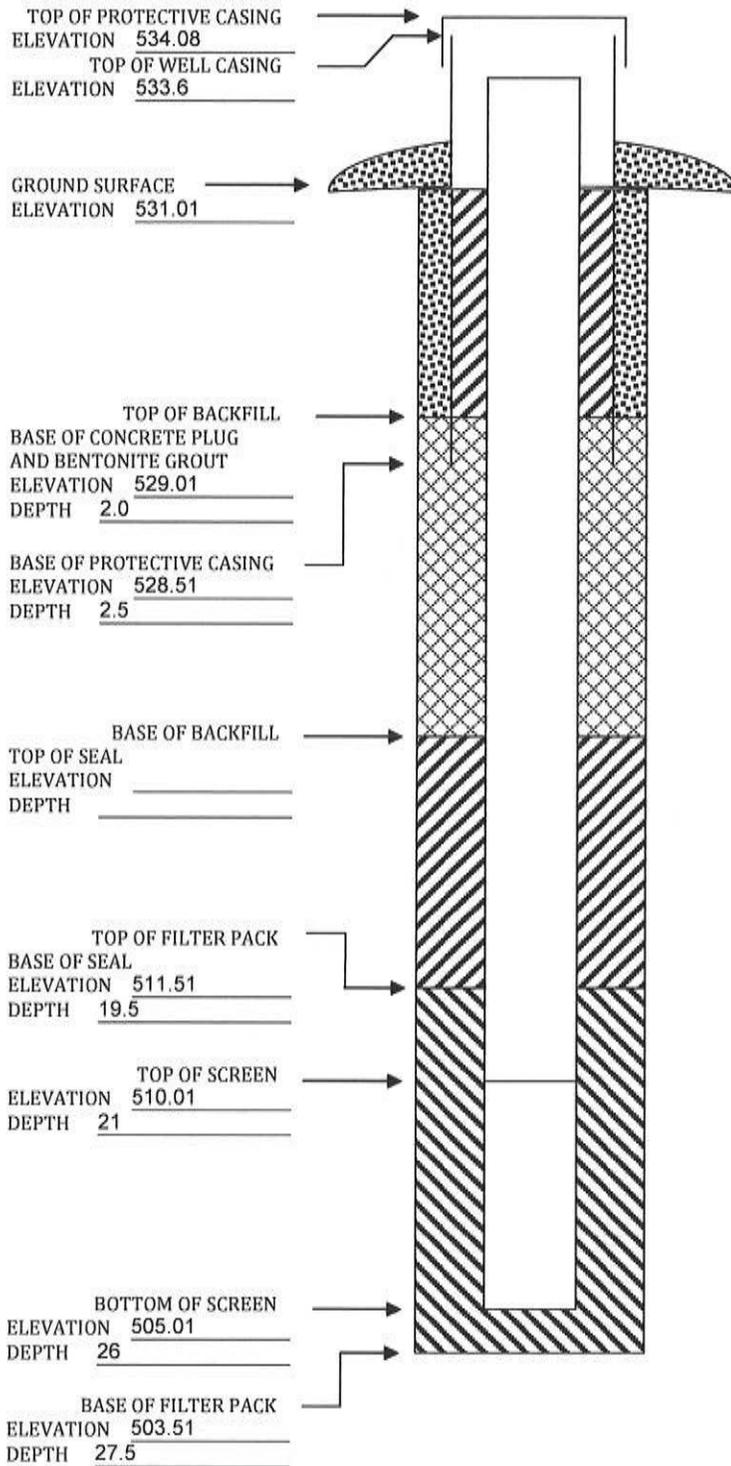
Attachments: Driller's log, Pipe schedules and grouting schedules. 8 1/2x11 inch map showing locations of all monitoring wells and piezometers.

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

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.)





IOWA DEPARTMENT OF NATURAL RESOURCES
MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Burlington Generating Station Permit No.: _____

Well or Piezometer No: MW-304

Dates Started: 12/15/15 Date Completed: 12/15/15

A. SURVEYED LOCATIONS AND ELEVATIONS	B. SOIL BORING INFORMATION
Locations (\pm 0.5 ft): _____ Specify corner of site: <u>SE of Parcel 16-29-300-008</u> Distance & direction along boundary: <u>61' W</u> Distance & direction from boundary to wall: <u>558' N</u> Elevations (\pm 0.01 ft MSL): _____ Ground Surface: <u>532.15</u> Top of protective casing: <u>535.00</u> Top of well casing: _____ <u>534.42</u> Benchmark elevation: _____ Benchmark description: _____	Name & Address of Construction Company: <u>Cascade Drilling, LP</u> <u>301 Alderson St</u> <u>Schofield, WI 54476</u> Name of Driller: <u>Mike Mueller</u> Drilling Method: <u>4.25" HSA</u> Drilling Fluid: <u>NA</u> Bore Hole Diameter: <u>8.5 inch</u> Soil Sampling Method: <u>Spoon</u> Depth of Boring: <u>27 ft</u>

C. MONITORING WELL INSTALLATION	
Casing material: <u>PVC</u> Length of casing: <u>18 ft</u> Outside casing diameter: <u>2.38"</u> Inside casing diameter: <u>2"</u> Casing joint type: <u>threaded</u> Casing/screen joint type: <u>threaded</u> Screen material: <u>PVC</u> Screen opening size: <u>0.010"</u> Screen length: <u>5 ft</u> Depth of well: <u>23 ft</u> Filter Pack: _____ Material: <u>Red Flint</u> Grain size: <u>#40</u> Volume: <u>2.0 cubic ft</u> Seal (minimum 3 ft length above filter pack): _____ Material: <u>Hole Plug 3/8 inch</u>	Placement method: <u>Gravity</u> Volume: <u>4 cubic ft</u> Backfill (if different from seal): _____ Material: _____ Placement method: _____ Volume: _____ Surface seal design: _____ Material of protective casing: <u>Steel 6 inch</u> Material of grout between protective casing and well casing: <u>sand</u> Protective cap: _____ Material: <u>steel, vented</u> Vented: <input type="checkbox"/> Yes <input type="checkbox"/> No Locking: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Well Cap: _____ Material: <u>PVC</u> Vented: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

D. GROUNDWATER MEASUREMENT (\pm 0.01 ft below top of inner well casing)
Water level: <u>11.34 ft</u> Stabilization Time: <u><5 minutes</u> Well development method: <u>Surged with block and pumped to reduce turbidity. 136 gallons pumped.</u> Average depth of frostline: <u>3.5'</u>

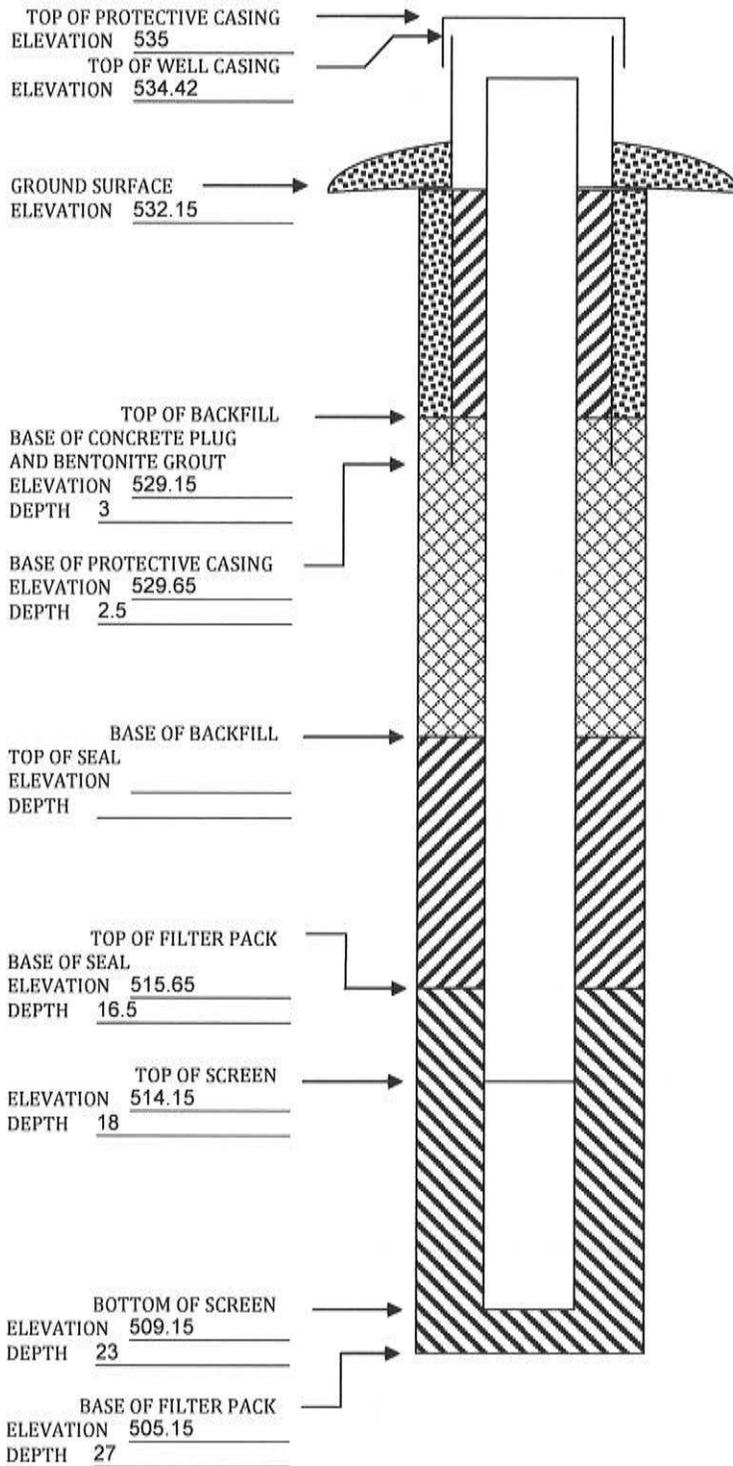
Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2x11 inch map showing locations of all monitoring wells and piezometers.

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

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.)





IOWA DEPARTMENT OF NATURAL RESOURCES
MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Burlington Generating Station Permit No.: _____

Well or Piezometer No: MW-305

Dates Started: 12/17/15 Date Completed: 12/17/15

A. SURVEYED LOCATIONS AND ELEVATIONS	B. SOIL BORING INFORMATION
Locations (\pm 0.5 ft): _____ Specify corner of site: <u>NW of Parcel 16-29-300-006</u> Distance & direction along boundary: <u>475' S</u> Distance & direction from boundary to wall: <u>297' E</u> Elevations (\pm 0.01 ft MSL): _____ Ground Surface: <u>530.85</u> Top of protective casing: <u>533.93</u> Top of well casing: _____ <u>533.28</u> Benchmark elevation: _____ Benchmark description: _____	Name & Address of Construction Company: <u>Cascade Drilling, LP</u> <u>301 Alderson St</u> <u>Schofield, WI 54476</u> Name of Driller: <u>Mike Mueller</u> Drilling Method: <u>4.25" HSA</u> Drilling Fluid: <u>NA</u> Bore Hole Diameter: <u>8.5 inch</u> Soil Sampling Method: <u>Spoon</u> Depth of Boring: <u>27.5 ft</u>

C. MONITORING WELL INSTALLATION	
Casing material: _____ <u>PVC</u> Length of casing: _____ Outside casing diameter: _____ <u>2.38"</u> Inside casing diameter: _____ <u>2"</u> Casing joint type: _____ <u>threaded</u> Casing/screen joint type: _____ <u>threaded</u> Screen material: _____ <u>PVC</u> Screen opening size: _____ <u>0.010"</u> Screen length: _____ <u>5</u> Depth of well: _____ <u>32</u> Filter Pack: _____ Material: _____ <u>Red Flint</u> Grain size: _____ <u>#40</u> Volume: _____ <u>2.0 cubic ft</u> Seal (minimum 3 ft length above filter pack): _____ Material: <u>Hole Plug 3/8 inch</u>	Placement method: <u>Gravity</u> Volume: <u>5.4 cubic ft</u> Backfill (if different from seal): _____ Material: _____ Placement method: _____ Volume: _____ Surface seal design: _____ Material of protective casing: <u>Steel 6 inch</u> Material of grout between protective casing and well casing: <u>sand</u> Protective cap: _____ Material: <u>Steel, vented</u> Vented: <input type="checkbox"/> Yes <input type="checkbox"/> No Locking: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Well Cap: _____ Material: <u>PVC</u> Vented: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

D. GROUNDWATER MEASUREMENT (\pm 0.01 ft below top of inner well casing)
Water level: <u>10.04 ft</u> Stabilization Time: <u><5 minutes</u> Well development method: <u>Surged with block and pumped to reduce turbidity. 184 gallons pumped.</u> Average depth of frostline: <u>3.5'</u>

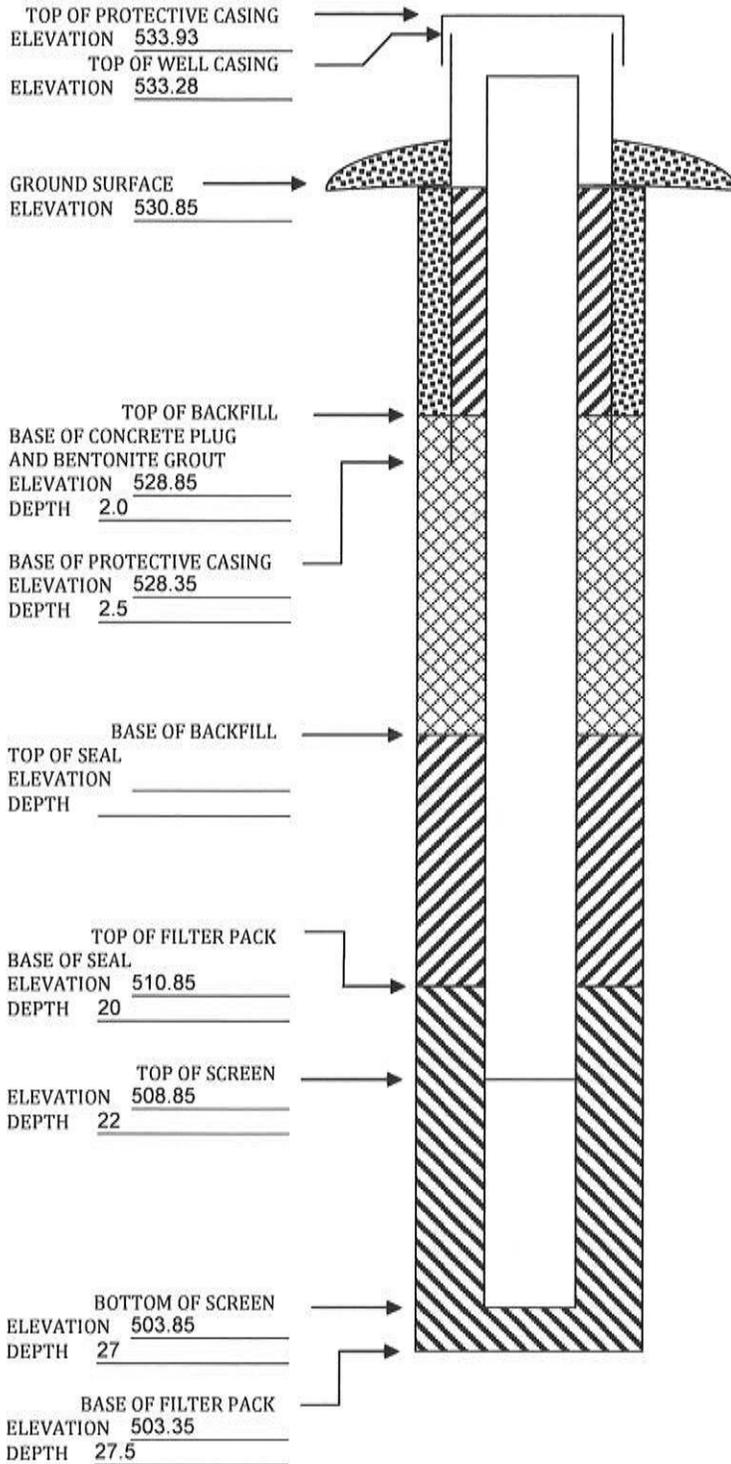
Attachments: Driller's log, Pipe schedules and grouting schedules. 8 1/2x11 inch map showing locations of all monitoring wells and piezometers.

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

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.)





IOWA DEPARTMENT OF NATURAL RESOURCES
MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Burlington Generating Station Permit No.: _____

Well or Piezometer No: MW-306

Dates Started: 12/16/15 Date Completed: 12/17/15

A. SURVEYED LOCATIONS AND ELEVATIONS	B. SOIL BORING INFORMATION
Locations (± 0.5 ft): Specify corner of site: <u>SW of Parcel 16-29-300-006</u>	Name & Address of Construction Company: <u>Cascade Drilling, LP</u>
Distance & direction along boundary: <u>328' N</u>	<u>301 Alderson St</u>
Distance & direction from boundary to wall: <u>210' E</u>	<u>Schofield, WI 54476</u>
Elevations (± 0.01 ft MSL):	Name of Driller: <u>Mike Mueller</u>
Ground Surface: <u>534.51</u>	Drilling Method: <u>4.25" HSA</u>
Top of protective casing: <u>537.44</u>	Drilling Fluid: <u>NA</u>
Top of well casing: <u>536.92</u>	Bore Hole Diameter: <u>8.5 inch</u>
Benchmark elevation: _____	Soil Sampling Method: <u>Spoon</u>
Benchmark description: _____	Depth of Boring: <u>32.5 ft</u>

C. MONITORING WELL INSTALLATION	
Casing material: <u>PVC</u>	Placement method: <u>Gravity</u>
Length of casing: <u>27 ft</u>	Volume: <u>6.7 cubic ft.</u>
Outside casing diameter: <u>2.38"</u>	Backfill (if different from seal): _____
Inside casing diameter: <u>2"</u>	Material: _____
Casing joint type: <u>threaded</u>	Placement method: _____
Casing/screen joint type: <u>threaded</u>	Volume: _____
Screen material: <u>PVC</u>	Surface seal design: _____
Screen opening size: <u>0.010"</u>	Material of protective casing: <u>Steel 6 inch</u>
Screen length: <u>5 ft</u>	Material of grout between protective casing and well casing: <u>sand</u>
Depth of well: <u>32 ft</u>	Protective cap: _____
Filter Pack: _____	Material: <u>Steel, vented</u>
Material: <u>Red Flint</u>	Vented: <input type="checkbox"/> Yes <input type="checkbox"/> No Locking: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Grain size: <u>#40</u>	Well Cap: _____
Volume: <u>2.5 cubic ft</u>	Material: <u>PVC</u>
Seal (minimum 3 ft length above filter pack): _____	Vented: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Material: <u>Hole Plug 3/8 inch</u>	

D. GROUNDWATER MEASUREMENT (± 0.01 ft below top of inner well casing)	
Water level: <u>13.65</u>	Stabilization Time: <u><5 minutes</u>
Well development method: <u>Surged with block and pumped to reduce turbidity. 120 gallons pumped.</u>	
Average depth of frostline: <u>3.5</u>	

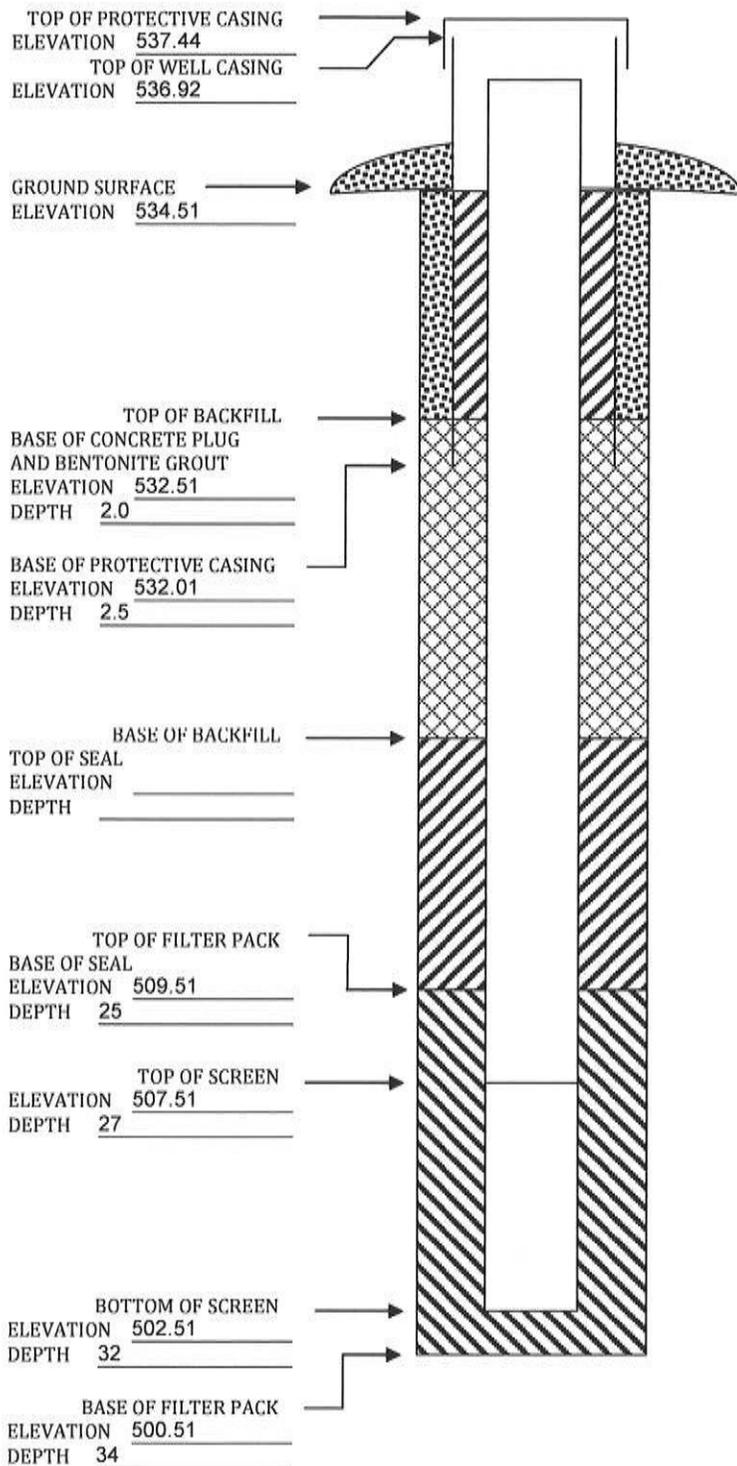
Attachments: Driller's log, Pipe schedules and grouting schedules. 8 1/2x11 inch map showing locations of all monitoring wells and piezometers.

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

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.)





IOWA DEPARTMENT OF NATURAL RESOURCES
MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Burlington Generating Station Permit No.: _____

Well or Piezometer No: MW-307

Dates Started: 12/16/15 Date Completed: 12/16/15

A. SURVEYED LOCATIONS AND ELEVATIONS	B. SOIL BORING INFORMATION
Locations (\pm 0.5 ft): _____	Name & Address of Construction Company: _____
Specify corner of site: <u>SW of Parcel 16-29-300-006</u>	<u>Cascade Drilling, LP</u>
Distance & direction along boundary: <u>201' N</u>	<u>301 Alderson St</u>
Distance & direction from boundary to wall: <u>177' E</u>	<u>Schofield, WI 54476</u>
Elevations (\pm 0.01 ft MSL): _____	Name of Driller: <u>Mike Mueller</u>
Ground Surface: <u>534.32</u>	Drilling Method: <u>4.25" HSA</u>
Top of protective casing: <u>537.54</u>	Drilling Fluid: <u>NA</u>
Top of well casing: _____ <u>536.96</u>	Bore Hole Diameter: <u>8.5 inch</u>
Benchmark elevation: _____	Soil Sampling Method: <u>Spoon</u>
Benchmark description: _____	Depth of Boring: <u>27 ft</u>

C. MONITORING WELL INSTALLATION	
Casing material: _____ <u>PVC</u>	Placement method: <u>Gravity</u>
Length of casing: _____ <u>21 ft</u>	Volume: <u>6 cubic ft.</u>
Outside casing diameter: _____ <u>2.38"</u>	Backfill (if different from seal): _____
Inside casing diameter: _____ <u>2"</u>	Material: _____
Casing joint type: _____ <u>threaded</u>	Placement method: _____
Casing/screen joint type: _____ <u>threaded</u>	Volume: _____
Screen material: _____ <u>PVC</u>	Surface seal design: _____
Screen opening size: _____ <u>0.010"</u>	Material of protective casing: <u>Steel 6 inch</u>
Screen length: _____ <u>5 ft</u>	Material of grout between protective casing and well casing: <u>sand</u>
Depth of well: _____ <u>27 ft</u>	Protective cap: _____
Filter Pack: _____	Material: <u>Steel, vented</u>
Material: _____ <u>Red Flint</u>	Vented: <input type="checkbox"/> Yes <input type="checkbox"/> No Locking: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Grain size: _____ <u>#40</u>	Well Cap: _____
Volume: _____ <u>2 cubic ft</u>	Material: <u>PVC</u>
Seal (minimum 3 ft length above filter pack): _____	Vented: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Material: <u>Hole Plug 3/8 inch</u>	

D. GROUNDWATER MEASUREMENT (\pm 0.01 ft below top of inner well casing)	
Water level: <u>13.34 ft</u>	Stabilization Time: <u><5 minutes</u>
Well development method: <u>Surged with block and pumped to reduce turbidity. 137 gallons pumped.</u>	
Average depth of frostline: <u>3.5'</u>	

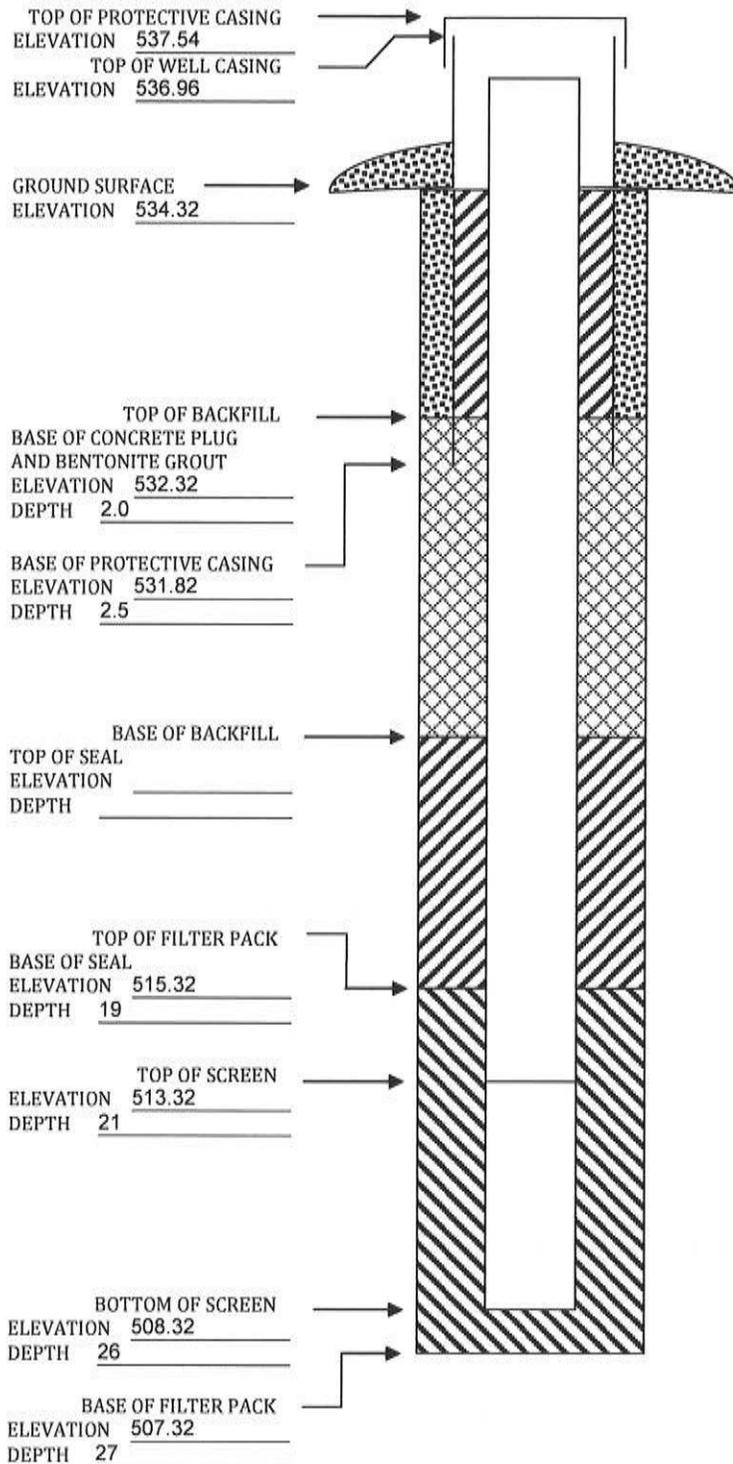
Attachments: Driller's log, Pipe schedules and grouting schedules. 8 1/2x11 inch map showing locations of all monitoring wells and piezometers.

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

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.)



MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name Burlington Generating Station Permit No. _____
Well or Piezometer No. MW-307A Dates Started 6/24/2020 Date Completed 7/1/2020

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

Specify corner of site SW of Parcel 16-29-300-00 Distance and direction along boundary 201' N
Distance and direction from boundary to surface monitoring well 177' E
Elevation (+0.01 ft. MSL) _____
Ground Surface 533.94' Top of protective casing 536.67'
Top of well casing 536.22' Benchmark elevation _____
Benchmark description _____

B. SOIL BORING INFORMATION

Construction Company Name Roberts Environmental Drilling
Address 1107 S Mulberry St City, State, Zip Code Millstadt, IL 62260
Name of driller Jeff Crank
Drilling method Hollow Stem Auger Drilling fluid Water Bore Hole diameter 4.25"
Soil sampling method Split spoon Depth of boring 60'

C. MONITORING WELL INSTALLATION

Casing material <u>Sch. 40 PVC</u>	Placement method <u>Pumped</u>
Length of casing <u>61.92'</u>	Volume <u>7, 50lbs bags (~115 gallons of grout)</u>
Outside casing diameter <u>2.4"</u>	Backfill (if different from seal): _____
Inside casing diameter <u>2"</u>	Material <u>3/8" Bentonite chips</u>
Casing joint type <u>Threaded</u>	Placement method <u>Poured</u>
Casing/screen joint type <u>Threaded</u>	Volume <u>5, 50lbs bags</u>
Screen material <u>Sch. 40 PVC</u>	Surface seal design: <u>Stick-up</u>
Screen opening size <u>0.01</u>	Material of protective casing: <u>steel</u>
Screen length <u>5'</u>	Material of grout between protective casing and well casing: <u>Sand</u>
Depth of Well <u>59'</u>	Protective cap: _____
Filter Pack: _____	Material <u>Steel</u>
Material <u>Sand (FilterSil)</u>	Vented?: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Locking?: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Grain Size <u>18-23</u>	Well cap: <u>Lockable expanding well plug</u>
Volume <u>3, 50lbs bags</u>	Material <u>Plastic</u>
Seal (minimum 3 ft. length above filter pack): _____	Vented?: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Material <u>Bentonite grout</u>	

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

Water level 14.37' Stabilization time <5 min
Well development method Surged with bailer and pumped
Average depth of frost line 4'

DRILLER'S CERTIFICATION

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

Signature *Jeff Crank* Certification # 8515 Date 9-16-20

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2 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.

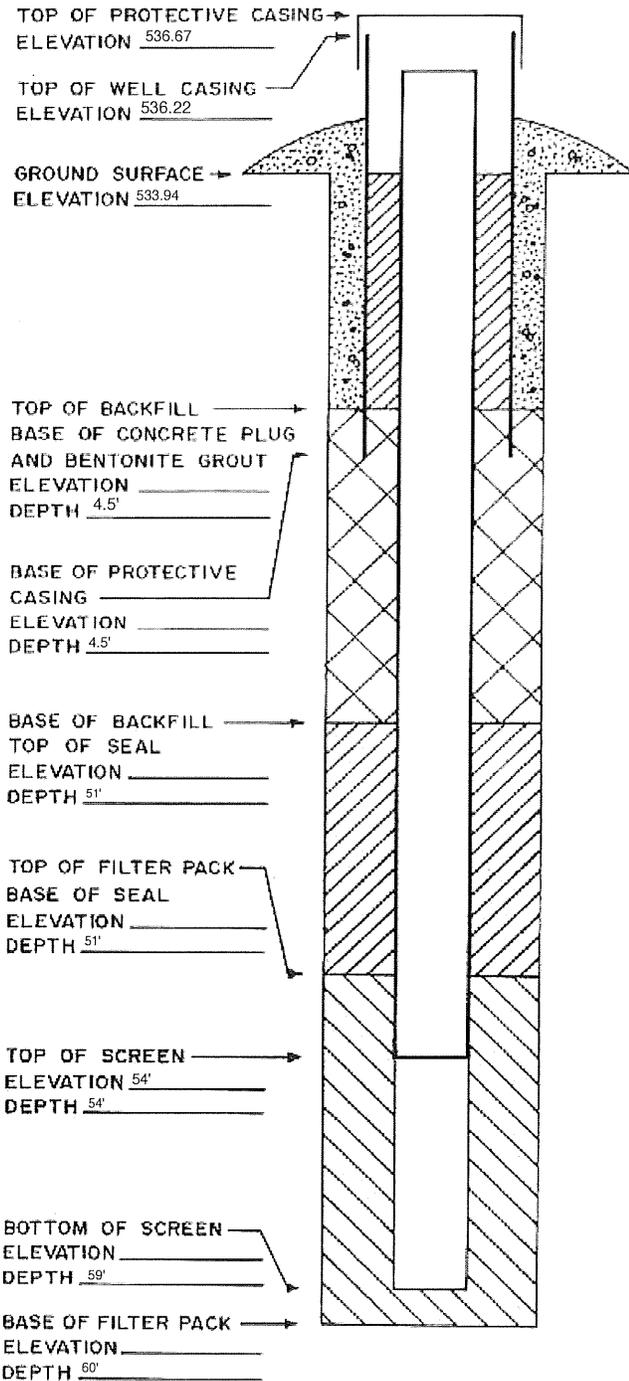
Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

09/2017 cmc

DNR Form 542-1277

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).





IOWA DEPARTMENT OF NATURAL RESOURCES
MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Burlington Generating Station Permit No.: _____

Well or Piezometer No: MW-308

Dates Started: 12/15/15 Date Completed: 12/16/15

A. SURVEYED LOCATIONS AND ELEVATIONS	B. SOIL BORING INFORMATION
Locations (± 0.5 ft): Specify corner of site: <u>SW of Parcel 16-29-300-006</u>	Name & Address of Construction Company: <u>Cascade Drilling, LP</u>
Distance & direction along boundary: <u>33' N</u>	<u>301 Alderson St</u>
Distance & direction from boundary to wall: <u>130' E</u>	<u>Schofield, WI 54476</u>
Elevations (± 0.01 ft MSL):	Name of Driller: <u>Mike Mueller</u>
Ground Surface: <u>534.89</u>	Drilling Method: <u>4.25" HSA</u>
Top of protective casing: <u>537.74</u>	Drilling Fluid: <u>NA</u>
Top of well casing: <u>537.20</u>	Bore Hole Diameter: <u>8.5 inch</u>
Benchmark elevation: _____	Soil Sampling Method: <u>Spoon</u>
Benchmark description: _____	Depth of Boring: <u>29.5 ft</u>

C. MONITORING WELL INSTALLATION	
Casing material: <u>PVC</u>	Placement method: <u>Gravity</u>
Length of casing: <u>23 ft</u>	Volume: <u>6 cubic ft.</u>
Outside casing diameter: <u>2.38"</u>	Backfill (if different from seal): _____
Inside casing diameter: <u>2"</u>	Material: _____
Casing joint type: <u>threaded</u>	Placement method: _____
Casing/screen joint type: <u>threaded</u>	Volume: _____
Screen material: <u>PVC</u>	Surface seal design: _____
Screen opening size: <u>0.010"</u>	Material of protective casing: <u>Steel 6 inch</u>
Screen length: <u>5 ft</u>	Material of grout between protective casing and well casing: <u>sand</u>
Depth of well: <u>28 ft</u>	Protective cap: _____
Filter Pack: _____	Material: <u>steel, vented</u>
Material: <u>Red Flint</u>	Vented: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Locking: <input type="checkbox"/> Yes <input type="checkbox"/> No
Grain size: <u>#40</u>	Well Cap: _____
Volume: <u>2 cubic ft.</u>	Material: <u>PVC</u>
Seal (minimum 3 ft length above filter pack): _____	Vented: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Material: <u>Hole Plug 3/8 inch</u>	

D. GROUNDWATER MEASUREMENT (± 0.01 ft below top of inner well casing)	
Water level: <u>13.95</u>	Stabilization Time: <u><5 minutes</u>
Well development method: <u>Surged with block and pumped to reduce turbidity. 151 gallons pumped.</u>	
Average depth of frostline: <u>3.5'</u>	

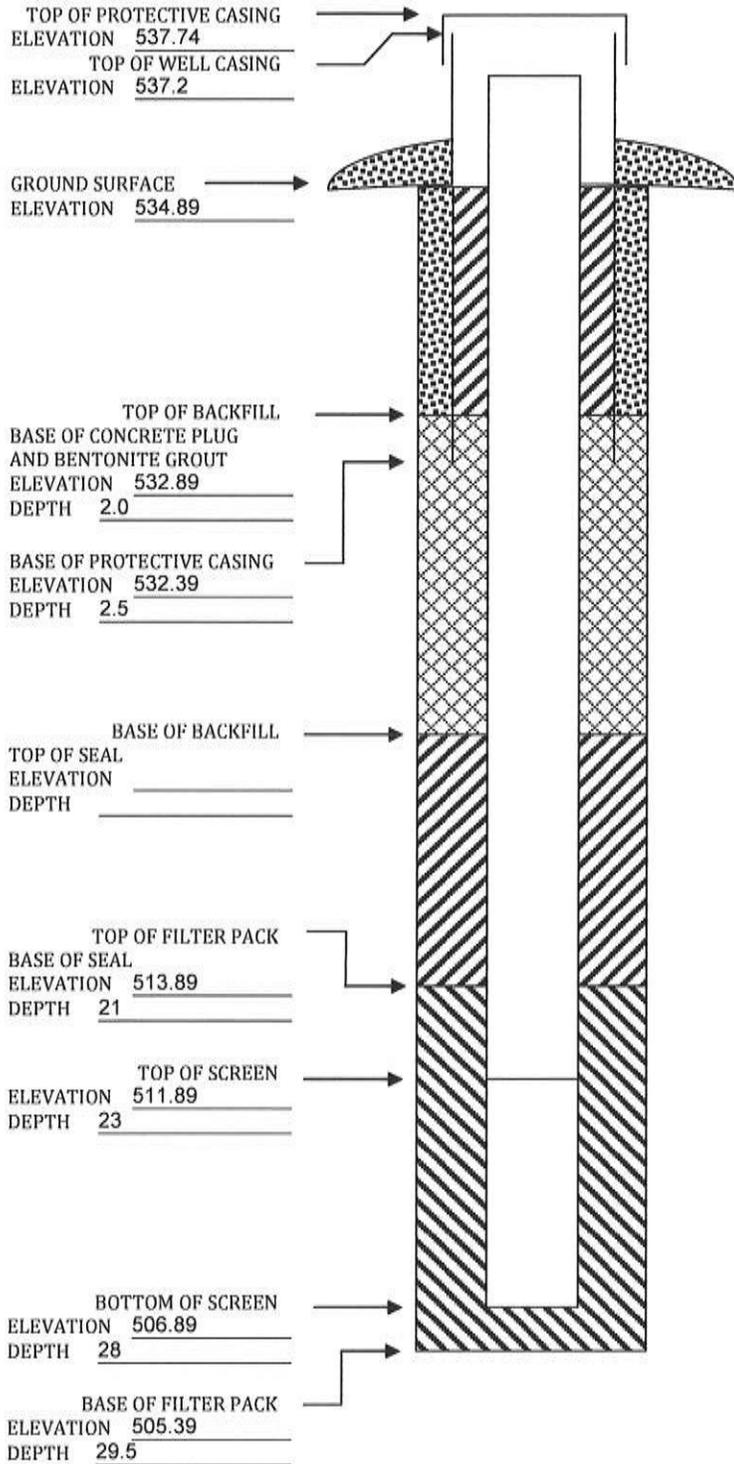
Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2x11 inch map showing locations of all monitoring wells and piezometers.

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

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.)





IOWA DEPARTMENT OF NATURAL RESOURCES
MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Burlington Generating Station Permit No.: _____

Well or Piezometer No: MW-309

Dates Started: 3/1/16 Date Completed: 3/1/16

A. SURVEYED LOCATIONS AND ELEVATIONS	B. SOIL BORING INFORMATION
Locations (± 0.5 ft): _____	Name & Address of Construction Company: _____
Specify corner of site: <u>NE of Parcel 16-29-300-007</u>	<u>Direct Push Analytical Corp</u>
Distance & direction along boundary: <u>141' S</u>	<u>4N969 Old LaFox Road, Unit E</u>
Distance & direction from boundary to wall: <u>123' W</u>	<u>St. Charles, IL 60175</u>
Elevations (± 0.01 ft MSL): _____	Name of Driller: <u>Kevin Collins</u>
Ground Surface: <u>534.11</u>	Drilling Method: <u>Direct Push/4.25" HSA</u>
Top of protective casing: <u>536.70</u>	Drilling Fluid: <u>NA</u>
Top of well casing: _____ <u>536.42</u>	Bore Hole Diameter: <u>8.5 inch</u>
Benchmark elevation: _____	Soil Sampling Method: <u>Macro Core</u>
Benchmark description: _____	Depth of Boring: <u>25 ft bgs</u>

C. MONITORING WELL INSTALLATION	
Casing material: _____ <u>PVC</u>	Placement method: <u>Gravity</u>
Length of casing: _____ <u>20</u>	Volume: <u>2 cubic ft.</u>
Outside casing diameter: _____ <u>2.38"</u>	Backfill (if different from seal): _____
Inside casing diameter: _____ <u>2"</u>	Material: <u>3/8 Hole Plug</u>
Casing joint type: _____ <u>threaded</u>	Placement method: <u>Gravity</u>
Casing/screen joint type: _____ <u>threaded</u>	Volume: _____
Screen material: <u>PVC with slip cap and 4 stainless screws</u>	Surface seal design: _____
Screen opening size: _____ <u>0.010"</u>	Material of protective casing: <u>Steel 4 inch</u>
Screen length: _____ <u>5 ft</u>	Material of grout between protective casing and well casing: <u>sand</u>
Depth of well: _____ <u>25</u>	Protective cap: _____
Filter Pack: _____	Material: <u>steel, vented</u>
Material: _____ <u>NSF R.W Sidley Inc.</u>	Vented: <input type="checkbox"/> Yes <input type="checkbox"/> No Locking: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Grain size: _____ <u>10/20</u>	Well Cap: _____
Volume: _____ <u>1.50 cubic ft.</u>	Material: <u>PVC</u>
Seal (minimum 3 ft length above filter pack): _____	Vented: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Material: <u>Black Hills Bentonite 3/8 inch</u>	

D. GROUNDWATER MEASUREMENT (± 0.01 ft below top of inner well casing)
Water level: <u>13.18</u> Stabilization Time: <u><5 minutes</u>
Well development method: <u>Surged with block and pumped to reduce turbidity. 140 gallons pumped.</u>
Average depth of frostline: _____

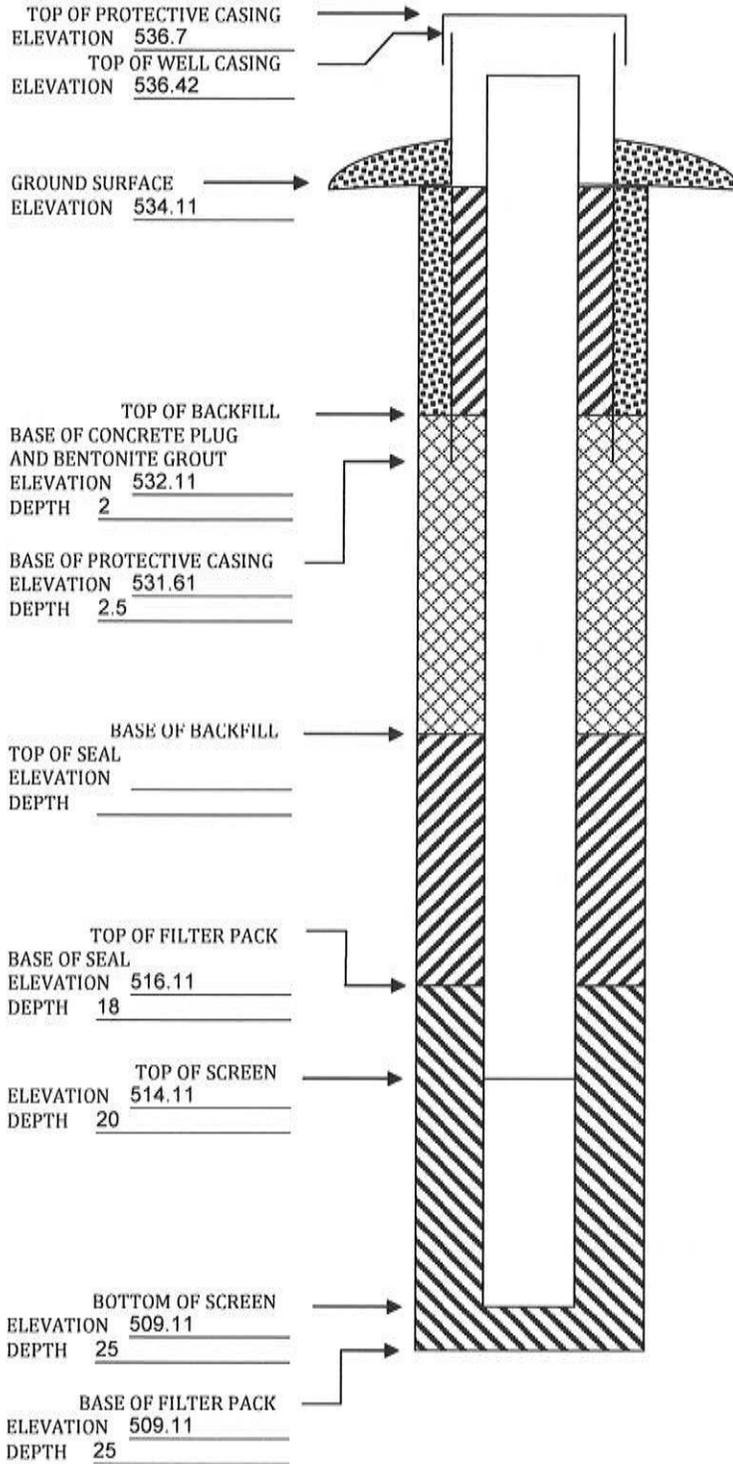
Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2x11 inch map showing locations of all monitoring wells and piezometers.

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

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.)





IOWA DEPARTMENT OF NATURAL RESOURCES
MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Burlington Generating Station Permit No.: _____

Well or Piezometer No: MW-310

Dates Started: 3/1/16 Date Completed: 3/1/16

A. SURVEYED LOCATIONS AND ELEVATIONS	B. SOIL BORING INFORMATION
Locations (± 0.5 ft): Specify corner of site: <u>Sullivan Slough RD West ROW</u>	Name & Address of Construction Company: <u>Direct Push Analytical Corp</u>
Distance & direction along boundary: <u>65' S from RR Tracks</u>	<u>4N969 Old LaFox Road, Unit E</u>
Distance & direction from boundary to wall: <u>21' W</u>	<u>St. Charles, IL 60175</u>
Elevations (± 0.01 ft MSL):	Name of Driller: <u>Kevin Collins</u>
Ground Surface: <u>532.23</u>	Drilling Method: <u>Direct Push/4.25" HSA</u>
Top of protective casing: <u>532.23</u>	Drilling Fluid: <u>NA</u>
Top of well casing: _____ <u>531.99</u>	Bore Hole Diameter: <u>8.5 inch</u>
Benchmark elevation: _____	Soil Sampling Method: <u>Macro Core</u>
Benchmark description: _____	Depth of Boring: <u>24 ft bgs</u>

C. MONITORING WELL INSTALLATION	
Casing material: _____ <u>PVC</u>	Placement method: <u>Gravity</u>
Length of casing: _____ <u>14</u>	Volume: <u>2.7 cubic ft.</u>
Outside casing diameter: _____ <u>2.38"</u>	Backfill (if different from seal): _____
Inside casing diameter: _____ <u>2"</u>	Material: _____
Casing joint type: _____ <u>threaded</u>	Placement method: _____
Casing/screen joint type: _____ <u>threaded</u>	Volume: _____
Screen material: <u>PVC with slip cap and 4 stainless screws</u>	Surface seal design: _____
Screen opening size: _____ <u>0.010"</u>	Material of protective casing: <u>Steel 4 inch</u>
Screen length: _____ <u>5 ft</u>	Material of grout between protective casing and well casing: <u>sand</u>
Depth of well: _____ <u>19 ft bgs</u>	Protective cap: _____
Filter Pack: _____	Material: <u>Steel, not vented, flush-mount</u>
Material: _____ <u>NSF R.W Sidley Inc.</u>	Vented: <input type="checkbox"/> Yes <input type="checkbox"/> No Locking: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Grain size: _____ <u>10/20</u>	Well Cap: _____
Volume: _____ <u>1 cubic ft.</u>	Material: <u>PVC</u>
Seal (minimum 3 ft length above filter pack): _____	Vented: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Material: <u>Black Hills Bentonite 3/8 inch</u>	

D. GROUNDWATER MEASUREMENT (± 0.01 ft below top of inner well casing)	
Water level: <u>6.58</u>	Stabilization Time: <u><5 minutes</u>
Well development method: <u>Surged with block and pumped to reduce turbidity. 112.5 gallons pumped.</u>	
Average depth of frostline: <u>3.5</u>	

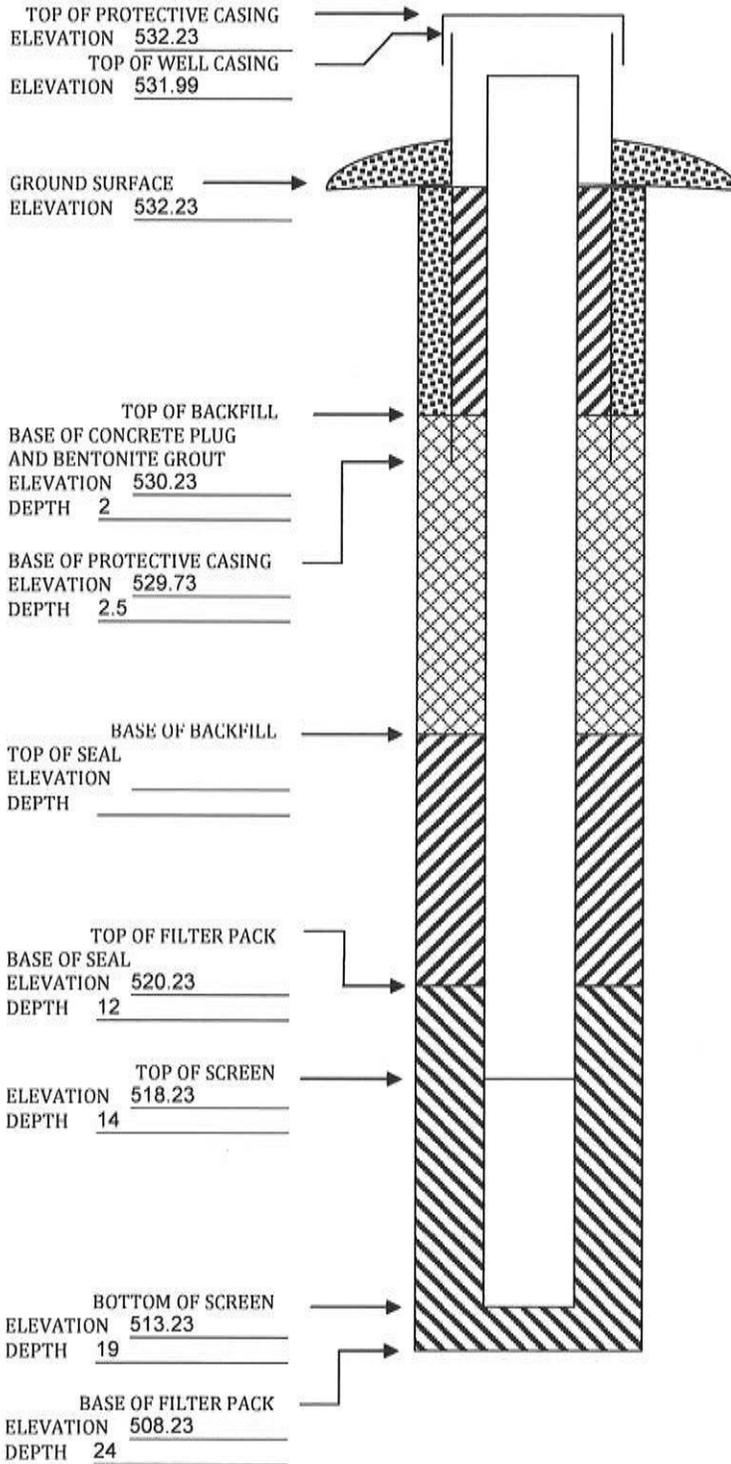
Attachments: Driller's log, Pipe schedules and grouting schedules. 8 1/2x11 inch map showing locations of all monitoring wells and piezometers.

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

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.)



MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name Burlington Generating Station Permit No. _____
Well or Piezometer No. MW-310A Dates Started 6/25/2020 Date Completed 6/26/2020

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

Specify corner of site Sullivan Slough Rd WestROW Distance and direction along boundary 75' S from RR Tracks
Distance and direction from boundary to surface monitoring well 21' W
Elevation (+0.01 ft. MSL) _____
Ground Surface 532.91' Top of protective casing 532.91'
Top of well casing 532.53' Benchmark elevation _____
Benchmark description _____

B. SOIL BORING INFORMATION

Construction Company Name Roberts Environmental Drilling
Address 1107 S Mulberry St City, State, Zip Code Millstadt, IL 62260
Name of driller Jeff Crank
Drilling method Hollow Stem Auger Drilling fluid Water Bore Hole diameter 4.25"
Soil sampling method Split spoon Depth of boring 50'

C. MONITORING WELL INSTALLATION

Casing material <u>Sch. 40 PVC</u>	Placement method <u>Pumped</u>
Length of casing <u>49.4'</u>	Volume <u>8, 50lbs bags (~130 gallons of grout)</u>
Outside casing diameter <u>2.4"</u>	Backfill (if different from seal): _____
Inside casing diameter <u>2"</u>	Material <u>3/8" Bentonite chips</u>
Casing joint type <u>Threaded</u>	Placement method <u>Poured</u>
Casing/screen joint type <u>Threaded</u>	Volume <u>23, 50lbs bags</u>
Screen material <u>Sch. 40 PVC</u>	Surface seal design: <u>Flush mount</u>
Screen opening size <u>0.01</u>	Material of protective casing: <u>steel</u>
Screen length <u>5'</u>	Material of grout between protective casing and well casing: <u>Bentonite chips</u>
Depth of Well <u>49'</u>	Protective cap: _____
Filter Pack: _____	Material <u>Steel</u>
Material <u>Sand (FilterSil)</u>	Vented?: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Locking?: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Grain Size <u>18-23</u>	Well cap: <u>Lockable expanding well plug</u>
Volume <u>3, 50lbs bags</u>	Material <u>Plastic</u>
Seal (minimum 3 ft. length above filter pack): _____	Vented?: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Material <u>Bentonite grout</u>	

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

Water level 8.77' Stabilization time >48 hrs
Well development method Surged with bailer and pumped
Average depth of frost line 4'

DRILLER'S CERTIFICATION

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

Signature *Jeff Crank* Certification # 8515 Date 9-16-20

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2 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.

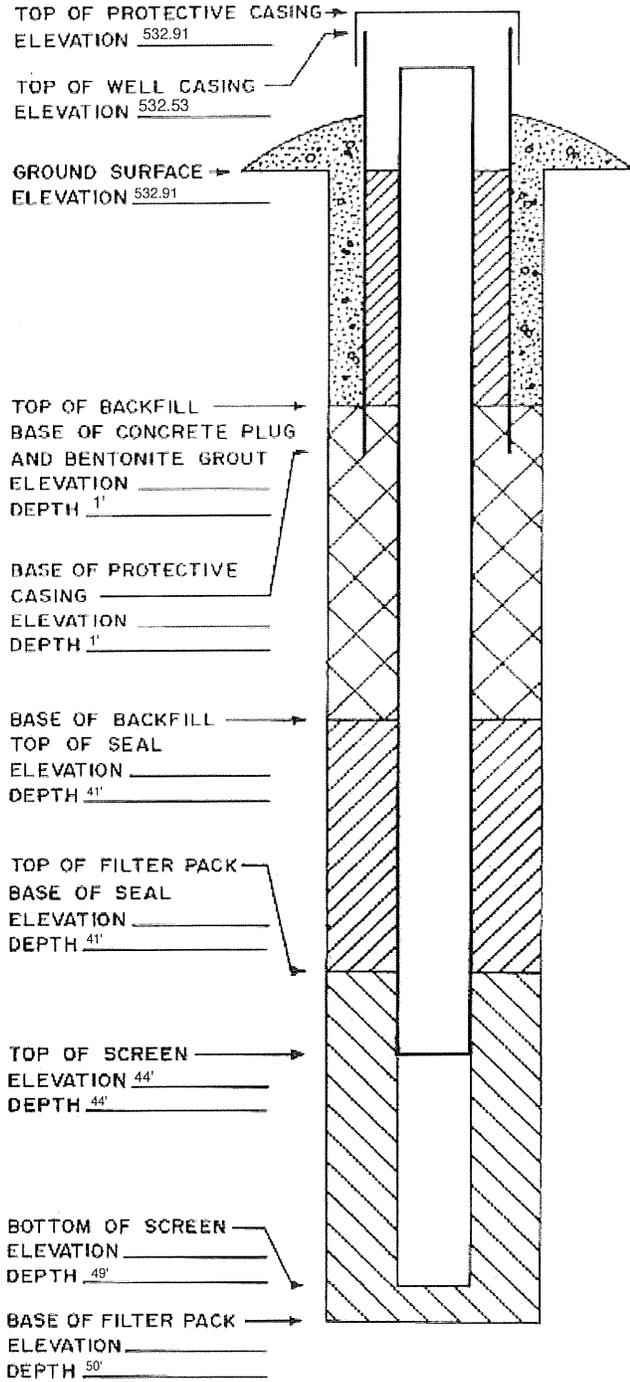
Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

09/2017 cmc

DNR Form 542-1277

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).





IOWA DEPARTMENT OF NATURAL RESOURCES
MONITORING WELL/PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name: IPL - Burlington Generating Station Permit No.: _____

Well or Piezometer No: MW-311

Dates Started: 3/1/16 Date Completed: 3/1/16

A. SURVEYED LOCATIONS AND ELEVATIONS	B. SOIL BORING INFORMATION
Locations (± 0.5 ft): _____	Name & Address of Construction Company: _____
Specify corner of site: <u>Sullivan Slough RD West ROW</u>	<u>Direct Push Analytical Corp</u>
Distance & direction along boundary: <u>207' S from RR Tracks</u>	<u>4N969 Old LaFox Road, Unit E</u>
Distance & direction from boundary to wall: <u>18' W</u>	<u>St. Charles, IL 60175</u>
Elevations (± 0.01 ft MSL): _____	Name of Driller: <u>Kevin Collins</u>
Ground Surface: <u>532.69</u>	Drilling Method: <u>Direct Push/4.25" HSA</u>
Top of protective casing: <u>532.69</u>	Drilling Fluid: <u>NA</u>
Top of well casing: _____ <u>532.32</u>	Bore Hole Diameter: <u>8.5 inch</u>
Benchmark elevation: _____	Soil Sampling Method: <u>Macro Core</u>
Benchmark description: _____	Depth of Boring: <u>32 ft bgs</u>

C. MONITORING WELL INSTALLATION	
Casing material: _____ <u>PVC</u>	Placement method: <u>Gravity</u>
Length of casing: _____ <u>18</u>	Volume: <u>3.7 cubic ft.</u>
Outside casing diameter: _____ <u>2.38"</u>	Backfill (if different from seal): _____
Inside casing diameter: _____ <u>2"</u>	Material: _____
Casing joint type: _____ <u>threaded</u>	Placement method: _____
Casing/screen joint type: _____ <u>threaded</u>	Volume: _____
Screen material: <u>PVC with slip cap and 4 stainless screws</u>	Surface seal design: _____
Screen opening size: _____ <u>0.010"</u>	Material of protective casing: <u>Steel 4 inch</u>
Screen length: _____ <u>5</u>	Material of grout between protective casing and well casing: <u>sand</u>
Depth of well: _____ <u>23</u>	Protective cap: _____
Filter Pack: _____	Material: <u>steel, not vented, flush-mount</u>
Material: _____ <u>NSF R.W Sidley Inc.</u>	Vented: <input type="checkbox"/> Yes <input type="checkbox"/> No Locking: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Grain size: _____ <u>10/20</u>	Well Cap: _____
Volume: _____ <u>1 cubic ft.</u>	Material: <u>PVC</u>
Seal (minimum 3 ft length above filter pack): _____	Vented: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Material: <u>Black Hills Bentonite 3/8 inch</u>	

D. GROUNDWATER MEASUREMENT (± 0.01 ft below top of inner well casing)	
Water level: <u>8.34 ft</u>	Stabilization Time: <u><5 minutes</u>
Well development method: <u>Surged with block and pumped to reduce turbidity. 99 gallons pumped.</u>	
Average depth of frostline: <u>3.5'</u>	

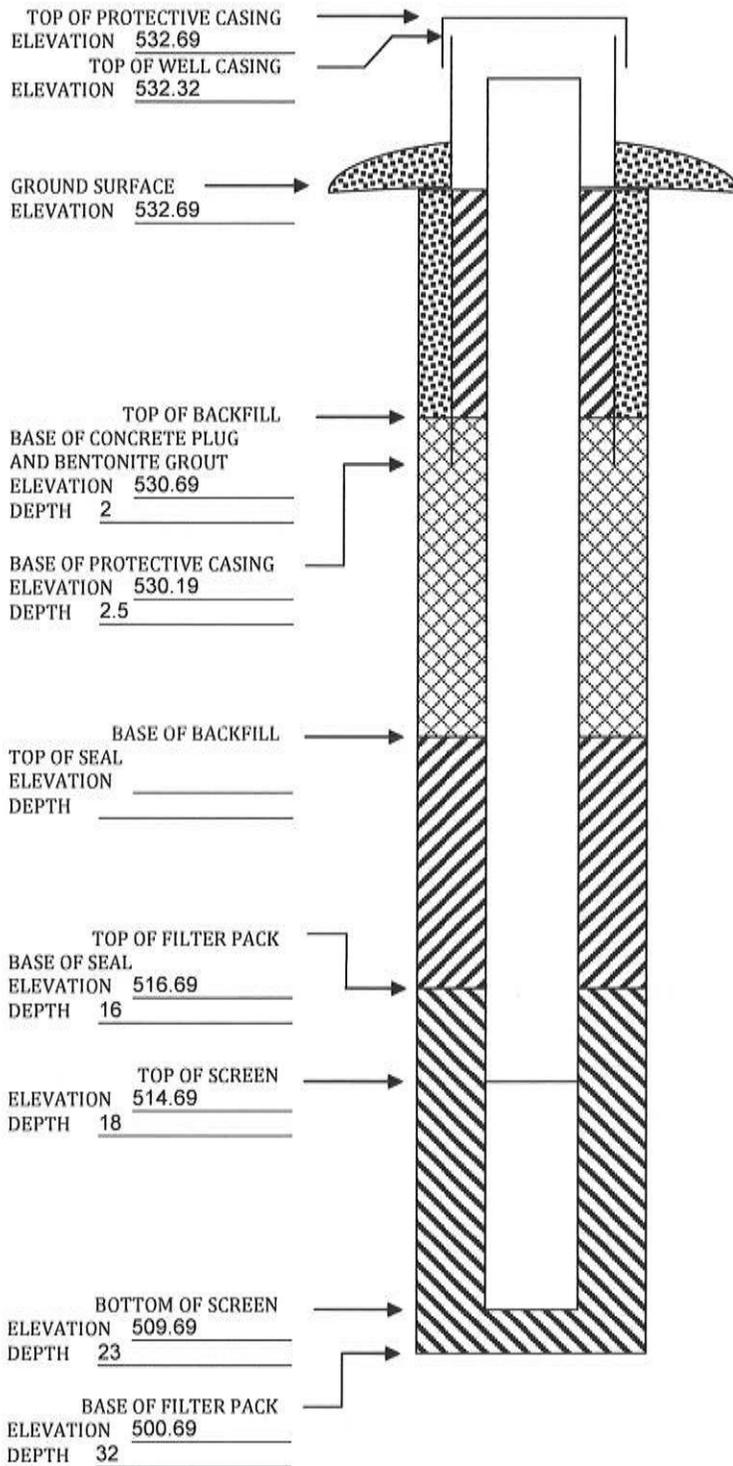
Attachments: Driller's log, Pipe schedules and grouting schedules. 8 1/2x11 inch map showing locations of all monitoring wells and piezometers.

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

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.)



MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name IPL Burlington Generating Station Permit No. _____
Well or Piezometer No. MW312 Dates Started 5/20/2019 Date Completed 5/21/2019

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

Specify corner of site SE Distance and direction along boundary 1,400 N
Distance and direction from boundary to surface monitoring well 200 W
Elevation (+0.01 ft. MSL) _____
Ground Surface 533.80 Top of protective casing 536.83
Top of well casing 536.43 Benchmark elevation _____
Benchmark description _____

B. SOIL BORING INFORMATION

Construction Company Name Roberts Environmental Drilling, Inc.
Address 1107 S Mullberry St. City, State, Zip Code Millstadt, IL 62260
Name of driller Jeff Crank
Drilling method 4.25" HSA Drilling fluid _____ Bore Hole diameter 8.5"
Soil sampling method split spoon Depth of boring 26'

C. MONITORING WELL INSTALLATION

Casing material <u>PVC</u>	Placement method <u>gravity</u>
Length of casing <u>27.65</u>	Volume <u>5 cu. ft.</u>
Outside casing diameter <u>2.4"</u>	Backfill (if different from seal): _____
Inside casing diameter <u>2.0"</u>	Material _____
Casing joint type <u>threaded</u>	Placement method _____
Casing/screen joint type <u>threaded</u>	Volume _____
Screen material <u>PVC</u>	Surface seal design: <u>Concrete</u>
Screen opening size <u>0.01"</u>	Material of protective casing: <u>Steel</u>
	Material of grout between protective casing and well casing: <u>Bentonite</u>
Screen length <u>5'</u>	Protective cap: _____
Depth of Well <u>25'</u>	Material <u>Steel</u>
Filter Pack:	Vented?: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Locking?: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Material <u>filter sand</u>	Well cap: <u>Low-flow purge cap</u>
Grain Size <u>#5</u>	Material <u>Plastic</u>
Volume <u>3 cu. ft.</u>	Vented?: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Seal (minimum 3 ft. length above filter pack):	
Material <u>Bentonite chips</u>	

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

Water level 4.85 Stabilization time < 1 hr
Well development method Surged and pumped to remove turbidity
Average depth of frost line 4 ft

DRILLER'S CERTIFICATION

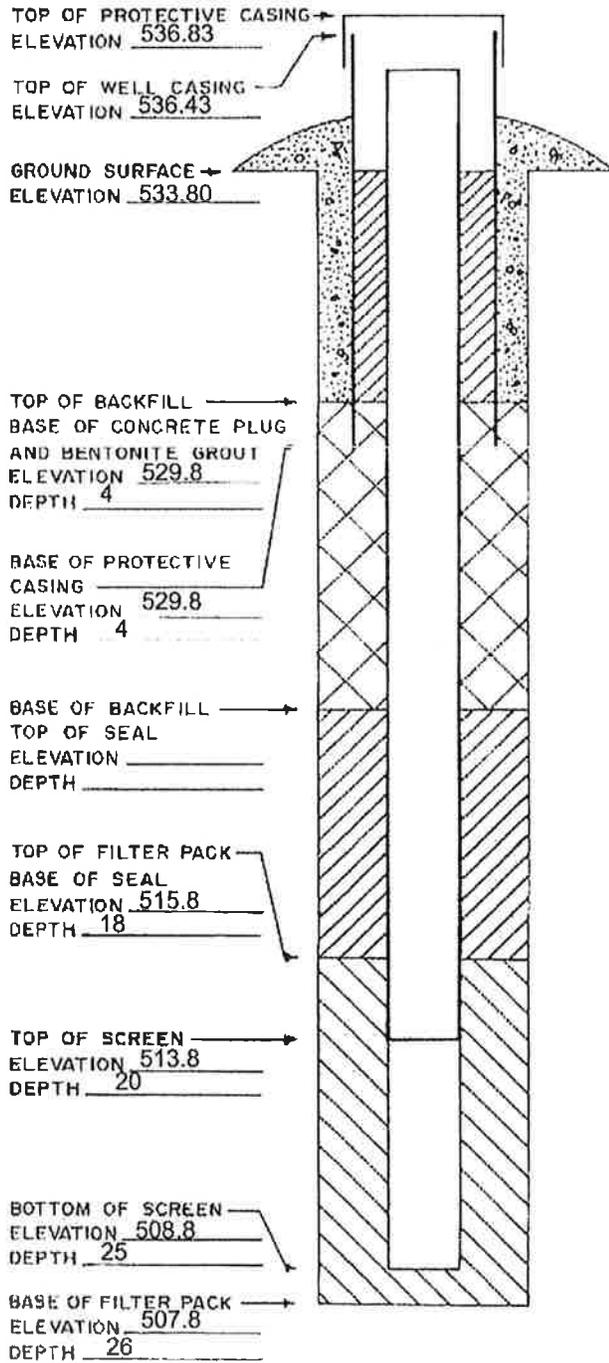
I certify under penalty of law I believe the information reported above is true, accurate, and complete.

Signature *Jeff Crank* Certification # 8515 Date 8/8/2019

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2 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

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).



MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name IPL Burlington Generating Station Permit No. _____
Well or Piezometer No. MW313 Dates Started 5/21/2019 Date Completed 5/22/2019

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

Specify corner of site SE Distance and direction along boundary 890 N
Distance and direction from boundary to surface monitoring well 130 E
Elevation (+0.01 ft. MSL) _____
Ground Surface 533.97 Top of protective casing 536.18
Top of well casing 535.82 Benchmark elevation _____
Benchmark description _____

B. SOIL BORING INFORMATION

Construction Company Name Roberts Environmental Drilling, Inc.
Address 1107 S Mullberry St. City, State, Zip Code Millstadt, IL 62260
Name of driller Jeff Crank
Drilling method 4.25" HSA Drilling fluid water Bore Hole diameter 8.5"
Soil sampling method split spoon Depth of boring 32'

C. MONITORING WELL INSTALLATION

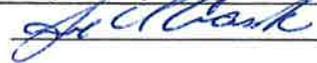
Casing material PVC Placement method gravity
Length of casing 32.99' Volume 7 cu. ft.
Outside casing diameter 2.4" Backfill (if different from seal): _____
Inside casing diameter 2.0" Material _____
Casing joint type threaded Placement method _____
Casing/screen joint type threaded Volume _____
Screen material PVC Surface seal design: Concrete
Screen opening size 0.01" Material of protective casing: Steel
Material of grout between
protective casing and well casing: Bentonite
Protective cap: _____
Material steel
Vented?: Y N Locking?: Y N
Well cap: Low-flow purge cap
Material Plastic
Vented?: Y N
Screen length 5'
Depth of Well 31'
Filter Pack:
Material filter sand
Grain Size #5
Volume 3 cu. ft.
Seal (minimum 3 ft. length above filter pack): _____
Material Bentonite chips

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

Water level 4.25 Stabilization time < 1 hr
Well development method Surged and pumped to remove turbidity
Average depth of frost line 4 ft

DRILLER'S CERTIFICATION

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

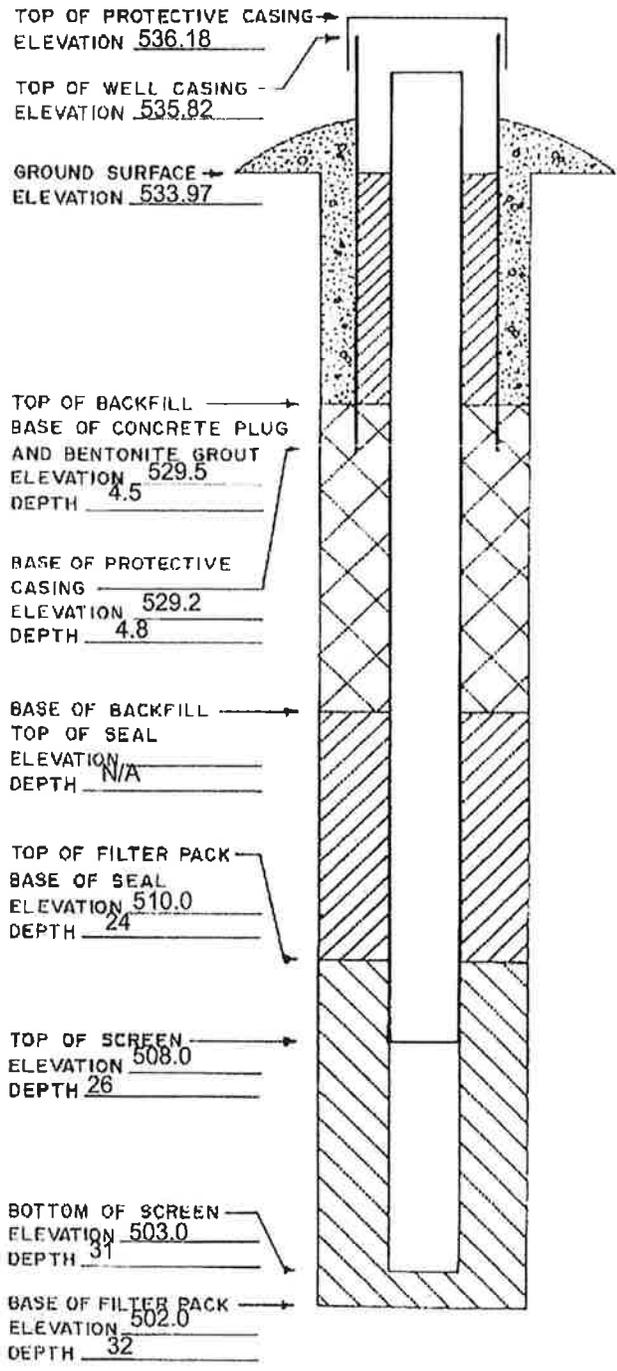
Signature  Certification # 8515 Date 8/8/2019

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2 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

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).



MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name Burlington Generating Station Permit No. _____
Well or Piezometer No. MW-313A Dates Started 6/23/2020 Date Completed 6/30/2020

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

Specify corner of site SE Distance and direction along boundary 890 N
Distance and direction from boundary to surface monitoring well 130 E
Elevation (+0.01 ft. MSL) _____
Ground Surface 529.35' Top of protective casing 532.03'
Top of well casing 531.63' Benchmark elevation _____
Benchmark description _____

B. SOIL BORING INFORMATION

Construction Company Name Roberts Environmental Drilling
Address 1107 S Mulberry St City, State, Zip Code Millstadt, IL 62260
Name of driller Jeff Crank
Drilling method Hollow Stem Auger Drilling fluid Water Bore Hole diameter 4.25"
Soil sampling method Split spoon Depth of boring 62'

C. MONITORING WELL INSTALLATION

Casing material <u>Sch. 40 PVC</u>	Placement method <u>Pumped</u>
Length of casing <u>63.38'</u>	Volume <u>9, 50lbs bags (~150 gallons of grout)</u>
Outside casing diameter <u>2.4"</u>	Backfill (if different from seal): _____
Inside casing diameter <u>2"</u>	Material <u>3/8" Bentonite chips</u>
Casing joint type <u>Threaded</u>	Placement method <u>Poured</u>
Casing/screen joint type <u>Threaded</u>	Volume <u>3, 50lbs bags</u>
Screen material <u>Sch. 40 PVC</u>	Surface seal design: <u>Concrete</u>
Screen opening size <u>0.01</u>	Material of protective casing: <u>steel</u>
Screen length <u>5'</u>	Material of grout between protective casing and well casing: <u>Bentonite chips</u>
Depth of Well <u>61'</u>	Protective cap: _____
Filter Pack: _____	Material <u>Steel</u>
Material <u>Sand (FilterSil)</u>	Vented?: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Locking?: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Grain Size <u>18-23</u>	Well cap: <u>Lockable expanding well plug</u>
Volume <u>2, 50lbs bags</u>	Material <u>Plastic</u>
Seal (minimum 3 ft. length above filter pack): _____	Vented?: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Material <u>Bentonite grout</u>	

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

Water level 14.41' Stabilization time < 5 min
Well development method Surged with bailer and pumped
Average depth of frost line 4'

DRILLER'S CERTIFICATION

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

Signature *Jeff Crank* Certification # 8515 Date 9-16-20

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2 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.

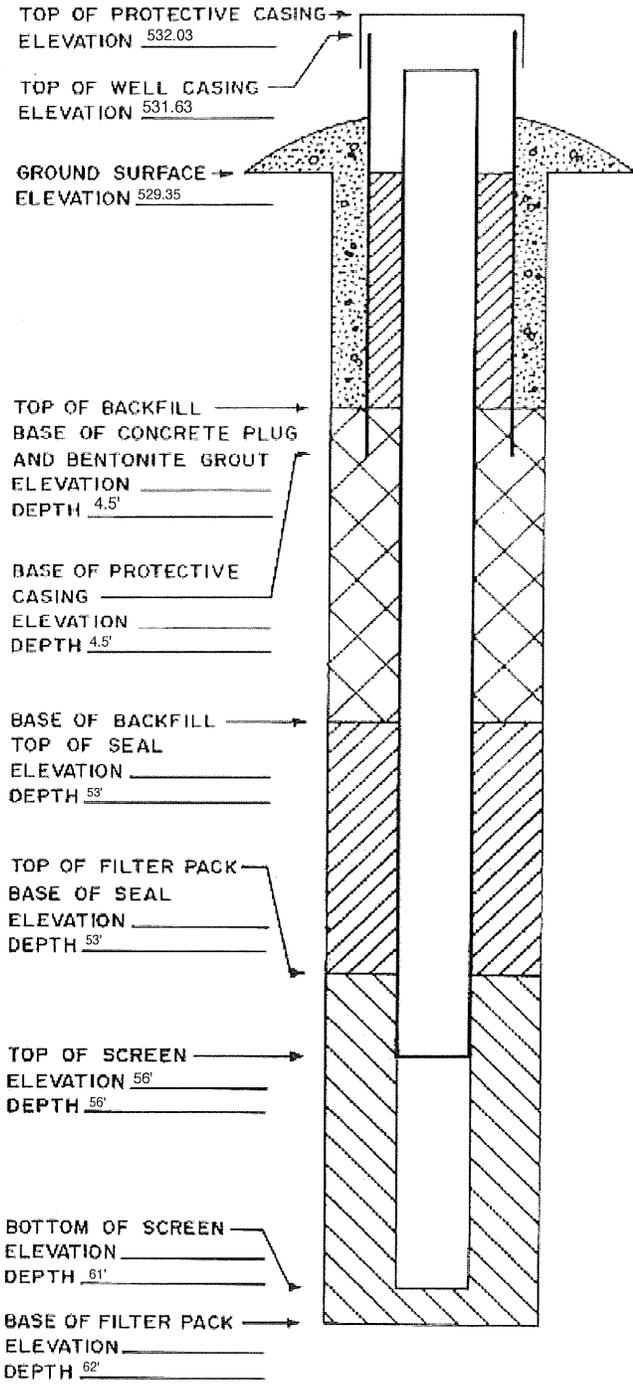
Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

09/2017 cmc

DNR Form 542-1277

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).



MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name Burlington Generating Station Permit No. _____
 Well or Piezometer No. ML-307AAB Dates Started 5/10/2021 Date Completed 5/13/2021

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

Specify corner of site _____ Distance and direction along boundary _____
 Distance and direction from boundary to surface monitoring well _____
 Elevation (+0.01 ft. MSL) _____
 Ground Surface _____ Top of protective casing _____
 Top of well casing _____ Benchmark elevation _____
 Benchmark description _____

B. SOIL BORING INFORMATION

Construction Company Name _____
 Address _____ City, State, Zip Code _____
 Name of driller _____
 Drilling method Roto-Sonic Drilling fluid water Bore Hole diameter 6"
 Soil sampling method Bagged Depth of boring 85'

C. MONITORING WELL INSTALLATION

Casing material <u>Sch. 40 PVC</u> Length of casing _____ Outside casing diameter <u>2.4"</u> Inside casing diameter <u>2.05"</u> Casing joint type <u>Sch 40 PVC Threaded</u> Casing/screen joint type <u>Threaded</u> Screen material <u>Sch. 40 PVC</u> Screen opening size <u>0.01"</u> Screen length <u>5'</u> Depth of Well <u>80'</u> Filter Pack: Material <u>Red Flint filter sand</u> Grain Size <u>#40</u> Volume <u>3.5 bags, 1.75 ft³</u> Seal (minimum 3 ft. length above filter pack): Material <u>Bentonite chips (50lbs. bag)</u>	Placement method <u>pour</u> Volume <u>1 bag</u> Backfill (if different from seal): Material <u>Bentonite grout</u> Placement method <u>pumped</u> Volume <u>~55 gallons</u> Surface seal design: Material of protective casing: <u>Steel</u> Material of grout between protective casing and well casing: <u>Bentonite chips and sand</u> Protective cap: <u>Aluminum</u> Material _____ Vented?: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N Locking?: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Well cap: Material <u>Plastic</u> Vented?: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
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D. GROUNDWATER MEASUREMENT (+0.01 foot below top of inner well casing)

Water level _____ Stabilization time _____
 Well development method _____
 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 # _____ Date _____

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2 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.

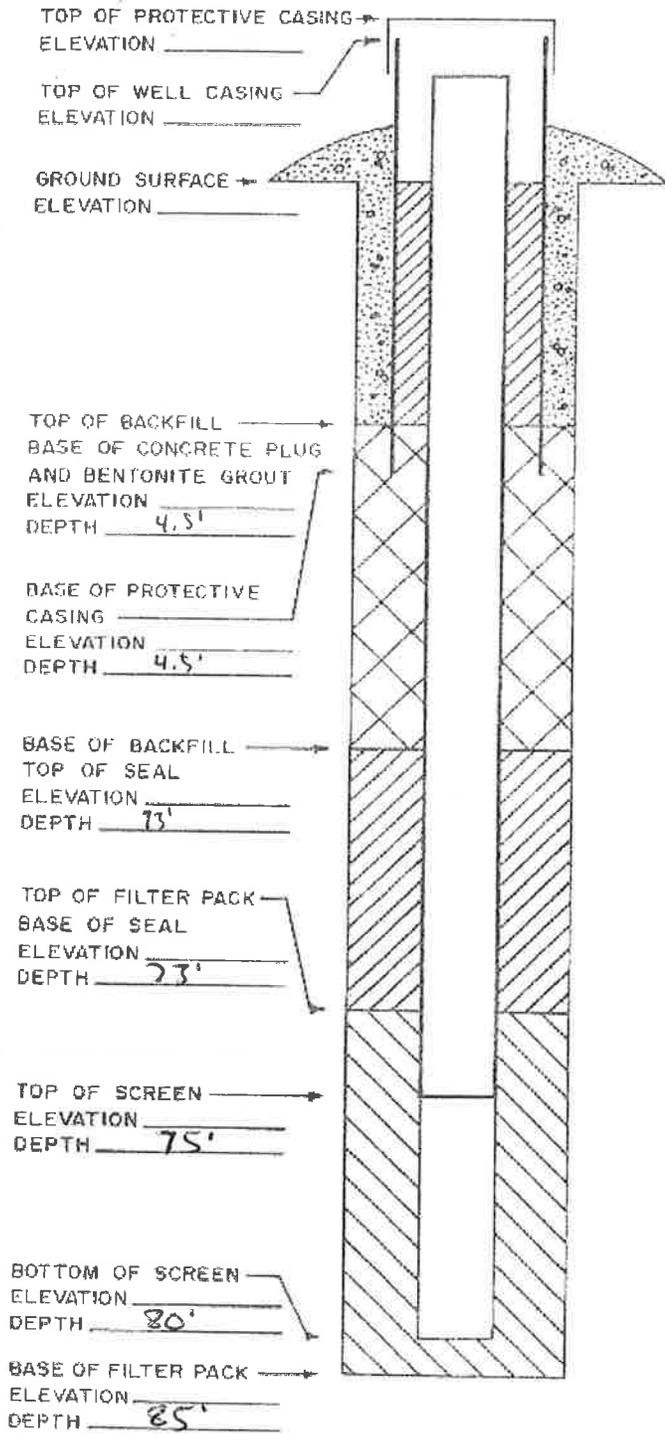
Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

09/2017 cmc

DNR Form 542-1277

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).



MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name Burlington Generating Station Permit No. _____
 Well or Piezometer No. MU-313B Dates Started 5/11/2021 Date Completed 5/12/2021

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

Specify corner of site _____ Distance and direction along boundary _____
 Distance and direction from boundary to surface monitoring well _____
 Elevation (+0.01 ft. MSL) _____
 Ground Surface _____ Top of protective casing _____
 Top of well casing _____ Benchmark elevation _____
 Benchmark description _____

B. SOIL BORING INFORMATION

Construction Company Name Cascade Drilling
 Address _____ City, State, Zip Code _____
 Name of driller Mike Mueller
 Drilling method Roto-Sonic Drilling fluid Water Bore Hole diameter 6"
 Soil sampling method Bagged Depth of boring 75"

C. MONITORING WELL INSTALLATION

Casing material <u>Sch. 40 PVC</u> Length of casing <u>69.5'</u> Outside casing diameter <u>2.4"</u> Inside casing diameter <u>2.05"</u> Casing joint type <u>Threaded</u> Casing/screen joint type <u>Threaded</u> Screen material <u>Sch. 40 PVC</u> Screen opening size <u>0.01"</u> Screen length <u>5'</u> Depth of Well <u>72'</u> Filter Pack: Material <u>Red Flint filter sand</u> Grain Size <u>#40</u> Volume <u>1ft³ (2 bags @ 1/2 ft³ each)</u> Seal (minimum 3 ft. length above filter pack): Material <u>3/8" Bentonite chips</u>	Placement method <u>Poured</u> Volume <u>1 bag (50 # bag)</u> Backfill (if different from seal): Material <u>Bentonite Grout</u> Placement method <u>Pumped</u> Volume <u>55 gallons</u> Surface seal design: Material of protective casing: <u>Steel</u> Material of grout between protective casing and well casing: <u>Bentonite chips and sand</u> Protective cap: Material <u>Aluminum</u> Vented?: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Locking?: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Well cap: Material <u>plastic</u> Vented?: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
---	--

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

Water level _____ Stabilization time _____
 Well development method _____
 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 # _____ Date _____

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2 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.

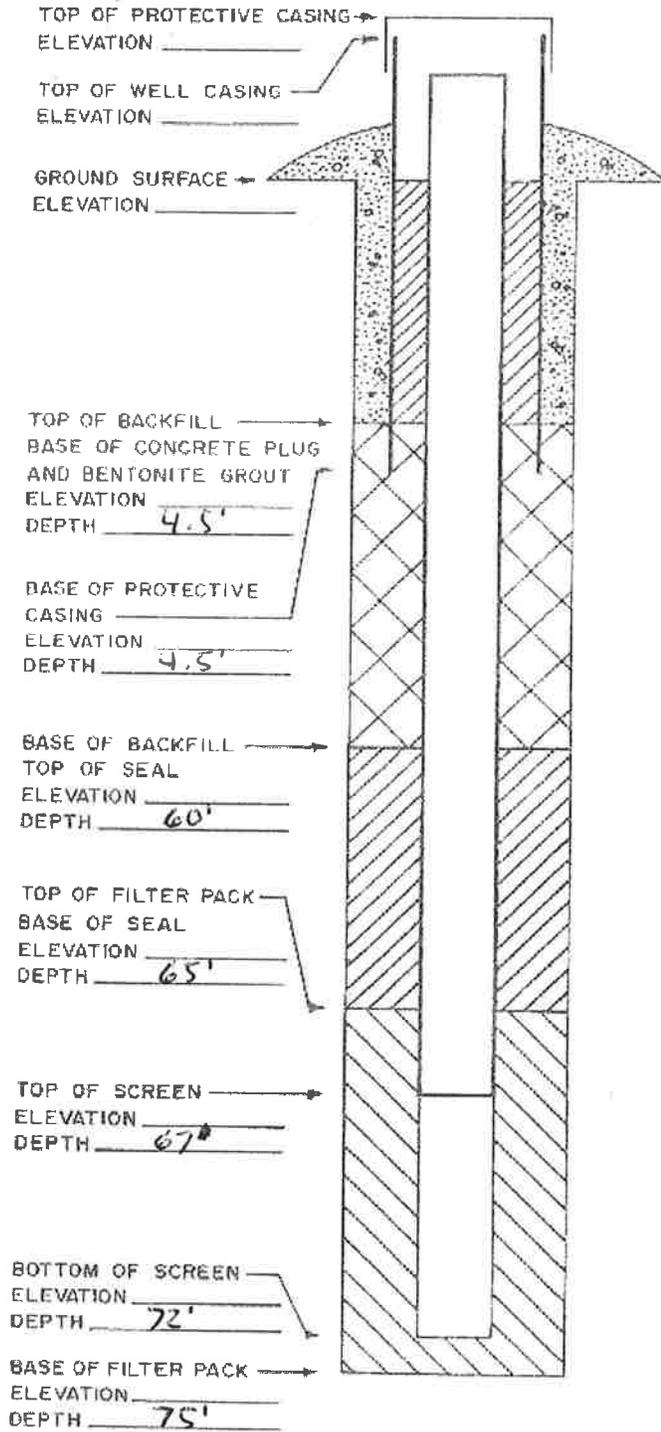
Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

09/2017 cmc

DNR Form 542-1277

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).



MONITORING WELL / PIEZOMETER CONSTRUCTION DOCUMENTATION FORM

Disposal Site Name Burlington Generating Station Permit No. 58619
Well or Piezometer No. MW-314 Dates Started 2/25/2022 Date Completed 2/25/2022

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

Specify corner of site SE of parcel 16-32-300-005 Distance and direction along boundary 400' W
Distance and direction from boundary to surface monitoring well 750' N
Elevation (+0.01 ft. MSL) _____
Ground Surface 524.09 Top of protective casing 526.72
Top of well casing 526.58 Benchmark elevation _____
Benchmark description _____

B. SOIL BORING INFORMATION

Construction Company Name Terracon Consultants Inc.
Address 870 40th Ave. City, State, Zip Code Bettendorf, IA 52722
Name of driller Ryan Peterson
Drilling method Hollow-stem-auger Drilling fluid None Bore Hole diameter 8.25"
Soil sampling method Split spoon Depth of boring 24'

C. MONITORING WELL INSTALLATION

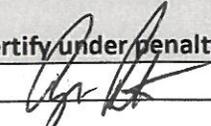
Casing material <u>PVC</u>	Placement method <u>Gravity-poured</u>
Length of casing <u>20.47'</u>	Volume <u>2 cu. ft.</u>
Outside casing diameter <u>2.38"</u>	Backfill (if different from seal): <u>Same as Seal</u>
Inside casing diameter <u>2.01"</u>	Material <u>3/8" Bentonite chips - holeplug</u>
Casing joint type <u>Threaded</u>	Placement method <u>Manually</u>
Casing/screen joint type <u>Threaded</u>	Volume <u>3.35 cu. ft.</u>
Screen material <u>PVC-factory slotted</u>	Surface seal design: _____
Screen opening size <u>0.010"</u>	Material of protective casing: <u>Steel</u>
Screen length <u>5'</u>	Material of grout between protective casing and well casing: <u>Bentonite chips</u>
Depth of Well <u>23'</u>	Protective cap: _____
Filter Pack: _____	Material <u>Steel</u>
Material <u>Sand - Gillibrand Industrial</u>	Vented?: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Grain Size _____	Locking?: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Volume <u>2 cu. ft.</u>	Well cap: _____
Seal (minimum 3 ft. length above filter pack): _____	Material <u>Rubber</u>
Material <u>3/8" Bentonite chips - holeplug</u>	Vented?: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N

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

Water level 7.2" Stabilization time 20 min
Well development method Surged and pumped to remove turbidity
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  Certification # 10115 Date 6-7-22

Attachments: Driller's log. Pipe schedules and grouting schedules. 8 1/2 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.

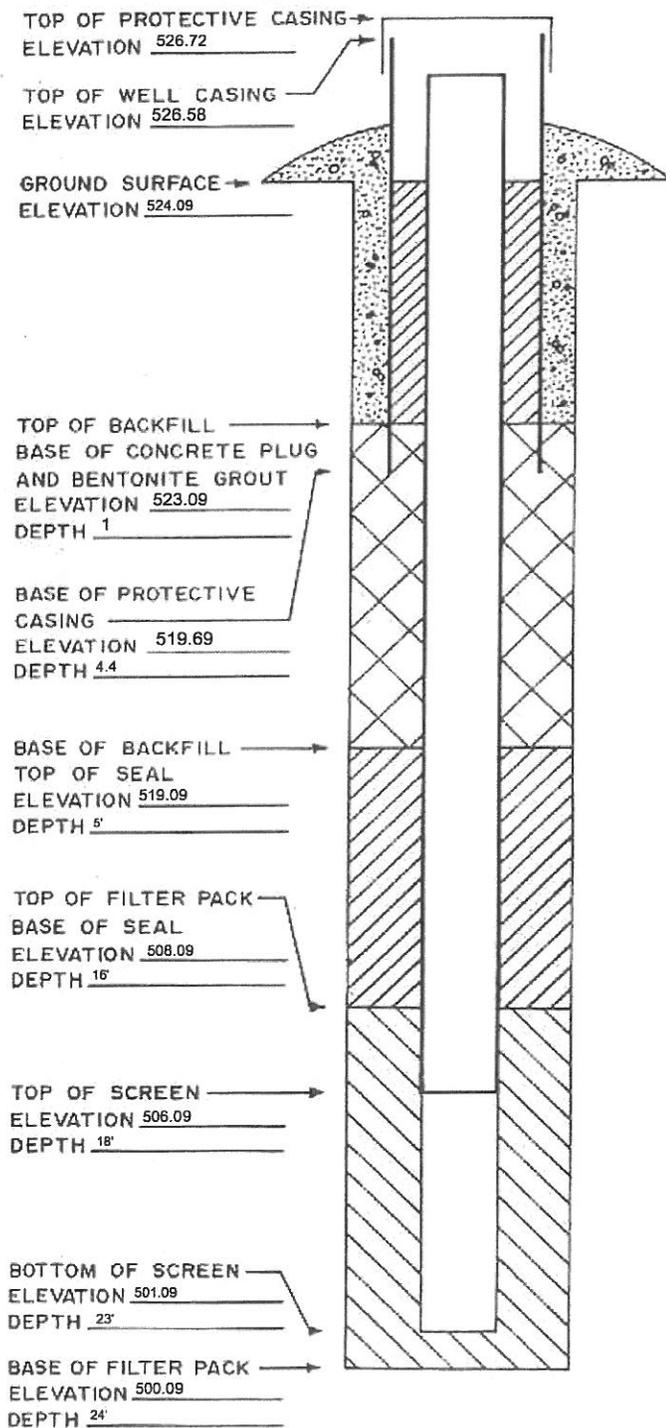
Questions? Call or Email: Nina Booker Environmental Engineer Sr., 515-725-8309, nina.booker@dnr.iowa.gov

09/2017 cmc

DNR Form 542-1277

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).





Appendix C
Analytical Laboratory Reports

C1 October 2024 Assessment Monitoring

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/22/2024 4:49:35 PM

JOB DESCRIPTION

Burlington Generating Station 25224066

JOB NUMBER

310-293618-1

Eurofins Cedar Falls

Job Notes

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

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

Authorization



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Case Narrative

Client: SCS Engineers
Project: Burlington Generating Station 25224066

Job ID: 310-293618-1

Job ID: 310-293618-1

Eurofins Cedar Falls

Job Narrative 310-293618-1

Receipt

The samples were received on 10/24/2024 4:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.9° C, 2.9° C, 3.7° C and 4.9° C.

HPLC/IC

Method 9056A: The following sample was diluted due to the nature of the sample matrix: MW-301 (310-293618-1). Elevated reporting limits (RLs) are provided.

Method 9056A: The following samples were diluted due to the nature of the sample matrix: MW-306 (310-293618-7), MW-307 (310-293618-8), MW-308 (310-293618-11), MW-310 (310-293618-13), MW-310A (310-293618-14), MW-311 (310-293618-15) and MW-314 (310-293618-20). 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 prep batch 160-685740:

The Ra-228 laboratory control sample (LCS) associated with the following samples recovered at 127%: (LCS 160-685740/2-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 (69-145%). The LCS is within criteria and no further action is required.

Method 904.0: Radium-228 prep batch 160-685740:

The detection goal was not met for the following sample due to the reduced sample volume attributed to the presence of matrix interferences: MW-314 (310-293618-20) . Analytical results are reported with the detection limit achieved.

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

Metals

Method 6020B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 310-438447 and analytical batch 310-438811 recovered outside control limits for the following analytes: Boron. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

General Chemistry

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

Eurofins Cedar Falls

Sample Summary

Client: SCS Engineers
Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-293618-1	MW-301	Water	10/23/24 09:17	10/24/24 16:15
310-293618-2	MW-302	Water	10/23/24 08:24	10/24/24 16:15
310-293618-3	MW-302A	Water	10/23/24 09:20	10/24/24 16:15
310-293618-4	MW-303	Water	10/22/24 16:31	10/24/24 16:15
310-293618-5	MW-304	Water	10/22/24 15:35	10/24/24 16:15
310-293618-6	MW-305	Water	10/22/24 08:43	10/24/24 16:15
310-293618-7	MW-306	Water	10/22/24 12:47	10/24/24 16:15
310-293618-8	MW-307	Water	10/22/24 16:40	10/24/24 16:15
310-293618-9	MW-307A	Water	10/22/24 15:51	10/24/24 16:15
310-293618-10	MW-307B	Water	10/22/24 14:50	10/24/24 16:15
310-293618-11	MW-308	Water	10/21/24 16:18	10/24/24 16:15
310-293618-12	MW-309	Water	10/23/24 10:57	10/24/24 16:15
310-293618-13	MW-310	Water	10/21/24 16:45	10/24/24 16:15
310-293618-14	MW-310A	Water	10/21/24 10:00	10/24/24 16:15
310-293618-15	MW-311	Water	10/22/24 08:16	10/24/24 16:15
310-293618-16	MW-312	Water	10/22/24 10:28	10/24/24 16:15
310-293618-17	MW-313	Water	10/22/24 12:45	10/24/24 16:15
310-293618-18	MW-313A	Water	10/22/24 14:05	10/24/24 16:15
310-293618-19	MW-313B	Water	10/22/24 14:55	10/24/24 16:15
310-293618-20	MW-314	Water	10/22/24 10:10	10/24/24 16:15
310-293618-21	Field Blank	Water	10/22/24 17:05	10/24/24 16:15



Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-301

Lab Sample ID: 310-293618-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	17		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	730		20	8.4	mg/L	20		9056A	Total/NA
Arsenic	6.3		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	38		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	5300		500	380	ug/L	5		6020B	Total/NA
Calcium	200		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	8.4		0.50	0.17	ug/L	1		6020B	Total/NA
Iron	18000	B	100	36	ug/L	1		6020B	Total/NA
Lithium	16		10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	59		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	1600		50	42	mg/L	1		SM 2540C	Total/NA
pH	6.9	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	518.38				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-63.0				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.42				mg/L	1		Field Sampling	Total/NA
Field pH	6.7				SU	1		Field Sampling	Total/NA
Field Conductivity	2505				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	13.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	8.77				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-302

Lab Sample ID: 310-293618-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10		5.0	2.3	mg/L	5		9056A	Total/NA
Fluoride	1.7		1.0	0.38	mg/L	5		9056A	Total/NA
Sulfate	730		20	8.4	mg/L	20		9056A	Total/NA
Arsenic	6.7		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	45		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	3600		100	76	ug/L	1		6020B	Total/NA
Calcium	280		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	9.0		0.50	0.17	ug/L	1		6020B	Total/NA
Iron	28000	B	100	36	ug/L	1		6020B	Total/NA
Lithium	81		10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	150		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	1400		50	42	mg/L	1		SM 2540C	Total/NA
pH	6.7	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	517.99				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-71.4				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.09				mg/L	1		Field Sampling	Total/NA
Field pH	6.46				SU	1		Field Sampling	Total/NA
Field Conductivity	1501				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	12.1				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	2.19				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-302A

Lab Sample ID: 310-293618-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	4500	B	100	36	ug/L	1		6020B	Total/NA
Lithium	6.4	J	10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	14		2.0	1.3	ug/L	1		6020B	Total/NA
Groundwater Elevation	517.97				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-124.8				mV	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-302A (Continued)

Lab Sample ID: 310-293618-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved	0.07				mg/L	1		Field Sampling	Total/NA
Field pH	7.10				SU	1		Field Sampling	Total/NA
Field Conductivity	461.2				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	11.1				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.55				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-303

Lab Sample ID: 310-293618-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	21		5.0	2.3	mg/L	5		9056A	Total/NA
Fluoride	1.5		1.0	0.38	mg/L	5		9056A	Total/NA
Sulfate	360		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	22		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	160		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	11000		400	300	ug/L	4		6020B	Total/NA
Calcium	160		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	1.1		0.50	0.17	ug/L	1		6020B	Total/NA
Iron	28000	B	100	36	ug/L	1		6020B	Total/NA
Lithium	35		10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	160		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	840		50	42	mg/L	1		SM 2540C	Total/NA
pH	6.9	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	518.16				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-106.4				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.07				mg/L	1		Field Sampling	Total/NA
Field pH	6.67				SU	1		Field Sampling	Total/NA
Field Conductivity	1149				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	12.9				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	4.57				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-304

Lab Sample ID: 310-293618-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	16		5.0	2.3	mg/L	5		9056A	Total/NA
Fluoride	1.5		1.0	0.38	mg/L	5		9056A	Total/NA
Sulfate	150		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	19		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	65		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	6600		400	300	ug/L	4		6020B	Total/NA
Cadmium	0.12	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
Iron	16000	B	100	36	ug/L	1		6020B	Total/NA
Lithium	88		10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	500		2.0	1.3	ug/L	1		6020B	Total/NA
Mercury	0.23		0.20	0.11	ug/L	1		7470A	Total/NA
Total Dissolved Solids	580		50	42	mg/L	1		SM 2540C	Total/NA
pH	7.1	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	518.27				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-124.1				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.01				mg/L	1		Field Sampling	Total/NA
Field pH	6.82				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-304 (Continued)

Lab Sample ID: 310-293618-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field Conductivity	879				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	15.5				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	2.59				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-305

Lab Sample ID: 310-293618-6

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	1.5		1.0	0.38	mg/L	5		9056A	Total/NA
Sulfate	400		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	4.4		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	41		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	3000		100	76	ug/L	1		6020B	Total/NA
Calcium	150		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	1.8		0.50	0.17	ug/L	1		6020B	Total/NA
Iron	32000	B	100	36	ug/L	1		6020B	Total/NA
Lithium	48		10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	4.4		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	880		50	42	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	518.30				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-55.5				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.19				mg/L	1		Field Sampling	Total/NA
Field pH	6.49				SU	1		Field Sampling	Total/NA
Field Conductivity	1469				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	13.7				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	8.35				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-306

Lab Sample ID: 310-293618-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	25		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	160		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	31		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	92		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	3200		100	76	ug/L	1		6020B	Total/NA
Calcium	100		0.50	0.19	mg/L	1		6020B	Total/NA
Lithium	25		10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	140		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	490		50	42	mg/L	1		SM 2540C	Total/NA
pH	8.8	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	518.42				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	109.5				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.26				mg/L	1		Field Sampling	Total/NA
Field pH	8.63				SU	1		Field Sampling	Total/NA
Field Conductivity	835				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	12.9				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.51				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-307

Lab Sample ID: 310-293618-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	170		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	14		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	46		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	3000		100	76	ug/L	1		6020B	Total/NA
Calcium	37		0.50	0.19	mg/L	1		6020B	Total/NA
Iron	540	B	100	36	ug/L	1		6020B	Total/NA
Lithium	60		10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	290		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	380		50	42	mg/L	1		SM 2540C	Total/NA
pH	8.6	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	518.80				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-194.2				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.88				mg/L	1		Field Sampling	Total/NA
Field pH	8.37				SU	1		Field Sampling	Total/NA
Field Conductivity	677				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	12.7				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	4.02				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-307A

Lab Sample ID: 310-293618-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1500	B	100	36	ug/L	1		6020B	Total/NA
Lithium	9.8	J	10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	6.7		2.0	1.3	ug/L	1		6020B	Total/NA
Groundwater Elevation	520.05				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-131.2				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.57				mg/L	1		Field Sampling	Total/NA
Field pH	7.47				SU	1		Field Sampling	Total/NA
Field Conductivity	537.0				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	11.5				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	9.12				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-307B

Lab Sample ID: 310-293618-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1700	B	100	36	ug/L	1		6020B	Total/NA
Lithium	7.4	J	10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	12		2.0	1.3	ug/L	1		6020B	Total/NA
Groundwater Elevation	518.57				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-75.8				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.79				mg/L	1		Field Sampling	Total/NA
Field pH	7.28				SU	1		Field Sampling	Total/NA
Field Conductivity	539.0				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	12.9				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	7.50				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-308

Lab Sample ID: 310-293618-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	37		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	590		20	8.4	mg/L	20		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-308 (Continued)

Lab Sample ID: 310-293618-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.7		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	69		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	5700		700	530	ug/L	7		6020B	Total/NA
Cadmium	0.18	J	0.20	0.10	ug/L	1		6020B	Total/NA
Calcium	140		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	0.96		0.50	0.17	ug/L	1		6020B	Total/NA
Iron	1600	B	100	36	ug/L	1		6020B	Total/NA
Lithium	230		10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	760		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	1100		50	42	mg/L	1		SM 2540C	Total/NA
pH	7.3	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	518.65				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-16.9				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.33				mg/L	1		Field Sampling	Total/NA
Field pH	7.27				SU	1		Field Sampling	Total/NA
Field Conductivity	1907				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	13.5				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	4.31				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-309

Lab Sample ID: 310-293618-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	31		5.0	2.3	mg/L	5		9056A	Total/NA
Fluoride	0.38	J	1.0	0.38	mg/L	5		9056A	Total/NA
Sulfate	94		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	23		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	120		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	12000		700	530	ug/L	7		6020B	Total/NA
Calcium	82		0.50	0.19	mg/L	1		6020B	Total/NA
Iron	19000	B	100	36	ug/L	1		6020B	Total/NA
Lithium	4.5	J	10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	36		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	490		50	42	mg/L	1		SM 2540C	Total/NA
pH	7.0	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	518.30				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-122.2				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.40				mg/L	1		Field Sampling	Total/NA
Field pH	6.94				SU	1		Field Sampling	Total/NA
Field Conductivity	961				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	14.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	6.04				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-310

Lab Sample ID: 310-293618-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.4		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	72		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	37		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	260		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	170		100	76	ug/L	1		6020B	Total/NA
Calcium	95		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	1.9		0.50	0.17	ug/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-310 (Continued)

Lab Sample ID: 310-293618-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	12000	B	100	36	ug/L	1		6020B	Total/NA
Molybdenum	5.4		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	350		50	42	mg/L	1		SM 2540C	Total/NA
pH	7.1	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	522.94				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-133.0				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.01				mg/L	1		Field Sampling	Total/NA
Field pH	7.00				SU	1		Field Sampling	Total/NA
Field Conductivity	640				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	18.0				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	2.79				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-310A

Lab Sample ID: 310-293618-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.4		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	76		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	0.55	J	2.0	0.53	ug/L	1		6020B	Total/NA
Barium	51		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	780		100	76	ug/L	1		6020B	Total/NA
Calcium	46		0.50	0.19	mg/L	1		6020B	Total/NA
Lead	0.27	J	0.50	0.26	ug/L	1		6020B	Total/NA
Lithium	38		10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	7.3		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	540		50	42	mg/L	1		SM 2540C	Total/NA
pH	7.4	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	521.18				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-25.4				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.67				mg/L	1		Field Sampling	Total/NA
Field pH	7.12				SU	1		Field Sampling	Total/NA
Field Conductivity	921				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	13.1				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	4.82				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-311

Lab Sample ID: 310-293618-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	110		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	5.6		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	170		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	1500		100	76	ug/L	1		6020B	Total/NA
Calcium	140		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	0.85		0.50	0.17	ug/L	1		6020B	Total/NA
Iron	13000	B	100	36	ug/L	1		6020B	Total/NA
Molybdenum	6.2		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	570		50	42	mg/L	1		SM 2540C	Total/NA
pH	7.0	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	519.64				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-132.9				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.06				mg/L	1		Field Sampling	Total/NA
Field pH	6.82				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-311 (Continued)

Lab Sample ID: 310-293618-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field Conductivity	927				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	14.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	2.25				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-312

Lab Sample ID: 310-293618-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	15000	B	100	36	ug/L	1		6020B	Total/NA
Lithium	19		10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	36		2.0	1.3	ug/L	1		6020B	Total/NA
Groundwater Elevation	518.15				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-110.3				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.35				mg/L	1		Field Sampling	Total/NA
Field pH	6.89				SU	1		Field Sampling	Total/NA
Field Conductivity	845				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	11.8				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	5.67				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-313

Lab Sample ID: 310-293618-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	8600	B	100	36	ug/L	1		6020B	Total/NA
Lithium	17		10	2.5	ug/L	1		6020B	Total/NA
Magnesium	12000		500	150	ug/L	1		6020B	Total/NA
Manganese	4900		10	3.6	ug/L	1		6020B	Total/NA
Molybdenum	47		2.0	1.3	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	518.12				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-136.8				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.02				mg/L	1		Field Sampling	Total/NA
Field pH	6.98				SU	1		Field Sampling	Total/NA
Field Conductivity	627.2				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	10.5				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	1.70				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-313A

Lab Sample ID: 310-293618-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	2400	B	100	36	ug/L	1		6020B	Total/NA
Lithium	5.8	J	10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	5.8		2.0	1.3	ug/L	1		6020B	Total/NA
Groundwater Elevation	518.20				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-142.5				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.29				mg/L	1		Field Sampling	Total/NA
Field pH	7.26				SU	1		Field Sampling	Total/NA
Field Conductivity	421.8				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	11.5				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	6.68				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-313B

Lab Sample ID: 310-293618-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	2200	B	100	36	ug/L	1		6020B	Total/NA
Lithium	6.5	J	10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	14		2.0	1.3	ug/L	1		6020B	Total/NA
Groundwater Elevation	518.24				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-125.6				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.06				mg/L	1		Field Sampling	Total/NA
Field pH	7.21				SU	1		Field Sampling	Total/NA
Field Conductivity	455.7				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	10.3				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	2.08				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-314

Lab Sample ID: 310-293618-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	75		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	4.1		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	280		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	160		100	76	ug/L	1		6020B	Total/NA
Calcium	160		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	0.42	J	0.50	0.17	ug/L	1		6020B	Total/NA
Iron	13000		100	36	ug/L	1		6020B	Total/NA
Lithium	4.4	J	10	2.5	ug/L	1		6020B	Total/NA
Molybdenum	1.3	J	2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	660		50	42	mg/L	1		SM 2540C	Total/NA
pH	6.9	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	518.18				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-105.5				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.05				mg/L	1		Field Sampling	Total/NA
Field pH	6.64				SU	1		Field Sampling	Total/NA
Field Conductivity	1078				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	13.9				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	1.96				NTU	1		Field Sampling	Total/NA

Client Sample ID: Field Blank

Lab Sample ID: 310-293618-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	6.0	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-301

Lab Sample ID: 310-293618-1

Date Collected: 10/23/24 09:17

Matrix: Water

Date Received: 10/24/24 16:15

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			11/06/24 03:29	5
Fluoride	<0.38		1.0	0.38	mg/L			11/06/24 03:29	5
Sulfate	730		20	8.4	mg/L			11/06/24 10:29	20

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		11/04/24 09:30	11/05/24 17:33	1
Arsenic	6.3		2.0	0.53	ug/L		11/04/24 09:30	11/05/24 17:33	1
Barium	38		2.0	0.66	ug/L		11/04/24 09:30	11/05/24 17:33	1
Beryllium	<0.33		1.0	0.33	ug/L		11/04/24 09:30	11/05/24 17:33	1
Boron	5300		500	380	ug/L		11/04/24 09:30	11/06/24 16:26	5
Cadmium	<0.10		0.20	0.10	ug/L		11/04/24 09:30	11/05/24 17:33	1
Calcium	200		0.50	0.19	mg/L		11/04/24 09:30	11/05/24 17:33	1
Chromium	<1.2		5.0	1.2	ug/L		11/04/24 09:30	11/05/24 17:33	1
Cobalt	8.4		0.50	0.17	ug/L		11/04/24 09:30	11/05/24 17:33	1
Iron	18000 B		100	36	ug/L		11/04/24 09:30	11/05/24 17:33	1
Lead	<0.26		0.50	0.26	ug/L		11/04/24 09:30	11/05/24 17:33	1
Lithium	16		10	2.5	ug/L		11/04/24 09:30	11/05/24 17:33	1
Molybdenum	59		2.0	1.3	ug/L		11/04/24 09:30	11/05/24 17:33	1
Selenium	<1.4		5.0	1.4	ug/L		11/04/24 09:30	11/05/24 17:33	1
Thallium	<0.57		1.0	0.57	ug/L		11/04/24 09:30	11/05/24 17:33	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		10/30/24 15:40	10/31/24 11:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1600		50	42	mg/L			10/30/24 23:06	1
pH (SM 4500 H+ B)	6.9 HF		1.0	1.0	SU			10/24/24 17:44	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count		RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Total Uncert. (2σ+/-)						
Radium 226	-0.0437	U	0.176	0.176	1.00	0.359	pCi/L	10/29/24 08:26	11/20/24 08:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	87.8		30 - 110					10/29/24 08:26	11/20/24 08:28	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count		RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Total Uncert. (2σ+/-)						
Radium 228	0.135	U	0.390	0.390	1.00	0.692	pCi/L	10/29/24 08:30	11/19/24 11:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	87.8		30 - 110					10/29/24 08:30	11/19/24 11:45	1
Y Carrier	75.1		30 - 110					10/29/24 08:30	11/19/24 11:45	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-301
 Date Collected: 10/23/24 09:17
 Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-1
 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	0.135	U	0.428	0.428	5.00	0.692	pCi/L		11/22/24 10:33	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	518.38				ft			10/23/24 09:17	1
Oxidation Reduction Potential	-63.0				mV			10/23/24 09:17	1
Oxygen, Dissolved	0.42				mg/L			10/23/24 09:17	1
Field pH	6.7				SU			10/23/24 09:17	1
Field Conductivity	2505				umhos/cm			10/23/24 09:17	1
Field Temperature	13.6				Degrees C			10/23/24 09:17	1
Field Turbidity	8.77				NTU			10/23/24 09:17	1

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Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-302

Lab Sample ID: 310-293618-2

Date Collected: 10/23/24 08:24

Matrix: Water

Date Received: 10/24/24 16:15

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		5.0	2.3	mg/L			11/06/24 03:45	5
Fluoride	1.7		1.0	0.38	mg/L			11/06/24 03:45	5
Sulfate	730		20	8.4	mg/L			11/06/24 10:45	20

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		11/04/24 09:30	11/05/24 17:47	1
Arsenic	6.7		2.0	0.53	ug/L		11/04/24 09:30	11/05/24 17:47	1
Barium	45		2.0	0.66	ug/L		11/04/24 09:30	11/05/24 17:47	1
Beryllium	<0.33		1.0	0.33	ug/L		11/04/24 09:30	11/05/24 17:47	1
Boron	3600		100	76	ug/L		11/04/24 09:30	11/06/24 16:34	1
Cadmium	<0.10		0.20	0.10	ug/L		11/04/24 09:30	11/05/24 17:47	1
Calcium	280		0.50	0.19	mg/L		11/04/24 09:30	11/05/24 17:47	1
Chromium	<1.2		5.0	1.2	ug/L		11/04/24 09:30	11/05/24 17:47	1
Cobalt	9.0		0.50	0.17	ug/L		11/04/24 09:30	11/05/24 17:47	1
Iron	28000	B	100	36	ug/L		11/04/24 09:30	11/05/24 17:47	1
Lead	<0.26		0.50	0.26	ug/L		11/04/24 09:30	11/05/24 17:47	1
Lithium	81		10	2.5	ug/L		11/04/24 09:30	11/05/24 17:47	1
Molybdenum	150		2.0	1.3	ug/L		11/04/24 09:30	11/05/24 17:47	1
Selenium	<1.4		5.0	1.4	ug/L		11/04/24 09:30	11/05/24 17:47	1
Thallium	<0.57		1.0	0.57	ug/L		11/04/24 09:30	11/05/24 17:47	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		10/30/24 15:40	10/31/24 11:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1400		50	42	mg/L			10/30/24 23:06	1
pH (SM 4500 H+ B)	6.7	HF	1.0	1.0	SU			10/24/24 17:36	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	0.154	U	0.141	0.142	1.00	0.211	pCi/L	10/29/24 08:26	11/20/24 08:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	91.4		30 - 110					10/29/24 08:26	11/20/24 08:29	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	0.896		0.503	0.510	1.00	0.729	pCi/L	10/29/24 08:30	11/19/24 11:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	91.4		30 - 110					10/29/24 08:30	11/19/24 11:44	1
Y Carrier	72.9		30 - 110					10/29/24 08:30	11/19/24 11:44	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-302
 Date Collected: 10/23/24 08:24
 Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-2
 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	1.05		0.522	0.529	5.00	0.729	pCi/L		11/22/24 10:33	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	517.99				ft			10/23/24 08:24	1
Oxidation Reduction Potential	-71.4				mV			10/23/24 08:24	1
Oxygen, Dissolved	0.09				mg/L			10/23/24 08:24	1
Field pH	6.46				SU			10/23/24 08:24	1
Field Conductivity	1501				umhos/cm			10/23/24 08:24	1
Field Temperature	12.1				Degrees C			10/23/24 08:24	1
Field Turbidity	2.19				NTU			10/23/24 08:24	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-302A

Lab Sample ID: 310-293618-3

Date Collected: 10/23/24 09:20

Matrix: Water

Date Received: 10/24/24 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	4500	B	100	36	ug/L		11/04/24 09:30	11/05/24 17:49	1
Lithium	6.4	J	10	2.5	ug/L		11/04/24 09:30	11/05/24 17:49	1
Molybdenum	14		2.0	1.3	ug/L		11/04/24 09:30	11/05/24 17:49	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	517.97				ft			10/23/24 09:20	1
Oxidation Reduction Potential	-124.8				mV			10/23/24 09:20	1
Oxygen, Dissolved	0.07				mg/L			10/23/24 09:20	1
Field pH	7.10				SU			10/23/24 09:20	1
Field Conductivity	461.2				umhos/cm			10/23/24 09:20	1
Field Temperature	11.1				Degrees C			10/23/24 09:20	1
Field Turbidity	3.55				NTU			10/23/24 09:20	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-303
 Date Collected: 10/22/24 16:31
 Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-4
 Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21		5.0	2.3	mg/L			11/06/24 04:01	5
Fluoride	1.5		1.0	0.38	mg/L			11/06/24 04:01	5
Sulfate	360		5.0	2.1	mg/L			11/06/24 04:01	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		11/04/24 09:30	11/05/24 18:04	1
Arsenic	22		2.0	0.53	ug/L		11/04/24 09:30	11/05/24 18:04	1
Barium	160		2.0	0.66	ug/L		11/04/24 09:30	11/05/24 18:04	1
Beryllium	<0.33		1.0	0.33	ug/L		11/04/24 09:30	11/05/24 18:04	1
Boron	11000		400	300	ug/L		11/04/24 09:30	11/06/24 16:37	4
Cadmium	<0.10		0.20	0.10	ug/L		11/04/24 09:30	11/05/24 18:04	1
Calcium	160		0.50	0.19	mg/L		11/04/24 09:30	11/05/24 18:04	1
Chromium	<1.2		5.0	1.2	ug/L		11/04/24 09:30	11/05/24 18:04	1
Cobalt	1.1		0.50	0.17	ug/L		11/04/24 09:30	11/05/24 18:04	1
Iron	28000	B	100	36	ug/L		11/04/24 09:30	11/05/24 18:04	1
Lead	<0.26		0.50	0.26	ug/L		11/04/24 09:30	11/05/24 18:04	1
Lithium	35		10	2.5	ug/L		11/04/24 09:30	11/05/24 18:04	1
Molybdenum	160		2.0	1.3	ug/L		11/04/24 09:30	11/05/24 18:04	1
Selenium	<1.4		5.0	1.4	ug/L		11/04/24 09:30	11/05/24 18:04	1
Thallium	<0.57		1.0	0.57	ug/L		11/04/24 09:30	11/05/24 18:04	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		10/30/24 15:40	10/31/24 11:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	840		50	42	mg/L			10/28/24 22:38	1
pH (SM 4500 H+ B)	6.9	HF	1.0	1.0	SU			10/24/24 17:47	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	0.476		0.220	0.225	1.00	0.241	pCi/L	10/29/24 08:26	11/20/24 08:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	79.7		30 - 110					10/29/24 08:26	11/20/24 08:29	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	0.941		0.536	0.543	1.00	0.780	pCi/L	10/29/24 08:30	11/19/24 11:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	79.7		30 - 110					10/29/24 08:30	11/19/24 11:44	1
Y Carrier	77.8		30 - 110					10/29/24 08:30	11/19/24 11:44	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-303
 Date Collected: 10/22/24 16:31
 Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-4
 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	1.42		0.579	0.588	5.00	0.780	pCi/L		11/22/24 10:33	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	518.16				ft			10/22/24 16:31	1
Oxidation Reduction Potential	-106.4				mV			10/22/24 16:31	1
Oxygen, Dissolved	0.07				mg/L			10/22/24 16:31	1
Field pH	6.67				SU			10/22/24 16:31	1
Field Conductivity	1149				umhos/cm			10/22/24 16:31	1
Field Temperature	12.9				Degrees C			10/22/24 16:31	1
Field Turbidity	4.57				NTU			10/22/24 16:31	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-304

Lab Sample ID: 310-293618-5

Date Collected: 10/22/24 15:35

Matrix: Water

Date Received: 10/24/24 16:15

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16		5.0	2.3	mg/L			11/06/24 04:18	5
Fluoride	1.5		1.0	0.38	mg/L			11/06/24 04:18	5
Sulfate	150		5.0	2.1	mg/L			11/06/24 04:18	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		11/04/24 09:30	11/05/24 18:07	1
Arsenic	19		2.0	0.53	ug/L		11/04/24 09:30	11/05/24 18:07	1
Barium	65		2.0	0.66	ug/L		11/04/24 09:30	11/05/24 18:07	1
Beryllium	<0.33		1.0	0.33	ug/L		11/04/24 09:30	11/05/24 18:07	1
Boron	6600		400	300	ug/L		11/04/24 09:30	11/06/24 16:40	4
Cadmium	0.12	J	0.20	0.10	ug/L		11/04/24 09:30	11/05/24 18:07	1
Calcium	110		0.50	0.19	mg/L		11/04/24 09:30	11/05/24 18:07	1
Chromium	<1.2		5.0	1.2	ug/L		11/04/24 09:30	11/05/24 18:07	1
Cobalt	0.55		0.50	0.17	ug/L		11/04/24 09:30	11/05/24 18:07	1
Iron	16000	B	100	36	ug/L		11/04/24 09:30	11/05/24 18:07	1
Lead	<0.26		0.50	0.26	ug/L		11/04/24 09:30	11/05/24 18:07	1
Lithium	88		10	2.5	ug/L		11/04/24 09:30	11/05/24 18:07	1
Molybdenum	500		2.0	1.3	ug/L		11/04/24 09:30	11/05/24 18:07	1
Selenium	<1.4		5.0	1.4	ug/L		11/04/24 09:30	11/05/24 18:07	1
Thallium	<0.57		1.0	0.57	ug/L		11/04/24 09:30	11/05/24 18:07	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23		0.20	0.11	ug/L		10/30/24 15:40	10/31/24 11:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	580		50	42	mg/L			10/28/24 22:38	1
pH (SM 4500 H+ B)	7.1	HF	1.0	1.0	SU			10/24/24 17:49	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	0.160	U	0.142	0.143	1.00	0.205	pCi/L	10/29/24 08:26	11/20/24 08:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	82.9		30 - 110					10/29/24 08:26	11/20/24 08:30	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	0.525	U	0.455	0.458	1.00	0.718	pCi/L	10/29/24 08:30	11/19/24 11:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	82.9		30 - 110					10/29/24 08:30	11/19/24 11:45	1
Y Carrier	78.9		30 - 110					10/29/24 08:30	11/19/24 11:45	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-304

Lab Sample ID: 310-293618-5

Date Collected: 10/22/24 15:35

Matrix: Water

Date Received: 10/24/24 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	0.686	U	0.477	0.480	5.00	0.718	pCi/L		11/22/24 10:33	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	518.27				ft			10/22/24 15:35	1
Oxidation Reduction Potential	-124.1				mV			10/22/24 15:35	1
Oxygen, Dissolved	0.01				mg/L			10/22/24 15:35	1
Field pH	6.82				SU			10/22/24 15:35	1
Field Conductivity	879				umhos/cm			10/22/24 15:35	1
Field Temperature	15.5				Degrees C			10/22/24 15:35	1
Field Turbidity	2.59				NTU			10/22/24 15:35	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-305

Lab Sample ID: 310-293618-6

Date Collected: 10/22/24 08:43

Matrix: Water

Date Received: 10/24/24 16:15

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			11/06/24 04:34	5
Fluoride	1.5		1.0	0.38	mg/L			11/06/24 04:34	5
Sulfate	400		5.0	2.1	mg/L			11/06/24 04:34	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		11/04/24 09:30	11/05/24 18:09	1
Arsenic	4.4		2.0	0.53	ug/L		11/04/24 09:30	11/05/24 18:09	1
Barium	41		2.0	0.66	ug/L		11/04/24 09:30	11/05/24 18:09	1
Beryllium	<0.33		1.0	0.33	ug/L		11/04/24 09:30	11/05/24 18:09	1
Boron	3000		100	76	ug/L		11/04/24 09:30	11/06/24 16:43	1
Cadmium	<0.10		0.20	0.10	ug/L		11/04/24 09:30	11/05/24 18:09	1
Calcium	150		0.50	0.19	mg/L		11/04/24 09:30	11/05/24 18:09	1
Chromium	<1.2		5.0	1.2	ug/L		11/04/24 09:30	11/05/24 18:09	1
Cobalt	1.8		0.50	0.17	ug/L		11/04/24 09:30	11/05/24 18:09	1
Iron	32000	B	100	36	ug/L		11/04/24 09:30	11/05/24 18:09	1
Lead	<0.26		0.50	0.26	ug/L		11/04/24 09:30	11/05/24 18:09	1
Lithium	48		10	2.5	ug/L		11/04/24 09:30	11/05/24 18:09	1
Molybdenum	4.4		2.0	1.3	ug/L		11/04/24 09:30	11/05/24 18:09	1
Selenium	<1.4		5.0	1.4	ug/L		11/04/24 09:30	11/05/24 18:09	1
Thallium	<0.57		1.0	0.57	ug/L		11/04/24 09:30	11/05/24 18:09	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		10/30/24 15:40	10/31/24 11:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	880		50	42	mg/L			10/28/24 22:38	1
pH (SM 4500 H+ B)	6.8	HF	1.0	1.0	SU			10/24/24 17:34	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	0.0755	U	0.146	0.146	1.00	0.262	pCi/L	10/29/24 08:26	11/20/24 08:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	83.6		30 - 110					10/29/24 08:26	11/20/24 08:30	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	0.634		0.409	0.413	1.00	0.603	pCi/L	10/29/24 08:30	11/19/24 11:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	83.6		30 - 110					10/29/24 08:30	11/19/24 11:47	1
Y Carrier	78.1		30 - 110					10/29/24 08:30	11/19/24 11:47	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-305
 Date Collected: 10/22/24 08:43
 Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-6
 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	0.709		0.434	0.438	5.00	0.603	pCi/L		11/22/24 10:33	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	518.30				ft			10/22/24 08:43	1
Oxidation Reduction Potential	-55.5				mV			10/22/24 08:43	1
Oxygen, Dissolved	1.19				mg/L			10/22/24 08:43	1
Field pH	6.49				SU			10/22/24 08:43	1
Field Conductivity	1469				umhos/cm			10/22/24 08:43	1
Field Temperature	13.7				Degrees C			10/22/24 08:43	1
Field Turbidity	8.35				NTU			10/22/24 08:43	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-306

Lab Sample ID: 310-293618-7

Date Collected: 10/22/24 12:47

Matrix: Water

Date Received: 10/24/24 16:15

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25		5.0	2.3	mg/L			11/06/24 13:52	5
Fluoride	<0.38		1.0	0.38	mg/L			11/06/24 13:52	5
Sulfate	160		5.0	2.1	mg/L			11/06/24 13:52	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		11/04/24 09:30	11/05/24 18:12	1
Arsenic	31		2.0	0.53	ug/L		11/04/24 09:30	11/05/24 18:12	1
Barium	92		2.0	0.66	ug/L		11/04/24 09:30	11/05/24 18:12	1
Beryllium	<0.33		1.0	0.33	ug/L		11/04/24 09:30	11/05/24 18:12	1
Boron	3200		100	76	ug/L		11/04/24 09:30	11/06/24 16:46	1
Cadmium	<0.10		0.20	0.10	ug/L		11/04/24 09:30	11/05/24 18:12	1
Calcium	100		0.50	0.19	mg/L		11/04/24 09:30	11/05/24 18:12	1
Chromium	<1.2		5.0	1.2	ug/L		11/04/24 09:30	11/05/24 18:12	1
Cobalt	<0.17		0.50	0.17	ug/L		11/04/24 09:30	11/05/24 18:12	1
Iron	<36		100	36	ug/L		11/04/24 09:30	11/05/24 18:12	1
Lead	<0.26		0.50	0.26	ug/L		11/04/24 09:30	11/05/24 18:12	1
Lithium	25		10	2.5	ug/L		11/04/24 09:30	11/05/24 18:12	1
Molybdenum	140		2.0	1.3	ug/L		11/04/24 09:30	11/05/24 18:12	1
Selenium	<1.4		5.0	1.4	ug/L		11/04/24 09:30	11/05/24 18:12	1
Thallium	<0.57		1.0	0.57	ug/L		11/04/24 09:30	11/05/24 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		10/30/24 15:40	10/31/24 11:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	490		50	42	mg/L			10/28/24 22:38	1
pH (SM 4500 H+ B)	8.8	HF	1.0	1.0	SU			10/24/24 17:32	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	0.0599	U	0.160	0.160	1.00	0.300	pCi/L	10/29/24 08:26	11/20/24 08:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	71.6		30 - 110					10/29/24 08:26	11/20/24 08:30	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	0.685		0.452	0.456	1.00	0.659	pCi/L	10/29/24 08:30	11/19/24 11:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	71.6		30 - 110					10/29/24 08:30	11/19/24 11:47	1
Y Carrier	74.4		30 - 110					10/29/24 08:30	11/19/24 11:47	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-306

Lab Sample ID: 310-293618-7

Date Collected: 10/22/24 12:47

Matrix: Water

Date Received: 10/24/24 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	0.744		0.479	0.483	5.00	0.659	pCi/L		11/22/24 10:33	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	518.42				ft			10/22/24 12:47	1
Oxidation Reduction Potential	109.5				mV			10/22/24 12:47	1
Oxygen, Dissolved	0.26				mg/L			10/22/24 12:47	1
Field pH	8.63				SU			10/22/24 12:47	1
Field Conductivity	835				umhos/cm			10/22/24 12:47	1
Field Temperature	12.9				Degrees C			10/22/24 12:47	1
Field Turbidity	3.51				NTU			10/22/24 12:47	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-307

Lab Sample ID: 310-293618-8

Date Collected: 10/22/24 16:40

Matrix: Water

Date Received: 10/24/24 16:15

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			11/06/24 14:07	5
Fluoride	<0.38		1.0	0.38	mg/L			11/06/24 14:07	5
Sulfate	170		5.0	2.1	mg/L			11/06/24 14:07	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		11/04/24 09:30	11/05/24 18:15	1
Arsenic	14		2.0	0.53	ug/L		11/04/24 09:30	11/05/24 18:15	1
Barium	46		2.0	0.66	ug/L		11/04/24 09:30	11/05/24 18:15	1
Beryllium	<0.33		1.0	0.33	ug/L		11/04/24 09:30	11/05/24 18:15	1
Boron	3000		100	76	ug/L		11/04/24 09:30	11/06/24 17:00	1
Cadmium	<0.10		0.20	0.10	ug/L		11/04/24 09:30	11/05/24 18:15	1
Calcium	37		0.50	0.19	mg/L		11/04/24 09:30	11/05/24 18:15	1
Chromium	<1.2		5.0	1.2	ug/L		11/04/24 09:30	11/05/24 18:15	1
Cobalt	<0.17		0.50	0.17	ug/L		11/04/24 09:30	11/05/24 18:15	1
Iron	540	B	100	36	ug/L		11/04/24 09:30	11/05/24 18:15	1
Lead	<0.26		0.50	0.26	ug/L		11/04/24 09:30	11/05/24 18:15	1
Lithium	60		10	2.5	ug/L		11/04/24 09:30	11/05/24 18:15	1
Molybdenum	290		2.0	1.3	ug/L		11/04/24 09:30	11/05/24 18:15	1
Selenium	<1.4		5.0	1.4	ug/L		11/04/24 09:30	11/05/24 18:15	1
Thallium	<0.57		1.0	0.57	ug/L		11/04/24 09:30	11/05/24 18:15	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<1.1		2.0	1.1	ug/L		11/02/24 15:10	11/04/24 13:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	380		50	42	mg/L			10/28/24 22:38	1
pH (SM 4500 H+ B)	8.6	HF	1.0	1.0	SU			10/24/24 17:33	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count		RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Total						
			(2σ+/-)	(2σ+/-)						
Radium 226	0.0102	U	0.128	0.128	1.00	0.267	pCi/L	10/29/24 08:26	11/20/24 08:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	76.8		30 - 110					10/29/24 08:26	11/20/24 08:30	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count		RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Total						
			(2σ+/-)	(2σ+/-)						
Radium 228	0.0672	U	0.346	0.346	1.00	0.635	pCi/L	10/29/24 08:30	11/19/24 11:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	76.8		30 - 110					10/29/24 08:30	11/19/24 11:47	1
Y Carrier	78.5		30 - 110					10/29/24 08:30	11/19/24 11:47	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-307
 Date Collected: 10/22/24 16:40
 Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-8
 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	0.0774	U	0.369	0.369	5.00	0.635	pCi/L		11/22/24 10:33	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	518.80				ft			10/22/24 16:40	1
Oxidation Reduction Potential	-194.2				mV			10/22/24 16:40	1
Oxygen, Dissolved	0.88				mg/L			10/22/24 16:40	1
Field pH	8.37				SU			10/22/24 16:40	1
Field Conductivity	677				umhos/cm			10/22/24 16:40	1
Field Temperature	12.7				Degrees C			10/22/24 16:40	1
Field Turbidity	4.02				NTU			10/22/24 16:40	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-307A

Lab Sample ID: 310-293618-9

Date Collected: 10/22/24 15:51

Matrix: Water

Date Received: 10/24/24 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1500	B	100	36	ug/L		11/04/24 09:30	11/05/24 18:18	1
Lithium	9.8	J	10	2.5	ug/L		11/04/24 09:30	11/05/24 18:18	1
Molybdenum	6.7		2.0	1.3	ug/L		11/04/24 09:30	11/05/24 18:18	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	520.05				ft			10/22/24 15:51	1
Oxidation Reduction Potential	-131.2				mV			10/22/24 15:51	1
Oxygen, Dissolved	0.57				mg/L			10/22/24 15:51	1
Field pH	7.47				SU			10/22/24 15:51	1
Field Conductivity	537.0				umhos/cm			10/22/24 15:51	1
Field Temperature	11.5				Degrees C			10/22/24 15:51	1
Field Turbidity	9.12				NTU			10/22/24 15:51	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-307B

Lab Sample ID: 310-293618-10

Date Collected: 10/22/24 14:50

Matrix: Water

Date Received: 10/24/24 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1700	B	100	36	ug/L		11/04/24 09:30	11/05/24 18:21	1
Lithium	7.4	J	10	2.5	ug/L		11/04/24 09:30	11/05/24 18:21	1
Molybdenum	12		2.0	1.3	ug/L		11/04/24 09:30	11/05/24 18:21	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	518.57				ft			10/22/24 14:50	1
Oxidation Reduction Potential	-75.8				mV			10/22/24 14:50	1
Oxygen, Dissolved	1.79				mg/L			10/22/24 14:50	1
Field pH	7.28				SU			10/22/24 14:50	1
Field Conductivity	539.0				umhos/cm			10/22/24 14:50	1
Field Temperature	12.9				Degrees C			10/22/24 14:50	1
Field Turbidity	7.50				NTU			10/22/24 14:50	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-308
 Date Collected: 10/21/24 16:18
 Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-11
 Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37		5.0	2.3	mg/L			11/06/24 14:23	5
Fluoride	<0.38		1.0	0.38	mg/L			11/06/24 14:23	5
Sulfate	590		20	8.4	mg/L			11/06/24 14:38	20

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		11/04/24 09:30	11/05/24 18:23	1
Arsenic	4.7		2.0	0.53	ug/L		11/04/24 09:30	11/05/24 18:23	1
Barium	69		2.0	0.66	ug/L		11/04/24 09:30	11/05/24 18:23	1
Beryllium	<0.33		1.0	0.33	ug/L		11/04/24 09:30	11/05/24 18:23	1
Boron	5700		700	530	ug/L		11/04/24 09:30	11/06/24 17:03	7
Cadmium	0.18	J	0.20	0.10	ug/L		11/04/24 09:30	11/05/24 18:23	1
Calcium	140		0.50	0.19	mg/L		11/04/24 09:30	11/05/24 18:23	1
Chromium	<1.2		5.0	1.2	ug/L		11/04/24 09:30	11/05/24 18:23	1
Cobalt	0.96		0.50	0.17	ug/L		11/04/24 09:30	11/05/24 18:23	1
Iron	1600	B	100	36	ug/L		11/04/24 09:30	11/05/24 18:23	1
Lead	<0.26		0.50	0.26	ug/L		11/04/24 09:30	11/05/24 18:23	1
Lithium	230		10	2.5	ug/L		11/04/24 09:30	11/05/24 18:23	1
Molybdenum	760		2.0	1.3	ug/L		11/04/24 09:30	11/05/24 18:23	1
Selenium	<1.4		5.0	1.4	ug/L		11/04/24 09:30	11/05/24 18:23	1
Thallium	<0.57		1.0	0.57	ug/L		11/04/24 09:30	11/05/24 18:23	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<1.1		2.0	1.1	ug/L		11/02/24 15:10	11/04/24 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		50	42	mg/L			10/25/24 18:53	1
pH (SM 4500 H+ B)	7.3	HF	1.0	1.0	SU			10/24/24 17:35	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	0.157	U	0.163	0.163	1.00	0.254	pCi/L	10/29/24 08:26	11/20/24 08:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	77.8		30 - 110					10/29/24 08:26	11/20/24 08:37	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	0.617	U	0.499	0.502	1.00	0.776	pCi/L	10/29/24 08:30	11/19/24 11:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	77.8		30 - 110					10/29/24 08:30	11/19/24 11:47	1
Y Carrier	70.3		30 - 110					10/29/24 08:30	11/19/24 11:47	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-308
 Date Collected: 10/21/24 16:18
 Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-11
 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	0.774	U	0.525	0.528	5.00	0.776	pCi/L		11/22/24 10:33	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	518.65				ft			10/21/24 16:18	1
Oxidation Reduction Potential	-16.9				mV			10/21/24 16:18	1
Oxygen, Dissolved	0.33				mg/L			10/21/24 16:18	1
Field pH	7.27				SU			10/21/24 16:18	1
Field Conductivity	1907				umhos/cm			10/21/24 16:18	1
Field Temperature	13.5				Degrees C			10/21/24 16:18	1
Field Turbidity	4.31				NTU			10/21/24 16:18	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-309

Lab Sample ID: 310-293618-12

Date Collected: 10/23/24 10:57

Matrix: Water

Date Received: 10/24/24 16:15

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31		5.0	2.3	mg/L			11/06/24 14:54	5
Fluoride	0.38	J	1.0	0.38	mg/L			11/06/24 14:54	5
Sulfate	94		5.0	2.1	mg/L			11/06/24 14:54	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		11/04/24 09:30	11/05/24 18:29	1
Arsenic	23		2.0	0.53	ug/L		11/04/24 09:30	11/05/24 18:29	1
Barium	120		2.0	0.66	ug/L		11/04/24 09:30	11/05/24 18:29	1
Beryllium	<0.33		1.0	0.33	ug/L		11/04/24 09:30	11/05/24 18:29	1
Boron	12000		700	530	ug/L		11/04/24 09:30	11/06/24 17:08	7
Cadmium	<0.10		0.20	0.10	ug/L		11/04/24 09:30	11/05/24 18:29	1
Calcium	82		0.50	0.19	mg/L		11/04/24 09:30	11/05/24 18:29	1
Chromium	<1.2		5.0	1.2	ug/L		11/04/24 09:30	11/05/24 18:29	1
Cobalt	<0.17		0.50	0.17	ug/L		11/04/24 09:30	11/05/24 18:29	1
Iron	19000	B	100	36	ug/L		11/04/24 09:30	11/05/24 18:29	1
Lead	<0.26		0.50	0.26	ug/L		11/04/24 09:30	11/05/24 18:29	1
Lithium	4.5	J	10	2.5	ug/L		11/04/24 09:30	11/05/24 18:29	1
Molybdenum	36		2.0	1.3	ug/L		11/04/24 09:30	11/05/24 18:29	1
Selenium	<1.4		5.0	1.4	ug/L		11/04/24 09:30	11/05/24 18:29	1
Thallium	<0.57		1.0	0.57	ug/L		11/04/24 09:30	11/05/24 18:29	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<1.1		2.0	1.1	ug/L		11/02/24 15:10	11/04/24 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	490		50	42	mg/L			10/30/24 23:06	1
pH (SM 4500 H+ B)	7.0	HF	1.0	1.0	SU			10/24/24 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	-0.0630	U	0.137	0.137	1.00	0.332	pCi/L	10/29/24 08:26	11/20/24 08:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	88.0		30 - 110					10/29/24 08:26	11/20/24 08:37	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	0.226	U	0.520	0.521	1.00	0.908	pCi/L	10/29/24 08:30	11/19/24 11:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	88.0		30 - 110					10/29/24 08:30	11/19/24 11:47	1
Y Carrier	75.9		30 - 110					10/29/24 08:30	11/19/24 11:47	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-309
 Date Collected: 10/23/24 10:57
 Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-12
 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	0.226	U	0.538	0.539	5.00	0.908	pCi/L		11/22/24 10:33	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	518.30				ft			10/23/24 10:57	1
Oxidation Reduction Potential	-122.2				mV			10/23/24 10:57	1
Oxygen, Dissolved	0.40				mg/L			10/23/24 10:57	1
Field pH	6.94				SU			10/23/24 10:57	1
Field Conductivity	961				umhos/cm			10/23/24 10:57	1
Field Temperature	14.6				Degrees C			10/23/24 10:57	1
Field Turbidity	6.04				NTU			10/23/24 10:57	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-310

Lab Sample ID: 310-293618-13

Date Collected: 10/21/24 16:45

Matrix: Water

Date Received: 10/24/24 16:15

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.4		5.0	2.3	mg/L			11/06/24 15:09	5
Fluoride	<0.38		1.0	0.38	mg/L			11/06/24 15:09	5
Sulfate	72		5.0	2.1	mg/L			11/06/24 15:09	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		11/04/24 09:30	11/05/24 18:43	1
Arsenic	37		2.0	0.53	ug/L		11/04/24 09:30	11/05/24 18:43	1
Barium	260		2.0	0.66	ug/L		11/04/24 09:30	11/05/24 18:43	1
Beryllium	<0.33		1.0	0.33	ug/L		11/04/24 09:30	11/05/24 18:43	1
Boron	170		100	76	ug/L		11/04/24 09:30	11/06/24 17:11	1
Cadmium	<0.10		0.20	0.10	ug/L		11/04/24 09:30	11/05/24 18:43	1
Calcium	95		0.50	0.19	mg/L		11/04/24 09:30	11/05/24 18:43	1
Chromium	<1.2		5.0	1.2	ug/L		11/04/24 09:30	11/05/24 18:43	1
Cobalt	1.9		0.50	0.17	ug/L		11/04/24 09:30	11/05/24 18:43	1
Iron	12000 B		100	36	ug/L		11/04/24 09:30	11/05/24 18:43	1
Lead	<0.26		0.50	0.26	ug/L		11/04/24 09:30	11/05/24 18:43	1
Lithium	<2.5		10	2.5	ug/L		11/04/24 09:30	11/05/24 18:43	1
Molybdenum	5.4		2.0	1.3	ug/L		11/04/24 09:30	11/05/24 18:43	1
Selenium	<1.4		5.0	1.4	ug/L		11/04/24 09:30	11/05/24 18:43	1
Thallium	<0.57		1.0	0.57	ug/L		11/04/24 09:30	11/05/24 18:43	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<1.1		2.0	1.1	ug/L		11/02/24 15:10	11/04/24 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	350		50	42	mg/L			10/25/24 20:09	1
pH (SM 4500 H+ B)	7.1 HF		1.0	1.0	SU			10/24/24 17:45	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	0.310		0.188	0.190	1.00	0.236	pCi/L	10/29/24 08:26	11/20/24 08:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	86.8		30 - 110					10/29/24 08:26	11/20/24 08:37	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	0.463	U	0.369	0.371	1.00	0.570	pCi/L	10/29/24 08:30	11/19/24 11:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	86.8		30 - 110					10/29/24 08:30	11/19/24 11:48	1
Y Carrier	81.5		30 - 110					10/29/24 08:30	11/19/24 11:48	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-310
 Date Collected: 10/21/24 16:45
 Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-13
 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	0.773		0.414	0.417	5.00	0.570	pCi/L		11/22/24 10:33	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	522.94				ft			10/21/24 16:45	1
Oxidation Reduction Potential	-133.0				mV			10/21/24 16:45	1
Oxygen, Dissolved	0.01				mg/L			10/21/24 16:45	1
Field pH	7.00				SU			10/21/24 16:45	1
Field Conductivity	640				umhos/cm			10/21/24 16:45	1
Field Temperature	18.0				Degrees C			10/21/24 16:45	1
Field Turbidity	2.79				NTU			10/21/24 16:45	1

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Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-310A

Lab Sample ID: 310-293618-14

Date Collected: 10/21/24 10:00

Matrix: Water

Date Received: 10/24/24 16:15

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.4		5.0	2.3	mg/L			11/06/24 15:25	5
Fluoride	<0.38		1.0	0.38	mg/L			11/06/24 15:25	5
Sulfate	76		5.0	2.1	mg/L			11/06/24 15:25	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		11/04/24 09:30	11/05/24 18:46	1
Arsenic	0.55	J	2.0	0.53	ug/L		11/04/24 09:30	11/05/24 18:46	1
Barium	51		2.0	0.66	ug/L		11/04/24 09:30	11/05/24 18:46	1
Beryllium	<0.33		1.0	0.33	ug/L		11/04/24 09:30	11/05/24 18:46	1
Boron	780		100	76	ug/L		11/04/24 09:30	11/06/24 17:14	1
Cadmium	<0.10		0.20	0.10	ug/L		11/04/24 09:30	11/05/24 18:46	1
Calcium	46		0.50	0.19	mg/L		11/04/24 09:30	11/05/24 18:46	1
Chromium	<1.2		5.0	1.2	ug/L		11/04/24 09:30	11/05/24 18:46	1
Cobalt	<0.17		0.50	0.17	ug/L		11/04/24 09:30	11/05/24 18:46	1
Iron	<36		100	36	ug/L		11/04/24 09:30	11/05/24 18:46	1
Lead	0.27	J	0.50	0.26	ug/L		11/04/24 09:30	11/05/24 18:46	1
Lithium	38		10	2.5	ug/L		11/04/24 09:30	11/05/24 18:46	1
Molybdenum	7.3		2.0	1.3	ug/L		11/04/24 09:30	11/05/24 18:46	1
Selenium	<1.4		5.0	1.4	ug/L		11/04/24 09:30	11/05/24 18:46	1
Thallium	<0.57		1.0	0.57	ug/L		11/04/24 09:30	11/05/24 18:46	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<1.1		2.0	1.1	ug/L		11/02/24 15:10	11/04/24 13:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	540		50	42	mg/L			10/25/24 20:09	1
pH (SM 4500 H+ B)	7.4	HF	1.0	1.0	SU			10/24/24 17:48	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	0.606		0.233	0.240	1.00	0.207	pCi/L	10/29/24 08:26	11/20/24 08:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	82.9		30 - 110					10/29/24 08:26	11/20/24 08:37	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	1.27		0.526	0.539	1.00	0.678	pCi/L	10/29/24 08:30	11/19/24 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	82.9		30 - 110					10/29/24 08:30	11/19/24 11:49	1
Y Carrier	70.3		30 - 110					10/29/24 08:30	11/19/24 11:49	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-310A

Lab Sample ID: 310-293618-14

Date Collected: 10/21/24 10:00

Matrix: Water

Date Received: 10/24/24 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	1.87		0.575	0.590	5.00	0.678	pCi/L		11/22/24 10:33	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	521.18				ft			10/21/24 10:00	1
Oxidation Reduction Potential	-25.4				mV			10/21/24 10:00	1
Oxygen, Dissolved	1.67				mg/L			10/21/24 10:00	1
Field pH	7.12				SU			10/21/24 10:00	1
Field Conductivity	921				umhos/cm			10/21/24 10:00	1
Field Temperature	13.1				Degrees C			10/21/24 10:00	1
Field Turbidity	4.82				NTU			10/21/24 10:00	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-311

Lab Sample ID: 310-293618-15

Date Collected: 10/22/24 08:16

Matrix: Water

Date Received: 10/24/24 16:15

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			11/06/24 15:41	5
Fluoride	<0.38		1.0	0.38	mg/L			11/06/24 15:41	5
Sulfate	110		5.0	2.1	mg/L			11/06/24 15:41	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		11/04/24 09:30	11/05/24 18:49	1
Arsenic	5.6		2.0	0.53	ug/L		11/04/24 09:30	11/05/24 18:49	1
Barium	170		2.0	0.66	ug/L		11/04/24 09:30	11/05/24 18:49	1
Beryllium	<0.33		1.0	0.33	ug/L		11/04/24 09:30	11/05/24 18:49	1
Boron	1500		100	76	ug/L		11/04/24 09:30	11/06/24 17:17	1
Cadmium	<0.10		0.20	0.10	ug/L		11/04/24 09:30	11/05/24 18:49	1
Calcium	140		0.50	0.19	mg/L		11/04/24 09:30	11/05/24 18:49	1
Chromium	<1.2		5.0	1.2	ug/L		11/04/24 09:30	11/05/24 18:49	1
Cobalt	0.85		0.50	0.17	ug/L		11/04/24 09:30	11/05/24 18:49	1
Iron	13000	B	100	36	ug/L		11/04/24 09:30	11/05/24 18:49	1
Lead	<0.26		0.50	0.26	ug/L		11/04/24 09:30	11/05/24 18:49	1
Lithium	<2.5		10	2.5	ug/L		11/04/24 09:30	11/05/24 18:49	1
Molybdenum	6.2		2.0	1.3	ug/L		11/04/24 09:30	11/05/24 18:49	1
Selenium	<1.4		5.0	1.4	ug/L		11/04/24 09:30	11/05/24 18:49	1
Thallium	<0.57		1.0	0.57	ug/L		11/04/24 09:30	11/05/24 18:49	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<1.1		2.0	1.1	ug/L		11/02/24 15:10	11/04/24 13:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	570		50	42	mg/L			10/28/24 22:38	1
pH (SM 4500 H+ B)	7.0	HF	1.0	1.0	SU			10/24/24 17:46	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	0.228	U	0.224	0.225	1.00	0.345	pCi/L	10/29/24 08:26	11/20/24 08:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	79.5		30 - 110					10/29/24 08:26	11/20/24 08:37	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	0.342	U	0.559	0.560	1.00	0.954	pCi/L	10/29/24 08:30	11/19/24 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	79.5		30 - 110					10/29/24 08:30	11/19/24 11:49	1
Y Carrier	72.9		30 - 110					10/29/24 08:30	11/19/24 11:49	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-311
 Date Collected: 10/22/24 08:16
 Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-15
 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	0.570	U	0.602	0.604	5.00	0.954	pCi/L		11/22/24 10:33	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	519.64				ft			10/22/24 08:16	1
Oxidation Reduction Potential	-132.9				mV			10/22/24 08:16	1
Oxygen, Dissolved	0.06				mg/L			10/22/24 08:16	1
Field pH	6.82				SU			10/22/24 08:16	1
Field Conductivity	927				umhos/cm			10/22/24 08:16	1
Field Temperature	14.6				Degrees C			10/22/24 08:16	1
Field Turbidity	2.25				NTU			10/22/24 08:16	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-312

Lab Sample ID: 310-293618-16

Date Collected: 10/22/24 10:28

Matrix: Water

Date Received: 10/24/24 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	15000	B	100	36	ug/L		11/04/24 09:30	11/05/24 18:52	1
Lithium	19		10	2.5	ug/L		11/04/24 09:30	11/05/24 18:52	1
Molybdenum	36		2.0	1.3	ug/L		11/04/24 09:30	11/05/24 18:52	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	518.15				ft			10/22/24 10:28	1
Oxidation Reduction Potential	-110.3				mV			10/22/24 10:28	1
Oxygen, Dissolved	0.35				mg/L			10/22/24 10:28	1
Field pH	6.89				SU			10/22/24 10:28	1
Field Conductivity	845				umhos/cm			10/22/24 10:28	1
Field Temperature	11.8				Degrees C			10/22/24 10:28	1
Field Turbidity	5.67				NTU			10/22/24 10:28	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-313
 Date Collected: 10/22/24 12:45
 Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-17
 Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8600	B	100	36	ug/L		11/04/24 09:30	11/05/24 18:54	1
Lithium	17		10	2.5	ug/L		11/04/24 09:30	11/05/24 18:54	1
Magnesium	12000		500	150	ug/L		11/04/24 09:30	11/05/24 18:54	1
Manganese	4900		10	3.6	ug/L		11/04/24 09:30	11/05/24 18:54	1
Molybdenum	47		2.0	1.3	ug/L		11/04/24 09:30	11/05/24 18:54	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			10/30/24 16:53	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<2.5		5.0	2.5	mg/L			10/30/24 16:53	1
Total Alkalinity as CaCO3 (SM 2320B)	240		5.0	2.5	mg/L			10/30/24 16:53	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	518.12				ft			10/22/24 12:45	1
Oxidation Reduction Potential	-136.8				mV			10/22/24 12:45	1
Oxygen, Dissolved	0.02				mg/L			10/22/24 12:45	1
Field pH	6.98				SU			10/22/24 12:45	1
Field Conductivity	627.2				umhos/cm			10/22/24 12:45	1
Field Temperature	10.5				Degrees C			10/22/24 12:45	1
Field Turbidity	1.70				NTU			10/22/24 12:45	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-313A

Lab Sample ID: 310-293618-18

Date Collected: 10/22/24 14:05

Matrix: Water

Date Received: 10/24/24 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2400	B	100	36	ug/L		11/04/24 09:30	11/05/24 18:57	1
Lithium	5.8	J	10	2.5	ug/L		11/04/24 09:30	11/05/24 18:57	1
Molybdenum	5.8		2.0	1.3	ug/L		11/04/24 09:30	11/05/24 18:57	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	518.20				ft			10/22/24 14:05	1
Oxidation Reduction Potential	-142.5				mV			10/22/24 14:05	1
Oxygen, Dissolved	0.29				mg/L			10/22/24 14:05	1
Field pH	7.26				SU			10/22/24 14:05	1
Field Conductivity	421.8				umhos/cm			10/22/24 14:05	1
Field Temperature	11.5				Degrees C			10/22/24 14:05	1
Field Turbidity	6.68				NTU			10/22/24 14:05	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-313B

Lab Sample ID: 310-293618-19

Date Collected: 10/22/24 14:55

Matrix: Water

Date Received: 10/24/24 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2200	B	100	36	ug/L		11/04/24 09:30	11/05/24 19:00	1
Lithium	6.5	J	10	2.5	ug/L		11/04/24 09:30	11/05/24 19:00	1
Molybdenum	14		2.0	1.3	ug/L		11/04/24 09:30	11/05/24 19:00	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	518.24				ft			10/22/24 14:55	1
Oxidation Reduction Potential	-125.6				mV			10/22/24 14:55	1
Oxygen, Dissolved	0.06				mg/L			10/22/24 14:55	1
Field pH	7.21				SU			10/22/24 14:55	1
Field Conductivity	455.7				umhos/cm			10/22/24 14:55	1
Field Temperature	10.3				Degrees C			10/22/24 14:55	1
Field Turbidity	2.08				NTU			10/22/24 14:55	1

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Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-314

Lab Sample ID: 310-293618-20

Date Collected: 10/22/24 10:10

Matrix: Water

Date Received: 10/24/24 16:15

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			11/06/24 16:27	5
Fluoride	<0.38		1.0	0.38	mg/L			11/06/24 16:27	5
Sulfate	75		5.0	2.1	mg/L			11/06/24 16:27	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		11/04/24 09:30	11/05/24 20:05	1
Arsenic	4.1		2.0	0.53	ug/L		11/04/24 09:30	11/05/24 20:05	1
Barium	280		2.0	0.66	ug/L		11/04/24 09:30	11/05/24 20:05	1
Beryllium	<0.33		1.0	0.33	ug/L		11/04/24 09:30	11/05/24 20:05	1
Boron	160		100	76	ug/L		11/04/24 09:30	11/05/24 20:05	1
Cadmium	<0.10		0.20	0.10	ug/L		11/04/24 09:30	11/05/24 20:05	1
Calcium	160		0.50	0.19	mg/L		11/04/24 09:30	11/05/24 20:05	1
Chromium	<1.2		5.0	1.2	ug/L		11/04/24 09:30	11/05/24 20:05	1
Cobalt	0.42 J		0.50	0.17	ug/L		11/04/24 09:30	11/05/24 20:05	1
Iron	13000		100	36	ug/L		11/04/24 09:30	11/05/24 20:05	1
Lead	<0.26		0.50	0.26	ug/L		11/04/24 09:30	11/05/24 20:05	1
Lithium	4.4 J		10	2.5	ug/L		11/04/24 09:30	11/05/24 20:05	1
Molybdenum	1.3 J		2.0	1.3	ug/L		11/04/24 09:30	11/05/24 20:05	1
Selenium	<1.4		5.0	1.4	ug/L		11/04/24 09:30	11/05/24 20:05	1
Thallium	<0.57		1.0	0.57	ug/L		11/04/24 09:30	11/05/24 20:05	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<1.1		2.0	1.1	ug/L		11/02/24 15:10	11/04/24 14:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	660		50	42	mg/L			10/28/24 22:38	1
pH (SM 4500 H+ B)	6.9 HF		1.0	1.0	SU			10/24/24 17:40	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	0.567		0.309	0.313	1.00	0.382	pCi/L	10/29/24 08:26	11/20/24 08:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	76.5		30 - 110					10/29/24 08:26	11/20/24 08:38	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	1.25 G		0.746	0.755	1.00	1.10	pCi/L	10/29/24 08:30	11/19/24 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	76.5		30 - 110					10/29/24 08:30	11/19/24 11:49	1
Y Carrier	72.1		30 - 110					10/29/24 08:30	11/19/24 11:49	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-314

Lab Sample ID: 310-293618-20

Date Collected: 10/22/24 10:10

Matrix: Water

Date Received: 10/24/24 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	1.81		0.807	0.817	5.00	1.10	pCi/L		11/22/24 10:33	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	518.18				ft			10/22/24 10:10	1
Oxidation Reduction Potential	-105.5				mV			10/22/24 10:10	1
Oxygen, Dissolved	0.05				mg/L			10/22/24 10:10	1
Field pH	6.64				SU			10/22/24 10:10	1
Field Conductivity	1078				umhos/cm			10/22/24 10:10	1
Field Temperature	13.9				Degrees C			10/22/24 10:10	1
Field Turbidity	1.96				NTU			10/22/24 10:10	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: Field Blank

Lab Sample ID: 310-293618-21

Date Collected: 10/22/24 17:05

Matrix: Water

Date Received: 10/24/24 16:15

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			11/06/24 16:43	1
Fluoride	<0.075		0.20	0.075	mg/L			11/06/24 16:43	1
Sulfate	<0.42		1.0	0.42	mg/L			11/06/24 16:43	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		11/04/24 09:30	11/05/24 20:08	1
Arsenic	<0.53		2.0	0.53	ug/L		11/04/24 09:30	11/05/24 20:08	1
Barium	<0.66		2.0	0.66	ug/L		11/04/24 09:30	11/05/24 20:08	1
Beryllium	<0.33		1.0	0.33	ug/L		11/04/24 09:30	11/05/24 20:08	1
Boron	<76	*+	100	76	ug/L		11/04/24 09:30	11/05/24 20:08	1
Cadmium	<0.10		0.20	0.10	ug/L		11/04/24 09:30	11/05/24 20:08	1
Calcium	<0.19		0.50	0.19	mg/L		11/04/24 09:30	11/05/24 20:08	1
Chromium	<1.2		5.0	1.2	ug/L		11/04/24 09:30	11/05/24 20:08	1
Cobalt	<0.17		0.50	0.17	ug/L		11/04/24 09:30	11/05/24 20:08	1
Lead	<0.26		0.50	0.26	ug/L		11/04/24 09:30	11/05/24 20:08	1
Lithium	<2.5		10	2.5	ug/L		11/04/24 09:30	11/05/24 20:08	1
Molybdenum	<1.3		2.0	1.3	ug/L		11/04/24 09:30	11/05/24 20:08	1
Selenium	<1.4		5.0	1.4	ug/L		11/04/24 09:30	11/05/24 20:08	1
Thallium	<0.57		1.0	0.57	ug/L		11/04/24 09:30	11/05/24 20:08	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<1.1		2.0	1.1	ug/L		11/02/24 15:10	11/04/24 14:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	<42		50	42	mg/L			10/28/24 22:38	1
pH (SM 4500 H+ B)	6.0	HF	1.0	1.0	SU			10/24/24 17:42	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	0.0555	U	0.137	0.138	1.00	0.257	pCi/L	10/29/24 08:26	11/20/24 08:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	83.1		30 - 110					10/29/24 08:26	11/20/24 08:38	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	0.000	U	0.353	0.353	1.00	0.661	pCi/L	10/29/24 08:30	11/19/24 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	83.1		30 - 110					10/29/24 08:30	11/19/24 11:49	1
Y Carrier	75.9		30 - 110					10/29/24 08:30	11/19/24 11:49	1

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Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: Field Blank

Lab Sample ID: 310-293618-21

Date Collected: 10/22/24 17:05

Matrix: Water

Date Received: 10/24/24 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	0.0555	U	0.379	0.379	5.00	0.661	pCi/L		11/22/24 10:33	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Definitions/Glossary

Client: SCS Engineers
Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

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

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)

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Definitions/Glossary

Client: SCS Engineers
Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-439003/3
Matrix: Water
Analysis Batch: 439003

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.45		1.0	0.45	mg/L			11/05/24 18:57	1
Fluoride	<0.075		0.20	0.075	mg/L			11/05/24 18:57	1
Sulfate	<0.42		1.0	0.42	mg/L			11/05/24 18:57	1

Lab Sample ID: LCS 310-439003/4
Matrix: Water
Analysis Batch: 439003

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	2.00	1.94		mg/L		97	90 - 110
Sulfate	10.0	9.70		mg/L		97	90 - 110

Lab Sample ID: MB 310-439046/3
Matrix: Water
Analysis Batch: 439046

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.45		1.0	0.45	mg/L			11/06/24 11:00	1
Fluoride	<0.075		0.20	0.075	mg/L			11/06/24 11:00	1
Sulfate	<0.42		1.0	0.42	mg/L			11/06/24 11:00	1

Lab Sample ID: LCS 310-439046/4
Matrix: Water
Analysis Batch: 439046

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	2.00	1.93		mg/L		96	90 - 110
Sulfate	10.0	9.63		mg/L		96	90 - 110

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-438444/1-A
Matrix: Water
Analysis Batch: 438811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 438444

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<1.0		2.0	1.0	ug/L		11/04/24 09:30	11/05/24 17:27	1
Arsenic	<0.53		2.0	0.53	ug/L		11/04/24 09:30	11/05/24 17:27	1
Barium	<0.66		2.0	0.66	ug/L		11/04/24 09:30	11/05/24 17:27	1
Magnesium	<150		500	150	ug/L		11/04/24 09:30	11/05/24 17:27	1
Beryllium	<0.33		1.0	0.33	ug/L		11/04/24 09:30	11/05/24 17:27	1
Manganese	<3.6		10	3.6	ug/L		11/04/24 09:30	11/05/24 17:27	1
Cadmium	<0.10		0.20	0.10	ug/L		11/04/24 09:30	11/05/24 17:27	1
Calcium	<0.19		0.50	0.19	mg/L		11/04/24 09:30	11/05/24 17:27	1
Chromium	<1.2		5.0	1.2	ug/L		11/04/24 09:30	11/05/24 17:27	1
Cobalt	<0.17		0.50	0.17	ug/L		11/04/24 09:30	11/05/24 17:27	1
Iron	37.0	J	100	36	ug/L		11/04/24 09:30	11/05/24 17:27	1
Lead	<0.26		0.50	0.26	ug/L		11/04/24 09:30	11/05/24 17:27	1

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QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

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

Lab Sample ID: MB 310-438444/1-A
Matrix: Water
Analysis Batch: 438811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 438444

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lithium	<2.5		10	2.5	ug/L		11/04/24 09:30	11/05/24 17:27	1
Molybdenum	<1.3		2.0	1.3	ug/L		11/04/24 09:30	11/05/24 17:27	1
Selenium	<1.4		5.0	1.4	ug/L		11/04/24 09:30	11/05/24 17:27	1
Thallium	<0.57		1.0	0.57	ug/L		11/04/24 09:30	11/05/24 17:27	1

Lab Sample ID: MB 310-438444/1-A
Matrix: Water
Analysis Batch: 438984

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 438444

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<76		100	76	ug/L		11/04/24 09:30	11/06/24 16:20	1

Lab Sample ID: LCS 310-438444/2-A
Matrix: Water
Analysis Batch: 438811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 438444

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Antimony	200	194		ug/L		97	80 - 120
Arsenic	200	207		ug/L		104	80 - 120
Barium	100	98.8		ug/L		99	80 - 120
Magnesium	2000	1910		ug/L		96	80 - 120
Beryllium	100	101		ug/L		101	80 - 120
Manganese	100	102		ug/L		102	80 - 120
Cadmium	100	97.1		ug/L		97	80 - 120
Calcium	2.00	2.08		mg/L		104	80 - 120
Chromium	100	106		ug/L		106	80 - 120
Cobalt	100	103		ug/L		103	80 - 120
Iron	200	190		ug/L		95	80 - 120
Lead	200	207		ug/L		103	80 - 120
Lithium	200	205		ug/L		102	80 - 120
Molybdenum	200	192		ug/L		96	80 - 120
Selenium	400	395		ug/L		99	80 - 120
Thallium	100	111		ug/L		111	80 - 120

Lab Sample ID: LCS 310-438444/2-A
Matrix: Water
Analysis Batch: 438984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 438444

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Boron	200	200		ug/L		100	80 - 120

Lab Sample ID: 310-293618-1 MS
Matrix: Water
Analysis Batch: 438811

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 438444

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
Antimony	<1.0		200	205		ug/L		102	75 - 125
Arsenic	6.3		200	220		ug/L		107	75 - 125
Barium	38		100	141		ug/L		104	75 - 125
Magnesium	49000		2000	50800	4	ug/L		83	75 - 125

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QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

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

Lab Sample ID: 310-293618-1 MS
Matrix: Water
Analysis Batch: 438811

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 438444

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec	
	Result			Result	Qualifier				Limits	Limits
Beryllium	<0.33		100	101		ug/L		101	75 - 125	
Cadmium	<0.10		100	99.2		ug/L		99	75 - 125	
Calcium	200		2.00	200	4	mg/L		-12	75 - 125	
Chromium	<1.2		100	104		ug/L		104	75 - 125	
Cobalt	8.4		100	108		ug/L		100	75 - 125	
Iron	18000	B	200	18300	4	ug/L		84	75 - 125	
Lead	<0.26		200	214		ug/L		107	75 - 125	
Lithium	16		200	215		ug/L		100	75 - 125	
Molybdenum	59		200	263		ug/L		102	75 - 125	
Selenium	<1.4		400	411		ug/L		103	75 - 125	
Thallium	<0.57		100	114		ug/L		114	75 - 125	

Lab Sample ID: 310-293618-1 MS
Matrix: Water
Analysis Batch: 438984

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 438444

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec	
	Result			Result	Qualifier				Limits	Limits
Boron	5300		200	5750	4	ug/L		232	75 - 125	

Lab Sample ID: 310-293618-1 MSD
Matrix: Water
Analysis Batch: 438811

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 438444

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result			Result	Qualifier				Limits	Limits	RPD	Limit
Antimony	<1.0		200	207		ug/L		103	75 - 125	1	20	
Arsenic	6.3		200	217		ug/L		106	75 - 125	1	20	
Barium	38		100	141		ug/L		104	75 - 125	0	20	
Magnesium	49000		2000	49400	4	ug/L		13	75 - 125	3	20	
Beryllium	<0.33		100	100		ug/L		100	75 - 125	1	20	
Cadmium	<0.10		100	99.3		ug/L		99	75 - 125	0	20	
Calcium	200		2.00	196	4	mg/L		-179	75 - 125	2	20	
Chromium	<1.2		100	104		ug/L		104	75 - 125	0	20	
Cobalt	8.4		100	108		ug/L		100	75 - 125	0	20	
Iron	18000	B	200	18300	4	ug/L		48	75 - 125	0	20	
Lead	<0.26		200	211		ug/L		105	75 - 125	1	20	
Lithium	16		200	213		ug/L		99	75 - 125	1	20	
Molybdenum	59		200	265		ug/L		103	75 - 125	1	20	
Selenium	<1.4		400	398		ug/L		99	75 - 125	3	20	
Thallium	<0.57		100	112		ug/L		112	75 - 125	2	20	

Lab Sample ID: 310-293618-1 MSD
Matrix: Water
Analysis Batch: 438984

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 438444

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result			Result	Qualifier				Limits	Limits	RPD	Limit
Boron	5300		200	5660	4	ug/L		187	75 - 125	2	20	

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QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

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

Lab Sample ID: 310-293618-11 DU
Matrix: Water
Analysis Batch: 438811

Client Sample ID: MW-308
Prep Type: Total/NA
Prep Batch: 438444

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<1.0		<1.0		ug/L		NC	20
Arsenic	4.7		4.67		ug/L		0.3	20
Barium	69		66.9		ug/L		3	20
Magnesium	20000		19900		ug/L		2	20
Beryllium	<0.33		<0.33		ug/L		NC	20
Cadmium	0.18	J	0.194	J	ug/L		6	20
Calcium	140		141		mg/L		3	20
Chromium	<1.2		<1.2		ug/L		NC	20
Cobalt	0.96		0.939		ug/L		2	20
Iron	1600	B	1580		ug/L		4	20
Lead	<0.26		<0.26		ug/L		NC	20
Lithium	230		229		ug/L		1	20
Molybdenum	760		741		ug/L		2	20
Selenium	<1.4		<1.4		ug/L		NC	20
Thallium	<0.57		<0.57		ug/L		NC	20

Lab Sample ID: 310-293618-11 DU
Matrix: Water
Analysis Batch: 438984

Client Sample ID: MW-308
Prep Type: Total/NA
Prep Batch: 438444

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Boron	5700		5580		ug/L		2	20

Lab Sample ID: MB 310-438447/1-A
Matrix: Water
Analysis Batch: 438811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 438447

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<1.0		2.0	1.0	ug/L		11/04/24 09:30	11/05/24 19:06	1
Arsenic	<0.53		2.0	0.53	ug/L		11/04/24 09:30	11/05/24 19:06	1
Barium	<0.66		2.0	0.66	ug/L		11/04/24 09:30	11/05/24 19:06	1
Beryllium	<0.33		1.0	0.33	ug/L		11/04/24 09:30	11/05/24 19:06	1
Boron	<76	^+	100	76	ug/L		11/04/24 09:30	11/05/24 19:06	1
Cadmium	<0.10		0.20	0.10	ug/L		11/04/24 09:30	11/05/24 19:06	1
Calcium	<0.19		0.50	0.19	mg/L		11/04/24 09:30	11/05/24 19:06	1
Chromium	<1.2		5.0	1.2	ug/L		11/04/24 09:30	11/05/24 19:06	1
Cobalt	<0.17		0.50	0.17	ug/L		11/04/24 09:30	11/05/24 19:06	1
Iron	<36		100	36	ug/L		11/04/24 09:30	11/05/24 19:06	1
Lead	<0.26		0.50	0.26	ug/L		11/04/24 09:30	11/05/24 19:06	1
Lithium	<2.5		10	2.5	ug/L		11/04/24 09:30	11/05/24 19:06	1
Molybdenum	<1.3		2.0	1.3	ug/L		11/04/24 09:30	11/05/24 19:06	1
Selenium	<1.4		5.0	1.4	ug/L		11/04/24 09:30	11/05/24 19:06	1
Thallium	<0.57		1.0	0.57	ug/L		11/04/24 09:30	11/05/24 19:06	1

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QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

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

Lab Sample ID: MB 310-438447/1-A
Matrix: Water
Analysis Batch: 438877

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 438447

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<76		100	76	ug/L		11/04/24 09:30	11/06/24 12:48	1

Lab Sample ID: LCS 310-438447/2-A
Matrix: Water
Analysis Batch: 438811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 438447

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	200	192		ug/L		96	80 - 120
Arsenic	200	208		ug/L		104	80 - 120
Barium	100	97.8		ug/L		98	80 - 120
Beryllium	100	98.8		ug/L		99	80 - 120
Cadmium	100	95.9		ug/L		96	80 - 120
Calcium	2.00	2.10		mg/L		105	80 - 120
Chromium	100	107		ug/L		107	80 - 120
Cobalt	100	103		ug/L		103	80 - 120
Iron	200	183		ug/L		91	80 - 120
Lead	200	205		ug/L		103	80 - 120
Lithium	200	204		ug/L		102	80 - 120
Molybdenum	200	190		ug/L		95	80 - 120
Selenium	400	393		ug/L		98	80 - 120
Thallium	100	108		ug/L		108	80 - 120

Lab Sample ID: LCS 310-438447/2-A
Matrix: Water
Analysis Batch: 438877

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 438447

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	200	238		ug/L		119	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-438094/1-A
Matrix: Water
Analysis Batch: 438253

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 438094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		10/30/24 15:40	10/31/24 10:45	1

Lab Sample ID: LCS 310-438094/2-A
Matrix: Water
Analysis Batch: 438253

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 438094

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.67	1.67		ug/L		100	80 - 120

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 310-438280/1-A
 Matrix: Water
 Analysis Batch: 438610

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 438280

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<1.1		2.0	1.1	ug/L		11/02/24 15:10	11/04/24 13:33	1

Lab Sample ID: LCS 310-438280/2-A
 Matrix: Water
 Analysis Batch: 438610

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 438280

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	16.7	16.6		ug/L		100	80 - 120

Lab Sample ID: 310-293618-8 MS
 Matrix: Water
 Analysis Batch: 438610

Client Sample ID: MW-307
 Prep Type: Total/NA
 Prep Batch: 438280

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<1.1		16.7	17.2		ug/L		103	80 - 120

Lab Sample ID: 310-293618-8 MSD
 Matrix: Water
 Analysis Batch: 438610

Client Sample ID: MW-307
 Prep Type: Total/NA
 Prep Batch: 438280

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<1.1		16.7	18.1		ug/L		109	80 - 120	5	20

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 310-438135/25
 Matrix: Water
 Analysis Batch: 438135

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 310-437636/1
 Matrix: Water
 Analysis Batch: 437636

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<42		50	42	mg/L			10/25/24 18:53	1

Lab Sample ID: LCS 310-437636/2
 Matrix: Water
 Analysis Batch: 437636

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	940		mg/L		94	88 - 110

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QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MB 310-437640/1
Matrix: Water
Analysis Batch: 437640

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<42		50	42	mg/L			10/25/24 20:09	1

Lab Sample ID: LCS 310-437640/2
Matrix: Water
Analysis Batch: 437640

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	956		mg/L		96	88 - 110

Lab Sample ID: MB 310-437844/1
Matrix: Water
Analysis Batch: 437844

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<42		50	42	mg/L			10/28/24 22:38	1

Lab Sample ID: LCS 310-437844/2
Matrix: Water
Analysis Batch: 437844

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	990		mg/L		99	88 - 110

Lab Sample ID: MB 310-438140/1
Matrix: Water
Analysis Batch: 438140

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<42		50	42	mg/L			10/30/24 23:06	1

Lab Sample ID: LCS 310-438140/2
Matrix: Water
Analysis Batch: 438140

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	986		mg/L		99	88 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 310-437382/110
Matrix: Water
Analysis Batch: 437382

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

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QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Method: SM 4500 H+ B - pH (Continued)

Lab Sample ID: LCS 310-437382/134
 Matrix: Water
 Analysis Batch: 437382

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.1		SU		101	98 - 102

Lab Sample ID: 310-293618-20 DU
 Matrix: Water
 Analysis Batch: 437382

Client Sample ID: MW-314
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.9	HF	6.9		SU		0.1	20

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-685739/1-A
 Matrix: Water
 Analysis Batch: 689479

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 685739

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	-0.01236	U	0.105	0.105	1.00	0.233	pCi/L	10/29/24 08:26	11/20/24 08:28	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	90.2		30 - 110					10/29/24 08:26	11/20/24 08:28	1

Lab Sample ID: LCS 160-685739/2-A
 Matrix: Water
 Analysis Batch: 689479

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 685739

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium 226	9.58	9.761		1.22	1.00	0.224	pCi/L	102	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Barium	87.5		30 - 110						

Lab Sample ID: 310-293618-1 DU
 Matrix: Water
 Analysis Batch: 689479

Client Sample ID: MW-301
 Prep Type: Total/NA
 Prep Batch: 685739

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium 226	-0.0437	U	0.02261	U	0.158	1.00	0.307	pCi/L	0.20	1
Carrier	DU %Yield	DU Qualifier	Limits							
Barium	81.4		30 - 110							

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-685740/1-A
Matrix: Water
Analysis Batch: 689263

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685740

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)							
Radium 228	0.09926	U	0.412	0.412	1.00	0.734	pCi/L	10/29/24 08:30	11/19/24 11:45	1	
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed		Dil Fac
Barium	90.2		30 - 110				10/29/24 08:30		11/19/24 11:45		1
Y Carrier	79.3		30 - 110				10/29/24 08:30		11/19/24 11:45		1

Lab Sample ID: LCS 160-685740/2-A
Matrix: Water
Analysis Batch: 689263

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685740

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium 228	8.33	10.59		1.50	1.00	0.677	pCi/L	127	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Barium	87.5		30 - 110						
Y Carrier	75.5		30 - 110						

Lab Sample ID: 310-293618-1 DU
Matrix: Water
Analysis Batch: 689263

Client Sample ID: MW-301
Prep Type: Total/NA
Prep Batch: 685740

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					Limit
Radium 228	0.135	U	0.4420	U	0.528	1.00	0.869	pCi/L	0.33	1
Carrier	DU %Yield	DU Qualifier	Limits							
Barium	81.4		30 - 110							
Y Carrier	74.8		30 - 110							

QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

HPLC/IC

Analysis Batch: 439003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293618-1	MW-301	Total/NA	Water	9056A	
310-293618-1	MW-301	Total/NA	Water	9056A	
310-293618-2	MW-302	Total/NA	Water	9056A	
310-293618-2	MW-302	Total/NA	Water	9056A	
310-293618-4	MW-303	Total/NA	Water	9056A	
310-293618-5	MW-304	Total/NA	Water	9056A	
310-293618-6	MW-305	Total/NA	Water	9056A	
MB 310-439003/3	Method Blank	Total/NA	Water	9056A	
LCS 310-439003/4	Lab Control Sample	Total/NA	Water	9056A	

Analysis Batch: 439046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293618-7	MW-306	Total/NA	Water	9056A	
310-293618-8	MW-307	Total/NA	Water	9056A	
310-293618-11	MW-308	Total/NA	Water	9056A	
310-293618-11	MW-308	Total/NA	Water	9056A	
310-293618-12	MW-309	Total/NA	Water	9056A	
310-293618-13	MW-310	Total/NA	Water	9056A	
310-293618-14	MW-310A	Total/NA	Water	9056A	
310-293618-15	MW-311	Total/NA	Water	9056A	
310-293618-20	MW-314	Total/NA	Water	9056A	
310-293618-21	Field Blank	Total/NA	Water	9056A	
MB 310-439046/3	Method Blank	Total/NA	Water	9056A	
LCS 310-439046/4	Lab Control Sample	Total/NA	Water	9056A	

Metals

Prep Batch: 438094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293618-1	MW-301	Total/NA	Water	7470A	
310-293618-2	MW-302	Total/NA	Water	7470A	
310-293618-4	MW-303	Total/NA	Water	7470A	
310-293618-5	MW-304	Total/NA	Water	7470A	
310-293618-6	MW-305	Total/NA	Water	7470A	
310-293618-7	MW-306	Total/NA	Water	7470A	
MB 310-438094/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-438094/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 438253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293618-1	MW-301	Total/NA	Water	7470A	438094
310-293618-2	MW-302	Total/NA	Water	7470A	438094
310-293618-4	MW-303	Total/NA	Water	7470A	438094
310-293618-5	MW-304	Total/NA	Water	7470A	438094
310-293618-6	MW-305	Total/NA	Water	7470A	438094
310-293618-7	MW-306	Total/NA	Water	7470A	438094
MB 310-438094/1-A	Method Blank	Total/NA	Water	7470A	438094
LCS 310-438094/2-A	Lab Control Sample	Total/NA	Water	7470A	438094

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QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Metals

Prep Batch: 438280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293618-8	MW-307	Total/NA	Water	7470A	
310-293618-11	MW-308	Total/NA	Water	7470A	
310-293618-12	MW-309	Total/NA	Water	7470A	
310-293618-13	MW-310	Total/NA	Water	7470A	
310-293618-14	MW-310A	Total/NA	Water	7470A	
310-293618-15	MW-311	Total/NA	Water	7470A	
310-293618-20	MW-314	Total/NA	Water	7470A	
310-293618-21	Field Blank	Total/NA	Water	7470A	
MB 310-438280/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-438280/2-A	Lab Control Sample	Total/NA	Water	7470A	
310-293618-8 MS	MW-307	Total/NA	Water	7470A	
310-293618-8 MSD	MW-307	Total/NA	Water	7470A	

Prep Batch: 438444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293618-1	MW-301	Total/NA	Water	3005A	
310-293618-2	MW-302	Total/NA	Water	3005A	
310-293618-3	MW-302A	Total/NA	Water	3005A	
310-293618-4	MW-303	Total/NA	Water	3005A	
310-293618-5	MW-304	Total/NA	Water	3005A	
310-293618-6	MW-305	Total/NA	Water	3005A	
310-293618-7	MW-306	Total/NA	Water	3005A	
310-293618-8	MW-307	Total/NA	Water	3005A	
310-293618-9	MW-307A	Total/NA	Water	3005A	
310-293618-10	MW-307B	Total/NA	Water	3005A	
310-293618-11	MW-308	Total/NA	Water	3005A	
310-293618-12	MW-309	Total/NA	Water	3005A	
310-293618-13	MW-310	Total/NA	Water	3005A	
310-293618-14	MW-310A	Total/NA	Water	3005A	
310-293618-15	MW-311	Total/NA	Water	3005A	
310-293618-16	MW-312	Total/NA	Water	3005A	
310-293618-17	MW-313	Total/NA	Water	3005A	
310-293618-18	MW-313A	Total/NA	Water	3005A	
310-293618-19	MW-313B	Total/NA	Water	3005A	
MB 310-438444/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-438444/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-293618-1 MS	MW-301	Total/NA	Water	3005A	
310-293618-1 MSD	MW-301	Total/NA	Water	3005A	
310-293618-11 DU	MW-308	Total/NA	Water	3005A	

Prep Batch: 438447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293618-20	MW-314	Total/NA	Water	3005A	
310-293618-21	Field Blank	Total/NA	Water	3005A	
MB 310-438447/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-438447/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 438610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293618-8	MW-307	Total/NA	Water	7470A	438280
310-293618-11	MW-308	Total/NA	Water	7470A	438280

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Metals (Continued)

Analysis Batch: 438610 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293618-12	MW-309	Total/NA	Water	7470A	438280
310-293618-13	MW-310	Total/NA	Water	7470A	438280
310-293618-14	MW-310A	Total/NA	Water	7470A	438280
310-293618-15	MW-311	Total/NA	Water	7470A	438280
310-293618-20	MW-314	Total/NA	Water	7470A	438280
310-293618-21	Field Blank	Total/NA	Water	7470A	438280
MB 310-438280/1-A	Method Blank	Total/NA	Water	7470A	438280
LCS 310-438280/2-A	Lab Control Sample	Total/NA	Water	7470A	438280
310-293618-8 MS	MW-307	Total/NA	Water	7470A	438280
310-293618-8 MSD	MW-307	Total/NA	Water	7470A	438280

Analysis Batch: 438811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293618-1	MW-301	Total/NA	Water	6020B	438444
310-293618-2	MW-302	Total/NA	Water	6020B	438444
310-293618-3	MW-302A	Total/NA	Water	6020B	438444
310-293618-4	MW-303	Total/NA	Water	6020B	438444
310-293618-5	MW-304	Total/NA	Water	6020B	438444
310-293618-6	MW-305	Total/NA	Water	6020B	438444
310-293618-7	MW-306	Total/NA	Water	6020B	438444
310-293618-8	MW-307	Total/NA	Water	6020B	438444
310-293618-9	MW-307A	Total/NA	Water	6020B	438444
310-293618-10	MW-307B	Total/NA	Water	6020B	438444
310-293618-11	MW-308	Total/NA	Water	6020B	438444
310-293618-12	MW-309	Total/NA	Water	6020B	438444
310-293618-13	MW-310	Total/NA	Water	6020B	438444
310-293618-14	MW-310A	Total/NA	Water	6020B	438444
310-293618-15	MW-311	Total/NA	Water	6020B	438444
310-293618-16	MW-312	Total/NA	Water	6020B	438444
310-293618-17	MW-313	Total/NA	Water	6020B	438444
310-293618-18	MW-313A	Total/NA	Water	6020B	438444
310-293618-19	MW-313B	Total/NA	Water	6020B	438444
310-293618-20	MW-314	Total/NA	Water	6020B	438447
310-293618-21	Field Blank	Total/NA	Water	6020B	438447
MB 310-438444/1-A	Method Blank	Total/NA	Water	6020B	438444
MB 310-438447/1-A	Method Blank	Total/NA	Water	6020B	438447
LCS 310-438444/2-A	Lab Control Sample	Total/NA	Water	6020B	438444
LCS 310-438447/2-A	Lab Control Sample	Total/NA	Water	6020B	438447
310-293618-1 MS	MW-301	Total/NA	Water	6020B	438444
310-293618-1 MSD	MW-301	Total/NA	Water	6020B	438444
310-293618-11 DU	MW-308	Total/NA	Water	6020B	438444

Analysis Batch: 438877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-438447/1-A	Method Blank	Total/NA	Water	6020B	438447
LCS 310-438447/2-A	Lab Control Sample	Total/NA	Water	6020B	438447

Analysis Batch: 438984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293618-1	MW-301	Total/NA	Water	6020B	438444
310-293618-2	MW-302	Total/NA	Water	6020B	438444

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Metals (Continued)

Analysis Batch: 438984 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293618-4	MW-303	Total/NA	Water	6020B	438444
310-293618-5	MW-304	Total/NA	Water	6020B	438444
310-293618-6	MW-305	Total/NA	Water	6020B	438444
310-293618-7	MW-306	Total/NA	Water	6020B	438444
310-293618-8	MW-307	Total/NA	Water	6020B	438444
310-293618-11	MW-308	Total/NA	Water	6020B	438444
310-293618-12	MW-309	Total/NA	Water	6020B	438444
310-293618-13	MW-310	Total/NA	Water	6020B	438444
310-293618-14	MW-310A	Total/NA	Water	6020B	438444
310-293618-15	MW-311	Total/NA	Water	6020B	438444
MB 310-438444/1-A	Method Blank	Total/NA	Water	6020B	438444
LCS 310-438444/2-A	Lab Control Sample	Total/NA	Water	6020B	438444
310-293618-1 MS	MW-301	Total/NA	Water	6020B	438444
310-293618-1 MSD	MW-301	Total/NA	Water	6020B	438444
310-293618-11 DU	MW-308	Total/NA	Water	6020B	438444

General Chemistry

Analysis Batch: 437382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293618-1	MW-301	Total/NA	Water	SM 4500 H+ B	
310-293618-2	MW-302	Total/NA	Water	SM 4500 H+ B	
310-293618-4	MW-303	Total/NA	Water	SM 4500 H+ B	
310-293618-5	MW-304	Total/NA	Water	SM 4500 H+ B	
310-293618-6	MW-305	Total/NA	Water	SM 4500 H+ B	
310-293618-7	MW-306	Total/NA	Water	SM 4500 H+ B	
310-293618-8	MW-307	Total/NA	Water	SM 4500 H+ B	
310-293618-11	MW-308	Total/NA	Water	SM 4500 H+ B	
310-293618-12	MW-309	Total/NA	Water	SM 4500 H+ B	
310-293618-13	MW-310	Total/NA	Water	SM 4500 H+ B	
310-293618-14	MW-310A	Total/NA	Water	SM 4500 H+ B	
310-293618-15	MW-311	Total/NA	Water	SM 4500 H+ B	
310-293618-20	MW-314	Total/NA	Water	SM 4500 H+ B	
310-293618-21	Field Blank	Total/NA	Water	SM 4500 H+ B	
LCS 310-437382/110	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCS 310-437382/134	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
310-293618-20 DU	MW-314	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 437636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293618-11	MW-308	Total/NA	Water	SM 2540C	
MB 310-437636/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-437636/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 437640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293618-13	MW-310	Total/NA	Water	SM 2540C	
310-293618-14	MW-310A	Total/NA	Water	SM 2540C	
MB 310-437640/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-437640/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

General Chemistry

Analysis Batch: 437844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293618-4	MW-303	Total/NA	Water	SM 2540C	
310-293618-5	MW-304	Total/NA	Water	SM 2540C	
310-293618-6	MW-305	Total/NA	Water	SM 2540C	
310-293618-7	MW-306	Total/NA	Water	SM 2540C	
310-293618-8	MW-307	Total/NA	Water	SM 2540C	
310-293618-15	MW-311	Total/NA	Water	SM 2540C	
310-293618-20	MW-314	Total/NA	Water	SM 2540C	
310-293618-21	Field Blank	Total/NA	Water	SM 2540C	
MB 310-437844/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-437844/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 438135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293618-17	MW-313	Total/NA	Water	SM 2320B	
LCS 310-438135/25	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 438140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293618-1	MW-301	Total/NA	Water	SM 2540C	
310-293618-2	MW-302	Total/NA	Water	SM 2540C	
310-293618-12	MW-309	Total/NA	Water	SM 2540C	
MB 310-438140/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-438140/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Rad

Prep Batch: 685739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293618-1	MW-301	Total/NA	Water	PrecSep-21	
310-293618-2	MW-302	Total/NA	Water	PrecSep-21	
310-293618-4	MW-303	Total/NA	Water	PrecSep-21	
310-293618-5	MW-304	Total/NA	Water	PrecSep-21	
310-293618-6	MW-305	Total/NA	Water	PrecSep-21	
310-293618-7	MW-306	Total/NA	Water	PrecSep-21	
310-293618-8	MW-307	Total/NA	Water	PrecSep-21	
310-293618-11	MW-308	Total/NA	Water	PrecSep-21	
310-293618-12	MW-309	Total/NA	Water	PrecSep-21	
310-293618-13	MW-310	Total/NA	Water	PrecSep-21	
310-293618-14	MW-310A	Total/NA	Water	PrecSep-21	
310-293618-15	MW-311	Total/NA	Water	PrecSep-21	
310-293618-20	MW-314	Total/NA	Water	PrecSep-21	
310-293618-21	Field Blank	Total/NA	Water	PrecSep-21	
MB 160-685739/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-685739/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
310-293618-1 DU	MW-301	Total/NA	Water	PrecSep-21	

Prep Batch: 685740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293618-1	MW-301	Total/NA	Water	PrecSep_0	
310-293618-2	MW-302	Total/NA	Water	PrecSep_0	
310-293618-4	MW-303	Total/NA	Water	PrecSep_0	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Rad (Continued)

Prep Batch: 685740 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293618-5	MW-304	Total/NA	Water	PrecSep_0	
310-293618-6	MW-305	Total/NA	Water	PrecSep_0	
310-293618-7	MW-306	Total/NA	Water	PrecSep_0	
310-293618-8	MW-307	Total/NA	Water	PrecSep_0	
310-293618-11	MW-308	Total/NA	Water	PrecSep_0	
310-293618-12	MW-309	Total/NA	Water	PrecSep_0	
310-293618-13	MW-310	Total/NA	Water	PrecSep_0	
310-293618-14	MW-310A	Total/NA	Water	PrecSep_0	
310-293618-15	MW-311	Total/NA	Water	PrecSep_0	
310-293618-20	MW-314	Total/NA	Water	PrecSep_0	
310-293618-21	Field Blank	Total/NA	Water	PrecSep_0	
MB 160-685740/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-685740/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
310-293618-1 DU	MW-301	Total/NA	Water	PrecSep_0	

Field Service / Mobile Lab

Analysis Batch: 438188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293618-1	MW-301	Total/NA	Water	Field Sampling	
310-293618-2	MW-302	Total/NA	Water	Field Sampling	
310-293618-3	MW-302A	Total/NA	Water	Field Sampling	
310-293618-4	MW-303	Total/NA	Water	Field Sampling	
310-293618-5	MW-304	Total/NA	Water	Field Sampling	
310-293618-6	MW-305	Total/NA	Water	Field Sampling	
310-293618-7	MW-306	Total/NA	Water	Field Sampling	
310-293618-8	MW-307	Total/NA	Water	Field Sampling	
310-293618-9	MW-307A	Total/NA	Water	Field Sampling	
310-293618-10	MW-307B	Total/NA	Water	Field Sampling	
310-293618-11	MW-308	Total/NA	Water	Field Sampling	
310-293618-12	MW-309	Total/NA	Water	Field Sampling	
310-293618-13	MW-310	Total/NA	Water	Field Sampling	
310-293618-14	MW-310A	Total/NA	Water	Field Sampling	
310-293618-15	MW-311	Total/NA	Water	Field Sampling	
310-293618-16	MW-312	Total/NA	Water	Field Sampling	
310-293618-17	MW-313	Total/NA	Water	Field Sampling	
310-293618-18	MW-313A	Total/NA	Water	Field Sampling	
310-293618-19	MW-313B	Total/NA	Water	Field Sampling	
310-293618-20	MW-314	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-301
Date Collected: 10/23/24 09:17
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	439003	WZC8	EET CF	11/06/24 03:29
Total/NA	Analysis	9056A		20	439003	WZC8	EET CF	11/06/24 10:29
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 17:33
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		5	438984	A6US	EET CF	11/06/24 16:26
Total/NA	Prep	7470A			438094	QTZ5	EET CF	10/30/24 15:40
Total/NA	Analysis	7470A		1	438253	QTZ5	EET CF	10/31/24 11:32
Total/NA	Analysis	SM 2540C		1	438140	MDU9	EET CF	10/30/24 23:06
Total/NA	Analysis	SM 4500 H+ B		1	437382	W9YR	EET CF	10/24/24 17:44
Total/NA	Prep	PrecSep-21			685739	BCE	EET SL	10/29/24 08:26
Total/NA	Analysis	903.0		1	689479	SCB	EET SL	11/20/24 08:28
Total/NA	Prep	PrecSep_0			685740	BCE	EET SL	10/29/24 08:30
Total/NA	Analysis	904.0		1	689263	SCB	EET SL	11/19/24 11:45
Total/NA	Analysis	Ra226_Ra228 Pos		1	689987	SCB	EET SL	11/22/24 10:33
Total/NA	Analysis	Field Sampling		1	438188	DN	EET CF	10/23/24 09:17

Client Sample ID: MW-302
Date Collected: 10/23/24 08:24
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	439003	WZC8	EET CF	11/06/24 03:45
Total/NA	Analysis	9056A		20	439003	WZC8	EET CF	11/06/24 10:45
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 17:47
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438984	A6US	EET CF	11/06/24 16:34
Total/NA	Prep	7470A			438094	QTZ5	EET CF	10/30/24 15:40
Total/NA	Analysis	7470A		1	438253	QTZ5	EET CF	10/31/24 11:35
Total/NA	Analysis	SM 2540C		1	438140	MDU9	EET CF	10/30/24 23:06
Total/NA	Analysis	SM 4500 H+ B		1	437382	W9YR	EET CF	10/24/24 17:36
Total/NA	Prep	PrecSep-21			685739	BCE	EET SL	10/29/24 08:26
Total/NA	Analysis	903.0		1	689479	SCB	EET SL	11/20/24 08:29
Total/NA	Prep	PrecSep_0			685740	BCE	EET SL	10/29/24 08:30
Total/NA	Analysis	904.0		1	689263	SCB	EET SL	11/19/24 11:44
Total/NA	Analysis	Ra226_Ra228 Pos		1	689987	SCB	EET SL	11/22/24 10:33
Total/NA	Analysis	Field Sampling		1	438188	DN	EET CF	10/23/24 08:24

Lab Chronicle

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-302A
Date Collected: 10/23/24 09:20
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 17:49
Total/NA	Analysis	Field Sampling		1	438188	DN	EET CF	10/23/24 09:20

Client Sample ID: MW-303
Date Collected: 10/22/24 16:31
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	439003	WZC8	EET CF	11/06/24 04:01
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 18:04
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		4	438984	A6US	EET CF	11/06/24 16:37
Total/NA	Prep	7470A			438094	QTZ5	EET CF	10/30/24 15:40
Total/NA	Analysis	7470A		1	438253	QTZ5	EET CF	10/31/24 11:37
Total/NA	Analysis	SM 2540C		1	437844	MDU9	EET CF	10/28/24 22:38
Total/NA	Analysis	SM 4500 H+ B		1	437382	W9YR	EET CF	10/24/24 17:47
Total/NA	Prep	PrecSep-21			685739	BCE	EET SL	10/29/24 08:26
Total/NA	Analysis	903.0		1	689479	SCB	EET SL	11/20/24 08:29
Total/NA	Prep	PrecSep_0			685740	BCE	EET SL	10/29/24 08:30
Total/NA	Analysis	904.0		1	689263	SCB	EET SL	11/19/24 11:44
Total/NA	Analysis	Ra226_Ra228 Pos		1	689987	SCB	EET SL	11/22/24 10:33
Total/NA	Analysis	Field Sampling		1	438188	DN	EET CF	10/22/24 16:31

Client Sample ID: MW-304
Date Collected: 10/22/24 15:35
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	439003	WZC8	EET CF	11/06/24 04:18
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 18:07
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		4	438984	A6US	EET CF	11/06/24 16:40
Total/NA	Prep	7470A			438094	QTZ5	EET CF	10/30/24 15:40
Total/NA	Analysis	7470A		1	438253	QTZ5	EET CF	10/31/24 11:39
Total/NA	Analysis	SM 2540C		1	437844	MDU9	EET CF	10/28/24 22:38
Total/NA	Analysis	SM 4500 H+ B		1	437382	W9YR	EET CF	10/24/24 17:49
Total/NA	Prep	PrecSep-21			685739	BCE	EET SL	10/29/24 08:26
Total/NA	Analysis	903.0		1	689479	SCB	EET SL	11/20/24 08:30
Total/NA	Prep	PrecSep_0			685740	BCE	EET SL	10/29/24 08:30
Total/NA	Analysis	904.0		1	689263	SCB	EET SL	11/19/24 11:45
Total/NA	Analysis	Ra226_Ra228 Pos		1	689987	SCB	EET SL	11/22/24 10:33

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-304
Date Collected: 10/22/24 15:35
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	438188	DN	EET CF	10/22/24 15:35

Client Sample ID: MW-305
Date Collected: 10/22/24 08:43
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	439003	WZC8	EET CF	11/06/24 04:34
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 18:09
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438984	A6US	EET CF	11/06/24 16:43
Total/NA	Prep	7470A			438094	QTZ5	EET CF	10/30/24 15:40
Total/NA	Analysis	7470A		1	438253	QTZ5	EET CF	10/31/24 11:41
Total/NA	Analysis	SM 2540C		1	437844	MDU9	EET CF	10/28/24 22:38
Total/NA	Analysis	SM 4500 H+ B		1	437382	W9YR	EET CF	10/24/24 17:34
Total/NA	Prep	PrecSep-21			685739	BCE	EET SL	10/29/24 08:26
Total/NA	Analysis	903.0		1	689479	SCB	EET SL	11/20/24 08:30
Total/NA	Prep	PrecSep_0			685740	BCE	EET SL	10/29/24 08:30
Total/NA	Analysis	904.0		1	689264	SCB	EET SL	11/19/24 11:47
Total/NA	Analysis	Ra226_Ra228 Pos		1	689987	SCB	EET SL	11/22/24 10:33
Total/NA	Analysis	Field Sampling		1	438188	DN	EET CF	10/22/24 08:43

Client Sample ID: MW-306
Date Collected: 10/22/24 12:47
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	439046	WZC8	EET CF	11/06/24 13:52
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 18:12
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438984	A6US	EET CF	11/06/24 16:46
Total/NA	Prep	7470A			438094	QTZ5	EET CF	10/30/24 15:40
Total/NA	Analysis	7470A		1	438253	QTZ5	EET CF	10/31/24 11:43
Total/NA	Analysis	SM 2540C		1	437844	MDU9	EET CF	10/28/24 22:38
Total/NA	Analysis	SM 4500 H+ B		1	437382	W9YR	EET CF	10/24/24 17:32
Total/NA	Prep	PrecSep-21			685739	BCE	EET SL	10/29/24 08:26
Total/NA	Analysis	903.0		1	689479	SCB	EET SL	11/20/24 08:30
Total/NA	Prep	PrecSep_0			685740	BCE	EET SL	10/29/24 08:30
Total/NA	Analysis	904.0		1	689264	SCB	EET SL	11/19/24 11:47
Total/NA	Analysis	Ra226_Ra228 Pos		1	689987	SCB	EET SL	11/22/24 10:33
Total/NA	Analysis	Field Sampling		1	438188	DN	EET CF	10/22/24 12:47

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-307
Date Collected: 10/22/24 16:40
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	439046	WZC8	EET CF	11/06/24 14:07
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 18:15
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438984	A6US	EET CF	11/06/24 17:00
Total/NA	Prep	7470A			438280	QTZ5	EET CF	11/02/24 15:10
Total/NA	Analysis	7470A		1	438610	QTZ5	EET CF	11/04/24 13:40
Total/NA	Analysis	SM 2540C		1	437844	MDU9	EET CF	10/28/24 22:38
Total/NA	Analysis	SM 4500 H+ B		1	437382	W9YR	EET CF	10/24/24 17:33
Total/NA	Prep	PrecSep-21			685739	BCE	EET SL	10/29/24 08:26
Total/NA	Analysis	903.0		1	689479	SCB	EET SL	11/20/24 08:30
Total/NA	Prep	PrecSep_0			685740	BCE	EET SL	10/29/24 08:30
Total/NA	Analysis	904.0		1	689264	SCB	EET SL	11/19/24 11:47
Total/NA	Analysis	Ra226_Ra228 Pos		1	689987	SCB	EET SL	11/22/24 10:33
Total/NA	Analysis	Field Sampling		1	438188	DN	EET CF	10/22/24 16:40

Client Sample ID: MW-307A
Date Collected: 10/22/24 15:51
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 18:18
Total/NA	Analysis	Field Sampling		1	438188	DN	EET CF	10/22/24 15:51

Client Sample ID: MW-307B
Date Collected: 10/22/24 14:50
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 18:21
Total/NA	Analysis	Field Sampling		1	438188	DN	EET CF	10/22/24 14:50

Client Sample ID: MW-308
Date Collected: 10/21/24 16:18
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	439046	WZC8	EET CF	11/06/24 14:23
Total/NA	Analysis	9056A		20	439046	WZC8	EET CF	11/06/24 14:38
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 18:23

Lab Chronicle

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-308
Date Collected: 10/21/24 16:18
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		7	438984	A6US	EET CF	11/06/24 17:03
Total/NA	Prep	7470A			438280	QTZ5	EET CF	11/02/24 15:10
Total/NA	Analysis	7470A		1	438610	QTZ5	EET CF	11/04/24 13:46
Total/NA	Analysis	SM 2540C		1	437636	MDU9	EET CF	10/25/24 18:53
Total/NA	Analysis	SM 4500 H+ B		1	437382	W9YR	EET CF	10/24/24 17:35
Total/NA	Prep	PrecSep-21			685739	BCE	EET SL	10/29/24 08:26
Total/NA	Analysis	903.0		1	689479	SCB	EET SL	11/20/24 08:37
Total/NA	Prep	PrecSep_0			685740	BCE	EET SL	10/29/24 08:30
Total/NA	Analysis	904.0		1	689264	SCB	EET SL	11/19/24 11:47
Total/NA	Analysis	Ra226_Ra228 Pos		1	689987	SCB	EET SL	11/22/24 10:33
Total/NA	Analysis	Field Sampling		1	438188	DN	EET CF	10/21/24 16:18

Client Sample ID: MW-309
Date Collected: 10/23/24 10:57
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	439046	WZC8	EET CF	11/06/24 14:54
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 18:29
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		7	438984	A6US	EET CF	11/06/24 17:08
Total/NA	Prep	7470A			438280	QTZ5	EET CF	11/02/24 15:10
Total/NA	Analysis	7470A		1	438610	QTZ5	EET CF	11/04/24 13:48
Total/NA	Analysis	SM 2540C		1	438140	MDU9	EET CF	10/30/24 23:06
Total/NA	Analysis	SM 4500 H+ B		1	437382	W9YR	EET CF	10/24/24 17:43
Total/NA	Prep	PrecSep-21			685739	BCE	EET SL	10/29/24 08:26
Total/NA	Analysis	903.0		1	689479	SCB	EET SL	11/20/24 08:37
Total/NA	Prep	PrecSep_0			685740	BCE	EET SL	10/29/24 08:30
Total/NA	Analysis	904.0		1	689264	SCB	EET SL	11/19/24 11:47
Total/NA	Analysis	Ra226_Ra228 Pos		1	689987	SCB	EET SL	11/22/24 10:33
Total/NA	Analysis	Field Sampling		1	438188	DN	EET CF	10/23/24 10:57

Client Sample ID: MW-310
Date Collected: 10/21/24 16:45
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	439046	WZC8	EET CF	11/06/24 15:09
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 18:43
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438984	A6US	EET CF	11/06/24 17:11

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-310
Date Collected: 10/21/24 16:45
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			438280	QTZ5	EET CF	11/02/24 15:10
Total/NA	Analysis	7470A		1	438610	QTZ5	EET CF	11/04/24 13:50
Total/NA	Analysis	SM 2540C		1	437640	MDU9	EET CF	10/25/24 20:09
Total/NA	Analysis	SM 4500 H+ B		1	437382	W9YR	EET CF	10/24/24 17:45
Total/NA	Prep	PrecSep-21			685739	BCE	EET SL	10/29/24 08:26
Total/NA	Analysis	903.0		1	689479	SCB	EET SL	11/20/24 08:37
Total/NA	Prep	PrecSep_0			685740	BCE	EET SL	10/29/24 08:30
Total/NA	Analysis	904.0		1	689264	SCB	EET SL	11/19/24 11:48
Total/NA	Analysis	Ra226_Ra228 Pos		1	689987	SCB	EET SL	11/22/24 10:33
Total/NA	Analysis	Field Sampling		1	438188	DN	EET CF	10/21/24 16:45

Client Sample ID: MW-310A
Date Collected: 10/21/24 10:00
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	439046	WZC8	EET CF	11/06/24 15:25
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 18:46
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438984	A6US	EET CF	11/06/24 17:14
Total/NA	Prep	7470A			438280	QTZ5	EET CF	11/02/24 15:10
Total/NA	Analysis	7470A		1	438610	QTZ5	EET CF	11/04/24 13:52
Total/NA	Analysis	SM 2540C		1	437640	MDU9	EET CF	10/25/24 20:09
Total/NA	Analysis	SM 4500 H+ B		1	437382	W9YR	EET CF	10/24/24 17:48
Total/NA	Prep	PrecSep-21			685739	BCE	EET SL	10/29/24 08:26
Total/NA	Analysis	903.0		1	689479	SCB	EET SL	11/20/24 08:37
Total/NA	Prep	PrecSep_0			685740	BCE	EET SL	10/29/24 08:30
Total/NA	Analysis	904.0		1	689264	SCB	EET SL	11/19/24 11:49
Total/NA	Analysis	Ra226_Ra228 Pos		1	689987	SCB	EET SL	11/22/24 10:33
Total/NA	Analysis	Field Sampling		1	438188	DN	EET CF	10/21/24 10:00

Client Sample ID: MW-311
Date Collected: 10/22/24 08:16
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	439046	WZC8	EET CF	11/06/24 15:41
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 18:49
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438984	A6US	EET CF	11/06/24 17:17
Total/NA	Prep	7470A			438280	QTZ5	EET CF	11/02/24 15:10
Total/NA	Analysis	7470A		1	438610	QTZ5	EET CF	11/04/24 13:59

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-311

Date Collected: 10/22/24 08:16

Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	437844	MDU9	EET CF	10/28/24 22:38
Total/NA	Analysis	SM 4500 H+ B		1	437382	W9YR	EET CF	10/24/24 17:46
Total/NA	Prep	PrecSep-21			685739	BCE	EET SL	10/29/24 08:26
Total/NA	Analysis	903.0		1	689479	SCB	EET SL	11/20/24 08:37
Total/NA	Prep	PrecSep_0			685740	BCE	EET SL	10/29/24 08:30
Total/NA	Analysis	904.0		1	689264	SCB	EET SL	11/19/24 11:49
Total/NA	Analysis	Ra226_Ra228 Pos		1	689987	SCB	EET SL	11/22/24 10:33
Total/NA	Analysis	Field Sampling		1	438188	DN	EET CF	10/22/24 08:16

Client Sample ID: MW-312

Date Collected: 10/22/24 10:28

Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 18:52
Total/NA	Analysis	Field Sampling		1	438188	DN	EET CF	10/22/24 10:28

Client Sample ID: MW-313

Date Collected: 10/22/24 12:45

Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 18:54
Total/NA	Analysis	SM 2320B		1	438135	T5AC	EET CF	10/30/24 16:53
Total/NA	Analysis	Field Sampling		1	438188	DN	EET CF	10/22/24 12:45

Client Sample ID: MW-313A

Date Collected: 10/22/24 14:05

Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 18:57
Total/NA	Analysis	Field Sampling		1	438188	DN	EET CF	10/22/24 14:05

Client Sample ID: MW-313B

Date Collected: 10/22/24 14:55

Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			438444	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 19:00
Total/NA	Analysis	Field Sampling		1	438188	DN	EET CF	10/22/24 14:55

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Client Sample ID: MW-314
Date Collected: 10/22/24 10:10
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	439046	WZC8	EET CF	11/06/24 16:27
Total/NA	Prep	3005A			438447	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 20:05
Total/NA	Prep	7470A			438280	QTZ5	EET CF	11/02/24 15:10
Total/NA	Analysis	7470A		1	438610	QTZ5	EET CF	11/04/24 14:01
Total/NA	Analysis	SM 2540C		1	437844	MDU9	EET CF	10/28/24 22:38
Total/NA	Analysis	SM 4500 H+ B		1	437382	W9YR	EET CF	10/24/24 17:40
Total/NA	Prep	PrecSep-21			685739	BCE	EET SL	10/29/24 08:26
Total/NA	Analysis	903.0		1	689479	SCB	EET SL	11/20/24 08:38
Total/NA	Prep	PrecSep_0			685740	BCE	EET SL	10/29/24 08:30
Total/NA	Analysis	904.0		1	689264	SCB	EET SL	11/19/24 11:49
Total/NA	Analysis	Ra226_Ra228 Pos		1	689987	SCB	EET SL	11/22/24 10:33
Total/NA	Analysis	Field Sampling		1	438188	DN	EET CF	10/22/24 10:10

Client Sample ID: Field Blank
Date Collected: 10/22/24 17:05
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293618-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		1	439046	WZC8	EET CF	11/06/24 16:43
Total/NA	Prep	3005A			438447	F5MW	EET CF	11/04/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 20:08
Total/NA	Prep	7470A			438280	QTZ5	EET CF	11/02/24 15:10
Total/NA	Analysis	7470A		1	438610	QTZ5	EET CF	11/04/24 14:03
Total/NA	Analysis	SM 2540C		1	437844	MDU9	EET CF	10/28/24 22:38
Total/NA	Analysis	SM 4500 H+ B		1	437382	W9YR	EET CF	10/24/24 17:42
Total/NA	Prep	PrecSep-21			685739	BCE	EET SL	10/29/24 08:26
Total/NA	Analysis	903.0		1	689479	SCB	EET SL	11/20/24 08:38
Total/NA	Prep	PrecSep_0			685740	BCE	EET SL	10/29/24 08:30
Total/NA	Analysis	904.0		1	689264	SCB	EET SL	11/19/24 11:49
Total/NA	Analysis	Ra226_Ra228 Pos		1	689987	SCB	EET SL	11/22/24 10:33

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
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Laboratory: Eurofins Cedar Falls

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

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

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-08-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-24
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-25
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-25
HI - RadChem Recognition	State	n/a	06-30-25
Illinois	NELAP	200023	11-30-25
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-25
Kentucky (DW)	State	KY90125	12-31-24
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-24
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-25
Louisiana (DW)	State	LA011	12-31-24
Maryland	State	310	09-30-25
Massachusetts	State	M-MO054	06-30-25
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-25
New Jersey	NELAP	MO002	06-30-25
New Mexico	State	MO00054	06-30-25
New York	NELAP	11616	03-31-25
North Carolina (DW)	State	29700	07-31-25
North Dakota	State	R-207	12-31-24
Oregon	NELAP	4157	09-01-25
Pennsylvania	NELAP	68-00540	02-28-25
South Carolina	State	85002001	06-30-25
Texas	NELAP	T104704193	07-31-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO00054	07-31-25
Virginia	NELAP	460230	06-14-25
Washington	State	C592	08-30-25
West Virginia DEP	State	381	10-31-25

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

Method Summary

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

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	Combined Radium-226 and Radium-228	TAL-STL	EET SL
Pos			
Field Sampling	Field Sampling	EPA	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

- EPA = US Environmental Protection Agency
- None = None
- SM = "Standard Methods For The Examination Of Water And Wastewater"
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

- EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401
- EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566





Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>SCS</u>			
City/State:	CITY	STATE	Project:
Receipt Information			
Date/Time Received:	DATE <u>10/24/24</u>	TIME <u>1615</u>	Received By: <u>XB</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID:	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler # <u>1</u> of <u>4</u>	
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
Temperature Record			
Coolant:	<input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE		
Thermometer ID:	<u>P</u>	Correction Factor (°C):	<u>0</u>
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):	<u>2.9</u>	Corrected Temp (°C):	<u>2.9</u>
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			





Environment Testing
America

Place COC scanning label
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Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>SCS</u>			
City/State:	CITY	STATE	Project:
Receipt Information			
Date/Time Received:	DATE <u>10/24/24</u>	TIME <u>1615</u>	Received By: <u>XB</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID:	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>2</u> of <u>4</u>	
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>P</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>4.9</u>		Corrected Temp (°C): <u>4.9</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>GCS</u>			
City/State:	CITY	STATE	Project:
Receipt Information			
Date/Time Received:	DATE	TIME	Received By:
	<u>10/24/24</u>	<u>1430</u>	<u>XB</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee			
<input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID:	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>3</u> of <u>4</u>	
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>P</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>1.9</u>		Corrected Temp (°C): <u>1.9</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			

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Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>SCS</u>			
City/State:	CITY	STATE	Project:
Receipt Information			
Date/Time Received:	DATE <u>10/24/24</u>	TIME <u>1615</u>	Received By: <u>[Signature]</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>4</u> of <u>4</u>	
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>P</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>3.7</u>		Corrected Temp (°C): <u>3.7</u>	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

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Chain of Custody Record

Client Information		Sampler		Lab PM.		Carrier Tracking No(s)		COC No	
Client Contact: Meghan Blodgett		Bradgett Russell / Morgan		Sandie Fredrick		State of Origin:		Page: Page 1 of 2	
Company: SCS Engineers		Phone: 515 631 0778		E-Mail: Sandra.Fredrick@et.eurofins.com		Job #:		Job #:	
Address: 2830 Dairy Drive		Due Date Requested		Analysis Requested		Total Number of Containers		Preservation Codes:	
City: Madison		TAT Requested (days):		6020 Metals total (Fe, Li, Mo)		6020 Metals total (Fe, Li, Mo)		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other	
State Zip: WI 53718		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		6020 Metals total (Sb, As, Ba, Be, B, Ca, Cd, Cr, Co, Fe, Pb, Li, Mo, Se, Ti)		7470A - Mercury total		M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)	
Phone: 608-224-2830		PO #: 25224066		Perform MS/MSD (Yes or No)		9056A Chloride, Fluoride Sulfate		SM 2320B Bicarbonate & carbonate alkalinity	
Email: mblodgett@scsengineers.com		WO #: 25224066		Field Filtered Sample (Yes or No)		TDS and pH			
Project Name: Burlington Generating Station 25224066		Project #: 25224066		6020 Metals total (Sb, As, Ba, Be, B, Ca, Cd, Cr, Co, Fe, Pb, Li, Mo, Se, Ti)		6020 Metals total (Fe, Li, Mo)			
Site: Burlington, IA		SSOW#:		7470A - Mercury total		6020 Metals total (Fe, Li, Mo)			
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, On-waste, etc.)	Preservation Code	Analysis Requested	Analysis Requested	Analysis Requested	Special Instructions/Note
MW-301	10/23	917	G	W					
MW-302	10/23	824	G	W					
MW-302A	10/23	920	G	W					
MW-303	10/22	1631	G	W					
MW-304	10/22	1535	G	W					
MW-305	10/22	843	G	W					
MW-306	10/22	1247	G	W					
MW-307	10/22	1640	G	W					
MW-307A	10/22	1551	G	W					
MW-307B	10/22	1450	G	W					
MW-308	10/22	11018	G	W					
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested I, II, III, IV Other (specify)									
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Relinquished by: <i>Michael Morgan</i> Date/Time: 10/24/24 09:00 Company: SCS Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Custody Seal No. _____ Cooler Temperature(s) °C and Other Remarks: _____ Date/Time: 10/24/24 1615 Company: <i>SCS</i>									

Table 1. Sampling Points and Parameters CCR Rule Sampling Program Assessment Monitoring Groundwater Monitoring Burlington Generating Station / SCS Engineers Project #25224066.00

Parameter	MMW-301	MMW-302	MMW-302A	MMW-303	MMW-304	MMW-305	MMW-306	MMW-307	MMW-307A	MMW-307B	MMW-308	MMW-309	MMW-310	MMW-310A	MMW-311	MMW-312	MMW-313	MMW-313A	MMW-313B	MMW-314	TW-101	TW-102	Field Blank	TOTAL
Appendix III Parameters	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		14
Boron	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		14
Calcium	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		14
Chloride	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		14
Fluoride	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		14
pH	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		14
Sulfate	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		14
TDS	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		14
Compliance Parameters																								
Arsenopy	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		14
Asaric	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		14
Barium	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		14
Beryllium	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		14
Cadmium	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		14
Chromium	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		14
Cobalt	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		14
Fluoride	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		14
Lead	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		14
Lithium	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		14
Mercury	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		21
Molybdenum	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		21
Selenium	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		14
Thallium	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		14
Radium	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		14
Field Parameters																								
Groundwater Elevation	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		22
pH (field)	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		20
Specific Conductance	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		20
Dissolved Oxygen	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		20
Temperature	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		20
Turbidity	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		20
Color	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		20
Other	x	x	x	x	x	x	x	x			x	x	x	x	x					x		x		20
Additional Parameters																								
Bicarbonate (total)																								
Carbonate (total)																								
Iron (total)																								
Magnesium (total)																								
Manganese (total)																								
Potassium (total)																								
Sodium (total)																								

Notes:
 I:\2224066.00\Data and Calculations\Field Work Requests\October 2024\Table_1_BGS_CCR_Rule_Sampling_2410.xls\Sheet1



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

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler: N/A	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): N/A	COC No: 310-77713.1						
Shipping/Receiving		Phone: N/A	E-Mail: Sandra.Fredrick@eurofins.com	State of Origin: Iowa	Page: Page 1 of 2						
Company: TestAmerica Laboratories, Inc.		Address: 13715 Rider Trail North, Earth City, MO, 63045		Job #: 310-293618-1							
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		PO #: N/A		Preservation Codes:							
Email: N/A		WO #: N/A		-							
Project Name: Burlington Generating Station 25224066		Project #: 31011020		Analysis Requested:							
Site: N/A		SSOW#: N/A		-							
Due Date Requested: 11/16/2024		TAT Requested (days): N/A		-							
Sample Date		Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Overstabil, Soil, BT-Tissue, Ash)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep, 21 Radium-226 (GFP)	904.0/PrecSep, 1 Radium-228 (GFP)	Ra226, 228GFP, Pl Combined Radium-226 and Radium-228	Total Number of Containers	Special Instructions/Note:
MW-301 (310-293618-1)	10/23/24	09:17 Central	G	Water	X	X	X	X	2	X	DO NOT SHIP ON ICE TO ST. LOUIS
MW-302 (310-293618-2)	10/23/24	08:24 Central	G	Water	X	X	X	X	2	X	DO NOT SHIP ON ICE TO ST. LOUIS
MW-303 (310-293618-4)	10/22/24	16:31 Central	G	Water	X	X	X	X	2	X	DO NOT SHIP ON ICE TO ST. LOUIS
MW-304 (310-293618-5)	10/22/24	15:35 Central	G	Water	X	X	X	X	2	X	DO NOT SHIP ON ICE TO ST. LOUIS
MW-305 (310-293618-6)	10/22/24	08:43 Central	G	Water	X	X	X	X	2	X	DO NOT SHIP ON ICE TO ST. LOUIS
MW-306 (310-293618-7)	10/22/24	12:47 Central	G	Water	X	X	X	X	2	X	DO NOT SHIP ON ICE TO ST. LOUIS
MW-307 (310-293618-8)	10/22/24	16:40 Central	G	Water	X	X	X	X	2	X	DO NOT SHIP ON ICE TO ST. LOUIS
MW-308 (310-293618-11)	10/21/24	16:16 Central	G	Water	X	X	X	X	2	X	DO NOT SHIP ON ICE TO ST. LOUIS
MW-309 (310-293618-12)	10/23/24	10:57 Central	G	Water	X	X	X	X	2	X	DO NOT SHIP ON ICE TO ST. LOUIS

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC being 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/test/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

Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: _____ Date/Time: 10/23/24 11:45 Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No

Received by: *Cheyenne Forrest* Date/Time: 10/28/24 08:25 Company: EFA-SAL
 Received by: **Cheyenne Forrest** Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____

Special Instructions/QC Requirements: Return To Client Disposal By Lab Archive For _____ Months

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

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

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler: N/A	Lab P.M.: Fredrick, Sandie	Carrier Tracking Note(s): N/A	COC No: 310-77713.2						
Client Contact: N/A		Phone: N/A	E-Mail: Sandra.Fredrick@et.eurofins.com	State of Origin: Iowa	Page: Page 2 of 2						
Shipping/Receiving		N/A			Job #: 310-293618-1						
Company: TestAmerica Laboratories, Inc.			Accreditations Required (See note): State Program - Iowa		Preservation Codes:						
Address: 13715 Rider Trail North,											
City: Earth City											
State, Zip: MO, 63045											
Phone: 314-298-8566(Tel) 314-298-8757(Fax)											
Email: N/A											
Project Name: Burlington Generating Station 25224066											
Site: N/A											
Due Date Requested: 11/6/2024											
TAT Requested (days): N/A											
PO #: N/A											
WO #: N/A											
Project #: 31011020											
SSOW#: N/A											
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Sewage, Oil, BT-Tissue, Ash)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep. 21 Radium-226 (GFPC)	904.0/PreSep. 0 Radium-226 (GFPC)	Ra226, 228GFPC, Pl Combined Radium-226 and Radium-228	Total Number of Containers	Special Instructions/Note:
MW-310 (310-293618-13)	10/21/24	16:45 Central	G	Water	X	X	X	X		2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-310A (310-293618-14)	10/21/24	10:00 Central	G	Water	X	X	X	X		2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-311 (310-293618-15)	10/22/24	08:16 Central	G	Water	X	X	X	X		2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-314 (310-293618-20)	10/22/24	10:10 Central	G	Water	X	X	X	X		2	DO NOT SHIP ON ICE TO ST. LOUIS
Field Blank (310-293618-21)	10/22/24	17:05 Central	G	Water	X	X	X	X		2	DO NOT SHIP ON ICE TO ST. LOUIS
<p>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/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.</p>											
<p>Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 Empty Kit Relinquished by: Date: Time: Method of Shipment: Relinquished by: Date/Time: Company: Received by: Cheyenne Forrest Relinquished by: Date/Time: Company: Received by: Cheyenne Forrest Relinquished by: Date/Time: Company: Received by: Cheyenne Forrest Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks: Δ Yes Δ No</p>											



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-293618-1

SDG Number:

Login Number: 293618

List Number: 1

Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

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



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-293618-1

SDG Number:

Login Number: 293618

List Number: 2

Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis

List Creation: 10/28/24 01:59 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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 <math><6\text{mm}</math> (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
Project/Site: Burlington Generating Station 25224066

Job ID: 310-293618-1

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)
310-293618-1	MW-301	87.8
310-293618-1 DU	MW-301	81.4
310-293618-2	MW-302	91.4
310-293618-4	MW-303	79.7
310-293618-5	MW-304	82.9
310-293618-6	MW-305	83.6
310-293618-7	MW-306	71.6
310-293618-8	MW-307	76.8
310-293618-11	MW-308	77.8
310-293618-12	MW-309	88.0
310-293618-13	MW-310	86.8
310-293618-14	MW-310A	82.9
310-293618-15	MW-311	79.5
310-293618-20	MW-314	76.5
310-293618-21	Field Blank	83.1
LCS 160-685739/2-A	Lab Control Sample	87.5
MB 160-685739/1-A	Method Blank	90.2

Tracer/Carrier Legend

Ba = Barium

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
310-293618-1	MW-301	87.8	75.1
310-293618-1 DU	MW-301	81.4	74.8
310-293618-2	MW-302	91.4	72.9
310-293618-4	MW-303	79.7	77.8
310-293618-5	MW-304	82.9	78.9
310-293618-6	MW-305	83.6	78.1
310-293618-7	MW-306	71.6	74.4
310-293618-8	MW-307	76.8	78.5
310-293618-11	MW-308	77.8	70.3
310-293618-12	MW-309	88.0	75.9
310-293618-13	MW-310	86.8	81.5
310-293618-14	MW-310A	82.9	70.3
310-293618-15	MW-311	79.5	72.9
310-293618-20	MW-314	76.5	72.1
310-293618-21	Field Blank	83.1	75.9
LCS 160-685740/2-A	Lab Control Sample	87.5	75.5
MB 160-685740/1-A	Method Blank	90.2	79.3

Tracer/Carrier Legend

Ba = Barium

Y = Y Carrier

Eurofins Cedar Falls

Table 1. Groundwater Monitoring Results - Field Parameters
Burlington Generating Station / SCS Engineers Project #25224066.00
October 2024

Sample	Sample Date	Temperature (Deg. C)	pH (Std. Units)	Dissolved Oxygen (mg/L)	Specific Conductivity (µmhos/cm)	ORP (mV)	Turbidity	Groundwater Elevation (amsl)
MW-301	10/23/24	13.6	6.7	0.42	2,505	-63.0	8.77	518.38
MW-302	10/23/24	12.1	6.46	0.09	1,501	-71.4	2.19	517.99
MW-302A	10/23/24	11.1	7.10	0.07	461.2	-124.8	3.55	517.97
MW-303	10/23/24	12.9	6.6.7	0.07	1,149	-106.4	4.57	518.16
MW-304	10/23/24	15.5	6.82	0.01	879	-124.1	2.59	518.27
MW-305	10/23/24	13.7	6.49	1.19	1,469	-55.5	8.35	518.30
MW-306	10/23/24	12.9	8.63	0.26	835	109.5	3.51	518.42
MW-307	10/23/24	12.7	8.37	0.88	677	-194.2	4.02	518.80
MW-307A	10/23/24	11.5	7.47	0.57	537.0	-131.2	9.12	520.05
MW-307B	10/23/24	12.9	7.28	1.79	539.0	-75.8	7.50	518.57
MW-308	10/23/24	13.5	7.27	0.33	1,907	-16.9	4.31	518.65
MW-309	10/23/24	14.6	6.94	0.40	961	-122.2	6.04	518.30
MW-310	10/23/24	18.0	7.00	0.01	640	-133.0	2.79	522.94
MW-310A	10/23/24	13.1	7.12	1.67	921	-25.4	4.82	521.18
MW-311	10/23/24	14.6	6.82	0.06	927	-132.9	2.25	519.64
MW-312	10/23/24	11.8	6.89	0.35	845	-110.3	5.67	518.15
MW-313	10/23/24	10.5	6.98	0.02	627.2	-136.8	1.70	518.12
MW-313A	10/23/24	11.5	7.26	0.29	421.8	-142.5	6.68	518.20
MW-313B	10/23/24	10.3	7.21	0.06	455.7	-125.6	2.08	518.24
MW-314	10/23/24	13.9	6.64	0.05	1078	-105.5	1.96	518.18

Abbreviations:

mg/L = milligrams per liter
mV = millivolts

amsl = above mean sea level
µmhos/cm = micromohs per cm

-- = Not Applicable
NM = not measured

Created by: MDB
Last revision by: KMV
Checked by: BLR

Date: 05/10/23
Date: 10/28/24
Date: 10/30/24

C2 April 2025 Assessment Monitoring

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ANALYTICAL REPORT

PREPARED FOR

Attn: Meghan Blodgett
SCS Engineers
2830 Dairy Drive
Madison, Wisconsin 53718
Generated 6/3/2025 1:41:18 PM Revision 1

JOB DESCRIPTION

Burlington Generating Station 25225066
25224066

JOB NUMBER

310-305391-1

Eurofins Cedar Falls

Job Notes

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

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

Authorization



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Revision 1

Authorized for release by
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Case Narrative

Client: SCS Engineers
Project: Burlington Generating Station 25225066

Job ID: 310-305391-1

Job ID: 310-305391-1

Eurofins Cedar Falls

Job Narrative 310-305391-1

Revision

The report being provided is a revision of the original report sent on 6/2/2025. The report (revision 1) is being revised due to: Revision to remove erroneous flagging.

Receipt

The samples were received on 4/30/2025 4:35 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.3° C, 0.3° C, 0.4° C and 1.6° C.

HPLC/IC

Method 9056A: The following samples were diluted due to the nature of the sample matrix: MW-301 (310-305391-1), MW-302 (310-305391-2), MW-303 (310-305391-4), MW-304 (310-305391-5), MW-305 (310-305391-6), MW-306 (310-305391-7), MW-307 (310-305391-8), MW-308 (310-305391-11), MW-309 (310-305391-12), MW-310 (310-305391-13) and MW-311 (310-305391-14). 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

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

Metals

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

General Chemistry

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

Eurofins Cedar Falls

Sample Summary

Client: SCS Engineers
Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
SDG: 25224066

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-305391-1	MW-301	Water	04/28/25 19:00	04/30/25 16:35
310-305391-2	MW-302	Water	04/29/25 10:05	04/30/25 16:35
310-305391-3	MW-302A	Water	04/29/25 08:54	04/30/25 16:35
310-305391-4	MW-303	Water	04/28/25 17:44	04/30/25 16:35
310-305391-5	MW-304	Water	04/28/25 16:37	04/30/25 16:35
310-305391-6	MW-305	Water	04/29/25 11:57	04/30/25 16:35
310-305391-7	MW-306	Water	04/29/25 13:40	04/30/25 16:35
310-305391-8	MW-307	Water	04/29/25 12:36	04/30/25 16:35
310-305391-9	MW-307A	Water	04/29/25 11:31	04/30/25 16:35
310-305391-10	MW-307B	Water	04/29/25 12:10	04/30/25 16:35
310-305391-11	MW-308	Water	04/28/25 14:35	04/30/25 16:35
310-305391-12	MW-309	Water	04/29/25 14:52	04/30/25 16:35
310-305391-13	MW-310	Water	04/29/25 08:25	04/30/25 16:35
310-305391-14	MW-311	Water	04/29/25 09:50	04/30/25 16:35
310-305391-15	MW-312	Water	04/29/25 14:02	04/30/25 16:35
310-305391-16	MW-313	Water	04/28/25 17:56	04/30/25 16:35
310-305391-17	MW-313A	Water	04/28/25 16:35	04/30/25 16:35
310-305391-18	MW-313B	Water	04/28/25 17:15	04/30/25 16:35
310-305391-19	Field Blank	Water	04/29/25 10:25	04/30/25 16:35

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-301

Lab Sample ID: 310-305391-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	15		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	970		10	4.2	mg/L	10		9056A	Total/NA
Arsenic	6.1		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	43		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	5600		400	330	ug/L	4		6020B	Total/NA
Calcium	240		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	8.8		0.50	0.17	ug/L	1		6020B	Total/NA
Iron	20000		100	50	ug/L	1		6020B	Total/NA
Lithium	15		10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	49		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	1900		50	36	mg/L	1		SM 2540C	Total/NA
pH	7.3	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	521.89				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-11.1				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.40				mg/L	1		Field Sampling	Total/NA
Field pH	6.65				SU	1		Field Sampling	Total/NA
Field Conductivity	2455				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	14.3				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	19.63				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-302

Lab Sample ID: 310-305391-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	310		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	5.6		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	39		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	1700		100	82	ug/L	1		6020B	Total/NA
Cadmium	0.12	J	0.20	0.10	ug/L	1		6020B	Total/NA
Calcium	140		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	2.4		0.50	0.17	ug/L	1		6020B	Total/NA
Iron	9300		100	50	ug/L	1		6020B	Total/NA
Lithium	53		10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	200		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	710		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	522.14				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	79.7				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	-0.08				mg/L	1		Field Sampling	Total/NA
Field pH	6.57				SU	1		Field Sampling	Total/NA
Field Conductivity	988				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	11.8				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	17.12				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-302A

Lab Sample ID: 310-305391-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	5300		100	50	ug/L	1		6020B	Total/NA
Lithium	6.3	J	10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	18		2.0	1.3	ug/L	1		6020B	Total/NA
Groundwater Elevation	522.07				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-96.3				mV	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-302A (Continued)

Lab Sample ID: 310-305391-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved	0.27				mg/L	1		Field Sampling	Total/NA
Field pH	7.17				SU	1		Field Sampling	Total/NA
Field Conductivity	497.0				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	11.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	6.82				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-303

Lab Sample ID: 310-305391-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	24		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	370		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	18		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	170		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	6700		400	330	ug/L	4		6020B	Total/NA
Cadmium	0.11	J	0.20	0.10	ug/L	1		6020B	Total/NA
Calcium	140		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	0.85		0.50	0.17	ug/L	1		6020B	Total/NA
Iron	20000		100	50	ug/L	1		6020B	Total/NA
Lithium	36		10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	190		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	780		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	522.21				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-77.1				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	-0.01				mg/L	1		Field Sampling	Total/NA
Field pH	6.76				SU	1		Field Sampling	Total/NA
Field Conductivity	1088				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	12.9				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	11.74				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-304

Lab Sample ID: 310-305391-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	140		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	18		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	68		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	3700		100	82	ug/L	1		6020B	Total/NA
Cadmium	0.19	J	0.20	0.10	ug/L	1		6020B	Total/NA
Calcium	110		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	0.25	J	0.50	0.17	ug/L	1		6020B	Total/NA
Iron	15000		100	50	ug/L	1		6020B	Total/NA
Lithium	81		10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	370		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	550		50	36	mg/L	1		SM 2540C	Total/NA
pH	7.0	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	522.22				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-115.9				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.05				mg/L	1		Field Sampling	Total/NA
Field pH	7.03				SU	1		Field Sampling	Total/NA
Field Conductivity	899				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	14.9				Degrees C	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-304 (Continued)

Lab Sample ID: 310-305391-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field Turbidity	16.01				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-305

Lab Sample ID: 310-305391-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	16		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	210		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	3.8		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	37		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	1400		100	82	ug/L	1		6020B	Total/NA
Calcium	80		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	0.37	J	0.50	0.17	ug/L	1		6020B	Total/NA
Iron	15000		100	50	ug/L	1		6020B	Total/NA
Lithium	28		10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	6.2		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	480		50	36	mg/L	1		SM 2540C	Total/NA
pH	6.7	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	522.28				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-43.2				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.01				mg/L	1		Field Sampling	Total/NA
Field pH	6.65				SU	1		Field Sampling	Total/NA
Field Conductivity	756				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	14.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	10.27				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-306

Lab Sample ID: 310-305391-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	29		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	85		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	32		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	88		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	2100		100	82	ug/L	1		6020B	Total/NA
Cadmium	0.10	J	0.20	0.10	ug/L	1		6020B	Total/NA
Calcium	86		0.50	0.19	mg/L	1		6020B	Total/NA
Lithium	18		10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	140		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	390		50	36	mg/L	1		SM 2540C	Total/NA
pH	8.5	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	521.15				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-160.2				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.13				mg/L	1		Field Sampling	Total/NA
Field pH	8.94				SU	1		Field Sampling	Total/NA
Field Conductivity	596				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	11.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.57				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-307

Lab Sample ID: 310-305391-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	21		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	170		5.0	2.1	mg/L	5		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-307 (Continued)

Lab Sample ID: 310-305391-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	20		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	44		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	3500		100	82	ug/L	1		6020B	Total/NA
Cadmium	0.22		0.20	0.10	ug/L	1		6020B	Total/NA
Calcium	44		0.50	0.19	mg/L	1		6020B	Total/NA
Iron	530		100	50	ug/L	1		6020B	Total/NA
Lithium	57		10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	350		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	360		50	36	mg/L	1		SM 2540C	Total/NA
pH	8.3	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	522.13				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-316.3				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.11				mg/L	1		Field Sampling	Total/NA
Field pH	9.05				SU	1		Field Sampling	Total/NA
Field Conductivity	576				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	11.7				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	1.97				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-307A

Lab Sample ID: 310-305391-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1400		100	50	ug/L	1		6020B	Total/NA
Lithium	10		10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	16		2.0	1.3	ug/L	1		6020B	Total/NA
Groundwater Elevation	523.64				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-188.6				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.30				mg/L	1		Field Sampling	Total/NA
Field pH	7.83				SU	1		Field Sampling	Total/NA
Field Conductivity	493.0				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	11.3				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	1.61				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-307B

Lab Sample ID: 310-305391-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	2200		100	50	ug/L	1		6020B	Total/NA
Lithium	6.8	J	10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	13		2.0	1.3	ug/L	1		6020B	Total/NA
Groundwater Elevation	522.22				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-157.8				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.28				mg/L	1		Field Sampling	Total/NA
Field pH	7.58				SU	1		Field Sampling	Total/NA
Field Conductivity	529.0				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	11.5				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	1.05				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-308

Lab Sample ID: 310-305391-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	76		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	300		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	5.5		2.0	0.53	ug/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-308 (Continued)

Lab Sample ID: 310-305391-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	42		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	4400		400	330	ug/L	4		6020B	Total/NA
Cadmium	0.47		0.20	0.10	ug/L	1		6020B	Total/NA
Calcium	66		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	0.42	J	0.50	0.17	ug/L	1		6020B	Total/NA
Iron	1400		100	50	ug/L	1		6020B	Total/NA
Lithium	110		10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	950		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	670		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	522.32				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-138.1				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.10				mg/L	1		Field Sampling	Total/NA
Field pH	7.63				SU	1		Field Sampling	Total/NA
Field Conductivity	1032				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	12.8				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.91				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-309

Lab Sample ID: 310-305391-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	23		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	120		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	19		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	140		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	13000		400	330	ug/L	4		6020B	Total/NA
Calcium	94		0.50	0.19	mg/L	1		6020B	Total/NA
Iron	22000		100	50	ug/L	1		6020B	Total/NA
Lithium	3.6	J	10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	34		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	570		50	36	mg/L	1		SM 2540C	Total/NA
pH	7.0	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	522.06				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-135.4				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	-0.05				mg/L	1		Field Sampling	Total/NA
Field pH	6.88				SU	1		Field Sampling	Total/NA
Field Conductivity	942				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	14.0				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	19.54				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-310

Lab Sample ID: 310-305391-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	66		5.0	2.1	mg/L	5		9056A	Total/NA
Arsenic	15		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	190		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	98	J	100	82	ug/L	1		6020B	Total/NA
Calcium	89		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	1.9		0.50	0.17	ug/L	1		6020B	Total/NA
Iron	12000		100	50	ug/L	1		6020B	Total/NA
Molybdenum	5.5		2.0	1.3	ug/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-310 (Continued)

Lab Sample ID: 310-305391-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	340		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	523.24				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-173.6				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.23				mg/L	1		Field Sampling	Total/NA
Field pH	7.44				SU	1		Field Sampling	Total/NA
Field Conductivity	634				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	7.8				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	1.61				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-311

Lab Sample ID: 310-305391-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	47		5.0	2.3	mg/L	5		9056A	Total/NA
Sulfate	210		5.0	2.1	mg/L	5		9056A	Total/NA
Antimony	1.0	J	2.0	1.0	ug/L	1		6020B	Total/NA
Arsenic	7.7		2.0	0.53	ug/L	1		6020B	Total/NA
Barium	140		2.0	0.66	ug/L	1		6020B	Total/NA
Boron	1600		100	82	ug/L	1		6020B	Total/NA
Calcium	180		0.50	0.19	mg/L	1		6020B	Total/NA
Cobalt	2.7		0.50	0.17	ug/L	1		6020B	Total/NA
Iron	23000		100	50	ug/L	1		6020B	Total/NA
Molybdenum	4.7		2.0	1.3	ug/L	1		6020B	Total/NA
Total Dissolved Solids	800		50	36	mg/L	1		SM 2540C	Total/NA
pH	7.3	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Groundwater Elevation	522.28				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-168.9				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.18				mg/L	1		Field Sampling	Total/NA
Field pH	7.14				SU	1		Field Sampling	Total/NA
Field Conductivity	1262				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	11.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	1.28				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-312

Lab Sample ID: 310-305391-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	9600		100	50	ug/L	1		6020B	Total/NA
Lithium	14		10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	40		2.0	1.3	ug/L	1		6020B	Total/NA
Groundwater Elevation	522.43				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-108.6				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.01				mg/L	1		Field Sampling	Total/NA
Field pH	7.07				SU	1		Field Sampling	Total/NA
Field Conductivity	550				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	11.2				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	7.29				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-313

Lab Sample ID: 310-305391-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	8000		100	50	ug/L	1		6020B	Total/NA
Lithium	15		10	2.9	ug/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-313 (Continued)

Lab Sample ID: 310-305391-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	11000		500	150	ug/L	1		6020B	Total/NA
Manganese	3700		10	3.6	ug/L	1		6020B	Total/NA
Molybdenum	41		2.0	1.3	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	522.36				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-90.3				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.04				mg/L	1		Field Sampling	Total/NA
Field pH	7.15				SU	1		Field Sampling	Total/NA
Field Conductivity	574.9				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	10.5				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.87				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-313A

Lab Sample ID: 310-305391-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	2400		100	50	ug/L	1		6020B	Total/NA
Lithium	6.0	J	10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	8.3		2.0	1.3	ug/L	1		6020B	Total/NA
Groundwater Elevation	522.24				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-118.7				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.00				mg/L	1		Field Sampling	Total/NA
Field pH	7.50				SU	1		Field Sampling	Total/NA
Field Conductivity	438.7				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	10.2				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	1.41				NTU	1		Field Sampling	Total/NA

Client Sample ID: MW-313B

Lab Sample ID: 310-305391-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	2800		100	50	ug/L	1		6020B	Total/NA
Lithium	7.1	J	10	2.9	ug/L	1		6020B	Total/NA
Molybdenum	20		2.0	1.3	ug/L	1		6020B	Total/NA
Groundwater Elevation	522.27				ft	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-119.6				mV	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.01				mg/L	1		Field Sampling	Total/NA
Field pH	7.48				SU	1		Field Sampling	Total/NA
Field Conductivity	496.8				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	9.9				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.79				NTU	1		Field Sampling	Total/NA

Client Sample ID: Field Blank

Lab Sample ID: 310-305391-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	7.6	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 Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-301
 Date Collected: 04/28/25 19:00
 Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-1
 Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15		5.0	2.3	mg/L			05/05/25 10:37	5
Fluoride	<0.38		1.0	0.38	mg/L			05/05/25 10:37	5
Sulfate	970		10	4.2	mg/L			05/05/25 16:04	10

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		05/02/25 09:00	05/09/25 17:20	1
Arsenic	6.1		2.0	0.53	ug/L		05/02/25 09:00	05/09/25 17:20	1
Barium	43		2.0	0.66	ug/L		05/02/25 09:00	05/09/25 17:20	1
Beryllium	<0.33		1.0	0.33	ug/L		05/02/25 09:00	05/09/25 17:20	1
Boron	5600		400	330	ug/L		05/02/25 09:00	05/11/25 18:03	4
Cadmium	<0.10		0.20	0.10	ug/L		05/02/25 09:00	05/09/25 17:20	1
Calcium	240		0.50	0.19	mg/L		05/02/25 09:00	05/09/25 17:20	1
Chromium	<1.8		5.0	1.8	ug/L		05/02/25 09:00	05/09/25 17:20	1
Cobalt	8.8		0.50	0.17	ug/L		05/02/25 09:00	05/09/25 17:20	1
Iron	20000		100	50	ug/L		05/02/25 09:00	05/09/25 17:20	1
Lead	<0.33		0.50	0.33	ug/L		05/02/25 09:00	05/09/25 17:20	1
Lithium	15		10	2.9	ug/L		05/02/25 09:00	05/09/25 17:20	1
Molybdenum	49		2.0	1.3	ug/L		05/02/25 09:00	05/09/25 17:20	1
Selenium	<1.4		5.0	1.4	ug/L		05/02/25 09:00	05/09/25 17:20	1
Thallium	<0.57		1.0	0.57	ug/L		05/02/25 09:00	05/09/25 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		05/12/25 12:41	05/13/25 11:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1900		50	36	mg/L			05/02/25 20:25	1
pH (SM 4500 H+ B)	7.3	HF	1.0	1.0	SU			04/30/25 18:58	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count		RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Total Uncert. (2σ+/-)						
Radium 226	0.0300	U	0.240	0.240	1.00	0.459	pCi/L	05/05/25 07:45	05/30/25 16:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	83.6		30 - 110					05/05/25 07:45	05/30/25 16:29	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count		RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Total Uncert. (2σ+/-)						
Radium 228	0.679		0.421	0.425	1.00	0.619	pCi/L	05/05/25 07:48	05/30/25 13:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	83.6		30 - 110					05/05/25 07:48	05/30/25 13:41	1
Y Carrier	78.1		30 - 110					05/05/25 07:48	05/30/25 13:41	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-301
 Date Collected: 04/28/25 19:00
 Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-1
 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	0.709		0.485	0.488	5.00	0.619	pCi/L		06/02/25 10:11	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	521.89				ft			04/28/25 19:00	1
Oxidation Reduction Potential	-11.1				mV			04/28/25 19:00	1
Oxygen, Dissolved	0.40				mg/L			04/28/25 19:00	1
Field pH	6.65				SU			04/28/25 19:00	1
Field Conductivity	2455				umhos/cm			04/28/25 19:00	1
Field Temperature	14.3				Degrees C			04/28/25 19:00	1
Field Turbidity	19.63				NTU			04/28/25 19:00	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-302
 Date Collected: 04/29/25 10:05
 Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-2
 Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		5.0	2.3	mg/L			05/05/25 11:16	5
Fluoride	<0.38		1.0	0.38	mg/L			05/05/25 11:16	5
Sulfate	310		5.0	2.1	mg/L			05/05/25 11:16	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		05/02/25 09:00	05/09/25 17:25	1
Arsenic	5.6		2.0	0.53	ug/L		05/02/25 09:00	05/09/25 17:25	1
Barium	39		2.0	0.66	ug/L		05/02/25 09:00	05/09/25 17:25	1
Beryllium	<0.33		1.0	0.33	ug/L		05/02/25 09:00	05/09/25 17:25	1
Boron	1700		100	82	ug/L		05/02/25 09:00	05/11/25 18:06	1
Cadmium	0.12	J	0.20	0.10	ug/L		05/02/25 09:00	05/09/25 17:25	1
Calcium	140		0.50	0.19	mg/L		05/02/25 09:00	05/09/25 17:25	1
Chromium	<1.8		5.0	1.8	ug/L		05/02/25 09:00	05/09/25 17:25	1
Cobalt	2.4		0.50	0.17	ug/L		05/02/25 09:00	05/09/25 17:25	1
Iron	9300		100	50	ug/L		05/02/25 09:00	05/09/25 17:25	1
Lead	<0.33		0.50	0.33	ug/L		05/02/25 09:00	05/09/25 17:25	1
Lithium	53		10	2.9	ug/L		05/02/25 09:00	05/09/25 17:25	1
Molybdenum	200		2.0	1.3	ug/L		05/02/25 09:00	05/09/25 17:25	1
Selenium	<1.4		5.0	1.4	ug/L		05/02/25 09:00	05/09/25 17:25	1
Thallium	<0.57		1.0	0.57	ug/L		05/02/25 09:00	05/09/25 17:25	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		05/12/25 12:41	05/13/25 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	710		50	36	mg/L			05/02/25 20:25	1
pH (SM 4500 H+ B)	7.1	HF	1.0	1.0	SU			04/30/25 19:17	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	0.140	U	0.223	0.223	1.00	0.386	pCi/L	05/05/25 07:45	05/30/25 16:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	80.8		30 - 110					05/05/25 07:45	05/30/25 16:29	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	0.265	U	0.393	0.394	1.00	0.665	pCi/L	05/05/25 07:48	05/30/25 13:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	80.8		30 - 110					05/05/25 07:48	05/30/25 13:41	1
Y Carrier	75.1		30 - 110					05/05/25 07:48	05/30/25 13:41	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-302
 Date Collected: 04/29/25 10:05
 Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-2
 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	0.405	U	0.452	0.453	5.00	0.665	pCi/L		06/02/25 10:11	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	522.14				ft			04/29/25 10:05	1
Oxidation Reduction Potential	79.7				mV			04/29/25 10:05	1
Oxygen, Dissolved	-0.08				mg/L			04/29/25 10:05	1
Field pH	6.57				SU			04/29/25 10:05	1
Field Conductivity	988				umhos/cm			04/29/25 10:05	1
Field Temperature	11.8				Degrees C			04/29/25 10:05	1
Field Turbidity	17.12				NTU			04/29/25 10:05	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-302A
 Date Collected: 04/29/25 08:54
 Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-3
 Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	5300		100	50	ug/L		05/02/25 09:00	05/09/25 17:22	1
Lithium	6.3	J	10	2.9	ug/L		05/02/25 09:00	05/09/25 17:22	1
Molybdenum	18		2.0	1.3	ug/L		05/02/25 09:00	05/09/25 17:22	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	522.07				ft			04/29/25 08:54	1
Oxidation Reduction Potential	-96.3				mV			04/29/25 08:54	1
Oxygen, Dissolved	0.27				mg/L			04/29/25 08:54	1
Field pH	7.17				SU			04/29/25 08:54	1
Field Conductivity	497.0				umhos/cm			04/29/25 08:54	1
Field Temperature	11.6				Degrees C			04/29/25 08:54	1
Field Turbidity	6.82				NTU			04/29/25 08:54	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-303
 Date Collected: 04/28/25 17:44
 Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-4
 Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24		5.0	2.3	mg/L			05/05/25 11:29	5
Fluoride	<0.38		1.0	0.38	mg/L			05/05/25 11:29	5
Sulfate	370		5.0	2.1	mg/L			05/05/25 11:29	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		05/02/25 09:00	05/09/25 16:23	1
Arsenic	18		2.0	0.53	ug/L		05/02/25 09:00	05/09/25 16:23	1
Barium	170		2.0	0.66	ug/L		05/02/25 09:00	05/09/25 16:23	1
Beryllium	<0.33		1.0	0.33	ug/L		05/02/25 09:00	05/09/25 16:23	1
Boron	6700		400	330	ug/L		05/02/25 09:00	05/11/25 17:37	4
Cadmium	0.11	J	0.20	0.10	ug/L		05/02/25 09:00	05/09/25 16:23	1
Calcium	140		0.50	0.19	mg/L		05/02/25 09:00	05/09/25 16:23	1
Chromium	<1.8		5.0	1.8	ug/L		05/02/25 09:00	05/09/25 16:23	1
Cobalt	0.85		0.50	0.17	ug/L		05/02/25 09:00	05/09/25 16:23	1
Iron	20000		100	50	ug/L		05/02/25 09:00	05/09/25 16:23	1
Lead	<0.33		0.50	0.33	ug/L		05/02/25 09:00	05/09/25 16:23	1
Lithium	36		10	2.9	ug/L		05/02/25 09:00	05/09/25 16:23	1
Molybdenum	190		2.0	1.3	ug/L		05/02/25 09:00	05/09/25 16:23	1
Selenium	<1.4		5.0	1.4	ug/L		05/02/25 09:00	05/09/25 16:23	1
Thallium	<0.57		1.0	0.57	ug/L		05/02/25 09:00	05/09/25 16:23	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		05/12/25 12:41	05/13/25 11:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	780		50	36	mg/L			05/02/25 20:25	1
pH (SM 4500 H+ B)	7.1	HF	1.0	1.0	SU			04/30/25 18:47	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	0.133	U	0.176	0.177	1.00	0.295	pCi/L	05/05/25 07:45	05/30/25 16:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	94.3		30 - 110					05/05/25 07:45	05/30/25 16:30	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	0.492	U	0.345	0.348	1.00	0.519	pCi/L	05/05/25 07:48	05/30/25 13:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	94.3		30 - 110					05/05/25 07:48	05/30/25 13:41	1
Y Carrier	79.6		30 - 110					05/05/25 07:48	05/30/25 13:41	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-303
 Date Collected: 04/28/25 17:44
 Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-4
 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	0.625		0.387	0.390	5.00	0.519	pCi/L		06/02/25 10:11	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	522.21				ft			04/28/25 17:44	1
Oxidation Reduction Potential	-77.1				mV			04/28/25 17:44	1
Oxygen, Dissolved	-0.01				mg/L			04/28/25 17:44	1
Field pH	6.76				SU			04/28/25 17:44	1
Field Conductivity	1088				umhos/cm			04/28/25 17:44	1
Field Temperature	12.9				Degrees C			04/28/25 17:44	1
Field Turbidity	11.74				NTU			04/28/25 17:44	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-304
 Date Collected: 04/28/25 16:37
 Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-5
 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			05/05/25 11:42	5
Fluoride	<0.38		1.0	0.38	mg/L			05/05/25 11:42	5
Sulfate	140		5.0	2.1	mg/L			05/05/25 11:42	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		05/02/25 09:00	05/09/25 16:56	1
Arsenic	18		2.0	0.53	ug/L		05/02/25 09:00	05/09/25 16:56	1
Barium	68		2.0	0.66	ug/L		05/02/25 09:00	05/09/25 16:56	1
Beryllium	<0.33		1.0	0.33	ug/L		05/02/25 09:00	05/09/25 16:56	1
Boron	3700		100	82	ug/L		05/02/25 09:00	05/11/25 17:52	1
Cadmium	0.19 J		0.20	0.10	ug/L		05/02/25 09:00	05/09/25 16:56	1
Calcium	110		0.50	0.19	mg/L		05/02/25 09:00	05/09/25 16:56	1
Chromium	<1.8		5.0	1.8	ug/L		05/02/25 09:00	05/09/25 16:56	1
Cobalt	0.25 J		0.50	0.17	ug/L		05/02/25 09:00	05/09/25 16:56	1
Iron	15000		100	50	ug/L		05/02/25 09:00	05/09/25 16:56	1
Lead	<0.33		0.50	0.33	ug/L		05/02/25 09:00	05/09/25 16:56	1
Lithium	81		10	2.9	ug/L		05/02/25 09:00	05/09/25 16:56	1
Molybdenum	370		2.0	1.3	ug/L		05/02/25 09:00	05/09/25 16:56	1
Selenium	<1.4		5.0	1.4	ug/L		05/02/25 09:00	05/09/25 16:56	1
Thallium	<0.57		1.0	0.57	ug/L		05/02/25 09:00	05/09/25 16:56	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		05/12/25 12:41	05/13/25 11:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	550		50	36	mg/L			05/02/25 20:25	1
pH (SM 4500 H+ B)	7.0	HF	1.0	1.0	SU			04/30/25 18:43	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	0.0665	U	0.199	0.199	1.00	0.375	pCi/L	05/05/25 07:45	05/30/25 16:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	81.3		30 - 110					05/05/25 07:45	05/30/25 16:30	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	0.546	U	0.433	0.436	1.00	0.674	pCi/L	05/05/25 07:48	05/30/25 13:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	81.3		30 - 110					05/05/25 07:48	05/30/25 13:42	1
Y Carrier	78.5		30 - 110					05/05/25 07:48	05/30/25 13:42	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-304
 Date Collected: 04/28/25 16:37
 Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-5
 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	0.613	U	0.477	0.479	5.00	0.674	pCi/L		06/02/25 10:11	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	522.22				ft			04/28/25 16:37	1
Oxidation Reduction Potential	-115.9				mV			04/28/25 16:37	1
Oxygen, Dissolved	0.05				mg/L			04/28/25 16:37	1
Field pH	7.03				SU			04/28/25 16:37	1
Field Conductivity	899				umhos/cm			04/28/25 16:37	1
Field Temperature	14.9				Degrees C			04/28/25 16:37	1
Field Turbidity	16.01				NTU			04/28/25 16:37	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-305
 Date Collected: 04/29/25 11:57
 Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-6
 Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16		5.0	2.3	mg/L			05/05/25 11:55	5
Fluoride	<0.38		1.0	0.38	mg/L			05/05/25 11:55	5
Sulfate	210		5.0	2.1	mg/L			05/05/25 11:55	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		05/02/25 09:00	05/09/25 17:01	1
Arsenic	3.8		2.0	0.53	ug/L		05/02/25 09:00	05/09/25 17:01	1
Barium	37		2.0	0.66	ug/L		05/02/25 09:00	05/09/25 17:01	1
Beryllium	<0.33		1.0	0.33	ug/L		05/02/25 09:00	05/09/25 17:01	1
Boron	1400		100	82	ug/L		05/02/25 09:00	05/11/25 17:54	1
Cadmium	<0.10		0.20	0.10	ug/L		05/02/25 09:00	05/09/25 17:01	1
Calcium	80		0.50	0.19	mg/L		05/02/25 09:00	05/09/25 17:01	1
Chromium	<1.8		5.0	1.8	ug/L		05/02/25 09:00	05/09/25 17:01	1
Cobalt	0.37 J		0.50	0.17	ug/L		05/02/25 09:00	05/09/25 17:01	1
Iron	15000		100	50	ug/L		05/02/25 09:00	05/09/25 17:01	1
Lead	<0.33		0.50	0.33	ug/L		05/02/25 09:00	05/09/25 17:01	1
Lithium	28		10	2.9	ug/L		05/02/25 09:00	05/09/25 17:01	1
Molybdenum	6.2		2.0	1.3	ug/L		05/02/25 09:00	05/09/25 17:01	1
Selenium	<1.4		5.0	1.4	ug/L		05/02/25 09:00	05/09/25 17:01	1
Thallium	<0.57		1.0	0.57	ug/L		05/02/25 09:00	05/09/25 17:01	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		05/12/25 12:41	05/13/25 11:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	480		50	36	mg/L			05/02/25 20:25	1
pH (SM 4500 H+ B)	6.7 HF		1.0	1.0	SU			04/30/25 19:30	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	0.215	U	0.231	0.232	1.00	0.368	pCi/L	05/05/25 07:45	05/30/25 16:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	77.6		30 - 110					05/05/25 07:45	05/30/25 16:30	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	0.737		0.486	0.490	1.00	0.731	pCi/L	05/05/25 07:48	05/30/25 13:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	77.6		30 - 110					05/05/25 07:48	05/30/25 13:42	1
Y Carrier	77.8		30 - 110					05/05/25 07:48	05/30/25 13:42	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-305
 Date Collected: 04/29/25 11:57
 Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-6
 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	0.952		0.538	0.542	5.00	0.731	pCi/L		06/02/25 10:11	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	522.28				ft			04/29/25 11:57	1
Oxidation Reduction Potential	-43.2				mV			04/29/25 11:57	1
Oxygen, Dissolved	0.01				mg/L			04/29/25 11:57	1
Field pH	6.65				SU			04/29/25 11:57	1
Field Conductivity	756				umhos/cm			04/29/25 11:57	1
Field Temperature	14.4				Degrees C			04/29/25 11:57	1
Field Turbidity	10.27				NTU			04/29/25 11:57	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-306
 Date Collected: 04/29/25 13:40
 Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-7
 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			05/05/25 12:08	5
Fluoride	<0.38		1.0	0.38	mg/L			05/05/25 12:08	5
Sulfate	85		5.0	2.1	mg/L			05/05/25 12:08	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		05/02/25 09:00	05/09/25 17:08	1
Arsenic	32		2.0	0.53	ug/L		05/02/25 09:00	05/09/25 17:08	1
Barium	88		2.0	0.66	ug/L		05/02/25 09:00	05/09/25 17:08	1
Beryllium	<0.33		1.0	0.33	ug/L		05/02/25 09:00	05/09/25 17:08	1
Boron	2100		100	82	ug/L		05/02/25 09:00	05/11/25 17:57	1
Cadmium	0.10	J	0.20	0.10	ug/L		05/02/25 09:00	05/09/25 17:08	1
Calcium	86		0.50	0.19	mg/L		05/02/25 09:00	05/09/25 17:08	1
Chromium	<1.8		5.0	1.8	ug/L		05/02/25 09:00	05/09/25 17:08	1
Cobalt	<0.17		0.50	0.17	ug/L		05/02/25 09:00	05/09/25 17:08	1
Iron	<50		100	50	ug/L		05/02/25 09:00	05/09/25 17:08	1
Lead	<0.33		0.50	0.33	ug/L		05/02/25 09:00	05/09/25 17:08	1
Lithium	18		10	2.9	ug/L		05/02/25 09:00	05/09/25 17:08	1
Molybdenum	140		2.0	1.3	ug/L		05/02/25 09:00	05/09/25 17:08	1
Selenium	<1.4		5.0	1.4	ug/L		05/02/25 09:00	05/09/25 17:08	1
Thallium	<0.57		1.0	0.57	ug/L		05/02/25 09:00	05/09/25 17:08	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		05/12/25 12:41	05/13/25 11:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	390		50	36	mg/L			05/02/25 20:25	1
pH (SM 4500 H+ B)	8.5	HF	1.0	1.0	SU			04/30/25 19:39	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	0.160	U	0.220	0.220	1.00	0.371	pCi/L	05/05/25 07:45	05/30/25 16:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	81.1		30 - 110					05/05/25 07:45	05/30/25 16:30	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	0.371	U	0.361	0.363	1.00	0.577	pCi/L	05/05/25 07:48	05/30/25 13:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	81.1		30 - 110					05/05/25 07:48	05/30/25 13:43	1
Y Carrier	78.5		30 - 110					05/05/25 07:48	05/30/25 13:43	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-306
 Date Collected: 04/29/25 13:40
 Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-7
 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	0.531	U	0.423	0.424	5.00	0.577	pCi/L		06/02/25 10:11	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	521.15				ft			04/29/25 13:40	1
Oxidation Reduction Potential	-160.2				mV			04/29/25 13:40	1
Oxygen, Dissolved	0.13				mg/L			04/29/25 13:40	1
Field pH	8.94				SU			04/29/25 13:40	1
Field Conductivity	596				umhos/cm			04/29/25 13:40	1
Field Temperature	11.6				Degrees C			04/29/25 13:40	1
Field Turbidity	0.57				NTU			04/29/25 13:40	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-307
 Date Collected: 04/29/25 12:36
 Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-8
 Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21		5.0	2.3	mg/L			05/05/25 12:48	5
Fluoride	<0.38		1.0	0.38	mg/L			05/05/25 12:48	5
Sulfate	170		5.0	2.1	mg/L			05/05/25 12:48	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		05/02/25 09:00	05/09/25 16:51	1
Arsenic	20		2.0	0.53	ug/L		05/02/25 09:00	05/09/25 16:51	1
Barium	44		2.0	0.66	ug/L		05/02/25 09:00	05/09/25 16:51	1
Beryllium	<0.33		1.0	0.33	ug/L		05/02/25 09:00	05/09/25 16:51	1
Boron	3500		100	82	ug/L		05/02/25 09:00	05/10/25 14:53	1
Cadmium	0.22		0.20	0.10	ug/L		05/02/25 09:00	05/09/25 16:51	1
Calcium	44		0.50	0.19	mg/L		05/02/25 09:00	05/09/25 16:51	1
Chromium	<1.8		5.0	1.8	ug/L		05/02/25 09:00	05/09/25 16:51	1
Cobalt	<0.17		0.50	0.17	ug/L		05/02/25 09:00	05/09/25 16:51	1
Iron	530		100	50	ug/L		05/02/25 09:00	05/09/25 16:51	1
Lead	<0.33		0.50	0.33	ug/L		05/02/25 09:00	05/09/25 16:51	1
Lithium	57		10	2.9	ug/L		05/02/25 09:00	05/09/25 16:51	1
Molybdenum	350		2.0	1.3	ug/L		05/02/25 09:00	05/09/25 16:51	1
Selenium	<1.4		5.0	1.4	ug/L		05/02/25 09:00	05/09/25 16:51	1
Thallium	<0.57		1.0	0.57	ug/L		05/02/25 09:00	05/09/25 16:51	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		05/12/25 12:41	05/13/25 12:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	360		50	36	mg/L			05/02/25 20:31	1
pH (SM 4500 H+ B)	8.3	HF	1.0	1.0	SU			04/30/25 18:51	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	0.109	U	0.205	0.205	1.00	0.364	pCi/L	05/05/25 07:45	05/30/25 16:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	84.3		30 - 110					05/05/25 07:45	05/30/25 16:31	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	0.514	U	0.441	0.443	1.00	0.693	pCi/L	05/05/25 07:48	05/30/25 13:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	84.3		30 - 110					05/05/25 07:48	05/30/25 13:43	1
Y Carrier	71.0		30 - 110					05/05/25 07:48	05/30/25 13:43	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-307
 Date Collected: 04/29/25 12:36
 Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-8
 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	0.623	U	0.486	0.488	5.00	0.693	pCi/L		06/02/25 10:11	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	522.13				ft			04/29/25 12:36	1
Oxidation Reduction Potential	-316.3				mV			04/29/25 12:36	1
Oxygen, Dissolved	0.11				mg/L			04/29/25 12:36	1
Field pH	9.05				SU			04/29/25 12:36	1
Field Conductivity	576				umhos/cm			04/29/25 12:36	1
Field Temperature	11.7				Degrees C			04/29/25 12:36	1
Field Turbidity	1.97				NTU			04/29/25 12:36	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-307A

Lab Sample ID: 310-305391-9

Date Collected: 04/29/25 11:31

Matrix: Water

Date Received: 04/30/25 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1400		100	50	ug/L		05/02/25 09:00	05/09/25 16:54	1
Lithium	10		10	2.9	ug/L		05/02/25 09:00	05/09/25 16:54	1
Molybdenum	16		2.0	1.3	ug/L		05/02/25 09:00	05/09/25 16:54	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	523.64				ft			04/29/25 11:31	1
Oxidation Reduction Potential	-188.6				mV			04/29/25 11:31	1
Oxygen, Dissolved	0.30				mg/L			04/29/25 11:31	1
Field pH	7.83				SU			04/29/25 11:31	1
Field Conductivity	493.0				umhos/cm			04/29/25 11:31	1
Field Temperature	11.3				Degrees C			04/29/25 11:31	1
Field Turbidity	1.61				NTU			04/29/25 11:31	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-307B
 Date Collected: 04/29/25 12:10
 Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-10
 Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2200		100	50	ug/L		05/02/25 09:00	05/09/25 16:20	1
Lithium	6.8	J	10	2.9	ug/L		05/02/25 09:00	05/09/25 16:20	1
Molybdenum	13		2.0	1.3	ug/L		05/02/25 09:00	05/09/25 16:20	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	522.22				ft			04/29/25 12:10	1
Oxidation Reduction Potential	-157.8				mV			04/29/25 12:10	1
Oxygen, Dissolved	0.28				mg/L			04/29/25 12:10	1
Field pH	7.58				SU			04/29/25 12:10	1
Field Conductivity	529.0				umhos/cm			04/29/25 12:10	1
Field Temperature	11.5				Degrees C			04/29/25 12:10	1
Field Turbidity	1.05				NTU			04/29/25 12:10	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-308
 Date Collected: 04/28/25 14:35
 Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-11
 Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76		5.0	2.3	mg/L			05/05/25 13:01	5
Fluoride	<0.38		1.0	0.38	mg/L			05/05/25 13:01	5
Sulfate	300		5.0	2.1	mg/L			05/05/25 13:01	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		05/02/25 09:00	05/09/25 16:25	1
Arsenic	5.5		2.0	0.53	ug/L		05/02/25 09:00	05/09/25 16:25	1
Barium	42		2.0	0.66	ug/L		05/02/25 09:00	05/09/25 16:25	1
Beryllium	<0.33		1.0	0.33	ug/L		05/02/25 09:00	05/09/25 16:25	1
Boron	4400		400	330	ug/L		05/02/25 09:00	05/11/25 17:40	4
Cadmium	0.47		0.20	0.10	ug/L		05/02/25 09:00	05/09/25 16:25	1
Calcium	66		0.50	0.19	mg/L		05/02/25 09:00	05/09/25 16:25	1
Chromium	<1.8		5.0	1.8	ug/L		05/02/25 09:00	05/09/25 16:25	1
Cobalt	0.42	J	0.50	0.17	ug/L		05/02/25 09:00	05/09/25 16:25	1
Iron	1400		100	50	ug/L		05/02/25 09:00	05/09/25 16:25	1
Lead	<0.33		0.50	0.33	ug/L		05/02/25 09:00	05/09/25 16:25	1
Lithium	110		10	2.9	ug/L		05/02/25 09:00	05/09/25 16:25	1
Molybdenum	950		2.0	1.3	ug/L		05/02/25 09:00	05/09/25 16:25	1
Selenium	<1.4		5.0	1.4	ug/L		05/02/25 09:00	05/09/25 16:25	1
Thallium	<0.57		1.0	0.57	ug/L		05/02/25 09:00	05/09/25 16:25	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		05/12/25 12:41	05/13/25 12:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	670		50	36	mg/L			05/02/25 20:25	1
pH (SM 4500 H+ B)	7.5	HF	1.0	1.0	SU			04/30/25 19:34	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	0.0899	U	0.165	0.165	1.00	0.296	pCi/L	05/05/25 07:45	05/30/25 16:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	95.5		30 - 110					05/05/25 07:45	05/30/25 16:31	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	0.0994	U	0.299	0.300	1.00	0.532	pCi/L	05/05/25 07:48	05/30/25 13:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	95.5		30 - 110					05/05/25 07:48	05/30/25 13:43	1
Y Carrier	81.1		30 - 110					05/05/25 07:48	05/30/25 13:43	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-308
Date Collected: 04/28/25 14:35
Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-11
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	0.189	U	0.342	0.342	5.00	0.532	pCi/L		06/02/25 10:11	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	522.32				ft			04/28/25 14:35	1
Oxidation Reduction Potential	-138.1				mV			04/28/25 14:35	1
Oxygen, Dissolved	0.10				mg/L			04/28/25 14:35	1
Field pH	7.63				SU			04/28/25 14:35	1
Field Conductivity	1032				umhos/cm			04/28/25 14:35	1
Field Temperature	12.8				Degrees C			04/28/25 14:35	1
Field Turbidity	0.91				NTU			04/28/25 14:35	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-309

Lab Sample ID: 310-305391-12

Date Collected: 04/29/25 14:52

Matrix: Water

Date Received: 04/30/25 16:35

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23		5.0	2.3	mg/L			05/05/25 13:14	5
Fluoride	<0.38		1.0	0.38	mg/L			05/05/25 13:14	5
Sulfate	120		5.0	2.1	mg/L			05/05/25 13:14	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		05/02/25 09:00	05/09/25 17:10	1
Arsenic	19		2.0	0.53	ug/L		05/02/25 09:00	05/09/25 17:10	1
Barium	140		2.0	0.66	ug/L		05/02/25 09:00	05/09/25 17:10	1
Beryllium	<0.33		1.0	0.33	ug/L		05/02/25 09:00	05/09/25 17:10	1
Boron	13000		400	330	ug/L		05/02/25 09:00	05/11/25 18:00	4
Cadmium	<0.10		0.20	0.10	ug/L		05/02/25 09:00	05/09/25 17:10	1
Calcium	94		0.50	0.19	mg/L		05/02/25 09:00	05/09/25 17:10	1
Chromium	<1.8		5.0	1.8	ug/L		05/02/25 09:00	05/09/25 17:10	1
Cobalt	<0.17		0.50	0.17	ug/L		05/02/25 09:00	05/09/25 17:10	1
Iron	22000		100	50	ug/L		05/02/25 09:00	05/09/25 17:10	1
Lead	<0.33		0.50	0.33	ug/L		05/02/25 09:00	05/09/25 17:10	1
Lithium	3.6 J		10	2.9	ug/L		05/02/25 09:00	05/09/25 17:10	1
Molybdenum	34		2.0	1.3	ug/L		05/02/25 09:00	05/09/25 17:10	1
Selenium	<1.4		5.0	1.4	ug/L		05/02/25 09:00	05/09/25 17:10	1
Thallium	<0.57		1.0	0.57	ug/L		05/02/25 09:00	05/09/25 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		05/12/25 12:41	05/13/25 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	570		50	36	mg/L			05/02/25 20:31	1
pH (SM 4500 H+ B)	7.0	HF	1.0	1.0	SU			04/30/25 18:55	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	0.109	U	0.196	0.197	1.00	0.347	pCi/L	05/05/25 07:45	05/30/25 16:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	91.0		30 - 110					05/05/25 07:45	05/30/25 16:31	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	0.788		0.381	0.388	1.00	0.513	pCi/L	05/05/25 07:48	05/30/25 13:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	91.0		30 - 110					05/05/25 07:48	05/30/25 13:44	1
Y Carrier	78.1		30 - 110					05/05/25 07:48	05/30/25 13:44	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-309
 Date Collected: 04/29/25 14:52
 Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-12
 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	0.897		0.428	0.435	5.00	0.513	pCi/L		06/02/25 10:11	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	522.06				ft			04/29/25 14:52	1
Oxidation Reduction Potential	-135.4				mV			04/29/25 14:52	1
Oxygen, Dissolved	-0.05				mg/L			04/29/25 14:52	1
Field pH	6.88				SU			04/29/25 14:52	1
Field Conductivity	942				umhos/cm			04/29/25 14:52	1
Field Temperature	14.0				Degrees C			04/29/25 14:52	1
Field Turbidity	19.54				NTU			04/29/25 14:52	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-310
 Date Collected: 04/29/25 08:25
 Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-13
 Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		5.0	2.3	mg/L			05/05/25 13:27	5
Fluoride	<0.38		1.0	0.38	mg/L			05/05/25 13:27	5
Sulfate	66		5.0	2.1	mg/L			05/05/25 13:27	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		05/02/25 09:00	05/05/25 14:08	1
Arsenic	15		2.0	0.53	ug/L		05/02/25 09:00	05/02/25 18:49	1
Barium	190		2.0	0.66	ug/L		05/02/25 09:00	05/02/25 18:49	1
Beryllium	<0.33		1.0	0.33	ug/L		05/02/25 09:00	05/05/25 14:08	1
Boron	98 J		100	82	ug/L		05/02/25 09:00	05/02/25 18:49	1
Cadmium	<0.10		0.20	0.10	ug/L		05/02/25 09:00	05/02/25 18:49	1
Calcium	89		0.50	0.19	mg/L		05/02/25 09:00	05/05/25 14:08	1
Chromium	<1.8		5.0	1.8	ug/L		05/02/25 09:00	05/02/25 18:49	1
Cobalt	1.9		0.50	0.17	ug/L		05/02/25 09:00	05/02/25 18:49	1
Iron	12000		100	50	ug/L		05/02/25 09:00	05/05/25 14:08	1
Lead	<0.33		0.50	0.33	ug/L		05/02/25 09:00	05/02/25 18:49	1
Lithium	<2.9		10	2.9	ug/L		05/02/25 09:00	05/05/25 14:08	1
Molybdenum	5.5		2.0	1.3	ug/L		05/02/25 09:00	05/02/25 18:49	1
Selenium	<1.4		5.0	1.4	ug/L		05/02/25 09:00	05/02/25 18:49	1
Thallium	<0.57		1.0	0.57	ug/L		05/02/25 09:00	05/02/25 18:49	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		05/12/25 12:41	05/13/25 12:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	340		50	36	mg/L			05/02/25 20:31	1
pH (SM 4500 H+ B)	7.5	HF	1.0	1.0	SU			04/30/25 19:02	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	0.0766	U	0.177	0.178	1.00	0.329	pCi/L	05/05/25 07:45	05/30/25 16:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	86.1		30 - 110					05/05/25 07:45	05/30/25 16:31	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	0.0456	U	0.285	0.285	1.00	0.532	pCi/L	05/05/25 07:48	05/30/25 13:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	86.1		30 - 110					05/05/25 07:48	05/30/25 13:44	1
Y Carrier	74.4		30 - 110					05/05/25 07:48	05/30/25 13:44	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-310
 Date Collected: 04/29/25 08:25
 Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-13
 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	0.122	U	0.335	0.336	5.00	0.532	pCi/L		06/02/25 10:11	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	523.24				ft			04/29/25 08:25	1
Oxidation Reduction Potential	-173.6				mV			04/29/25 08:25	1
Oxygen, Dissolved	0.23				mg/L			04/29/25 08:25	1
Field pH	7.44				SU			04/29/25 08:25	1
Field Conductivity	634				umhos/cm			04/29/25 08:25	1
Field Temperature	7.8				Degrees C			04/29/25 08:25	1
Field Turbidity	1.61				NTU			04/29/25 08:25	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-311
 Date Collected: 04/29/25 09:50
 Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-14
 Matrix: Water

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47		5.0	2.3	mg/L			05/05/25 13:40	5
Fluoride	<0.38		1.0	0.38	mg/L			05/05/25 13:40	5
Sulfate	210		5.0	2.1	mg/L			05/05/25 13:40	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J	2.0	1.0	ug/L		05/02/25 09:00	05/09/25 16:39	1
Arsenic	7.7		2.0	0.53	ug/L		05/02/25 09:00	05/09/25 16:39	1
Barium	140		2.0	0.66	ug/L		05/02/25 09:00	05/09/25 16:39	1
Beryllium	<0.33		1.0	0.33	ug/L		05/02/25 09:00	05/09/25 16:39	1
Boron	1600		100	82	ug/L		05/02/25 09:00	05/10/25 14:44	1
Cadmium	<0.10		0.20	0.10	ug/L		05/02/25 09:00	05/09/25 16:39	1
Calcium	180		0.50	0.19	mg/L		05/02/25 09:00	05/09/25 16:39	1
Chromium	<1.8		5.0	1.8	ug/L		05/02/25 09:00	05/09/25 16:39	1
Cobalt	2.7		0.50	0.17	ug/L		05/02/25 09:00	05/09/25 16:39	1
Iron	23000		100	50	ug/L		05/02/25 09:00	05/09/25 16:39	1
Lead	<0.33		0.50	0.33	ug/L		05/02/25 09:00	05/09/25 16:39	1
Lithium	<2.9		10	2.9	ug/L		05/02/25 09:00	05/09/25 16:39	1
Molybdenum	4.7		2.0	1.3	ug/L		05/02/25 09:00	05/09/25 16:39	1
Selenium	<1.4		5.0	1.4	ug/L		05/02/25 09:00	05/09/25 16:39	1
Thallium	<0.57		1.0	0.57	ug/L		05/02/25 09:00	05/09/25 16:39	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		05/12/25 12:41	05/13/25 12:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	800		50	36	mg/L			05/02/25 20:31	1
pH (SM 4500 H+ B)	7.3	HF	1.0	1.0	SU			04/30/25 19:22	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	0.358		0.237	0.239	1.00	0.316	pCi/L	05/05/25 07:45	05/30/25 16:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	90.8		30 - 110					05/05/25 07:45	05/30/25 16:33	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	-0.0175	U	0.268	0.268	1.00	0.512	pCi/L	05/05/25 07:48	05/30/25 13:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	90.8		30 - 110					05/05/25 07:48	05/30/25 13:44	1
Y Carrier	80.0		30 - 110					05/05/25 07:48	05/30/25 13:44	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-311
Date Collected: 04/29/25 09:50
Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-14
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	0.358	U	0.358	0.359	5.00	0.512	pCi/L		06/02/25 10:11	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	522.28				ft			04/29/25 09:50	1
Oxidation Reduction Potential	-168.9				mV			04/29/25 09:50	1
Oxygen, Dissolved	0.18				mg/L			04/29/25 09:50	1
Field pH	7.14				SU			04/29/25 09:50	1
Field Conductivity	1262				umhos/cm			04/29/25 09:50	1
Field Temperature	11.6				Degrees C			04/29/25 09:50	1
Field Turbidity	1.28				NTU			04/29/25 09:50	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-312
 Date Collected: 04/29/25 14:02
 Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-15
 Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	9600		100	50	ug/L		05/02/25 09:00	05/09/25 17:15	1
Lithium	14		10	2.9	ug/L		05/02/25 09:00	05/09/25 17:15	1
Molybdenum	40		2.0	1.3	ug/L		05/02/25 09:00	05/09/25 17:15	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	522.43				ft			04/29/25 14:02	1
Oxidation Reduction Potential	-108.6				mV			04/29/25 14:02	1
Oxygen, Dissolved	0.01				mg/L			04/29/25 14:02	1
Field pH	7.07				SU			04/29/25 14:02	1
Field Conductivity	550				umhos/cm			04/29/25 14:02	1
Field Temperature	11.2				Degrees C			04/29/25 14:02	1
Field Turbidity	7.29				NTU			04/29/25 14:02	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-313
 Date Collected: 04/28/25 17:56
 Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-16
 Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8000		100	50	ug/L		05/02/25 09:00	05/09/25 17:13	1
Lithium	15		10	2.9	ug/L		05/02/25 09:00	05/09/25 17:13	1
Magnesium	11000		500	150	ug/L		05/02/25 09:00	05/09/25 17:13	1
Manganese	3700		10	3.6	ug/L		05/02/25 09:00	05/09/25 17:13	1
Molybdenum	41		2.0	1.3	ug/L		05/02/25 09:00	05/09/25 17:13	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			05/05/25 19:36	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<2.5		5.0	2.5	mg/L			05/05/25 19:36	1
Total Alkalinity as CaCO3 (SM 2320B)	220		5.0	2.5	mg/L			05/05/25 19:36	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	522.36				ft			04/28/25 17:56	1
Oxidation Reduction Potential	-90.3				mV			04/28/25 17:56	1
Oxygen, Dissolved	0.04				mg/L			04/28/25 17:56	1
Field pH	7.15				SU			04/28/25 17:56	1
Field Conductivity	574.9				umhos/cm			04/28/25 17:56	1
Field Temperature	10.5				Degrees C			04/28/25 17:56	1
Field Turbidity	0.87				NTU			04/28/25 17:56	1



Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-313A

Lab Sample ID: 310-305391-17

Date Collected: 04/28/25 16:35

Matrix: Water

Date Received: 04/30/25 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2400		100	50	ug/L		05/02/25 09:00	05/09/25 16:18	1
Lithium	6.0	J	10	2.9	ug/L		05/02/25 09:00	05/09/25 16:18	1
Molybdenum	8.3		2.0	1.3	ug/L		05/02/25 09:00	05/09/25 16:18	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	522.24				ft			04/28/25 16:35	1
Oxidation Reduction Potential	-118.7				mV			04/28/25 16:35	1
Oxygen, Dissolved	0.00				mg/L			04/28/25 16:35	1
Field pH	7.50				SU			04/28/25 16:35	1
Field Conductivity	438.7				umhos/cm			04/28/25 16:35	1
Field Temperature	10.2				Degrees C			04/28/25 16:35	1
Field Turbidity	1.41				NTU			04/28/25 16:35	1

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Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-313B
 Date Collected: 04/28/25 17:15
 Date Received: 04/30/25 16:35

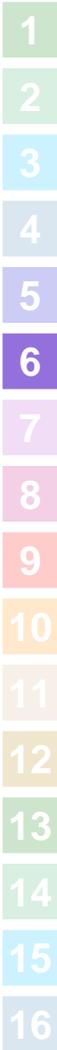
Lab Sample ID: 310-305391-18
 Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2800		100	50	ug/L		05/02/25 09:00	05/09/25 16:49	1
Lithium	7.1	J	10	2.9	ug/L		05/02/25 09:00	05/09/25 16:49	1
Molybdenum	20		2.0	1.3	ug/L		05/02/25 09:00	05/09/25 16:49	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	522.27				ft			04/28/25 17:15	1
Oxidation Reduction Potential	-119.6				mV			04/28/25 17:15	1
Oxygen, Dissolved	0.01				mg/L			04/28/25 17:15	1
Field pH	7.48				SU			04/28/25 17:15	1
Field Conductivity	496.8				umhos/cm			04/28/25 17:15	1
Field Temperature	9.9				Degrees C			04/28/25 17:15	1
Field Turbidity	0.79				NTU			04/28/25 17:15	1



Client Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: Field Blank

Lab Sample ID: 310-305391-19

Date Collected: 04/29/25 10:25

Matrix: Water

Date Received: 04/30/25 16:35

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			05/05/25 13:53	1
Fluoride	<0.075		0.20	0.075	mg/L			05/05/25 13:53	1
Sulfate	<0.42		1.0	0.42	mg/L			05/05/25 13:53	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		05/02/25 09:00	05/09/25 16:15	1
Arsenic	<0.53		2.0	0.53	ug/L		05/02/25 09:00	05/09/25 16:15	1
Barium	<0.66		2.0	0.66	ug/L		05/02/25 09:00	05/09/25 16:15	1
Beryllium	<0.33		1.0	0.33	ug/L		05/02/25 09:00	05/09/25 16:15	1
Boron	<82		100	82	ug/L		05/02/25 09:00	05/11/25 17:34	1
Cadmium	<0.10		0.20	0.10	ug/L		05/02/25 09:00	05/09/25 16:15	1
Calcium	<0.19		0.50	0.19	mg/L		05/02/25 09:00	05/09/25 16:15	1
Chromium	<1.8		5.0	1.8	ug/L		05/02/25 09:00	05/09/25 16:15	1
Cobalt	<0.17		0.50	0.17	ug/L		05/02/25 09:00	05/09/25 16:15	1
Iron	<50		100	50	ug/L		05/02/25 09:00	05/09/25 16:15	1
Lead	<0.33		0.50	0.33	ug/L		05/02/25 09:00	05/09/25 16:15	1
Lithium	<2.9		10	2.9	ug/L		05/02/25 09:00	05/09/25 16:15	1
Molybdenum	<1.3		2.0	1.3	ug/L		05/02/25 09:00	05/09/25 16:15	1
Selenium	<1.4		5.0	1.4	ug/L		05/02/25 09:00	05/09/25 16:15	1
Thallium	<0.57		1.0	0.57	ug/L		05/02/25 09:00	05/09/25 16:15	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		05/12/25 12:41	05/13/25 12:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	<36		50	36	mg/L			05/02/25 20:31	1
pH (SM 4500 H+ B)	7.6	HF	1.0	1.0	SU			04/30/25 19:07	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	-0.0421	U	0.176	0.176	1.00	0.388	pCi/L	05/05/25 07:45	05/30/25 16:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	79.9		30 - 110					05/05/25 07:45	05/30/25 16:33	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	0.233	U	0.390	0.391	1.00	0.667	pCi/L	05/05/25 07:48	05/30/25 13:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	79.9		30 - 110					05/05/25 07:48	05/30/25 13:44	1
Y Carrier	77.0		30 - 110					05/05/25 07:48	05/30/25 13:44	1

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Client Sample Results

Client: SCS Engineers
Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
SDG: 25224066

Client Sample ID: Field Blank

Lab Sample ID: 310-305391-19

Date Collected: 04/29/25 10:25

Matrix: Water

Date Received: 04/30/25 16:35

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

Analyte	Result	Qualifier	Count Uncert. (2 σ +/-)	Total Uncert. (2 σ +/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.233	U	0.428	0.429	5.00	0.667	pCi/L		06/02/25 10:11	1

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Definitions/Glossary

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

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.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Rad

Qualifier	Qualifier Description
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

QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-453886/3
Matrix: Water
Analysis Batch: 453886

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			05/05/25 10:11	1
Fluoride	<0.075		0.20	0.075	mg/L			05/05/25 10:11	1
Sulfate	<0.42		1.0	0.42	mg/L			05/05/25 10:11	1

Lab Sample ID: LCS 310-453886/4
Matrix: Water
Analysis Batch: 453886

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.78		mg/L		98	90 - 110
Fluoride	2.00	2.02		mg/L		101	90 - 110
Sulfate	10.0	9.98		mg/L		100	90 - 110

Lab Sample ID: 310-305391-1 MS
Matrix: Water
Analysis Batch: 453886

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15		25.0	37.6		mg/L		89	80 - 120
Fluoride	<0.38		5.00	5.19		mg/L		104	80 - 120

Lab Sample ID: 310-305391-1 MS
Matrix: Water
Analysis Batch: 453886

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	970		50.0	996	4	mg/L		62	80 - 120

Lab Sample ID: 310-305391-1 MSD
Matrix: Water
Analysis Batch: 453886

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	15		25.0	37.6		mg/L		89	80 - 120	0	15
Fluoride	<0.38		5.00	5.21		mg/L		104	80 - 120	0	15

Lab Sample ID: 310-305391-1 MSD
Matrix: Water
Analysis Batch: 453886

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	970		50.0	990	4	mg/L		50	80 - 120	1	15

QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-453420/1-A
Matrix: Water
Analysis Batch: 454358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 453420

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<1.0		2.0	1.0	ug/L		05/02/25 09:00	05/09/25 16:30	1
Arsenic	<0.53		2.0	0.53	ug/L		05/02/25 09:00	05/09/25 16:30	1
Barium	<0.66		2.0	0.66	ug/L		05/02/25 09:00	05/09/25 16:30	1
Magnesium	<150		500	150	ug/L		05/02/25 09:00	05/09/25 16:30	1
Beryllium	<0.33		1.0	0.33	ug/L		05/02/25 09:00	05/09/25 16:30	1
Manganese	<3.6		10	3.6	ug/L		05/02/25 09:00	05/09/25 16:30	1
Cadmium	<0.10		0.20	0.10	ug/L		05/02/25 09:00	05/09/25 16:30	1
Calcium	<0.19		0.50	0.19	mg/L		05/02/25 09:00	05/09/25 16:30	1
Chromium	<1.8		5.0	1.8	ug/L		05/02/25 09:00	05/09/25 16:30	1
Cobalt	<0.17		0.50	0.17	ug/L		05/02/25 09:00	05/09/25 16:30	1
Iron	<50		100	50	ug/L		05/02/25 09:00	05/09/25 16:30	1
Lead	<0.33		0.50	0.33	ug/L		05/02/25 09:00	05/09/25 16:30	1
Lithium	<2.9		10	2.9	ug/L		05/02/25 09:00	05/09/25 16:30	1
Molybdenum	<1.3		2.0	1.3	ug/L		05/02/25 09:00	05/09/25 16:30	1
Selenium	<1.4		5.0	1.4	ug/L		05/02/25 09:00	05/09/25 16:30	1
Thallium	<0.57		1.0	0.57	ug/L		05/02/25 09:00	05/09/25 16:30	1

Lab Sample ID: MB 310-453420/1-A
Matrix: Water
Analysis Batch: 454361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 453420

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<82		100	82	ug/L		05/02/25 09:00	05/10/25 14:38	1

Lab Sample ID: LCS 310-453420/2-A
Matrix: Water
Analysis Batch: 454358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 453420

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	200	191		ug/L		96	80 - 120
Barium	100	96.9		ug/L		97	80 - 120
Magnesium	2000	1860		ug/L		93	80 - 120
Beryllium	100	88.7		ug/L		89	80 - 120
Manganese	100	94.4		ug/L		94	80 - 120
Cadmium	100	93.8		ug/L		94	80 - 120
Calcium	2.00	1.61		mg/L		81	80 - 120
Chromium	100	93.2		ug/L		93	80 - 120
Cobalt	100	98.1		ug/L		98	80 - 120
Iron	200	199		ug/L		100	80 - 120
Lead	200	207		ug/L		103	80 - 120
Lithium	200	187		ug/L		94	80 - 120
Molybdenum	200	200		ug/L		100	80 - 120
Selenium	400	364		ug/L		91	80 - 120
Thallium	100	84.3		ug/L		84	80 - 120

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QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

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

Lab Sample ID: LCS 310-453420/2-A
Matrix: Water
Analysis Batch: 454361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 453420

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	200	202		ug/L		101	80 - 120

Lab Sample ID: 310-305391-14 MS
Matrix: Water
Analysis Batch: 454358

Client Sample ID: MW-311
Prep Type: Total/NA
Prep Batch: 453420

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1.0	J	200	206		ug/L		102	75 - 125
Arsenic	7.7		200	211		ug/L		102	75 - 125
Barium	140		100	229		ug/L		92	75 - 125
Magnesium	39000		2000	39100	4	ug/L		10	75 - 125
Beryllium	<0.33		100	95.8		ug/L		96	75 - 125
Manganese	5600		100	5400	4	ug/L		-151	75 - 125
Cadmium	<0.10		100	94.4		ug/L		94	75 - 125
Calcium	180		2.00	170	4	mg/L		-283	75 - 125
Chromium	<1.8		100	96.5		ug/L		96	75 - 125
Cobalt	2.7		100	99.0		ug/L		96	75 - 125
Iron	23000		200	22000	4	ug/L		-361	75 - 125
Lead	<0.33		200	206		ug/L		103	75 - 125
Lithium	<2.9		200	195		ug/L		98	75 - 125
Molybdenum	4.7		200	206		ug/L		101	75 - 125
Selenium	<1.4		400	389		ug/L		97	75 - 125
Thallium	<0.57		100	81.3		ug/L		81	75 - 125

Lab Sample ID: 310-305391-14 MS
Matrix: Water
Analysis Batch: 454361

Client Sample ID: MW-311
Prep Type: Total/NA
Prep Batch: 453420

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1600		200	1700	4	ug/L		57	75 - 125

Lab Sample ID: 310-305391-14 MSD
Matrix: Water
Analysis Batch: 454358

Client Sample ID: MW-311
Prep Type: Total/NA
Prep Batch: 453420

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Antimony	1.0	J	200	210		ug/L		104	75 - 125	2	20
Arsenic	7.7		200	217		ug/L		105	75 - 125	3	20
Barium	140		100	233		ug/L		95	75 - 125	1	20
Magnesium	39000		2000	39200	4	ug/L		17	75 - 125	0	20
Beryllium	<0.33		100	98.4		ug/L		98	75 - 125	3	20
Manganese	5600		100	5440	4	ug/L		-107	75 - 125	1	20
Cadmium	<0.10		100	97.3		ug/L		97	75 - 125	3	20
Calcium	180		2.00	171	4	mg/L		-206	75 - 125	1	20
Chromium	<1.8		100	98.8		ug/L		99	75 - 125	2	20
Cobalt	2.7		100	101		ug/L		98	75 - 125	2	20
Iron	23000		200	22200	4	ug/L		-262	75 - 125	1	20
Lead	<0.33		200	210		ug/L		105	75 - 125	2	20
Lithium	<2.9		200	199		ug/L		100	75 - 125	2	20

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QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

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

Lab Sample ID: 310-305391-14 MSD
Matrix: Water
Analysis Batch: 454358

Client Sample ID: MW-311
Prep Type: Total/NA
Prep Batch: 453420

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Molybdenum	4.7		200	212		ug/L		104	75 - 125	3	20
Selenium	<1.4		400	397		ug/L		99	75 - 125	2	20
Thallium	<0.57		100	82.4		ug/L		82	75 - 125	1	20

Lab Sample ID: 310-305391-14 MSD
Matrix: Water
Analysis Batch: 454361

Client Sample ID: MW-311
Prep Type: Total/NA
Prep Batch: 453420

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	1600		200	1730	4	ug/L		72	75 - 125	2	20

Lab Sample ID: 310-305391-15 DU
Matrix: Water
Analysis Batch: 454358

Client Sample ID: MW-312
Prep Type: Total/NA
Prep Batch: 453420

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<1.0		<1.0		ug/L		NC	20
Arsenic	5.9		5.88		ug/L		0.5	20
Barium	120		121		ug/L		2	20
Magnesium	11000		10700		ug/L		2	20
Beryllium	<0.33		<0.33		ug/L		NC	20
Cadmium	<0.10		<0.10		ug/L		NC	20
Calcium	60000		60.6	F3	mg/L		200	20
Chromium	<1.8		<1.8		ug/L		NC	20
Cobalt	1.4		1.43		ug/L		0.6	20
Iron	9600		9720		ug/L		2	20
Lead	<0.33		<0.33		ug/L		NC	20
Lithium	14		15.3		ug/L		7	20
Molybdenum	40		40.6		ug/L		2	20
Selenium	<1.4		<1.4		ug/L		NC	20
Thallium	<0.57		<0.57		ug/L		NC	20

Lab Sample ID: MB 310-453421/1-A
Matrix: Water
Analysis Batch: 454358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 453421

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		2.0	1.0	ug/L		05/02/25 09:00	05/09/25 15:18	1
Arsenic	<0.53		2.0	0.53	ug/L		05/02/25 09:00	05/09/25 15:18	1
Barium	<0.66		2.0	0.66	ug/L		05/02/25 09:00	05/09/25 15:18	1
Beryllium	<0.33		1.0	0.33	ug/L		05/02/25 09:00	05/09/25 15:18	1
Calcium	<0.19		0.50	0.19	mg/L		05/02/25 09:00	05/09/25 15:18	1
Chromium	<1.8		5.0	1.8	ug/L		05/02/25 09:00	05/09/25 15:18	1
Cobalt	<0.17		0.50	0.17	ug/L		05/02/25 09:00	05/09/25 15:18	1
Iron	<50		100	50	ug/L		05/02/25 09:00	05/09/25 15:18	1
Lead	<0.33		0.50	0.33	ug/L		05/02/25 09:00	05/09/25 15:18	1
Lithium	<2.9		10	2.9	ug/L		05/02/25 09:00	05/09/25 15:18	1
Molybdenum	<1.3		2.0	1.3	ug/L		05/02/25 09:00	05/09/25 15:18	1
Selenium	<1.4		5.0	1.4	ug/L		05/02/25 09:00	05/09/25 15:18	1

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QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

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

Lab Sample ID: MB 310-453421/1-A
Matrix: Water
Analysis Batch: 454358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 453421

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.57		1.0	0.57	ug/L		05/02/25 09:00	05/09/25 15:18	1

Lab Sample ID: MB 310-453421/1-A
Matrix: Water
Analysis Batch: 454361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 453421

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.10		0.20	0.10	ug/L		05/02/25 09:00	05/10/25 15:50	1

Lab Sample ID: MB 310-453421/1-A
Matrix: Water
Analysis Batch: 454379

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 453421

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<82		100	82	ug/L		05/02/25 09:00	05/11/25 17:13	1

Lab Sample ID: LCS 310-453421/2-A
Matrix: Water
Analysis Batch: 454358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 453421

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	200	202		ug/L		101	80 - 120
Arsenic	200	200		ug/L		100	80 - 120
Barium	100	101		ug/L		101	80 - 120
Beryllium	100	93.3		ug/L		93	80 - 120
Calcium	2.00	1.71		mg/L		85	80 - 120
Chromium	100	97.1		ug/L		97	80 - 120
Cobalt	100	99.1		ug/L		99	80 - 120
Iron	200	202		ug/L		101	80 - 120
Lead	200	210		ug/L		105	80 - 120
Lithium	200	194		ug/L		97	80 - 120
Molybdenum	200	206		ug/L		103	80 - 120
Selenium	400	386		ug/L		97	80 - 120
Thallium	100	85.1		ug/L		85	80 - 120

Lab Sample ID: LCS 310-453421/2-A
Matrix: Water
Analysis Batch: 454361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 453421

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	100	96.2		ug/L		96	80 - 120

Lab Sample ID: LCS 310-453421/2-A
Matrix: Water
Analysis Batch: 454379

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 453421

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	200	210		ug/L		105	80 - 120

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QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

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

Lab Sample ID: MB 310-453426/1-A
Matrix: Water
Analysis Batch: 453657

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 453426

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.53		2.0	0.53	ug/L		05/02/25 09:00	05/02/25 17:39	1
Barium	<0.66		2.0	0.66	ug/L		05/02/25 09:00	05/02/25 17:39	1
Beryllium	<0.33		1.0	0.33	ug/L		05/02/25 09:00	05/02/25 17:39	1
Boron	<82		100	82	ug/L		05/02/25 09:00	05/02/25 17:39	1
Cadmium	<0.10		0.20	0.10	ug/L		05/02/25 09:00	05/02/25 17:39	1
Calcium	<0.19		0.50	0.19	mg/L		05/02/25 09:00	05/02/25 17:39	1
Chromium	<1.8		5.0	1.8	ug/L		05/02/25 09:00	05/02/25 17:39	1
Cobalt	<0.17		0.50	0.17	ug/L		05/02/25 09:00	05/02/25 17:39	1
Iron	<50		100	50	ug/L		05/02/25 09:00	05/02/25 17:39	1
Lead	<0.33		0.50	0.33	ug/L		05/02/25 09:00	05/02/25 17:39	1
Lithium	<2.9		10	2.9	ug/L		05/02/25 09:00	05/02/25 17:39	1
Molybdenum	<1.3	^+	2.0	1.3	ug/L		05/02/25 09:00	05/02/25 17:39	1
Selenium	<1.4		5.0	1.4	ug/L		05/02/25 09:00	05/02/25 17:39	1
Thallium	<0.57		1.0	0.57	ug/L		05/02/25 09:00	05/02/25 17:39	1

Lab Sample ID: MB 310-453426/1-A
Matrix: Water
Analysis Batch: 453796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 453426

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<1.0		2.0	1.0	ug/L		05/02/25 09:00	05/05/25 13:25	1
Calcium	<0.19		0.50	0.19	mg/L		05/02/25 09:00	05/05/25 13:25	1
Molybdenum	<1.3		2.0	1.3	ug/L		05/02/25 09:00	05/05/25 13:25	1

Lab Sample ID: LCS 310-453426/2-A
Matrix: Water
Analysis Batch: 453657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 453426

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	100	90.9		ug/L		91	80 - 120
Beryllium	100	87.2		ug/L		87	80 - 120
Boron	200	217		ug/L		109	80 - 120
Cadmium	100	97.3		ug/L		97	80 - 120
Chromium	100	95.0		ug/L		95	80 - 120
Cobalt	100	97.3		ug/L		97	80 - 120
Iron	200	190		ug/L		95	80 - 120
Lead	200	203		ug/L		101	80 - 120
Lithium	200	182		ug/L		91	80 - 120
Selenium	400	357		ug/L		89	80 - 120
Thallium	100	92.7		ug/L		93	80 - 120

Lab Sample ID: LCS 310-453426/2-A
Matrix: Water
Analysis Batch: 453796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 453426

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	2.00	1.67		mg/L		83	80 - 120

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QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

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

Lab Sample ID: LCS 310-453426/2-A
 Matrix: Water
 Analysis Batch: 453796

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 453426

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	200	190		ug/L		95	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-454326/1-A
 Matrix: Water
 Analysis Batch: 454546

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 454326

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		05/12/25 12:41	05/13/25 11:08	1

Lab Sample ID: LCS 310-454326/2-A
 Matrix: Water
 Analysis Batch: 454546

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 454326

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.67	1.77		ug/L		106	80 - 120

Lab Sample ID: MB 310-454327/1-A
 Matrix: Water
 Analysis Batch: 454546

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 454327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.11		0.20	0.11	ug/L		05/12/25 12:41	05/13/25 12:08	1

Lab Sample ID: LCS 310-454327/2-A
 Matrix: Water
 Analysis Batch: 454546

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 454327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.67	1.79		ug/L		108	80 - 120

Lab Sample ID: 310-305391-13 MS
 Matrix: Water
 Analysis Batch: 454546

Client Sample ID: MW-310
 Prep Type: Total/NA
 Prep Batch: 454327

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.11		1.67	1.81		ug/L		109	80 - 120

Lab Sample ID: 310-305391-13 MSD
 Matrix: Water
 Analysis Batch: 454546

Client Sample ID: MW-310
 Prep Type: Total/NA
 Prep Batch: 454327

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.11		1.67	1.81		ug/L		109	80 - 120	0	20

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 310-453772/25
 Matrix: Water
 Analysis Batch: 453772

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	1010		mg/L		101	86 - 111

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 310-453603/1
 Matrix: Water
 Analysis Batch: 453603

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			05/02/25 20:25	1

Lab Sample ID: LCS 310-453603/2
 Matrix: Water
 Analysis Batch: 453603

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

Lab Sample ID: 310-305391-4 DU
 Matrix: Water
 Analysis Batch: 453603

Client Sample ID: MW-303
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	780		766		mg/L		2	16

Lab Sample ID: MB 310-453604/1
 Matrix: Water
 Analysis Batch: 453604

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			05/02/25 20:31	1

Lab Sample ID: LCS 310-453604/2
 Matrix: Water
 Analysis Batch: 453604

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	960		mg/L		96	88 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 310-453326/1
 Matrix: Water
 Analysis Batch: 453326

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

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QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Method: SM 4500 H+ B - pH (Continued)

Lab Sample ID: 310-305391-14 DU
Matrix: Water
Analysis Batch: 453326

Client Sample ID: MW-311
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.3	HF	7.3		SU		0.2	20

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-716090/1-A
Matrix: Water
Analysis Batch: 720095

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716090

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226	0.009566	U	0.158	0.158	1.00	0.327	pCi/L	05/05/25 07:45	05/30/25 16:29	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Barium	88.6		30 - 110					05/05/25 07:45	05/30/25 16:29	1

Lab Sample ID: LCS 160-716090/2-A
Matrix: Water
Analysis Batch: 720095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716090

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium 226	9.58	9.231		1.25	1.00	0.318	pCi/L	96	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Barium	94.5		30 - 110						

Lab Sample ID: 310-305391-4 DU
Matrix: Water
Analysis Batch: 720095

Client Sample ID: MW-303
Prep Type: Total/NA
Prep Batch: 716090

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium 226	0.133	U	0.3783		0.229	1.00	0.271	pCi/L	0.61	1
Carrier	DU %Yield	DU Qualifier	Limits							
Barium	84.1		30 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-716091/1-A
Matrix: Water
Analysis Batch: 720095

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716091

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 228	0.004296	U	0.274	0.274	1.00	0.514	pCi/L	05/05/25 07:48	05/30/25 13:41	1

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QC Sample Results

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-716091/1-A
Matrix: Water
Analysis Batch: 720095

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 716091

Carrier	MB MB		Limits
	%Yield	Qualifier	
Barium	88.6		30 - 110
Y Carrier	85.6		30 - 110

Prepared	Analyzed	Dil Fac
05/05/25 07:48	05/30/25 13:41	1
05/05/25 07:48	05/30/25 13:41	1

Lab Sample ID: LCS 160-716091/2-A
Matrix: Water
Analysis Batch: 720095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 716091

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Radium 228	9.40	10.25		1.35	1.00	0.470	pCi/L	109	75 - 125	

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Barium	94.5		30 - 110
Y Carrier	82.2		30 - 110

Lab Sample ID: 310-305391-4 DU
Matrix: Water
Analysis Batch: 720095

Client Sample ID: MW-303
Prep Type: Total/NA
Prep Batch: 716091

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
										1
Radium 228	0.492	U	0.6968		0.412	1.00	0.582	pCi/L	0.27	1

Carrier	DU DU		Limits
	%Yield	Qualifier	
Barium	84.1		30 - 110
Y Carrier	77.0		30 - 110

QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
SDG: 25224066

HPLC/IC

Analysis Batch: 453886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305391-1	MW-301	Total/NA	Water	9056A	
310-305391-1	MW-301	Total/NA	Water	9056A	
310-305391-2	MW-302	Total/NA	Water	9056A	
310-305391-4	MW-303	Total/NA	Water	9056A	
310-305391-5	MW-304	Total/NA	Water	9056A	
310-305391-6	MW-305	Total/NA	Water	9056A	
310-305391-7	MW-306	Total/NA	Water	9056A	
310-305391-8	MW-307	Total/NA	Water	9056A	
310-305391-11	MW-308	Total/NA	Water	9056A	
310-305391-12	MW-309	Total/NA	Water	9056A	
310-305391-13	MW-310	Total/NA	Water	9056A	
310-305391-14	MW-311	Total/NA	Water	9056A	
310-305391-19	Field Blank	Total/NA	Water	9056A	
MB 310-453886/3	Method Blank	Total/NA	Water	9056A	
LCS 310-453886/4	Lab Control Sample	Total/NA	Water	9056A	
310-305391-1 MS	MW-301	Total/NA	Water	9056A	
310-305391-1 MS	MW-301	Total/NA	Water	9056A	
310-305391-1 MSD	MW-301	Total/NA	Water	9056A	
310-305391-1 MSD	MW-301	Total/NA	Water	9056A	

Metals

Prep Batch: 453420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305391-1	MW-301	Total/NA	Water	3005A	
310-305391-2	MW-302	Total/NA	Water	3005A	
310-305391-3	MW-302A	Total/NA	Water	3005A	
310-305391-5	MW-304	Total/NA	Water	3005A	
310-305391-6	MW-305	Total/NA	Water	3005A	
310-305391-7	MW-306	Total/NA	Water	3005A	
310-305391-8	MW-307	Total/NA	Water	3005A	
310-305391-9	MW-307A	Total/NA	Water	3005A	
310-305391-12	MW-309	Total/NA	Water	3005A	
310-305391-14	MW-311	Total/NA	Water	3005A	
310-305391-15	MW-312	Total/NA	Water	3005A	
310-305391-16	MW-313	Total/NA	Water	3005A	
310-305391-18	MW-313B	Total/NA	Water	3005A	
MB 310-453420/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-453420/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-305391-14 MS	MW-311	Total/NA	Water	3005A	
310-305391-14 MSD	MW-311	Total/NA	Water	3005A	
310-305391-15 DU	MW-312	Total/NA	Water	3005A	

Prep Batch: 453421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305391-4	MW-303	Total/NA	Water	3005A	
310-305391-10	MW-307B	Total/NA	Water	3005A	
310-305391-11	MW-308	Total/NA	Water	3005A	
310-305391-17	MW-313A	Total/NA	Water	3005A	
310-305391-19	Field Blank	Total/NA	Water	3005A	
MB 310-453421/1-A	Method Blank	Total/NA	Water	3005A	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Metals (Continued)

Prep Batch: 453421 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-453421/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 453426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305391-13	MW-310	Total/NA	Water	3005A	
MB 310-453426/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-453426/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 453657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305391-13	MW-310	Total/NA	Water	6020B	453426
MB 310-453426/1-A	Method Blank	Total/NA	Water	6020B	453426
LCS 310-453426/2-A	Lab Control Sample	Total/NA	Water	6020B	453426

Analysis Batch: 453796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305391-13	MW-310	Total/NA	Water	6020B	453426
MB 310-453426/1-A	Method Blank	Total/NA	Water	6020B	453426
LCS 310-453426/2-A	Lab Control Sample	Total/NA	Water	6020B	453426

Prep Batch: 454326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305391-1	MW-301	Total/NA	Water	7470A	
310-305391-2	MW-302	Total/NA	Water	7470A	
310-305391-4	MW-303	Total/NA	Water	7470A	
310-305391-5	MW-304	Total/NA	Water	7470A	
310-305391-6	MW-305	Total/NA	Water	7470A	
310-305391-7	MW-306	Total/NA	Water	7470A	
310-305391-8	MW-307	Total/NA	Water	7470A	
310-305391-11	MW-308	Total/NA	Water	7470A	
310-305391-12	MW-309	Total/NA	Water	7470A	
MB 310-454326/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-454326/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 454327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305391-13	MW-310	Total/NA	Water	7470A	
310-305391-14	MW-311	Total/NA	Water	7470A	
310-305391-19	Field Blank	Total/NA	Water	7470A	
MB 310-454327/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-454327/2-A	Lab Control Sample	Total/NA	Water	7470A	
310-305391-13 MS	MW-310	Total/NA	Water	7470A	
310-305391-13 MSD	MW-310	Total/NA	Water	7470A	

Analysis Batch: 454358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305391-1	MW-301	Total/NA	Water	6020B	453420
310-305391-2	MW-302	Total/NA	Water	6020B	453420
310-305391-3	MW-302A	Total/NA	Water	6020B	453420
310-305391-4	MW-303	Total/NA	Water	6020B	453421
310-305391-5	MW-304	Total/NA	Water	6020B	453420

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
SDG: 25224066

Metals (Continued)

Analysis Batch: 454358 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305391-6	MW-305	Total/NA	Water	6020B	453420
310-305391-7	MW-306	Total/NA	Water	6020B	453420
310-305391-8	MW-307	Total/NA	Water	6020B	453420
310-305391-9	MW-307A	Total/NA	Water	6020B	453420
310-305391-10	MW-307B	Total/NA	Water	6020B	453421
310-305391-11	MW-308	Total/NA	Water	6020B	453421
310-305391-12	MW-309	Total/NA	Water	6020B	453420
310-305391-14	MW-311	Total/NA	Water	6020B	453420
310-305391-15	MW-312	Total/NA	Water	6020B	453420
310-305391-16	MW-313	Total/NA	Water	6020B	453420
310-305391-17	MW-313A	Total/NA	Water	6020B	453421
310-305391-18	MW-313B	Total/NA	Water	6020B	453420
310-305391-19	Field Blank	Total/NA	Water	6020B	453421
MB 310-453420/1-A	Method Blank	Total/NA	Water	6020B	453420
MB 310-453421/1-A	Method Blank	Total/NA	Water	6020B	453421
LCS 310-453420/2-A	Lab Control Sample	Total/NA	Water	6020B	453420
LCS 310-453421/2-A	Lab Control Sample	Total/NA	Water	6020B	453421
310-305391-14 MS	MW-311	Total/NA	Water	6020B	453420
310-305391-14 MSD	MW-311	Total/NA	Water	6020B	453420
310-305391-15 DU	MW-312	Total/NA	Water	6020B	453420

Analysis Batch: 454361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305391-8	MW-307	Total/NA	Water	6020B	453420
310-305391-14	MW-311	Total/NA	Water	6020B	453420
MB 310-453420/1-A	Method Blank	Total/NA	Water	6020B	453420
MB 310-453421/1-A	Method Blank	Total/NA	Water	6020B	453421
LCS 310-453420/2-A	Lab Control Sample	Total/NA	Water	6020B	453420
LCS 310-453421/2-A	Lab Control Sample	Total/NA	Water	6020B	453421
310-305391-14 MS	MW-311	Total/NA	Water	6020B	453420
310-305391-14 MSD	MW-311	Total/NA	Water	6020B	453420

Analysis Batch: 454379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305391-1	MW-301	Total/NA	Water	6020B	453420
310-305391-2	MW-302	Total/NA	Water	6020B	453420
310-305391-4	MW-303	Total/NA	Water	6020B	453421
310-305391-5	MW-304	Total/NA	Water	6020B	453420
310-305391-6	MW-305	Total/NA	Water	6020B	453420
310-305391-7	MW-306	Total/NA	Water	6020B	453420
310-305391-11	MW-308	Total/NA	Water	6020B	453421
310-305391-12	MW-309	Total/NA	Water	6020B	453420
310-305391-19	Field Blank	Total/NA	Water	6020B	453421
MB 310-453421/1-A	Method Blank	Total/NA	Water	6020B	453421
LCS 310-453421/2-A	Lab Control Sample	Total/NA	Water	6020B	453421

Analysis Batch: 454546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305391-1	MW-301	Total/NA	Water	7470A	454326
310-305391-2	MW-302	Total/NA	Water	7470A	454326
310-305391-4	MW-303	Total/NA	Water	7470A	454326

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Metals (Continued)

Analysis Batch: 454546 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305391-5	MW-304	Total/NA	Water	7470A	454326
310-305391-6	MW-305	Total/NA	Water	7470A	454326
310-305391-7	MW-306	Total/NA	Water	7470A	454326
310-305391-8	MW-307	Total/NA	Water	7470A	454326
310-305391-11	MW-308	Total/NA	Water	7470A	454326
310-305391-12	MW-309	Total/NA	Water	7470A	454326
310-305391-13	MW-310	Total/NA	Water	7470A	454327
310-305391-14	MW-311	Total/NA	Water	7470A	454327
310-305391-19	Field Blank	Total/NA	Water	7470A	454327
MB 310-454326/1-A	Method Blank	Total/NA	Water	7470A	454326
MB 310-454327/1-A	Method Blank	Total/NA	Water	7470A	454327
LCS 310-454326/2-A	Lab Control Sample	Total/NA	Water	7470A	454326
LCS 310-454327/2-A	Lab Control Sample	Total/NA	Water	7470A	454327
310-305391-13 MS	MW-310	Total/NA	Water	7470A	454327
310-305391-13 MSD	MW-310	Total/NA	Water	7470A	454327

General Chemistry

Analysis Batch: 453326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305391-1	MW-301	Total/NA	Water	SM 4500 H+ B	
310-305391-2	MW-302	Total/NA	Water	SM 4500 H+ B	
310-305391-4	MW-303	Total/NA	Water	SM 4500 H+ B	
310-305391-5	MW-304	Total/NA	Water	SM 4500 H+ B	
310-305391-6	MW-305	Total/NA	Water	SM 4500 H+ B	
310-305391-7	MW-306	Total/NA	Water	SM 4500 H+ B	
310-305391-8	MW-307	Total/NA	Water	SM 4500 H+ B	
310-305391-11	MW-308	Total/NA	Water	SM 4500 H+ B	
310-305391-12	MW-309	Total/NA	Water	SM 4500 H+ B	
310-305391-13	MW-310	Total/NA	Water	SM 4500 H+ B	
310-305391-14	MW-311	Total/NA	Water	SM 4500 H+ B	
310-305391-19	Field Blank	Total/NA	Water	SM 4500 H+ B	
LCS 310-453326/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
310-305391-14 DU	MW-311	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 453603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305391-1	MW-301	Total/NA	Water	SM 2540C	
310-305391-2	MW-302	Total/NA	Water	SM 2540C	
310-305391-4	MW-303	Total/NA	Water	SM 2540C	
310-305391-5	MW-304	Total/NA	Water	SM 2540C	
310-305391-6	MW-305	Total/NA	Water	SM 2540C	
310-305391-7	MW-306	Total/NA	Water	SM 2540C	
310-305391-11	MW-308	Total/NA	Water	SM 2540C	
MB 310-453603/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-453603/2	Lab Control Sample	Total/NA	Water	SM 2540C	
310-305391-4 DU	MW-303	Total/NA	Water	SM 2540C	

Analysis Batch: 453604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305391-8	MW-307	Total/NA	Water	SM 2540C	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
SDG: 25224066

General Chemistry (Continued)

Analysis Batch: 453604 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305391-12	MW-309	Total/NA	Water	SM 2540C	
310-305391-13	MW-310	Total/NA	Water	SM 2540C	
310-305391-14	MW-311	Total/NA	Water	SM 2540C	
310-305391-19	Field Blank	Total/NA	Water	SM 2540C	
MB 310-453604/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-453604/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 453772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305391-16	MW-313	Total/NA	Water	SM 2320B	
LCS 310-453772/25	Lab Control Sample	Total/NA	Water	SM 2320B	

Rad

Prep Batch: 716090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305391-1	MW-301	Total/NA	Water	PrecSep-21	
310-305391-2	MW-302	Total/NA	Water	PrecSep-21	
310-305391-4	MW-303	Total/NA	Water	PrecSep-21	
310-305391-5	MW-304	Total/NA	Water	PrecSep-21	
310-305391-6	MW-305	Total/NA	Water	PrecSep-21	
310-305391-7	MW-306	Total/NA	Water	PrecSep-21	
310-305391-8	MW-307	Total/NA	Water	PrecSep-21	
310-305391-11	MW-308	Total/NA	Water	PrecSep-21	
310-305391-12	MW-309	Total/NA	Water	PrecSep-21	
310-305391-13	MW-310	Total/NA	Water	PrecSep-21	
310-305391-14	MW-311	Total/NA	Water	PrecSep-21	
310-305391-19	Field Blank	Total/NA	Water	PrecSep-21	
MB 160-716090/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-716090/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
310-305391-4 DU	MW-303	Total/NA	Water	PrecSep-21	

Prep Batch: 716091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305391-1	MW-301	Total/NA	Water	PrecSep_0	
310-305391-2	MW-302	Total/NA	Water	PrecSep_0	
310-305391-4	MW-303	Total/NA	Water	PrecSep_0	
310-305391-5	MW-304	Total/NA	Water	PrecSep_0	
310-305391-6	MW-305	Total/NA	Water	PrecSep_0	
310-305391-7	MW-306	Total/NA	Water	PrecSep_0	
310-305391-8	MW-307	Total/NA	Water	PrecSep_0	
310-305391-11	MW-308	Total/NA	Water	PrecSep_0	
310-305391-12	MW-309	Total/NA	Water	PrecSep_0	
310-305391-13	MW-310	Total/NA	Water	PrecSep_0	
310-305391-14	MW-311	Total/NA	Water	PrecSep_0	
310-305391-19	Field Blank	Total/NA	Water	PrecSep_0	
MB 160-716091/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-716091/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
310-305391-4 DU	MW-303	Total/NA	Water	PrecSep_0	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
SDG: 25224066

Field Service / Mobile Lab

Analysis Batch: 453667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305391-1	MW-301	Total/NA	Water	Field Sampling	
310-305391-2	MW-302	Total/NA	Water	Field Sampling	
310-305391-3	MW-302A	Total/NA	Water	Field Sampling	
310-305391-4	MW-303	Total/NA	Water	Field Sampling	
310-305391-5	MW-304	Total/NA	Water	Field Sampling	
310-305391-6	MW-305	Total/NA	Water	Field Sampling	
310-305391-7	MW-306	Total/NA	Water	Field Sampling	
310-305391-8	MW-307	Total/NA	Water	Field Sampling	
310-305391-9	MW-307A	Total/NA	Water	Field Sampling	
310-305391-10	MW-307B	Total/NA	Water	Field Sampling	
310-305391-11	MW-308	Total/NA	Water	Field Sampling	
310-305391-12	MW-309	Total/NA	Water	Field Sampling	
310-305391-13	MW-310	Total/NA	Water	Field Sampling	
310-305391-14	MW-311	Total/NA	Water	Field Sampling	
310-305391-15	MW-312	Total/NA	Water	Field Sampling	
310-305391-16	MW-313	Total/NA	Water	Field Sampling	
310-305391-17	MW-313A	Total/NA	Water	Field Sampling	
310-305391-18	MW-313B	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-301
Date Collected: 04/28/25 19:00
Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	453886	QTZ5	EET CF	05/05/25 10:37
Total/NA	Analysis	9056A		10	453886	QTZ5	EET CF	05/05/25 16:04
Total/NA	Prep	3005A			453420	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 17:20
Total/NA	Prep	3005A			453420	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		4	454379	NFT2	EET CF	05/11/25 18:03
Total/NA	Prep	7470A			454326	F5MW	EET CF	05/12/25 12:41
Total/NA	Analysis	7470A		1	454546	F5MW	EET CF	05/13/25 11:44
Total/NA	Analysis	SM 2540C		1	453603	MDU9	EET CF	05/02/25 20:25
Total/NA	Analysis	SM 4500 H+ B		1	453326	WZC8	EET CF	04/30/25 18:58
Total/NA	Prep	PrecSep-21			716090	OGC	EET SL	05/05/25 07:45
Total/NA	Analysis	903.0		1	720095	SWS	EET SL	05/30/25 16:29
Total/NA	Prep	PrecSep_0			716091	OGC	EET SL	05/05/25 07:48
Total/NA	Analysis	904.0		1	720095	SWS	EET SL	05/30/25 13:41
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 10:11
Total/NA	Analysis	Field Sampling		1	453667	FQT6	EET CF	04/28/25 19:00

Client Sample ID: MW-302
Date Collected: 04/29/25 10:05
Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	453886	QTZ5	EET CF	05/05/25 11:16
Total/NA	Prep	3005A			453420	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 17:25
Total/NA	Prep	3005A			453420	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	454379	NFT2	EET CF	05/11/25 18:06
Total/NA	Prep	7470A			454326	F5MW	EET CF	05/12/25 12:41
Total/NA	Analysis	7470A		1	454546	F5MW	EET CF	05/13/25 11:51
Total/NA	Analysis	SM 2540C		1	453603	MDU9	EET CF	05/02/25 20:25
Total/NA	Analysis	SM 4500 H+ B		1	453326	WZC8	EET CF	04/30/25 19:17
Total/NA	Prep	PrecSep-21			716090	OGC	EET SL	05/05/25 07:45
Total/NA	Analysis	903.0		1	720095	SWS	EET SL	05/30/25 16:29
Total/NA	Prep	PrecSep_0			716091	OGC	EET SL	05/05/25 07:48
Total/NA	Analysis	904.0		1	720095	SWS	EET SL	05/30/25 13:41
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 10:11
Total/NA	Analysis	Field Sampling		1	453667	FQT6	EET CF	04/29/25 10:05

Lab Chronicle

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-302A
Date Collected: 04/29/25 08:54
Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			453420	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 17:22
Total/NA	Analysis	Field Sampling		1	453667	FQT6	EET CF	04/29/25 08:54

Client Sample ID: MW-303
Date Collected: 04/28/25 17:44
Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	453886	QTZ5	EET CF	05/05/25 11:29
Total/NA	Prep	3005A			453421	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 16:23
Total/NA	Prep	3005A			453421	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		4	454379	NFT2	EET CF	05/11/25 17:37
Total/NA	Prep	7470A			454326	F5MW	EET CF	05/12/25 12:41
Total/NA	Analysis	7470A		1	454546	F5MW	EET CF	05/13/25 11:53
Total/NA	Analysis	SM 2540C		1	453603	MDU9	EET CF	05/02/25 20:25
Total/NA	Analysis	SM 4500 H+ B		1	453326	WZC8	EET CF	04/30/25 18:47
Total/NA	Prep	PrecSep-21			716090	OGC	EET SL	05/05/25 07:45
Total/NA	Analysis	903.0		1	720095	SWS	EET SL	05/30/25 16:30
Total/NA	Prep	PrecSep_0			716091	OGC	EET SL	05/05/25 07:48
Total/NA	Analysis	904.0		1	720095	SWS	EET SL	05/30/25 13:41
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 10:11
Total/NA	Analysis	Field Sampling		1	453667	FQT6	EET CF	04/28/25 17:44

Client Sample ID: MW-304
Date Collected: 04/28/25 16:37
Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	453886	QTZ5	EET CF	05/05/25 11:42
Total/NA	Prep	3005A			453420	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 16:56
Total/NA	Prep	3005A			453420	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	454379	NFT2	EET CF	05/11/25 17:52
Total/NA	Prep	7470A			454326	F5MW	EET CF	05/12/25 12:41
Total/NA	Analysis	7470A		1	454546	F5MW	EET CF	05/13/25 11:55
Total/NA	Analysis	SM 2540C		1	453603	MDU9	EET CF	05/02/25 20:25
Total/NA	Analysis	SM 4500 H+ B		1	453326	WZC8	EET CF	04/30/25 18:43
Total/NA	Prep	PrecSep-21			716090	OGC	EET SL	05/05/25 07:45
Total/NA	Analysis	903.0		1	720095	SWS	EET SL	05/30/25 16:30
Total/NA	Prep	PrecSep_0			716091	OGC	EET SL	05/05/25 07:48
Total/NA	Analysis	904.0		1	720095	SWS	EET SL	05/30/25 13:42
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 10:11

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-304
Date Collected: 04/28/25 16:37
Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	453667	FQT6	EET CF	04/28/25 16:37

Client Sample ID: MW-305
Date Collected: 04/29/25 11:57
Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	453886	QTZ5	EET CF	05/05/25 11:55
Total/NA	Prep	3005A			453420	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 17:01
Total/NA	Prep	3005A			453420	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	454379	NFT2	EET CF	05/11/25 17:54
Total/NA	Prep	7470A			454326	F5MW	EET CF	05/12/25 12:41
Total/NA	Analysis	7470A		1	454546	F5MW	EET CF	05/13/25 11:57
Total/NA	Analysis	SM 2540C		1	453603	MDU9	EET CF	05/02/25 20:25
Total/NA	Analysis	SM 4500 H+ B		1	453326	WZC8	EET CF	04/30/25 19:30
Total/NA	Prep	PrecSep-21			716090	OGC	EET SL	05/05/25 07:45
Total/NA	Analysis	903.0		1	720095	SWS	EET SL	05/30/25 16:30
Total/NA	Prep	PrecSep_0			716091	OGC	EET SL	05/05/25 07:48
Total/NA	Analysis	904.0		1	720095	SWS	EET SL	05/30/25 13:42
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 10:11
Total/NA	Analysis	Field Sampling		1	453667	FQT6	EET CF	04/29/25 11:57

Client Sample ID: MW-306
Date Collected: 04/29/25 13:40
Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	453886	QTZ5	EET CF	05/05/25 12:08
Total/NA	Prep	3005A			453420	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 17:08
Total/NA	Prep	3005A			453420	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	454379	NFT2	EET CF	05/11/25 17:57
Total/NA	Prep	7470A			454326	F5MW	EET CF	05/12/25 12:41
Total/NA	Analysis	7470A		1	454546	F5MW	EET CF	05/13/25 11:59
Total/NA	Analysis	SM 2540C		1	453603	MDU9	EET CF	05/02/25 20:25
Total/NA	Analysis	SM 4500 H+ B		1	453326	WZC8	EET CF	04/30/25 19:39
Total/NA	Prep	PrecSep-21			716090	OGC	EET SL	05/05/25 07:45
Total/NA	Analysis	903.0		1	720095	SWS	EET SL	05/30/25 16:30
Total/NA	Prep	PrecSep_0			716091	OGC	EET SL	05/05/25 07:48
Total/NA	Analysis	904.0		1	720095	SWS	EET SL	05/30/25 13:43
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 10:11
Total/NA	Analysis	Field Sampling		1	453667	FQT6	EET CF	04/29/25 13:40

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-307
Date Collected: 04/29/25 12:36
Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	453886	QTZ5	EET CF	05/05/25 12:48
Total/NA	Prep	3005A			453420	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 16:51
Total/NA	Prep	3005A			453420	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	454361	ZRI4	EET CF	05/10/25 14:53
Total/NA	Prep	7470A			454326	F5MW	EET CF	05/12/25 12:41
Total/NA	Analysis	7470A		1	454546	F5MW	EET CF	05/13/25 12:01
Total/NA	Analysis	SM 2540C		1	453604	MDU9	EET CF	05/02/25 20:31
Total/NA	Analysis	SM 4500 H+ B		1	453326	WZC8	EET CF	04/30/25 18:51
Total/NA	Prep	PrecSep-21			716090	OGC	EET SL	05/05/25 07:45
Total/NA	Analysis	903.0		1	720095	SWS	EET SL	05/30/25 16:31
Total/NA	Prep	PrecSep_0			716091	OGC	EET SL	05/05/25 07:48
Total/NA	Analysis	904.0		1	720095	SWS	EET SL	05/30/25 13:43
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 10:11
Total/NA	Analysis	Field Sampling		1	453667	FQT6	EET CF	04/29/25 12:36

Client Sample ID: MW-307A
Date Collected: 04/29/25 11:31
Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			453420	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 16:54
Total/NA	Analysis	Field Sampling		1	453667	FQT6	EET CF	04/29/25 11:31

Client Sample ID: MW-307B
Date Collected: 04/29/25 12:10
Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			453421	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 16:20
Total/NA	Analysis	Field Sampling		1	453667	FQT6	EET CF	04/29/25 12:10

Client Sample ID: MW-308
Date Collected: 04/28/25 14:35
Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	453886	QTZ5	EET CF	05/05/25 13:01
Total/NA	Prep	3005A			453421	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 16:25
Total/NA	Prep	3005A			453421	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		4	454379	NFT2	EET CF	05/11/25 17:40

Lab Chronicle

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-308
Date Collected: 04/28/25 14:35
Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			454326	F5MW	EET CF	05/12/25 12:41
Total/NA	Analysis	7470A		1	454546	F5MW	EET CF	05/13/25 12:03
Total/NA	Analysis	SM 2540C		1	453603	MDU9	EET CF	05/02/25 20:25
Total/NA	Analysis	SM 4500 H+ B		1	453326	WZC8	EET CF	04/30/25 19:34
Total/NA	Prep	PrecSep-21			716090	OGC	EET SL	05/05/25 07:45
Total/NA	Analysis	903.0		1	720095	SWS	EET SL	05/30/25 16:31
Total/NA	Prep	PrecSep_0			716091	OGC	EET SL	05/05/25 07:48
Total/NA	Analysis	904.0		1	720095	SWS	EET SL	05/30/25 13:43
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 10:11
Total/NA	Analysis	Field Sampling		1	453667	FQT6	EET CF	04/28/25 14:35

Client Sample ID: MW-309
Date Collected: 04/29/25 14:52
Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	453886	QTZ5	EET CF	05/05/25 13:14
Total/NA	Prep	3005A			453420	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 17:10
Total/NA	Prep	3005A			453420	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		4	454379	NFT2	EET CF	05/11/25 18:00
Total/NA	Prep	7470A			454326	F5MW	EET CF	05/12/25 12:41
Total/NA	Analysis	7470A		1	454546	F5MW	EET CF	05/13/25 12:06
Total/NA	Analysis	SM 2540C		1	453604	MDU9	EET CF	05/02/25 20:31
Total/NA	Analysis	SM 4500 H+ B		1	453326	WZC8	EET CF	04/30/25 18:55
Total/NA	Prep	PrecSep-21			716090	OGC	EET SL	05/05/25 07:45
Total/NA	Analysis	903.0		1	720095	SWS	EET SL	05/30/25 16:31
Total/NA	Prep	PrecSep_0			716091	OGC	EET SL	05/05/25 07:48
Total/NA	Analysis	904.0		1	720095	SWS	EET SL	05/30/25 13:44
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 10:11
Total/NA	Analysis	Field Sampling		1	453667	FQT6	EET CF	04/29/25 14:52

Client Sample ID: MW-310
Date Collected: 04/29/25 08:25
Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	453886	QTZ5	EET CF	05/05/25 13:27
Total/NA	Prep	3005A			453426	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	453657	NFT2	EET CF	05/02/25 18:49
Total/NA	Prep	3005A			453426	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	453796	NFT2	EET CF	05/05/25 14:08
Total/NA	Prep	7470A			454327	F5MW	EET CF	05/12/25 12:41
Total/NA	Analysis	7470A		1	454546	F5MW	EET CF	05/13/25 12:16

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-310
Date Collected: 04/29/25 08:25
Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	453604	MDU9	EET CF	05/02/25 20:31
Total/NA	Analysis	SM 4500 H+ B		1	453326	WZC8	EET CF	04/30/25 19:02
Total/NA	Prep	PrecSep-21			716090	OGC	EET SL	05/05/25 07:45
Total/NA	Analysis	903.0		1	720095	SWS	EET SL	05/30/25 16:31
Total/NA	Prep	PrecSep_0			716091	OGC	EET SL	05/05/25 07:48
Total/NA	Analysis	904.0		1	720095	SWS	EET SL	05/30/25 13:44
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 10:11
Total/NA	Analysis	Field Sampling		1	453667	FQT6	EET CF	04/29/25 08:25

Client Sample ID: MW-311
Date Collected: 04/29/25 09:50
Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	453886	QTZ5	EET CF	05/05/25 13:40
Total/NA	Prep	3005A			453420	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 16:39
Total/NA	Prep	3005A			453420	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	454361	ZRI4	EET CF	05/10/25 14:44
Total/NA	Prep	7470A			454327	F5MW	EET CF	05/12/25 12:41
Total/NA	Analysis	7470A		1	454546	F5MW	EET CF	05/13/25 12:23
Total/NA	Analysis	SM 2540C		1	453604	MDU9	EET CF	05/02/25 20:31
Total/NA	Analysis	SM 4500 H+ B		1	453326	WZC8	EET CF	04/30/25 19:22
Total/NA	Prep	PrecSep-21			716090	OGC	EET SL	05/05/25 07:45
Total/NA	Analysis	903.0		1	720103	SWS	EET SL	05/30/25 16:33
Total/NA	Prep	PrecSep_0			716091	OGC	EET SL	05/05/25 07:48
Total/NA	Analysis	904.0		1	720095	SWS	EET SL	05/30/25 13:44
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 10:11
Total/NA	Analysis	Field Sampling		1	453667	FQT6	EET CF	04/29/25 09:50

Client Sample ID: MW-312
Date Collected: 04/29/25 14:02
Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			453420	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 17:15
Total/NA	Analysis	Field Sampling		1	453667	FQT6	EET CF	04/29/25 14:02

Lab Chronicle

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Client Sample ID: MW-313
Date Collected: 04/28/25 17:56
Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			453420	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 17:13
Total/NA	Analysis	SM 2320B		1	453772	HE7K	EET CF	05/05/25 19:36
Total/NA	Analysis	Field Sampling		1	453667	FQT6	EET CF	04/28/25 17:56

Client Sample ID: MW-313A
Date Collected: 04/28/25 16:35
Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			453421	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 16:18
Total/NA	Analysis	Field Sampling		1	453667	FQT6	EET CF	04/28/25 16:35

Client Sample ID: MW-313B
Date Collected: 04/28/25 17:15
Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			453420	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 16:49
Total/NA	Analysis	Field Sampling		1	453667	FQT6	EET CF	04/28/25 17:15

Client Sample ID: Field Blank
Date Collected: 04/29/25 10:25
Date Received: 04/30/25 16:35

Lab Sample ID: 310-305391-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		1	453886	QTZ5	EET CF	05/05/25 13:53
Total/NA	Prep	3005A			453421	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	454358	ZRI4	EET CF	05/09/25 16:15
Total/NA	Prep	3005A			453421	QTZ5	EET CF	05/02/25 09:00
Total/NA	Analysis	6020B		1	454379	NFT2	EET CF	05/11/25 17:34
Total/NA	Prep	7470A			454327	F5MW	EET CF	05/12/25 12:41
Total/NA	Analysis	7470A		1	454546	F5MW	EET CF	05/13/25 12:25
Total/NA	Analysis	SM 2540C		1	453604	MDU9	EET CF	05/02/25 20:31
Total/NA	Analysis	SM 4500 H+ B		1	453326	WZC8	EET CF	04/30/25 19:07
Total/NA	Prep	PrecSep-21			716090	OGC	EET SL	05/05/25 07:45
Total/NA	Analysis	903.0		1	720103	SWS	EET SL	05/30/25 16:33
Total/NA	Prep	PrecSep_0			716091	OGC	EET SL	05/05/25 07:48
Total/NA	Analysis	904.0		1	720095	SWS	EET SL	05/30/25 13:44
Total/NA	Analysis	Ra226_Ra228 Pos		1	720380	FLC	EET SL	06/02/25 10:11

Lab Chronicle

Client: SCS Engineers
Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
SDG: 25224066

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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Accreditation/Certification Summary

Client: SCS Engineers
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

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
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

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	Combined Radium-226 and Radium-228	TAL-STL	EET SL
Pos			
Field Sampling	Field Sampling	EPA	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

- EPA = US Environmental Protection Agency
- None = None
- SM = "Standard Methods For The Examination Of Water And Wastewater"
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

- EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401
- EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



Environment Testing
America



310-305391 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information		
Client: <u>SCS</u>		
City/State: <u>Madison</u>	STATE: <u>WI</u>	Project:
Receipt Information		
Date/Time Received: <u>4/30/25</u>	TIME: <u>1635</u>	Received By: <u>XB</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____		
Condition of Cooler/Containers		
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID.
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>1</u> of <u>4</u>
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓
Temperature Record		
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE		
Thermometer ID: <u>2</u>	Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature		
Uncorrected Temp (°C): <u>1.6</u>	Corrected Temp (°C): <u>1.6</u>	
• Sample Container Temperature		
Container(s) used:	CONTAINER 1	CONTAINER 2
Uncorrected Temp (°C):		
Corrected Temp (°C):		
Exceptions Noted		
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No		
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No		
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No		
NOTE: If yes, contact PM before proceeding. If no, proceed with login.		
Additional Comments		



Environment Testing
America

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Cooler/Sample Receipt and Temperature Log Form

Client Information		
Client: <u>SCS</u>		
City/State: <u>MADISON</u> <u>WI</u>	Project:	
Receipt Information		
Date/Time Received: <u>4/30/25</u> <u>1635</u>	Received By: <u>XB</u>	
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____		
Condition of Cooler/Containers		
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>2</u> of <u>4</u>
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓
Temperature Record		
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE		
Thermometer ID: <u>2</u>	Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature		
Uncorrected Temp (°C): <u>0.4</u>	Corrected Temp (°C): <u>0.4</u>	
• Sample Container Temperature		
Container(s) used:	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>
Uncorrected Temp (°C):		
Corrected Temp (°C):		
Exceptions Noted		
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No		
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No		
NOTE If yes, contact PM before proceeding If no, proceed with login		
Additional Comments		



Environment Testing
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Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>SCS</u>			
City/State: <u>Madison</u>	<u>WI</u>	Project:	
Receipt Information			
Date/Time Received: <u>4/30/25</u>	<u>1635</u>	Received By: <u>XB</u>	
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID:	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>3</u> of <u>4</u>	
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>2</u>	Correction Factor (°C): <u>0</u>		
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>0.3</u>	Corrected Temp (°C): <u>0.3</u>		
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			



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Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>SCS</u>			
City/State: <u>Madison</u> <u>WI</u>		Project:	
Receipt Information			
Date/Time Received: <u>4/30/25</u> <u>1635</u>		Received By: <u>XB</u>	
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID:
Multiple Coolers?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>4</u> of <u>4</u>
Cooler Custody Seals Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>2</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>0.3</u>		Corrected Temp (°C): <u>0.3</u>	
• Sample Container Temperature			
Container(s) used:		<u>CONTAINER 1</u>	<u>CONTAINER 2</u>
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: N/A	Lab P.M.: Fredrick, Sandie	Carrier Tracking No(s): 310-82561.1						
Client Contact: Shipping/Receiving		Phone: N/A	E-Mail: Sandra.Fredrick@et.eurofins.com	Page: Page 1 of 2						
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Iowa		Job #: 310-305391-1						
Address: 13715 Rider Trail North,		Due Date Requested: 5/13/2025		Preservation Codes:						
City: Earth City		TAT Requested (days):								
State, Zip: MO, 63045		PO #: N/A								
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #: N/A								
Email: N/A		Project #: 31011020								
Project Name: Burlington Generating Station 25225066		SSOW#: N/A								
Site: N/A		Matrix (W=water, S=solid, O=water, BT=Tease, A=Air)								
		Sample Type (C=comp, G=grab)								
		Sample Time								
		Sample Date								
		Field Filtered Sample (Yes or No)								
		Perform MS/MSD (Yes or No)								
		903.0/PreSep_21 Radium-226 (GFPC)								
		904.0/PreSep_0 Radium-226 (GFPC)								
		Ra226 228GFPC_P/ Combined Radium-226 and Radium-228								
		Total Number of containers								
		Special Instructions/Note:								
MW-301 (310-305391-1)		4/28/25	19:00 Central	G	Water	X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-302 (310-305391-2)		4/29/25	10:05 Central	G	Water	X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-303 (310-305391-4)		4/29/25	17:44 Central	G	Water	X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-304 (310-305391-5)		4/28/25	16:37 Central	G	Water	X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-305 (310-305391-6)		4/29/25	11:57 Central	G	Water	X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-306 (310-305391-7)		4/29/25	13:40 Central	G	Water	X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-307 (310-305391-8)		4/29/25	12:36 Central	G	Water	X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-308 (310-305391-11)		4/28/25	14:35 Central	G	Water	X	X	X	2	DO NOT SHIP ON ICE TO ST. LOUIS
MW-309 (310-305391-12)		4/29/25	14:52 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/test/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 Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification

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

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: 5/1/25 1/25
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No
 Cooler Temperature(s) °C and Other Remarks:

Received by: M. Pinette
 Received by: Meadow Pinette
 Received by: _____
 Date/Time: MAY 02 2025 08:20
 Date/Time: _____
 Date/Time: _____
 Company
 Company
 Company



Client Information (Sub Contract Lab)		Sampler: N/A	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): N/A	COC No: 310-82561-2
Client Contact: Shipping/Receiving		Phone: N/A	E-Mail: Sandra.Fredrick@et.eurofins.com	State of Origin: Iowa	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Due Date Requested: 5/13/2025	Accreditations Required (See note): State Program - Iowa	Job #: 310-305391-1	Preservation Codes:
Address: 13745 Rider Trail North, Earth City, MO, 63045		TAT Requested (days): N/A	Field Filtered Sample (Yes or No)	Analysis Requested	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		PO #: N/A	Perform MS/MSD (Yes or No)	Total Number of Containers	
Email: N/A		WO #: N/A	903.0/PreSep_21 Radium-226 (GFPC)	Other: N/A	
Project #: 31011020		Project #: 31011020	904.0/PreSep_0 Radium-226 (GFPC)	Special Instructions/Note:	
Site: N/A		SSOW#: N/A	R226_228GFPC_P/Combined Radium-226 and	DO NOT SHIP ON ICE TO ST. LOUIS	
Burlington Generating Station 25225066		Sample Date	Matrix (W=Water, S=solid, O=water/oil, A=Air)	DO NOT SHIP ON ICE TO ST. LOUIS	
Sample Identification - Client ID (Lab ID)		Sample Time	Sample Type (C=Comp, G=grab)	DO NOT SHIP ON ICE TO ST. LOUIS	
MW-310 (310-305391-13)	4/29/25	08:25 Central	G	Water	2
MW-311 (310-305391-14)	4/29/25	09:50 Central	G	Water	2
Field Blank (310-305391-19)	4/29/25	10:25 Central	G	Water	2
<p>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/lists/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.</p>					
<p>Possible Hazard Identification</p> <p>Unconfirmed <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2</p> <p>Special Instructions/QC Requirements:</p>					
<p>Empty Kit Relinquished by: _____ Date: _____ Time: _____</p> <p>Relinquished by: _____ Date/Time: _____ Company: _____</p> <p>Relinquished by: _____ Date/Time: _____ Company: _____</p> <p>Relinquished by: _____ Date/Time: _____ Company: _____</p> <p>Custody Seals Intact: _____ Custody Seal No.: _____</p> <p> Cooler Temperature(s) °C and Other Remarks: _____</p>					



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-305391-1

SDG Number: 25224066

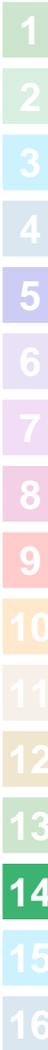
Login Number: 305391

List Number: 1

Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

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



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-305391-1

SDG Number: 25224066

Login Number: 305391

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 05/02/25 11:55 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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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
 Project/Site: Burlington Generating Station 25225066

Job ID: 310-305391-1
 SDG: 25224066

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	
310-305391-1	MW-301	83.6	
310-305391-2	MW-302	80.8	
310-305391-4	MW-303	94.3	
310-305391-4 DU	MW-303	84.1	
310-305391-5	MW-304	81.3	
310-305391-6	MW-305	77.6	
310-305391-7	MW-306	81.1	
310-305391-8	MW-307	84.3	
310-305391-11	MW-308	95.5	
310-305391-12	MW-309	91.0	
310-305391-13	MW-310	86.1	
310-305391-14	MW-311	90.8	
310-305391-19	Field Blank	79.9	
LCS 160-716090/2-A	Lab Control Sample	94.5	
MB 160-716090/1-A	Method Blank	88.6	

Tracer/Carrier Legend
 Ba = Barium

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	Y (30-110)
310-305391-1	MW-301	83.6	78.1
310-305391-2	MW-302	80.8	75.1
310-305391-4	MW-303	94.3	79.6
310-305391-4 DU	MW-303	84.1	77.0
310-305391-5	MW-304	81.3	78.5
310-305391-6	MW-305	77.6	77.8
310-305391-7	MW-306	81.1	78.5
310-305391-8	MW-307	84.3	71.0
310-305391-11	MW-308	95.5	81.1
310-305391-12	MW-309	91.0	78.1
310-305391-13	MW-310	86.1	74.4
310-305391-14	MW-311	90.8	80.0
310-305391-19	Field Blank	79.9	77.0
LCS 160-716091/2-A	Lab Control Sample	94.5	82.2
MB 160-716091/1-A	Method Blank	88.6	85.6

Tracer/Carrier Legend
 Ba = Barium
 Y = Y Carrier

Table 1. Groundwater Monitoring Results - Field Parameters
Burlington Generating Station / SCS Engineers Project #25225066.00
April 2025

Sample	Sample Date	Temperature (Deg. C)	pH (Std. Units)	Dissolved Oxygen (mg/L)	Specific Conductivity (µmhos/cm)	ORP (mV)	Turbidity	Groundwater Elevation (amsl)
MW-301	4/28/2025	14.3	6.65	0.40	2,455	-11.1	19.63	521.89
MW-302	4/29/2025	11.8	6.57	-0.08	988	79.7	17.12	522.14
MW-302A	4/29/2025	11.6	7.17	0.27	497.0	-96.3	6.82	522.07
MW-303	4/28/2025	12.9	6.76	-0.01	1,088	-77.1	11.74	522.21
MW-304	4/28/2025	14.9	7.03	0.05	899	-115.9	16.01	522.22
MW-305	4/29/2025	14.4	6.65	0.01	756	-43.2	10.27	522.28
MW-306	4/29/2025	11.6	8.94	0.13	596	-160.2	0.57	521.15
MW-307	4/29/2025	11.7	9.05	0.11	576	-316.3	1.97	522.13
MW-307A	4/29/2025	11.3	7.83	0.30	493.0	-188.6	1.61	523.64
MW-307B	4/29/2025	11.5	7.58	0.28	529.0	-157.8	1.05	522.22
MW-308	4/29/2025	12.8	7.63	0.10	1,032	-138.1	0.91	522.32
MW-309	4/29/2025	14.0	6.88	-0.05	942	-135.4	19.54	522.06
MW-310	4/29/2025	7.8	7.44	0.23	634	-173.6	1.61	523.24
MW-311	4/29/2025	11.6	7.14	0.18	1,262	-168.9	1.28	522.28
MW-312	4/29/2025	11.2	7.07	0.01	550	-108.6	7.29	522.43
MW-313	4/28/2025	10.5	7.15	0.04	574.9	-90.3	0.87	522.36
MW-313A	4/28/2025	10.2	7.50	0.00	438.7	-118.7	1.41	522.24
MW-313B	4/28/2025	9.9	7.48	0.01	496.8	-119.6	0.79	522.27

Abbreviations:

mg/L = milligrams per liter
mV = millivolts

amsl = above mean sea level
µmhos/cm = micromohs per cm

-- = Not Applicable
NM = not measured

Created by: MDB
Last revision by: BLJ
Checked by: RM

Date: 5/10/2023
Date: 4/30/2025
Date: 5/1/2025

C:\Users\FQT6\AppData\Local\Microsoft\Windows\NetCache\Content.Outlook\W2Q1E4CD\[2504 - BGS_CCR_Field.xlsx]GW Field Parameters



Appendix D
Historical Monitoring Summary

Single Location
Name: IPL - Burlington

Location ID: MW-301

Number of Sampling Dates: 27

Parameter Name	Units	4/20/2016	6/6/2016	8/16/2016	10/3/2016	1/10/2017	4/3/2017	6/12/2017	8/16/2017	10/16/2017	5/9/2018	8/13/2018	10/9/2018	3/12/2019	4/3/2019	10/10/2019	6/3/2020	10/16/2020	3/1/2021
Boron	ug/L	12400	10600	13100	10500	12000	14500	10500	14000	9900	9140	12800	8040	--	12000	8100	10000	12000	--
Calcium	mg/L	156	100	178	131	140	220	156	211	140	85.3	174	103	--	150	130	140	220	--
Chloride	mg/L	23.3	22.4	22.3	21.6	21.3	20.7	21.5	20.8	22	22.7	21.7	21.5	--	21	20	22	20	--
Fluoride	mg/L	0.55	0.29	0.43	0.3	0.37	0.36	0.23	0.45	0.27	0.36	0.52	0.26	--	0.77	<0.23	0.26	<0.23	--
Field pH	Std. Units	7.27	7.65	7.53	7.61	7.41	7.37	7.36	6.89	7.58	7.4	7.91	7.34	6.38	7.53	6.85	6.99	7.07	6.88
Sulfate	mg/L	193	170	206	378	385	215	511	327	454	188	187	358	--	190	390	250	170	--
Total Dissolved Solids	mg/L	782	630	857	729	816	1020	960	1190	780	568	960	656	--	890	690	910	970	--
Antimony	ug/L	0.062	0.12	0.13	0.073	<0.058	0.049	<0.026	0.2	--	<0.026	<0.15	0.08	--	<0.53	<0.53	<0.58	<0.51	--
Arsenic	ug/L	39.4	35	44.1	36.9	39.7	46.1	33.4	42.7	--	34.9	40.1	37.7	--	42	40	46	54	--
Barium	ug/L	381	239	406	294	343	464	380	479	--	198	420	276	--	380	320	330	500	--
Beryllium	ug/L	<0.08	<0.08	<0.08	<0.08	<0.08	0.046	<0.012	0.014	--	<0.012	<0.12	<0.089	--	<0.27	<0.27	<0.27	<0.27	--
Cadmium	ug/L	<0.029	<0.029	<0.029	<0.029	0.032	<0.018	<0.018	<0.018	--	0.04	<0.07	<0.033	--	<0.077	<0.039	<0.039	<0.049	--
Chromium	ug/L	0.67	0.38	0.56	<0.34	0.44	0.34	0.17	0.49	--	0.25	0.36	0.12	--	<0.98	<0.98	<1.1	<1.1	--
Cobalt	ug/L	0.64	<0.5	0.52	<0.5	<0.5	0.57	0.16	0.46	--	0.15	0.45	0.1	--	0.44	0.18	0.31	0.7	--
Lead	ug/L	0.31	<0.19	<0.19	<0.19	<0.19	0.091	0.12	0.23	--	0.17	0.13	<0.13	--	<0.27	<0.27	<0.27	<0.11	--
Lithium	ug/L	10.3	11.7	<4.9	22.8	20.1	13.2	29.4	18.2	--	17.8	18.9	24.5	--	13	26	16	10	--
Mercury	ug/L	<0.046	<0.039	<0.039	<0.039	<0.055	<0.046	<0.046	<0.046	--	<0.09	--	<0.09	--	<0.1	--	<0.1	<0.1	--
Molybdenum	ug/L	108	116	94.5	114	113	82.8	116	98.5	--	113	81.7	120	62.7	77	130	110	67	--
Selenium	ug/L	0.34	<0.18	0.29	<0.18	<0.18	0.4	0.1	0.35	--	0.25	0.28	0.13	--	<1	<1	<1	<1	--
Thallium	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.08	0.08	0.059	--	<0.036	--	<0.099	--	<0.27	--	<0.26	--	--
Total Radium	pCi/L	1.33	0.933	2.03	0.643	0.512	1.16	1.86	1.81	--	0.712	1.15	1.5	--	1.15	1.03	0.928/0.928	1	--
Radium-226	pCi/L	0.6	0.144	0.367	0	0.0709	0.347	0.901	1.14	--	0.712	0.693	0.534	--	0.411	0.498	0.553/0.553	0.57	--
Radium-228	pCi/L	0.729	0.789	1.66	0.643	0.441	0.817	0.954	0.671	--	-0.016	0.459	0.966	--	0.736	0.527	<0.411/0.376	0.43	--
Collected By		--	0	0	--	0	0	0	0	0	--	--	--	0	--	--	--	--	--
Field Oxidation Potential	mV	-135.3	-110.7	-162.3	-156.4	-146.1	-164.7	-89.6	-90.4	38	-167.1	-145	-63.5	-73.1	-144.7	-162.9	37.1	-187.5	-176.6
Field Specific Conductance	umhos/cm	898	1702	2499	1776	1985	2507	859	1925	1065	600.8	1400	892	1055	1213	1063	1167	1503	1562
Field Temperature	deg C	12.6	13.2	13.5	14.1	13.6	12.9	13	13.8	13.8	12.9	16.8	17.2	12.56	12.35	13.9	13.4	13.7	12.2
Groundwater Elevation	feet	522.63	521.07	521.81	527.48	525.38	523.08	523.21	519.96	522.13	525.51	520.19	528.01	523.38	528.15	--	523.94	519.26	521.1
Oxygen, Dissolved	mg/L	0.09	1.12	0.11	0.5	0.1	0.12	0.17	0.05	0.12	0.08	0.35	0.24	2.61	0.59	0.23	0.25	0.09	0.16
Turbidity	NTU	10.49	1	0.51	0.54	0.9	1.12	2.02	0.4	1.26	4.23	5.78	8.43	17.1	21.1	12.55	20.15	3.41	3.5
Collected Date		--	--	--	--	--	--	--	--	--	--	--	--	3	--	--	--	--	--
Collected Time		--	--	--	--	--	--	--	--	--	--	--	--	937	--	--	--	--	--
pH at 25 Degrees C	Std. Units	7	7.1	7	7.2	7.2	7.4	6.9	7.1	7.2	7.2	7.2	7	--	7	7.1	7	7.8	--
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	760	800
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<3.8	<4.6
Iron, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	34000	41000
Manganese, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13000	13000
Molybdenum, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	66	41
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	760	800
Iron, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	34000	40000
Magnesium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	63000	68000
Manganese, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12000	13000
Potassium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4100	4000
Sodium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	45000	50000
Lithium, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Single Location
Name: IPL - Burlington

Location ID: MW-301

Number of Sampling Dates: 27

Parameter Name	Units	4/19/2021	10/13/2021	4/6/2022	4/26/2023	8/3/2023	10/3/2023	4/24/2024	10/23/2024	4/28/2025
Boron	ug/L	9600	7300	11000	5100	5600	5200	5600	5300	5600
Calcium	mg/L	240	260	260	200	160	150	180	200	240
Chloride	mg/L	18	19	19	26	16	15	15	17	15
Fluoride	mg/L	0.58	<0.28	<0.22	<1.5	<0.38	0.38	<0.38	<0.38	<0.38
Field pH	Std. Units	7.03	7.01	6.96	6.83	6.87	6.76	6.63	6.7	6.65
Sulfate	mg/L	240	630	550	910	810	770	930	730	970
Total Dissolved Solids	mg/L	1200	1500	1300	1900	1600	1600	1700	1600	1900
Antimony	ug/L	<1.1	<1.1	<0.69	<4	<1	<1	<1	<1	<1
Arsenic	ug/L	61	66	80	2.1	9.8	3.8	7.1	6.3	6.1
Barium	ug/L	560	170	190	67	79	33	38	38	43
Beryllium	ug/L	<0.27	<0.27	<0.27	<1.3	<0.33	<0.33	<0.33	<0.33	<0.33
Cadmium	ug/L	0.066	0.098	0.19	0.54	0.12	<0.1	<0.1	<0.1	<0.1
Chromium	ug/L	<1.1	<1.1	<1.1	<4.4	<1.1	<1.1	<1.2	<1.2	<1.8
Cobalt	ug/L	0.81	0.74	0.7	4.8	8.8	12	10	8.4	8.8
Lead	ug/L	<0.21	<0.21	<0.24	<0.96	0.51	<0.24	<0.26	<0.26	<0.33
Lithium	ug/L	10	11	12	<10	11	13	14	16	15
Mercury	ug/L	<0.15	--	<0.11	<0.14	<0.14	<0.14	<0.11	<0.11	<0.11
Molybdenum	ug/L	46	47	55	29	73	65	64	59	49
Selenium	ug/L	1.3	0.97	<0.96	<5.6	<5.6	<1.4	<1.4	<1.4	<1.4
Thallium	ug/L	1	<0.26	<0.26	<1	1.5	<0.26	<0.57	<0.57	<0.57
Total Radium	pCi/L	1.02	0.97	1.69	0.0545	--	0.154	0.2	0.135	0.709
Radium-226	pCi/L	0.774	0.406	0.719	0.00695	--	0.012	0.0765	-0.0437	0.03
Radium-228	pCi/L	0.247	0.564	0.973	0.0475	--	0.142	0.124	0.135	0.679
Collected By		--	--	--	--	--	--	--	--	--
Field Oxidation Potential	mV	-162.4	-142.8	-156.9	48.6	-41.4	-90.4	-62.8	-63	-11.1
Field Specific Conductance	umhos/cm	1760	1858	1982	2584	2261	2278	2450	2505	2455
Field Temperature	deg C	12.3	13.6	12.3	11.7	12.2	12.9	12.1	13.6	14.3
Groundwater Elevation	feet	522.87	519.4	522.99	524.21	518.33	518.33	521.23	518.38	521.89
Oxygen, Dissolved	mg/L	1.61	0.17	0.13	0.2	0.14	0.35	0.21	0.42	0.4
Turbidity	NTU	3.82	14.1	21	9.39	34.67	5.9	16.54	8.77	19.63
Collected Date		--	--	--	--	--	--	--	--	--
Collected Time		--	--	--	--	--	--	--	--	--
pH at 25 Degrees C	Std. Units	7.1	7	7.1	7	7.1	7.8	6.9	6.9	7.3
Bicarbonate Alkalinity as CaCO3	mg/L	720	650	740	--	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	<4.6	<4.6	<4.6	--	--	--	--	--	--
Iron, dissolved	ug/L	39000	39000	40000	340	--	--	--	--	--
Manganese, dissolved	ug/L	14000	16000	22000	--	--	--	--	--	--
Molybdenum, dissolved	ug/L	44	49	53	--	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	720	650	740	--	--	--	--	--	--
Iron, total	ug/L	41000	38000	43000	--	5800	8200	18000	18000	20000
Magnesium, total	ug/L	75000	72000	78000	--	--	--	--	--	--
Manganese, total	ug/L	15000	15000	19000	--	--	--	--	--	--
Potassium, total	ug/L	3700	3300	3700	--	--	--	--	--	--
Sodium, total	ug/L	63000	110000	130000	--	--	--	--	--	--
Lithium, dissolved	ug/L	--	10	13	--	--	--	--	--	--

Single Location
Name: IPL - Burlington

Location ID: MW-302
 Number of Sampling Dates: 28

Parameter Name	Units	4/20/2016	6/6/2016	8/16/2016	10/3/2016	1/10/2017	4/3/2017	6/12/2017	8/15/2017	10/17/2017	5/9/2018	8/13/2018	10/9/2018	3/12/2019	4/3/2019	10/10/2019	6/3/2020	10/16/2020	3/1/2021
Boron	ug/L	8570	8400	9050	9500	9590	10100	10700	9450	10000	10200	10000	10400	--	12000	11000	13000	11000	--
Calcium	mg/L	242	243	231	251	225	232	216	225	231	231	210	219	--	220	220	210	200	--
Chloride	mg/L	18.3	15.2	16.1	15.4	15.2	16.6	15	15.7	16.4	14.1	14.7	13.5	--	13	11	12	10	--
Fluoride	mg/L	0.11	<0.073	0.08	0.086	<0.027	<0.1	<0.1	<0.1	0.11	0.11	<0.063	<0.19	--	0.37	<0.23	<0.23	<0.23	--
Field pH	Std. Units	8.17	8.06	8.3	8.24	8.22	8.71	8.06	8.38	8.72	8.19	9.32	7.89	6.94	8.7	7.49	7.88	7.87	7.95
Sulfate	mg/L	666	525	669	579	536	540	552	512	541	553	542	658	--	510	510	490	460	--
Total Dissolved Solids	mg/L	1040	1140	988	977	969	945	937	989	951	1080	1000	1030	--	1000	960	1000	910	--
Antimony	ug/L	0.14	0.15	<0.058	0.096	<0.058	0.043	0.04	0.16	--	<0.026	<0.15	0.082	--	<0.53	<0.53	<0.58	<0.51	--
Arsenic	ug/L	71.3	68.4	64.1	73.5	64.9	49.1	72	58.5	--	56.2	49.6	76.4	--	53	73	110	76	--
Barium	ug/L	430	476	361	446	355	356	370	348	--	363	340	180	--	320	260	340	250	--
Beryllium	ug/L	<0.08	<0.08	<0.08	<0.08	<0.08	0.023	<0.012	0.012	--	<0.012	<0.12	<0.089	--	<0.27	<0.27	<0.27	<0.27	--
Cadmium	ug/L	0.043	<0.029	<0.029	<0.029	<0.029	<0.018	0.021	<0.018	--	0.037	<0.07	0.04	--	<0.077	<0.039	0.045	0.11	--
Chromium	ug/L	<0.34	<0.34	0.45	<0.34	0.46	0.15	0.11	0.31	--	0.22	0.33	0.097	--	<0.98	<0.98	<1.1	<1.1	--
Cobalt	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.19	0.24	0.24	--	0.19	0.15	0.18	--	0.19	0.23	0.21	0.26	--
Lead	ug/L	0.21	<0.19	<0.19	<0.19	<0.19	0.058	0.064	0.22	--	0.17	<0.12	<0.13	--	0.58	<0.27	<0.27	0.17	--
Lithium	ug/L	60.5	69.6	37.6	64.2	62.6	57.3	60.7	56.9	--	65.4	61.4	57.8	59.9	56	57	55	64	--
Mercury	ug/L	<0.046	<0.039	<0.039	<0.039	<0.055	<0.046	<0.046	<0.046	--	<0.09	--	<0.09	--	<0.1	--	<0.1	<0.1	--
Molybdenum	ug/L	85.8	84.4	92.5	105	104	105	131	113	--	118	121	122	123	100	100	140	130	--
Selenium	ug/L	0.3	0.22	0.27	0.2	<0.18	0.24	0.23	0.24	--	0.25	0.22	0.23	--	<1	<1	<1	1.1	--
Thallium	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.04	0.078	0.41	--	<0.036	--	<0.099	--	<0.27	--	<0.26	--	--
Total Radium	pCi/L	1.82	1.11	0.202	1.24	1.59	1.13	1.84	1.2	--	1.51	1.53	2.15	--	0.872	0.644	0.626/0.626	0.245	--
Radium-226	pCi/L	0	0.392	0	0.803	0.604	0.639	0.713	0.238	--	0.621	0.443	1.1	--	0.362	0.374	0.263/0.263	0.245	--
Radium-228	pCi/L	1.82	0.715	0.202	0.439	0.987	0.494	1.13	0.962	--	0.886	1.09	1.05	--	0.51	0.27	<0.394/0.363	-0.113	--
Collected By		--	0	0	--	0	0	0	0	0	--	--	--	0	--	--	--	--	--
Field Oxidation Potential	mV	-181.1	-147	-167.1	-194.3	-182.6	-227.8	-154.4	-179.2	-49.7	-217.2	-237	-198	-70.3	-215.8	-186.8	36.7	-237.1	-236.9
Field Specific Conductance	umhos/cm	1032	2053	34.4	2202	2167	2037	833	1752	1165	1268	1226	1334	792	1164	1249	1245	1168	1101
Field Temperature	deg C	12.7	12.7	13.6	13.8	13.7	13.2	12.94	13.7	13.9	13	14.9	15.2	12.16	11.41	14.46	12.9	12.9	12.3
Groundwater Elevation	feet	521.91	521.21	521.35	527.54	525.5	522.84	522.84	519.39	522.2	525.81	519.87	528.08	522.83	528.21	--	523.98	518.94	520.21
Oxygen, Dissolved	mg/L	0.1	0.8	9.35	0.39	0.21	0.12	0.13	0.18	0.09	1	0.15	0.3	2.68	0.58	0.28	0.18	0.08	0.11
Turbidity	NTU	10.65	2.56	0.19	1.36	0.47	1.99	0.59	0.25	2.04	2.25	3.75	6.48	22.1	18.8	1.16	25.27	0.07	2.7
Collected Date		--	--	--	--	--	--	--	--	--	--	--	--	3	--	--	--	--	--
Collected Time		--	--	--	--	--	--	--	--	--	--	--	--	1028	--	--	--	--	--
pH at 25 Degrees C	Std. Units	7.8	7.8	7.6	7.8	7.9	8	7.6	7.8	8	7.9	8	7.7	--	8.1	7.7	7.6	8.2	--
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	240	190
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<3.8	<4.2
Iron, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3200	2000
Manganese, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1600	1300
Molybdenum, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	120	130
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	240	190
Iron, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2900	2400
Magnesium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18000	15000
Manganese, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1400	1300
Potassium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12000	13000
Sodium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	24000	27000
Lithium, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	64	66

Single Location
Name: IPL - Burlington

Location ID: MW-302

Number of Sampling Dates: 28

Parameter Name	Units	4/19/2021	10/12/2021	2/22/2022	4/5/2022	4/26/2023	8/1/2023	10/3/2023	4/24/2024	10/23/2024	4/29/2025
Boron	ug/L	11000	10000	--	11000	5600	4600	1600	2000	3600	1700
Calcium	mg/L	200	160	--	190	370	250	120	170	280	140
Chloride	mg/L	10	12	--	12	21	22	3.8	13	10	12
Fluoride	mg/L	<0.28	<0.28	--	<0.22	<1.5	<0.38	<0.38	<0.38	1.7	<0.38
Field pH	Std. Units	8.15	8.28	8.16	8.05	6.11	6.31	6.65	6.53	6.46	6.57
Sulfate	mg/L	410	280	--	310	1300	750	220	390	730	310
Total Dissolved Solids	mg/L	860	680	--	770	1900	1100	530	780	1400	710
Antimony	ug/L	<1.1	<1.1	--	<0.69	<1	<1	<1	<1	<1	<1
Arsenic	ug/L	75	100	94	86	3.1	15	3.8	4.6	6.7	5.6
Barium	ug/L	320	270	--	320	38	54	74	53	45	39
Beryllium	ug/L	<0.27	<0.27	--	<0.27	1.1	<0.33	<0.33	<0.33	<0.33	<0.33
Cadmium	ug/L	0.089	0.12	--	0.055	0.89	0.36	0.19	<0.1	<0.1	0.12
Chromium	ug/L	<1.1	<1.1	--	<1.1	<1.1	<1.1	<1.1	<1.2	<1.2	<1.8
Cobalt	ug/L	0.21	0.27	--	0.21	78	41	7.6	6.6	9	2.4
Lead	ug/L	<0.21	<0.21	--	<0.24	0.37	0.77	<0.24	<0.26	<0.26	<0.33
Lithium	ug/L	64	64	--	78	66	51	40	49	81	53
Mercury	ug/L	<0.15	--	--	<0.11	<0.14	<0.14	<0.14	<0.11	<0.11	<0.11
Molybdenum	ug/L	130	91	--	89	26	58	180	210	150	200
Selenium	ug/L	1.4	<0.96	--	<0.96	<5.6	2.3	<1.4	<1.4	<1.4	<1.4
Thallium	ug/L	1.2	<0.26	--	1.8	<1	<0.26	<0.26	<0.57	<0.57	<0.57
Total Radium	pCi/L	0.906	1.22	--	0.687	0.438	--	0.233	0.797	1.05	0.405
Radium-226	pCi/L	0.493	0.605	--	0.401	0.106	--	0.0945	0.12	0.154	0.14
Radium-228	pCi/L	0.413	0.611	--	0.286	0.332	--	0.138	0.677	0.896	0.265
Collected By		--	--	--	--	--	--	--	--	--	--
Field Oxidation Potential	mV	-225.8	-193.7	207.4	-198.6	21.4	4.5	-53.4	-20.1	-71.4	79.7
Field Specific Conductance	umhos/cm	1169	1043	1082	989	2283	1535	797	1126	1501	988
Field Temperature	deg C	12	13.8	12.5	12.3	12.4	11	12.6	11.3	12.1	11.8
Groundwater Elevation	feet	522.27	518.75	519.03	522.34	525.56	518.19	518.19	520.85	517.99	522.14
Oxygen, Dissolved	mg/L	0.07	0.18	0.13	0.07	0.1	0.04	0.1	0.21	0.09	-0.08
Turbidity	NTU	4.07	31.2	2.1	9	7.19	18.62	6.25	14.5	2.19	17.12
Collected Date		--	--	--	--	--	--	--	--	--	--
Collected Time		--	--	--	--	--	--	--	--	--	--
pH at 25 Degrees C	Std. Units	8.2	7.9	--	8.1	6.2	6.4	7.7	6.8	6.7	7.1
Bicarbonate Alkalinity as CaCO3	mg/L	220	560	--	310	--	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	<4.6	<4.6	--	<4.6	--	--	--	--	--	--
Iron, dissolved	ug/L	1600	2900	--	1300	3700	--	--	--	--	--
Manganese, dissolved	ug/L	1100	1700	--	1000	--	--	--	--	--	--
Molybdenum, dissolved	ug/L	120	110	--	89	--	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	220	560	--	310	--	--	--	--	--	--
Iron, total	ug/L	2000	3600	--	1200	--	19000	3400	8800	28000	9300
Magnesium, total	ug/L	15000	17000	--	14000	--	--	--	--	--	--
Manganese, total	ug/L	1200	1700	--	930	--	--	--	--	--	--
Potassium, total	ug/L	13000	12000	--	14000	--	--	--	--	--	--
Sodium, total	ug/L	30000	28000	--	33000	--	--	--	--	--	--
Lithium, dissolved	ug/L	59	63	--	80	--	--	--	--	--	--

Single Location
Name: IPL - Burlington

Location ID: MW-302A
 Number of Sampling Dates: 13

Parameter Name	Units	9/9/2020	10/16/2020	3/1/2021	4/19/2021	10/12/2021	4/5/2022	10/20/2022	4/26/2023	8/1/2023	10/3/2023	4/24/2024	10/23/2024	4/29/2025
Boron	ug/L	11000	11000	--	9400	9000	15000	1600	--	--	--	--	--	--
Calcium	mg/L	120	130	--	140	140	160	160	--	--	--	--	--	--
Chloride	mg/L	27	23	--	17	20	21	13	--	--	--	--	--	--
Fluoride	mg/L	<0.23	<0.23	--	<0.28	<0.28	<0.22	<0.22	--	--	--	--	--	--
Field pH	Std. Units	7.31	7.26	7.2	7.34	7.69	7.25	7.09	7.52	7.78	7.11	7.2	7.1	7.17
Sulfate	mg/L	340	330	--	310	410	450	170	--	--	--	--	--	--
Total Dissolved Solids	mg/L	730	710	--	710	780	910	630	--	--	--	--	--	--
Antimony	ug/L	<0.51	1.7	--	<1.1	<1.1	<0.69	<0.69	--	--	--	--	--	--
Arsenic	ug/L	2.9	2.9	--	2.1	1.7	3	2.3	--	--	--	--	--	--
Barium	ug/L	270	280	--	310	230	310	420	--	--	--	--	--	--
Beryllium	ug/L	<0.27	<0.27	--	<0.27	<0.27	<0.27	<0.27	--	--	--	--	--	--
Cadmium	ug/L	<0.049	0.065	--	<0.051	<0.051	0.087	<0.055	--	--	--	--	--	--
Chromium	ug/L	<1.1	<1.1	--	<1.1	<1.1	<1.1	<1.1	--	--	--	--	--	--
Cobalt	ug/L	0.12	0.11	--	0.11	<0.19	0.2	<0.19	--	--	--	--	--	--
Lead	ug/L	0.11	<0.11	--	<0.21	<0.21	<0.24	<0.24	--	--	--	--	--	--
Lithium	ug/L	11	11	11	9.6	12	22	13	<2.5	3.3	4.6	5.7	6.4	6.3
Mercury	ug/L	<0.1	<0.1	--	<0.15	--	<0.11	<0.11	--	--	--	--	--	--
Molybdenum	ug/L	120	110	87	95	93	120	36	3.4	7.4	8.5	12	14	18
Selenium	ug/L	<1	<1	--	<0.96	<0.96	<0.96	<0.96	--	--	--	--	--	--
Thallium	ug/L	<0.26	--	--	<0.26	<0.26	<0.26	<0.26	--	--	--	--	--	--
Total Radium	pCi/L	1.15	0.785	--	1.4	2.08	2.14	2.65	--	--	--	--	--	--
Radium-226	pCi/L	0.421	-0.0548	--	0.641	0.854	0.694	0.82	--	--	--	--	--	--
Radium-228	pCi/L	0.727	0.785	--	0.755	1.22	1.45	1.83	--	--	--	--	--	--
Field Oxidation Potential	mV	-142	-175.3	-165.6	-150.2	-115.3	-153.2	-115	-98.2	-151.4	-46.7	-103.2	-124.8	-96.3
Field Specific Conductance	umhos/cm	1013	951	975	1026	1124	1108	1090	466.9	458.3	467.3	489.9	461.2	497
Field Temperature	deg C	13.3	13.1	12.5	12.7	13.6	12.7	16.7	7.9	8.3	13.9	10.6	11.1	11.6
Groundwater Elevation	feet	519.71	518.79	520.14	522.25	518.64	522.28	506.87	525.51	518.09	518.12	520.78	517.97	522.07
Oxygen, Dissolved	mg/L	0.27	0.19	0.16	0.18	0.26	0.12	0	0.37	0.29	0.46	0.36	0.07	0.27
Turbidity	NTU	0.01	3.82	0.48	2.94	11.2	5	5	0.02	4.13	8.28	13.13	3.55	6.82
pH at 25 Degrees C	Std. Units	7.4	8	--	7.4	7.3	7.3	7.1	--	--	--	--	--	--
Bicarbonate Alkalinity as CaCO3	mg/L	--	150	180	190	200	250	430	--	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	--	<3.8	<4.2	<2.3	<4.6	<4.6	<4.6	--	--	--	--	--	--
Iron, dissolved	ug/L	--	8600	8600	7500	6600	8400	11000	2800	--	--	--	--	--
Manganese, dissolved	ug/L	--	3800	3500	3500	3300	3800	3700	--	--	--	--	--	--
Molybdenum, dissolved	ug/L	--	120	90	89	99	120	36	--	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	150	180	190	200	250	430	--	--	--	--	--	--
Iron, total	ug/L	--	8400	8300	8000	6900	8800	11000	--	4000	3900	4000	4500	5300
Magnesium, total	ug/L	--	28000	32000	34000	33000	34000	33000	--	--	--	--	--	--
Manganese, total	ug/L	--	3600	3300	3600	3500	4000	4300	--	--	--	--	--	--
Potassium, total	ug/L	--	3600	3600	3500	3600	4400	6900	--	--	--	--	--	--
Sodium, total	ug/L	--	34000	32000	33000	51000	70000	14000	--	--	--	--	--	--
Lithium, dissolved	ug/L	--	--	12	9.1	12	21	14	--	--	--	--	--	--

Single Location
Name: IPL - Burlington

Location ID: MW-303
 Number of Sampling Dates: 27

Parameter Name	Units	4/20/2016	6/6/2016	8/16/2016	10/3/2016	1/10/2017	4/3/2017	6/12/2017	8/15/2017	10/17/2017	5/9/2018	8/13/2018	10/10/2018	3/12/2019	4/3/2019	10/10/2019	6/3/2020	10/16/2020	3/1/2021
Boron	ug/L	25800	27500	26700	26100	25400	28800	26600	24100	25400	22900	24500	24500	--	22000	21000	23000	19000	--
Calcium	mg/L	86.3	79.9	81.3	87.8	71.2	88.6	105	79.4	84.5	87	85.9	87.8	--	86	91	120	120	--
Chloride	mg/L	17	16	16.3	16.1	14.4	15.2	17.3	15.3	15.3	15.1	15.7	16.3	--	15	16	18	17	--
Fluoride	mg/L	0.43	0.16	0.28	0.28	0.18	0.2	0.22	0.24	0.25	0.22	0.44	0.27	--	0.43	<0.23	0.27	<0.23	--
Field pH	Std. Units	7.39	7.48	7.57	7.56	7.64	7.57	7.24	6.97	8.59	7.51	8.03	7.1	6.46	7.79	7.13	7.12	7.19	7.15
Sulfate	mg/L	34.6	23.3	14.8	6.6	34.1	24.1	3.9	46	42.1	128	78.7	31.8	--	120	84	100	190	--
Total Dissolved Solids	mg/L	450	441	440	447	404	454	557	434	436	502	520	462	--	540	420	640	630	--
Antimony	ug/L	0.55	0.12	<0.058	0.09	<0.058	0.029	<0.026	0.13	--	<0.026	<0.15	<0.078	--	<0.53	<0.53	<0.58	0.57	--
Arsenic	ug/L	38.6	26.5	44.5	33	12.8	21.7	48.1	30.9	--	7.9	52	29.8	--	6.4	17	18	14	--
Barium	ug/L	361	250	230	237	267	334	386	281	--	412	354	415	--	440	440	610	480	--
Beryllium	ug/L	0.9	<0.08	<0.08	<0.08	<0.08	0.019	0.018	0.02	--	<0.012	<0.12	<0.089	--	<0.27	<0.27	<0.27	<0.27	--
Cadmium	ug/L	0.58	<0.029	<0.029	<0.029	<0.029	<0.018	<0.018	0.018	--	0.028	<0.07	<0.033	--	<0.077	<0.039	<0.039	<0.049	--
Chromium	ug/L	23.4	0.48	0.4	<0.34	0.78	0.2	0.43	0.38	--	0.27	0.29	0.69	--	<0.98	<0.98	<1.1	<1.1	--
Cobalt	ug/L	7.8	0.56	0.55	0.64	<0.5	0.38	0.68	0.42	--	0.31	0.46	0.62	--	0.36	0.45	0.56	0.49	--
Lead	ug/L	21	<0.19	<0.19	<0.19	0.21	0.047	<0.033	0.14	--	0.21	0.22	0.54	--	0.49	<0.27	0.29	0.18	--
Lithium	ug/L	35.8	34.6	24	30.3	48.8	46.6	26.2	45.1	--	50.7	42.1	35.8	51.6	52	46	48	59	--
Mercury	ug/L	<0.046	<0.039	<0.039	<0.039	<0.055	<0.046	<0.046	<0.046	--	<0.09	--	<0.09	--	<0.1	--	<0.1	<0.1	--
Molybdenum	ug/L	67.4	55.4	39.4	34.2	52.8	51.7	33.8	73.1	--	75.4	77.9	56.5	--	110	76	66	84	--
Selenium	ug/L	2.2	<0.18	0.3	0.22	0.26	0.28	0.3	0.23	--	0.19	0.24	0.33	--	<1	<1	<1	<1	--
Thallium	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.063	<0.036	0.13	--	<0.036	--	<0.099	--	<0.27	--	<0.26	--	--
Total Radium	pCi/L	2.18	0.522	1.59	0.464	1.98	1.53	1.86	2.19	--	1.64	1.79	1.91	--	1.26	1.04	0.892/0.892	1.26	--
Radium-226	pCi/L	0.866	0	0.269	0.393	0.677	0.542	0.734	1.37	--	0.677	0.462	0.997	--	0.552	0.728	0.804/0.804	0.317	--
Radium-228	pCi/L	1.31	0.522	1.32	0.0706	1.3	0.99	1.13	0.821	--	0.965	1.33	0.913	--	0.703	0.316	<0.511/0.0877	0.944	--
Collected By		--	0	0	--	0	0	0	0	0	--	--	--	0	--	--	--	--	--
Field Oxidation Potential	mV	-101.6	-113	-184.4	-164.5	-150.6	-163.9	-102.9	-132	21.3	-165.5	-153	-132	-68.1	-122.8	-161	58.1	-185.6	-174.2
Field Specific Conductance	umhos/cm	513	1009	1271	1175	1024	1100	599.8	887	612.6	535.7	748	774	549	711	767	934	902	916
Field Temperature	deg C	13.8	13.9	14.2	14.8	14.3	14.1	14.2	14.4	14.5	13.8	16.8	15.6	13.62	12.63	14.91	14.8	13.7	13.6
Groundwater Elevation	feet	521.76	521.26	521.31	527.57	525.56	522.81	522.8	519.3	522.23	525.8	519.78	528.78	522.74	528.22	--	523.97	518.78	520.09
Oxygen, Dissolved	mg/L	0.08	1.02	1.31	0.48	0.1	0.1	0.2	0.07	0.13	0.11	0.24	1	2.38	0.67	0.26	0.18	0.12	0.12
Turbidity	NTU	487.4	2.45	0.24	3.76	3.85	4.42	2.57	0.46	2.79	0.97	14.26	17.3	19.4	18.2	5.36	16.03	2.03	1.82
Collected Date		--	--	--	--	--	--	--	--	--	--	--	--	3	--	--	--	--	--
Collected Time		--	--	--	--	--	--	--	--	--	--	--	--	11	--	--	--	--	--
pH at 25 Degrees C	Std. Units	7.2	7.4	7.2	7.3	7.6	7.6	6.9	7.2	7.3	7.4	7.3	7.1	--	7.4	7.4	7.2	8	--
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	290	210
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<3.8	<4.6
Iron, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8700	7600
Manganese, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3900	3400
Molybdenum, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	85	120
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	290	210
Iron, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8500	7600
Magnesium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21000	20000
Manganese, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3700	3400
Potassium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22000	22000
Sodium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	30000	33000
Lithium, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	59	66

Single Location
Name: IPL - Burlington

Location ID: MW-303

Number of Sampling Dates: 27

Parameter Name	Units	4/19/2021	10/13/2021	4/5/2022	4/26/2023	8/1/2023	10/3/2023	4/23/2024	10/22/2024	4/28/2025
Boron	ug/L	16000	17000	22000	3200	2600	3700	8100	11000	6700
Calcium	mg/L	140	130	140	85	100	120	150	160	140
Chloride	mg/L	15	17	16	25	27	25	31	21	24
Fluoride	mg/L	<0.28	<0.28	<0.22	<0.38	<0.38	<0.38	<0.38	1.5	<0.38
Field pH	Std. Units	7.25	7.25	7.36	6.92	7.09	6.87	6.71	6.67	6.76
Sulfate	mg/L	250	250	310	180	150	190	340	360	370
Total Dissolved Solids	mg/L	670	610	650	430	430	590	740	840	780
Antimony	ug/L	<1.1	<1.1	<0.69	<1	<1	<1	<1	<1	<1
Arsenic	ug/L	15	14	5.7	4	12	14	17	22	18
Barium	ug/L	450	360	270	65	150	120	170	160	170
Beryllium	ug/L	<0.27	<0.27	<0.27	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Cadmium	ug/L	<0.051	0.051	0.097	<0.1	<0.1	0.18	<0.1	<0.1	0.11
Chromium	ug/L	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<1.2	<1.8
Cobalt	ug/L	0.42	0.42	0.35	1.3	1.4	1.7	1.7	1.1	0.85
Lead	ug/L	<0.21	<0.21	<0.24	<0.24	0.45	<0.24	<0.26	<0.26	<0.33
Lithium	ug/L	66	61	80	23	27	31	35	35	36
Mercury	ug/L	<0.15	--	<0.11	<0.14	<0.14	<0.14	<0.11	<0.11	<0.11
Molybdenum	ug/L	120	120	190	94	150	150	160	160	190
Selenium	ug/L	<0.96	<0.96	<0.96	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Thallium	ug/L	<0.26	<0.26	<0.26	<0.26	<0.26	0.26	<0.57	<0.57	<0.57
Total Radium	pCi/L	2.21	0.678	1.52	0.53	--	0.594	0.418	1.42	0.625
Radium-226	pCi/L	0.866	0.628	0.795	0.0889	--	0.186	0.266	0.476	0.133
Radium-228	pCi/L	1.35	0.0509	0.723	0.441	--	0.408	0.152	0.941	0.492
Collected By		--	--	--	--	--	--	--	--	--
Field Oxidation Potential	mV	-144.8	-118.4	-155.8	757	-100.4	140.2	-82.5	-106.4	-77.1
Field Specific Conductance	umhos/cm	995	843	845	25.3	762	954	1165	1149	1088
Field Temperature	deg C	13.2	13.9	12.7	12.6	11.5	12.2	11.6	12.9	12.9
Groundwater Elevation	feet	522.13	518.58	522.2	525.42	517.91	518.06	520.89	518.16	522.21
Oxygen, Dissolved	mg/L	0.19	0.16	0.1	0.13	0.03	0.1	0.18	0.07	-0.01
Turbidity	NTU	4.35	13.6	21	0.02	11.58	4.9	9.98	4.57	11.74
Collected Date		--	--	--	--	--	--	--	--	--
Collected Time		--	--	--	--	--	--	--	--	--
pH at 25 Degrees C	Std. Units	7.3	7.3	7.5	7.1	7.1	7.5	6.8	6.9	7.1
Bicarbonate Alkalinity as CaCO3	mg/L	280	270	210	--	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	<4.6	<4.6	<4.6	--	--	--	--	--	--
Iron, dissolved	ug/L	7500	7000	4400	750	--	--	--	--	--
Manganese, dissolved	ug/L	3800	4000	3400	--	--	--	--	--	--
Molybdenum, dissolved	ug/L	110	130	180	--	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	280	270	210	--	--	--	--	--	--
Iron, total	ug/L	7900	6900	4600	--	8100	11000	19000	28000	20000
Magnesium, total	ug/L	22000	20000	16000	--	--	--	--	--	--
Manganese, total	ug/L	4000	4000	3500	--	--	--	--	--	--
Potassium, total	ug/L	23000	18000	22000	--	--	--	--	--	--
Sodium, total	ug/L	34000	28000	29000	--	--	--	--	--	--
Lithium, dissolved	ug/L	59	62	77	--	--	--	--	--	--

Single Location
Name: IPL - Burlington

Location ID: MW-304
 Number of Sampling Dates: 27

Parameter Name	Units	4/20/2016	6/6/2016	8/16/2016	10/3/2016	1/9/2017	4/3/2017	6/12/2017	8/15/2017	10/17/2017	5/9/2018	8/13/2018	10/10/2018	3/12/2019	4/3/2019	10/10/2019	6/3/2020	10/15/2020	3/1/2021
Boron	ug/L	5020	5050	5050	4910	5350	5340	5160	5370	5580	5140	5440	6180	--	6300	5100	6400	7400	--
Calcium	mg/L	142	137	144	155	136	118	90.1	97.2	103	107	102	88.5	--	72	140	150	150	--
Chloride	mg/L	34.7	30	28.2	30.7	47.7	39.2	35.2	30.2	46.5	58.1	25.9	50.3	--	39	25	21	21	--
Fluoride	mg/L	0.092	<0.073	<0.027	0.072	<0.027	<0.1	<0.1	<0.1	0.12	0.11	0.13	<0.19	--	0.35	<0.23	<0.23	<0.23	--
Field pH	Std. Units	9.2	8.65	9.42	9.25	9.44	8.58	7.93	8.71	9.52	8.51	7.6	9.01	6.94	8.56	7.17	7.23	8.46	8.26
Sulfate	mg/L	397	324	383	431	330	263	211	216	248	273	188	271	--	140	220	250	420	--
Total Dissolved Solids	mg/L	706	678	718	721	651	593	519	501	540	657	551	537	--	460	710	750	820	--
Antimony	ug/L	0.77	0.77	0.76	0.51	0.8	0.63	0.51	0.88	--	0.75	0.3	0.77	--	0.66	<0.53	<0.58	0.52	--
Arsenic	ug/L	60	59.4	64.3	58.9	68.7	60	58.4	65.6	--	57.2	45.4	58.3	--	59	36	35	49	--
Barium	ug/L	112	127	115	130	117	131	126	84.7	--	115	140	92	--	90	210	220	170	--
Beryllium	ug/L	<0.08	<0.08	<0.08	<0.08	<0.08	0.036	<0.012	<0.012	--	<0.012	<0.12	<0.089	--	<0.27	<0.27	<0.27	<0.27	--
Cadmium	ug/L	<0.029	<0.029	<0.029	<0.029	<0.029	<0.018	<0.018	<0.018	--	<0.018	<0.07	0.054	--	<0.077	<0.039	<0.039	<0.049	--
Chromium	ug/L	<0.34	<0.34	0.58	0.42	<0.34	0.16	0.087	0.3	--	0.22	0.34	0.091	--	<0.98	<0.98	<1.1	<4.4	--
Cobalt	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.13	0.11	0.1	--	0.098	<0.15	0.19	--	0.11	0.13	0.15	<0.36	--
Lead	ug/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.033	<0.033	0.9	--	<0.033	<0.12	<0.13	--	<0.27	<0.27	<0.27	<0.11	--
Lithium	ug/L	52.4	57.8	48.5	61	70.7	52.1	44.1	51	--	63.8	34.3	82.4	35.9	52	38	47	92	--
Mercury	ug/L	<0.046	<0.039	<0.039	<0.039	<0.055	<0.046	<0.046	<0.046	--	<0.09	--	<0.09	--	<0.1	--	0.11	<0.1	--
Molybdenum	ug/L	101	105	118	131	121	90.6	67.4	66.8	--	126	74.9	113	47.4	58	47	45	140	--
Selenium	ug/L	<0.18	<0.18	0.23	0.24	0.24	0.31	0.19	0.26	--	0.24	0.21	0.26	--	<1	<1	<1	<4	--
Thallium	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.068	<0.036	0.12	--	<0.036	--	<0.099	--	<0.27	--	<0.26	--	--
Total Radium	pCi/L	1.26	0.659	1.1	1.16	0.455	0.742	1.29	0.752	--	0.589	0.725	0.706	--	0.408	0.781	0.573/0.573	0.304	--
Radium-226	pCi/L	0	0.0649	0.22	0.458	0.067	0.48	0.928	0.404	--	0.405	0.151	0.233	--	0.116	0.353	0.3/0.3	0.0765	--
Radium-228	pCi/L	1.26	0.594	0.881	0.704	0.388	0.262	0.362	0.348	--	0.184	0.574	0.473	--	0.292	0.428	<0.375/0.272	0.227	--
Collected By		--	0	0	--	0	0	0	0	0	--	--	--	0	--	--	--	--	--
Field Oxidation Potential	mV	-309.5	-153	-301	-251.4	-274.8	-260.1	-160.6	-231.3	5.9	-273	-202	-100.2	-73.8	-216.7	-157.5	52.4	-282.6	-280.2
Field Specific Conductance	umhos/cm	766	1455	1840	1712	1634	1427	512.5	971	756	906	836	780	460	658	934	1087	1062	971
Field Temperature	deg C	13.9	14	14.4	15.3	15	14.1	14.3	14.8	15.1	13.5	18.1	17.41	13.87	12.96	15.64	14.6	14.7	14.1
Groundwater Elevation	feet	521.78	521.28	521.37	527.57	525.62	522.87	522.9	519.23	522.32	525.85	519.81	528.82	522.8	528.27	--	524.02	518.69	520.15
Oxygen, Dissolved	mg/L	0.04	1.55	4.79	0.43	0.11	0.11	0.17	0.03	0.1	1.4	0.09	0.23	2.11	0.39	0.28	0.15	0.08	0.07
Turbidity	NTU	1.43	1.26	0.01	0.3	0	0.61	0.23	0.26	1.89	2.84	4.26	1.36	9.28	6.22	1.18	18.18	0.02	0.02
Collected Date		--	--	--	--	--	--	--	--	--	--	--	--	3	--	--	--	--	--
Collected Time		--	--	--	--	--	--	--	--	--	--	--	--	1141	--	--	--	--	--
pH at 25 Degrees C	Std. Units	8.8	8.9	8.8	8.8	8.2	7.9	7.9	8.8	8.9	8.3	7.5	8.6	--	8	7.5	7.4	8.4	--
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	130	130
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<3.8	<2.6
Iron, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	720	1100
Manganese, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	440	760
Molybdenum, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	140	140
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	130	130
Iron, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	660	1200
Magnesium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3800	5200
Manganese, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	380	750
Potassium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14000	15000
Sodium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	51000	46000
Lithium, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	93	86

Single Location
Name: IPL - Burlington

Location ID: MW-304
 Number of Sampling Dates: 27

Parameter Name	Units	4/19/2021	10/13/2021	4/5/2022	4/26/2023	8/1/2023	10/3/2023	4/23/2024	10/22/2024	4/28/2025
Boron	ug/L	7700	7600	12000	1400	7800	5800	4400	6600	3700
Calcium	mg/L	110	130	130	100	240	430	110	110	110
Chloride	mg/L	18	23	27	26	27	14	38	16	11
Fluoride	mg/L	<0.28	<0.28	<0.22	<0.38	<0.38	<0.38	<0.38	1.5	<0.38
Field pH	Std. Units	8.32	7.53	8.08	7.03	6.45	6.55	6.76	6.82	7.03
Sulfate	mg/L	280	220	240	220	850	280	190	150	140
Total Dissolved Solids	mg/L	640	570	640	470	1300	570	530	580	550
Antimony	ug/L	<1.1	<1.1	<0.69	<1	<1	<4	<1	<1	<1
Arsenic	ug/L	41	32	44	1.4	9.6	32	15	19	18
Barium	ug/L	180	160	140	57	58	160	63	65	68
Beryllium	ug/L	<0.27	<0.27	<0.27	<0.33	<0.33	<1.3	<0.33	<0.33	<0.33
Cadmium	ug/L	<0.051	<0.051	<0.055	<0.1	0.12	<0.4	0.15	0.12	0.19
Chromium	ug/L	<1.1	<1.1	<1.1	<1.1	<1.1	<4.4	<1.2	<1.2	<1.8
Cobalt	ug/L	<0.091	<0.19	<0.19	1.3	81	44	1.5	0.55	0.25
Lead	ug/L	<0.21	<0.21	<0.24	<0.24	0.45	0.97	<0.26	<0.26	<0.33
Lithium	ug/L	75	60	74	63	160	500	110	88	81
Mercury	ug/L	<0.15	--	<0.11	<0.14	<0.14	<0.14	<0.11	0.23	<0.11
Molybdenum	ug/L	100	59	85	190	100	130	470	500	370
Selenium	ug/L	<0.96	<0.96	<0.96	<1.4	<1.4	<5.6	<1.4	<1.4	<1.4
Thallium	ug/L	<0.26	<0.26	<0.26	<0.26	<0.26	1.2	<0.57	<0.57	<0.57
Total Radium	pCi/L	0.699	0.797	0.469	0.689	--	0.615	0.194	0.686	0.613
Radium-226	pCi/L	0.213	0.201	0.0974	0.193	--	0.0919	0.194	0.16	0.0665
Radium-228	pCi/L	0.486	0.596	0.371	0.496	--	0.523	-0.0738	0.525	0.546
Collected By		--	--	--	--	--	--	--	--	--
Field Oxidation Potential	mV	-257.8	-149	-204.7	-71.6	-71.9	-109.2	-90.4	-124.1	-115.9
Field Specific Conductance	umhos/cm	935	806	825	855	1603	910	923	879	899
Field Temperature	deg C	13.2	14.5	13.2	11.3	12.4	16.1	14.4	15.5	14.9
Groundwater Elevation	feet	522.24	518.68	522.41	525.2	518.19	518.08	520.9	518.27	522.22
Oxygen, Dissolved	mg/L	0.07	0.15	0.07	0.09	0.05	0.16	0.18	0.01	0.05
Turbidity	NTU	3.34	7.7	9	10.6	15.72	4.74	9.15	2.59	16.01
Collected Date		--	--	--	--	--	--	--	--	--
Collected Time		--	--	--	--	--	--	--	--	--
pH at 25 Degrees C	Std. Units	8.3	8	7.9	7.1	6.5	6.6	6.9	7.1	7
Bicarbonate Alkalinity as CaCO3	mg/L	150	250	250	--	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	<2.3	<4.6	<4.6	--	--	--	--	--	--
Iron, dissolved	ug/L	1300	1900	830	11000	--	--	--	--	--
Manganese, dissolved	ug/L	680	1100	880	--	--	--	--	--	--
Molybdenum, dissolved	ug/L	99	90	83	--	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	150	250	250	--	--	--	--	--	--
Iron, total	ug/L	1500	2000	990	--	63000	130000	23000	16000	15000
Magnesium, total	ug/L	6300	6600	6400	--	--	--	--	--	--
Manganese, total	ug/L	710	1100	920	--	--	--	--	--	--
Potassium, total	ug/L	11000	12000	13000	--	--	--	--	--	--
Sodium, total	ug/L	53000	46000	51000	--	--	--	--	--	--
Lithium, dissolved	ug/L	57	61	72	--	--	--	--	--	--

Single Location
Name: IPL - Burlington

Location ID: MW-305
 Number of Sampling Dates: 26

Parameter Name	Units	4/20/2016	6/6/2016	8/17/2016	10/3/2016	1/10/2017	4/3/2017	6/13/2017	8/16/2017	10/16/2017	5/9/2018	8/13/2018	10/10/2018	4/3/2019	10/11/2019	6/3/2020	10/15/2020	3/2/2021	4/20/2021
Boron	ug/L	1990	2040	1750	1730	1910	1880	2180	1950	2480	2000	2400	2040	2000	2100	2200	2400	--	2200
Calcium	mg/L	116	119	95.1	93.1	88.8	82.8	96.3	80.2	92.2	82.5	103	93.2	83	90	120	120	--	110
Chloride	mg/L	34.8	32.9	34.5	32.3	34.8	34.2	37	34.3	35.8	34.8	34.8	34.9	33	33	36	32	--	28
Fluoride	mg/L	0.45	0.28	0.3	0.43	0.34	0.42	0.43	0.48	0.43	0.48	0.45	0.44	0.75	0.37	0.45	<0.23	--	0.45
Field pH	Std. Units	7.25	7.75	7.54	7.63	7.48	7.55	7.74	7	7.78	7.72	7.81	7.29	7.8	7.36	7.12	7.23	7.29	7.3
Sulfate	mg/L	35.7	68	26.9	38.1	19.2	10.2	35	13.4	24.6	11.7	24.8	19.6	10	8.8	33	54	--	28
Total Dissolved Solids	mg/L	574	590	502	467	455	410	532	435	437	441	542	490	470	490	640	600	--	420
Antimony	ug/L	0.11	0.11	<0.058	0.082	<0.058	<0.026	<0.026	0.13	--	<0.026	<0.15	<0.078	<0.53	<0.53	<0.58	<0.51	--	<1.1
Arsenic	ug/L	0.91	0.4	0.33	0.61	0.23	0.32	0.22	0.32	--	0.28	0.39	0.44	<0.75	<0.75	<0.88	<0.88	--	<0.75
Barium	ug/L	231	242	208	190	208	178	231	186	--	173	219	197	160	180	230	250	--	220
Beryllium	ug/L	<0.08	<0.08	<0.08	<0.08	<0.08	0.038	0.013	0.018	--	<0.012	<0.12	<0.089	<0.27	<0.27	<0.27	<0.27	--	<0.27
Cadmium	ug/L	<0.029	<0.029	<0.029	<0.029	<0.029	<0.018	<0.018	<0.018	--	<0.018	<0.07	<0.033	<0.077	<0.039	<0.039	<0.049	--	<0.051
Chromium	ug/L	0.43	0.36	0.57	0.76	0.54	0.29	0.27	0.43	--	0.25	0.21	0.27	<0.98	<0.98	<1.1	<1.1	--	<1.1
Cobalt	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.14	0.2	0.15	--	0.14	<0.15	0.17	0.16	0.13	0.18	0.15	--	0.14
Lead	ug/L	0.22	<0.19	<0.19	<0.19	<0.19	0.19	0.11	0.24	--	0.034	<0.12	0.2	<0.27	<0.27	<0.27	<0.11	--	<0.21
Lithium	ug/L	24	29.8	17.2	25.2	28.5	25	26	26.6	--	27.8	33.6	27.6	29	26	28	34	--	36
Mercury	ug/L	<0.046	<0.039	<0.039	<0.039	<0.055	<0.046	<0.046	<0.046	--	<0.09	--	<0.09	<0.1	--	0.12	<0.1	--	<0.15
Molybdenum	ug/L	0.6	0.79	1.2	1.2	0.76	0.89	1.1	1.3	--	0.87	1	0.72	<1.1	<1.1	<1.1	1.1	--	<1.3
Selenium	ug/L	<0.18	<0.18	0.19	<0.18	<0.18	0.19	<0.086	0.18	--	0.24	0.16	0.16	<1	<1	<1	<1	--	<0.96
Thallium	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.036	<0.036	0.15	--	<0.036	--	<0.099	<0.27	--	<0.26	--	--	<0.26
Total Radium	pCi/L	1.73	1.58	1.55	1.54	1.31	0.73	1.35	1.14	--	2.11	1.78	1.22	0.519	0.441	0.759/0.759	0.55	--	0.761
Radium-226	pCi/L	0.125	0.529	0.143	0.43	0.467	0.128	0.551	0.454	--	0.992	0.411	0.423	0.154	0.256	0.248/0.248	0.282	--	0.264
Radium-228	pCi/L	1.6	1.05	1.41	1.11	0.847	0.602	0.795	0.683	--	1.12	1.37	0.8	0.365	0.185	0.511/0.511	0.269	--	0.496
Collected By		--	0	0	--	0	0	0	0	0	--	--	--	--	--	--	--	--	--
Field Oxidation Potential	mV	-142	-120	-133.3	-133.6	-119.8	-145.1	-80.8	-94.7	44.9	-146.8	-134	-140	-133.5	-132.9	39.8	-175	-154	-135.7
Field Specific Conductance	umhos/cm	807	1919	1611	1328	1371	1195	624	972	759	733	901	846	733	795	972	987	865	839
Field Temperature	deg C	14.9	14.9	15	15.1	14.7	14.9	15.5	15.4	15.1	15.2	16.3	16.2	14.47	14.29	15.9	14.6	14.8	14.7
Groundwater Elevation	feet	521.96	521.48	521.46	527.71	525.74	523.03	522.78	519.93	522.48	526.06	520.29	528.97	528.36	--	524.12	519	520.48	522.31
Oxygen, Dissolved	mg/L	0.13	1.18	0.92	0.44	0.16	0.13	0.09	0.11	0.14	1.4	0.35	0.2	0.59	0.2	0.14	0.37	0.44	0.11
Turbidity	NTU	10.6	1.79	0.41	1.15	0.46	1.88	0.89	0.25	0.71	0.64	3.85	4.94	3.88	3.02	13.46	0.02	0.02	1.97
pH at 25 Degrees C	Std. Units	7.1	7.2	7	7.4	7.8	7.5	7.1	7.3	7.2	7.5	7.5	7.3	7.4	7.5	7.3	8.1	--	7.5
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	470	410	390
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<3.8	<4.6	<4.3
Iron, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3000	1800	1700
Manganese, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2900	1900	2000
Molybdenum, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	470	410	390
Iron, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3000	1900	1800
Magnesium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	26000	21000	22000
Manganese, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2800	1900	2100
Potassium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5700	6300	5500
Sodium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	54000	47000	51000
Lithium, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Single Location
Name: IPL - Burlington

Location ID: MW-305
 Number of Sampling Dates: 26

Parameter Name	Units	10/14/2021	4/6/2022	4/26/2023	8/1/2023	10/3/2023	4/23/2024	10/22/2024	4/29/2025
Boron	ug/L	2400	2400	1100	1300	1500	1800	3000	1400
Calcium	mg/L	130	110	97	130	150	99	150	80
Chloride	mg/L	34	31	27	29	29	32	18	16
Fluoride	mg/L	0.31	<0.22	<0.38	<0.38	<0.38	<0.38	1.5	<0.38
Field pH	Std. Units	7.24	7.25	5.18	6.39	6.19	6.31	6.49	6.65
Sulfate	mg/L	52	19	450	370	440	230	400	210
Total Dissolved Solids	mg/L	570	490	640	700	840	580	880	480
Antimony	ug/L	<1.1	<0.69	<1	<1	<1	<1	<1	<1
Arsenic	ug/L	<0.75	0.92	<0.53	2	2.7	3.9	4.4	3.8
Barium	ug/L	240	210	38	44	40	37	41	37
Beryllium	ug/L	<0.27	<0.27	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Cadmium	ug/L	<0.051	<0.055	0.45	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	ug/L	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<1.2	<1.8
Cobalt	ug/L	0.21	0.22	290	9.2	11	4.7	1.8	0.37
Lead	ug/L	<0.21	<0.24	<0.24	0.25	<0.24	<0.26	<0.26	<0.33
Lithium	ug/L	32	36	37	18	20	25	48	28
Mercury	ug/L	--	<0.11	<0.14	<0.14	<0.14	<0.11	<0.11	<0.11
Molybdenum	ug/L	<1.3	<1.2	1.5	1.3	2	4.3	4.4	6.2
Selenium	ug/L	<0.96	<0.96	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Thallium	ug/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.57	<0.57	<0.57
Total Radium	pCi/L	0.871	0.768	0.449	--	0.67	0.681	0.709	0.952
Radium-226	pCi/L	0.332	0.47	0.17	--	0.186	-0.00104	0.0755	0.215
Radium-228	pCi/L	0.539	0.298	0.28	--	0.484	0.681	0.634	0.737
Collected By		--	--	--	--	--	--	--	--
Field Oxidation Potential	mV	-95.1	-116.2	40.5	-21.2	-46.3	-33.6	-55.5	-43.2
Field Specific Conductance	umhos/cm	911	870	977	1081	1278	955	1469	756
Field Temperature	deg C	14.7	14.3	11.4	10.9	12	12.9	13.7	14.4
Groundwater Elevation	feet	519.18	522.6	517.35	518.03	518	520.96	518.3	522.28
Oxygen, Dissolved	mg/L	0.17	0.06	0.14	0.02	0.2	0.17	1.19	0.01
Turbidity	NTU	9	9	0.02	3.63	3.16	11.17	8.35	10.27
pH at 25 Degrees C	Std. Units	7.4	7.4	5.4	6.6	7.2	6.6	6.8	6.7
Bicarbonate Alkalinity as CaCO3	mg/L	550	470	--	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	<4.6	<4.6	--	--	--	--	--	--
Iron, dissolved	ug/L	2100	1500	2500	--	--	--	--	--
Manganese, dissolved	ug/L	2900	2300	--	--	--	--	--	--
Molybdenum, dissolved	ug/L	<1.3	1.5	--	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	550	470	--	--	--	--	--	--
Iron, total	ug/L	2100	1700	--	24000	35000	31000	32000	15000
Magnesium, total	ug/L	24000	21000	--	--	--	--	--	--
Manganese, total	ug/L	2800	2400	--	--	--	--	--	--
Potassium, total	ug/L	6100	6000	--	--	--	--	--	--
Sodium, total	ug/L	53000	49000	--	--	--	--	--	--
Lithium, dissolved	ug/L	31	34	--	--	--	--	--	--

Single Location
Name: IPL - Burlington

Location ID: MW-306
 Number of Sampling Dates: 27

Parameter Name	Units	4/21/2016	6/6/2016	8/17/2016	10/3/2016	1/10/2017	4/4/2017	6/13/2017	8/16/2017	10/16/2017	5/9/2018	8/14/2018	10/10/2018	3/11/2019	4/3/2019	10/11/2019	6/4/2020	10/15/2020	3/2/2021
Boron	ug/L	3460	3340	3300	3340	3630	3770	3350	3700	3680	3480	3430	3350	--	2900	3100	3200	3200	--
Calcium	mg/L	37.5	38.1	41.2	40.8	37.5	40.3	34.5	38.9	35.3	32	33.5	34.6	--	37	38	41	37	--
Chloride	mg/L	22.9	22.6	20.6	21.1	20.6	20.2	20.6	20.6	20.6	20.3	20.6	20.9	--	21	20	21	18	--
Fluoride	mg/L	0.093	<0.073	0.03	0.075	0.052	<0.1	<0.1	<0.1	0.15	0.12	0.1	<0.19	--	0.36	<0.23	<0.23	<0.23	--
Field pH	Std. Units	10.4	10.36	6.37	6.5	6.33	6.29	11.25	6.59	10.66	6.8	10.33	6.04	6.27	6.69	10.53	10.48	10	9.46
Sulfate	mg/L	152	132	135	137	123	120	126	93.4	97.5	107	111	121	--	110	110	120	71	--
Total Dissolved Solids	mg/L	333	321	348	333	307	302	305	312	301	396	303	289	--	320	290	320	300	--
Antimony	ug/L	1.2	1.2	1	1.2	1.3	1.2	1.4	0.92	--	1.2	1.4	1.2	--	1.1	1.2	1.1	0.9	--
Arsenic	ug/L	56.6	47.4	43.9	46.4	53.4	50.5	48.1	43.2	--	52.6	48	50.6	--	50	46	50	46	--
Barium	ug/L	21.2	18.2	18.8	15.5	14.4	14.8	14.1	14.3	--	13.6	15.5	14.8	--	14	14	16	16	--
Beryllium	ug/L	<0.08	<0.08	<0.08	<0.08	<0.08	0.024	0.054	<0.012	--	<0.012	0.14	<0.089	--	<0.27	<0.27	<0.27	<0.27	--
Cadmium	ug/L	<0.029	<0.029	<0.029	<0.029	<0.029	<0.018	0.036	<0.018	--	0.029	0.18	<0.033	--	<0.077	<0.039	<0.039	<0.049	--
Chromium	ug/L	<0.34	<0.34	0.4	<0.34	0.45	0.49	0.31	0.43	--	0.24	0.25	0.18	--	<0.98	<0.98	<1.1	<1.1	--
Cobalt	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.034	0.046	0.054	--	0.035	0.18	<0.062	--	<0.091	<0.091	<0.091	<0.091	--
Lead	ug/L	0.28	<0.19	<0.19	<0.19	0.19	0.16	0.25	0.3	--	0.26	0.69	0.37	--	<0.27	0.44	0.33	0.43	--
Lithium	ug/L	33.5	37.9	39.5	35.9	44.1	41.2	41.4	46.8	--	36.6	46.8	41.4	39.2	45	46	43	42	--
Mercury	ug/L	<0.046	<0.039	<0.039	<0.039	<0.055	<0.046	<0.046	<0.046	--	<0.09	--	<0.09	--	<0.1	--	0.1	<0.1	--
Molybdenum	ug/L	95.7	84.1	80.9	83.7	88.9	87.4	80.4	94.4	--	84.7	82.9	83.5	--	78	84	86	82	--
Selenium	ug/L	0.66	0.54	0.81	0.46	0.55	0.48	0.74	0.52	--	0.66	0.97	0.6	--	<1	<1	<1	<1	--
Thallium	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.036	<0.036	0.15	--	<0.036	--	<0.099	--	<0.27	--	<0.26	--	--
Total Radium	pCi/L	1.28	0.858	0.208	0.0727	0.744	1.19	0.254	1.03	--	0.482	1.04	1.1	--	0.165	0.526	<0.313/0.0769	0.119	--
Radium-226	pCi/L	0.438	0.144	0	-0.143	0.0633	0.457	0.157	0.424	--	0.174	0.397	0.383	--	0.0333	0.21	<0.0638/0.0516	0.0226	--
Radium-228	pCi/L	0.841	0.714	0.208	0.0727	0.681	0.731	0.0974	0.604	--	0.308	0.64	0.712	--	0.132	0.316	<0.313/0.0253	0.0962	--
Collected By		--	0	0	--	0	0	0	0	0	--	--	--	0	--	--	--	--	--
Field Oxidation Potential	mV	-127.8	-181	-155.5	-96.8	-26.7	-64.7	-151	-52.5	286.2	-104.3	-265	58.1	-88.9	-92.8	-165.1	59	-273.7	-196
Field Specific Conductance	umhos/cm	398	977	1000	874	864	823	331.7	662	447.9	354.2	447	478	343	4711	473	482	453.7	415
Field Temperature	deg C	14.5	14.4	14.8	14.8	14.4	14.5	15.8	14.9	14.8	14.7	15.9	17.25	14.27	13.44	14.28	14.4	14.1	14.1
Groundwater Elevation	feet	521.74	521.43	521.53	527.67	525.67	523.07	522.87	519.82	522.72	526	520.14	528.95	523.21	528.4	--	524.45	519.05	520.65
Oxygen, Dissolved	mg/L	0.11	0.57	1.91	0.14	0.06	0.12	0.22	0.03	0.37	0.05	0.3	0.38	0.8	0.69	0.21	0.16	0.11	0.39
Turbidity	NTU	0.4	0.1	0.4	0.97	0.19	0.14	0.81	0.1	0.35	0.71	2.88	2.67	0.56	0.81	1.84	15.96	0.02	0.02
Collected Date		--	--	--	--	--	--	--	--	--	--	--	--	3	--	--	--	--	--
Collected Time		--	--	--	--	--	--	--	--	--	--	--	--	17	--	--	--	--	--
pH at 25 Degrees C	Std. Units	9.9	10.2	6.1	6.8	7.1	6.8	10.2	6.8	9.7	6.5	10	6	--	6	10.5	10.3	9.6	--
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	52	68
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	82	46
Iron, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<50	<36
Manganese, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<4	5.4
Molybdenum, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	130	110
Iron, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<50	54
Magnesium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<100	<100
Manganese, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.4	6.5
Potassium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20000	19000
Sodium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	46000	50000
Lithium, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	42	29

Single Location
Name: IPL - Burlington

Location ID: MW-306

Number of Sampling Dates: 27

Parameter Name	Units	4/19/2021	10/11/2021	4/5/2022	4/27/2023	8/2/2023	10/4/2023	4/24/2024	10/22/2024	4/29/2025
Boron	ug/L	3000	2800	3300	4100	5700	3100	2200	3200	2100
Calcium	mg/L	41	42	45	70	140	99	93	100	86
Chloride	mg/L	17	19	19	31	31	<2.3	36	25	29
Fluoride	mg/L	<0.28	<0.28	<0.22	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
Field pH	Std. Units	10.02	5.83	5.95	8.77	8.81	8.78	8.66	8.63	8.94
Sulfate	mg/L	110	120	120	50	270	130	100	160	85
Total Dissolved Solids	mg/L	260	250	310	310	630	520	400	490	390
Antimony	ug/L	1.4	<1.1	<0.69	<1	<1	<1	<1	<1	<1
Arsenic	ug/L	53	43	48	36	32	34	32	31	32
Barium	ug/L	19	17	19	61	110	67	79	92	88
Beryllium	ug/L	<0.27	<0.27	<0.27	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Cadmium	ug/L	<0.051	<0.051	<0.055	<0.1	<0.1	<0.1	<0.1	<0.1	0.1
Chromium	ug/L	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<1.2	<1.8
Cobalt	ug/L	<0.091	<0.19	<0.19	0.42	0.31	<0.17	<0.17	<0.17	<0.17
Lead	ug/L	<0.21	0.26	<0.24	<0.24	1.5	<0.24	<0.26	<0.26	<0.33
Lithium	ug/L	43	41	42	34	49	35	23	25	18
Mercury	ug/L	<0.15	--	<0.11	<0.14	<0.14	<0.14	<0.11	<0.11	<0.11
Molybdenum	ug/L	87	69	74	12	71	36	63	140	140
Selenium	ug/L	<0.96	1.2	<0.96	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Thallium	ug/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.57	<0.57	<0.57
Total Radium	pCi/L	0.415	0.114	0.489	0.735	--	1.39	0.0168	0.744	0.531
Radium-226	pCi/L	0.121	0.11	0.0776	0.212	--	0.178	0.0168	0.0599	0.16
Radium-228	pCi/L	0.294	0.00348	0.412	0.523	--	1.21	-0.214	0.685	0.371
Collected By		--	--	--	--	--	--	--	--	--
Field Oxidation Potential	mV	-188	12.3	-75.3	48.4	-129	-102.7	-134.8	109.5	-160.2
Field Specific Conductance	umhos/cm	442	476.1	468.4	577	937	604	662	835	596
Field Temperature	deg C	13.8	16	13.6	12.5	12.9	14.7	12.2	12.9	11.6
Groundwater Elevation	feet	522.52	519.15	522.63	522.2	518.07	518.13	520.89	518.42	521.15
Oxygen, Dissolved	mg/L	0.34	0.28	0.14	0.11	0.19	0.22	0.15	0.26	0.13
Turbidity	NTU	0.02	6.9	4	0.02	15.54	6.14	18.8	3.51	0.57
Collected Date		--	--	--	--	--	--	--	--	--
Collected Time		--	--	--	--	--	--	--	--	--
pH at 25 Degrees C	Std. Units	10.3	6.2	6.2	8.9	8.6	8.1	8.9	8.8	8.5
Bicarbonate Alkalinity as CaCO3	mg/L	<2.3	95	100	--	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	50	<4.6	<4.6	--	--	--	--	--	--
Iron, dissolved	ug/L	<36	<36	<36	<36	--	--	--	--	--
Manganese, dissolved	ug/L	<4.4	8	5.7	--	--	--	--	--	--
Molybdenum, dissolved	ug/L	--	77	81	--	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	74	95	100	--	--	--	--	--	--
Iron, total	ug/L	<36	<36	<36	--	340	57	<36	<36	<50
Magnesium, total	ug/L	<100	120	<150	--	--	--	--	--	--
Manganese, total	ug/L	<4.4	7.7	6	--	--	--	--	--	--
Potassium, total	ug/L	23000	20000	22000	--	--	--	--	--	--
Sodium, total	ug/L	40000	45000	46000	--	--	--	--	--	--
Lithium, dissolved	ug/L	41	38	37	--	--	--	--	--	--

Single Location
Name: IPL - Burlington

Location ID: MW-307
 Number of Sampling Dates: 27

Parameter Name	Units	4/20/2016	6/6/2016	8/17/2016	10/3/2016	1/10/2017	4/4/2017	6/13/2017	8/16/2017	10/16/2017	5/9/2018	8/14/2018	10/10/2018	3/11/2019	4/3/2019	10/11/2019	6/4/2020	10/15/2020	3/2/2021
Boron	ug/L	3720	3760	3720	3880	3960	4050	3740	3780	3920	3910	4090	3720	--	3400	3700	3600	3400	--
Calcium	mg/L	31.9	30.8	31.3	34.1	31.3	32.3	28.1	29.8	31.3	27.3	27.2	27.6	--	29	31	37	36	--
Chloride	mg/L	23.5	22.6	21.4	21.6	21.3	20.9	21.3	20.7	20.8	20.1	20.1	21.6	--	21	19	21	17	--
Fluoride	mg/L	0.099	<0.073	0.032	0.079	0.057	<0.1	<0.1	<0.1	0.13	0.11	0.094	<0.19	--	0.51	<0.23	<0.23	<0.23	--
Field pH	Std. Units	10.28	10.19	10.6	10.5	10.82	10.94	10.74	10.8	10.46	10.3	10.12	9.88	9.71	10.39	10.14	10.03	10.05	9.96
Sulfate	mg/L	183	150	160	161	145	135	136	130	126	119	119	143	--	120	130	180	160	--
Total Dissolved Solids	mg/L	408	385	386	374	355	354	353	356	341	347	340	336	--	420	340	390	370	--
Antimony	ug/L	0.46	0.62	0.48	0.64	0.53	0.48	0.48	0.54	--	0.5	0.58	0.62	--	<0.53	<0.53	<0.58	0.56	--
Arsenic	ug/L	53	57.4	57.1	59.2	59.2	56.2	55.8	52.8	--	54.3	52.3	52.8	--	43	47	47	47	--
Barium	ug/L	38.3	42.2	38.7	38.4	34.7	33.4	33	31.1	--	32.3	29	31.1	--	29	31	36	39	--
Beryllium	ug/L	<0.08	<0.08	<0.08	<0.08	<0.08	0.033	<0.012	<0.012	--	<0.012	<0.12	<0.089	--	<0.27	<0.27	<0.27	<0.27	--
Cadmium	ug/L	<0.029	<0.029	<0.029	<0.029	<0.029	<0.018	<0.018	0.023	--	0.12	<0.07	0.068	--	<0.077	<0.039	0.044	<0.049	--
Chromium	ug/L	<0.34	0.84	0.5	0.62	<0.34	0.19	0.24	0.33	--	0.27	0.36	0.15	--	<0.98	<0.98	<1.1	<1.1	--
Cobalt	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.037	0.042	0.034	--	0.033	<0.15	<0.062	--	<0.091	<0.091	<0.091	<0.091	--
Lead	ug/L	0.48	1.1	0.36	0.36	0.45	0.43	0.43	0.46	--	0.39	0.43	0.49	--	0.37	0.41	<0.27	0.19	--
Lithium	ug/L	43.1	45.6	42.4	45.1	49.6	48.4	42.2	47.5	--	47.8	56.1	45.4	50.7	50	48	48	51	--
Mercury	ug/L	<0.046	<0.039	<0.039	<0.039	<0.055	0.047	<0.046	<0.046	--	<0.09	--	<0.09	--	<0.1	--	0.12	<0.1	--
Molybdenum	ug/L	146	155	142	150	154	154	155	152	--	154	155	159	156	100	130	130	140	--
Selenium	ug/L	0.47	0.45	0.46	0.45	0.44	0.42	0.46	0.42	--	0.36	0.41	0.36	--	<1	<1	<1	<1	--
Thallium	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.036	<0.036	0.18	--	<0.036	--	<0.099	--	<0.27	--	<0.26	--	--
Total Radium	pCi/L	1.6	0.194	0.882	0.552	0	0.651	0.85	0.673	--	0.0587	0.415	1.43	--	0.447	0.232	<0.471/0.277	0.18	--
Radium-226	pCi/L	0.153	-0.064	0.068	0.197	-0.075	-0.156	0.735	0.393	--	0.0587	0	0.988	--	0.0752	0.218	<0.101/0.0806	0.18	--
Radium-228	pCi/L	1.45	0.258	0.814	0.355	-0.0697	0.651	0.115	0.28	--	-0.024	0.415	0.439	--	0.372	0.0141	<0.471/0.197	-2.16	--
Collected By		--	0	0	--	0	0	0	0	0	--	--	--	0	--	--	--	--	--
Field Oxidation Potential	mV	-201.7	-168	-212.1	-289.4	-253.6	-287.1	-177.1	-168.9	-78.9	-168.6	-221	-87.3	-78.3	-167.8	-126.3	60.2	-269.7	-233
Field Specific Conductance	umhos/cm	480.2	1142	1064	958	940	901	368.3	735	485.7	499.9	512	497	367	500	536	586	564.8	552
Field Temperature	deg C	14.2	14.1	14.2	14.6	14.4	14.4	14.9	14.6	14.7	14.4	15.6	15.64	14.36	13.56	14.37	14.8	14	14
Groundwater Elevation	feet	522.38	521.75	521.91	527.81	525.81	523.14	523.17	520.16	522.55	526.06	520.46	529.08	523.49	528.63	--	524.62	519.33	521.01
Oxygen, Dissolved	mg/L	0.08	0.6	6.01	0.29	0.11	0.28	0.12	0.19	0.18	1.1	0.49	0.22	1.07	0.68	0.24	0.3	0.11	0.38
Turbidity	NTU	1.54	0.46	0.6	1.4	0.6	0.14	3.11	1.98	0.32	1.87	5.09	1.85	1.05	3.1	3.23	14.33	0.02	0.49
Collected Date		--	--	--	--	--	--	--	--	--	--	--	--	3	--	--	--	--	--
Collected Time		--	--	--	--	--	--	--	--	--	--	--	--	1633	--	--	--	--	--
pH at 25 Degrees C	Std. Units	9.8	10	9.8	10.1	9.6	9.8	9.8	9.8	9.8	9.9	9.9	9.9	--	10	10.2	10	9.5	--
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<1.9	35
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	79	49
Iron, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<50	<36
Manganese, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.6	5.3
Molybdenum, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	140	130
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	84	84
Iron, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<50	<36
Magnesium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<100	<100
Manganese, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.4	5.4
Potassium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	36000	38000
Sodium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	54000	52000
Lithium, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50	52

Single Location
Name: IPL - Burlington

Location ID: MW-307

Number of Sampling Dates: 27

Parameter Name	Units	4/20/2021	10/11/2021	4/5/2022	4/24/2023	8/1/2023	10/4/2023	4/24/2024	10/22/2024	4/29/2025
Boron	ug/L	3400	3000	3300	4800	3700	3200	3200	3000	3500
Calcium	mg/L	39	42	46	53	76	52	47	37	44
Chloride	mg/L	17	19	20	28	24	21	28	20	21
Fluoride	mg/L	<0.28	<0.28	<0.22	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
Field pH	Std. Units	10.02	9.89	9.88	8.35	7.62	8.18	8.6	8.37	9.05
Sulfate	mg/L	140	170	190	100	330	240	210	170	170
Total Dissolved Solids	mg/L	330	280	360	390	550	460	370	380	360
Antimony	ug/L	<1.1	<1.1	<0.69	<1	<1	<1	<1	<1	<1
Arsenic	ug/L	52	34	41	8.8	8.2	10	12	14	20
Barium	ug/L	39	39	41	76	92	54	47	46	44
Beryllium	ug/L	<0.27	<0.27	<0.27	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Cadmium	ug/L	<0.051	<0.051	<0.055	0.12	0.24	0.18	0.1	<0.1	0.22
Chromium	ug/L	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<1.2	<1.8
Cobalt	ug/L	<0.091	<0.19	<0.19	0.31	0.92	0.41	<0.17	<0.17	<0.17
Lead	ug/L	<0.21	<0.21	<0.24	<0.24	1.1	<0.24	<0.26	<0.26	<0.33
Lithium	ug/L	53	52	50	72	100	95	79	60	57
Mercury	ug/L	<0.15	--	<0.11	<0.14	<0.14	<0.14	<0.11	<1.1	<0.11
Molybdenum	ug/L	140	85	100	320	280	290	320	290	350
Selenium	ug/L	<0.96	<0.96	<0.96	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Thallium	ug/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.57	<0.57	<0.57
Total Radium	pCi/L	0.0114	1.14	0.134	0.258	--	0.532	0.595	0.0774	0.623
Radium-226	pCi/L	0.0114	0.103	0.0536	0.101	--	0.055	0.0654	0.0102	0.109
Radium-228	pCi/L	-0.01	1.04	0.0809	0.157	--	0.477	0.53	0.0672	0.514
Collected By		--	--	--	--	--	--	--	--	--
Field Oxidation Potential	mV	-242.4	-215.3	-218.8	110.6	-111.6	-201	-216.9	-194.2	-316.3
Field Specific Conductance	umhos/cm	546	547.9	549.8	634.9	872	745	658	677	576
Field Temperature	deg C	13.9	14.4	13.4	13.7	12.6	14.9	11.6	12.7	11.7
Groundwater Elevation	feet	522.89	519.55	522.91	519.61	518.04	518.3	521.08	518.8	522.13
Oxygen, Dissolved	mg/L	0.08	0.16	0.03	0.13	0.05	1.69	0.26	0.88	0.11
Turbidity	NTU	2.38	8.2	4	3.93	15.09	6.27	15.2	4.02	1.97
Collected Date		--	--	--	--	--	--	--	--	--
Collected Time		--	--	--	--	--	--	--	--	--
pH at 25 Degrees C	Std. Units	10.4	10.2	9.9	8.3	7.4	8.4	8.6	8.6	8.3
Bicarbonate Alkalinity as CaCO3	mg/L	<4.6	9.5	21	--	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	79	110	82	--	--	--	--	--	--
Iron, dissolved	ug/L	<36	<36	<36	<36	--	--	--	--	--
Manganese, dissolved	ug/L	5.1	6.5	6.8	--	--	--	--	--	--
Molybdenum, dissolved	ug/L	140	90	140	--	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	89	120	100	--	--	--	--	--	--
Iron, total	ug/L	<36	<36	<36	--	640	610	590	540	530
Magnesium, total	ug/L	<100	<100	<150	--	--	--	--	--	--
Manganese, total	ug/L	5.5	6.4	7.5	--	--	--	--	--	--
Potassium, total	ug/L	37000	36000	38000	--	--	--	--	--	--
Sodium, total	ug/L	53000	49000	56000	--	--	--	--	--	--
Lithium, dissolved	ug/L	51	50	47	--	--	--	--	--	--

Single Location
Name: IPL - Burlington

Location ID: MW-307A
 Number of Sampling Dates: 13

Parameter Name	Units	9/9/2020	10/14/2020	3/2/2021	4/20/2021	10/11/2021	4/5/2022	10/20/2022	4/24/2023	8/1/2023	10/4/2023	4/24/2024	10/22/2024	4/29/2025
Boron	ug/L	3900	4100	--	4100	4300	4000	4100	--	--	--	--	--	--
Calcium	mg/L	10	11	--	11	10	11	27	--	--	--	--	--	--
Chloride	mg/L	34	31	--	28	31	37	47	--	--	--	--	--	--
Fluoride	mg/L	<0.23	<0.23	--	0.38	<0.28	<0.22	<0.22	--	--	--	--	--	--
Field pH	Std. Units	7.83	7.8	7.66	7.74	7.83	7.78	7.69	7.63	7.78	7.53	7.51	7.47	7.83
Sulfate	mg/L	110	110	--	110	140	120	190	--	--	--	--	--	--
Total Dissolved Solids	mg/L	370	360	--	330	310	360	470	--	--	--	--	--	--
Antimony	ug/L	<0.51	<0.51	--	<1.1	<1.1	<0.69	<0.69	--	--	--	--	--	--
Arsenic	ug/L	<0.88	<0.88	--	<0.75	<0.75	<0.75	<0.75	--	--	--	--	--	--
Barium	ug/L	45	47	--	48	43	46	110	--	--	--	--	--	--
Beryllium	ug/L	<0.27	<0.27	--	<0.27	<0.27	<0.27	<0.27	--	--	--	--	--	--
Cadmium	ug/L	0.058	0.052	--	<0.051	0.069	0.084	<0.055	--	--	--	--	--	--
Chromium	ug/L	<1.1	<1.1	--	<1.1	<1.1	<1.1	<1.1	--	--	--	--	--	--
Cobalt	ug/L	0.11	0.15	--	<0.091	<0.19	<0.19	<0.19	--	--	--	--	--	--
Lead	ug/L	0.69	0.63	--	0.59	0.77	1.2	<0.24	--	--	--	--	--	--
Lithium	ug/L	6.8	8.3	9.1	8.7	7.7	8.5	12	7	6.2	8.6	9.9	9.8	10
Mercury	ug/L	<0.1	<0.1	--	<0.15	--	<0.11	<0.11	--	--	--	--	--	--
Molybdenum	ug/L	110	120	120	120	110	120	120	4.3	5.4	3.8	5.2	6.7	16
Selenium	ug/L	<1	<1	--	<0.96	<0.96	<0.96	<0.96	--	--	--	--	--	--
Thallium	ug/L	<0.26	--	--	<0.26	<0.26	<0.26	<0.26	--	--	--	--	--	--
Total Radium	pCi/L	0.605	0.412	--	0.307	0.981	0.326	1.15	--	--	--	--	--	--
Radium-226	pCi/L	0.168	0.169	--	0.133	0.0614	0.326	0.268	--	--	--	--	--	--
Radium-228	pCi/L	0.438	0.243	--	0.175	0.92	-0.0921	0.883	--	--	--	--	--	--
Field Oxidation Potential	mV	-154.2	-189.9	-171	-167.3	-133.4	-154	-131	-117.1	-154	-169	-128.2	-131.2	-188.6
Field Specific Conductance	umhos/cm	585	553.6	568	566	551	547.4	791	477	487.5	503.5	478.7	537	493
Field Temperature	deg C	14.4	14.6	14	13.7	14.4	13.4	15.47	7.7	7.6	9.8	9.8	11.5	11.3
Groundwater Elevation	feet	519.97	519	520.52	522.39	519.09	522.47	508.27	520.77	519.42	519.61	522.38	520.05	523.64
Oxygen, Dissolved	mg/L	0.17	0.18	0.29	0.13	0.12	0.06	0	0.12	0.04	0.2	0.18	0.57	0.3
Turbidity	NTU	0	2.96	0.95	2.89	7.4	5	0.3	0.02	4.61	11.21	18.65	9.12	1.61
pH at 25 Degrees C	Std. Units	8	7.9	--	8.1	7.8	7.8	7.7	--	--	--	--	--	--
Bicarbonate Alkalinity as CaCO3	mg/L	--	110	94	93	100	150	170	--	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	--	<1.9	<2.3	<2.3	<4.6	<4.6	<4.6	--	--	--	--	--	--
Iron, dissolved	ug/L	--	460	450	430	390	440	1000	1100	--	--	--	--	--
Manganese, dissolved	ug/L	--	420	360	390	390	400	870	--	--	--	--	--	--
Molybdenum, dissolved	ug/L	--	120	120	120	120	120	120	--	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	110	94	93	100	150	170	--	--	--	--	--	--
Iron, total	ug/L	--	610	510	500	450	530	1200	--	1900	2000	1600	1500	1400
Magnesium, total	ug/L	--	1700	1500	1600	1500	1600	4300	--	--	--	--	--	--
Manganese, total	ug/L	--	430	360	410	390	420	940	--	--	--	--	--	--
Potassium, total	ug/L	--	3100	3200	3100	2800	3100	4200	--	--	--	--	--	--
Sodium, total	ug/L	--	110000	110000	110000	100000	110000	130000	--	--	--	--	--	--
Lithium, dissolved	ug/L	--	--	9.6	8.3	6.9	7.7	11	--	--	--	--	--	--

Single Location
Name: IPL - Burlington

Location ID: **MW-307B**
 Number of Sampling Dates: **11**

Parameter Name	Units	7/1/2021	10/11/2021	2/22/2022	4/5/2022	10/20/2022	4/24/2023	8/2/2023	10/4/2023	4/24/2024	10/22/2024	4/29/2025
Boron	ug/L	4700	2700	4000	6700	1400	--	--	--	--	--	--
Calcium	mg/L	75	66	71	84	59	--	--	--	--	--	--
Chloride	mg/L	28	18	25	35	11	--	--	--	--	--	--
Fluoride	mg/L	<0.28	<0.28	<0.22	<0.22	<0.22	--	--	--	--	--	--
Field pH	Std. Units	7.67	7.72	7.43	7.36	7.1	7.49	7.62	7.51	7.37	7.28	7.58
Sulfate	mg/L	110	77	120	180	68	--	--	--	--	--	--
Total Dissolved Solids	mg/L	330	230	310	410	260	--	--	--	--	--	--
Antimony	ug/L	<1.1	<1.1	<2.8	<0.69	<0.69	--	--	--	--	--	--
Arsenic	ug/L	<0.75	<0.75	<0.75	<0.75	1.4	--	--	--	--	--	--
Barium	ug/L	260	310	350	450	310	--	--	--	--	--	--
Beryllium	ug/L	<0.27	<0.27	<0.27	<0.27	<0.27	--	--	--	--	--	--
Cadmium	ug/L	<0.051	0.065	<0.055	<0.055	0.055	--	--	--	--	--	--
Chromium	ug/L	<1.1	<1.1	<1.1	<1.1	<1.1	--	--	--	--	--	--
Cobalt	ug/L	0.26	<0.19	<0.19	<0.19	<0.19	--	--	--	--	--	--
Lead	ug/L	<0.21	<0.21	<0.24	<0.24	<0.24	--	--	--	--	--	--
Lithium	ug/L	9.6	7	9.4	11	6.1	6.8	4.7	5	7.2	7.4	6.8
Mercury	ug/L	<0.15	--	<0.11	<0.11	<0.11	--	--	--	--	--	--
Molybdenum	ug/L	40	25	37	59	32	7.5	4.6	2.2	10	12	13
Selenium	ug/L	<0.96	<0.96	<0.96	<0.96	<0.96	--	--	--	--	--	--
Thallium	ug/L	<0.26	<0.26	<0.26	<0.26	<0.26	--	--	--	--	--	--
Total Radium	pCi/L	0.955	1.38	0.71	1.5	1.43	--	--	--	--	--	--
Radium-226	pCi/L	0.289	0.377	0.453	0.674	0.515	--	--	--	--	--	--
Radium-228	pCi/L	0.666	1.01	0.257	0.83	0.911	--	--	--	--	--	--
Field Oxidation Potential	mV	-76.5	-130.6	211.7	-147	-34	-48.4	-130	-141.9	-103	-75.8	-157.8
Field Specific Conductance	umhos/cm	587.1	459.6	570	627.3	492	434.6	435	410.1	462.9	539	529
Field Temperature	deg C	15.3	14.4	13.1	13.5	14.11	13.4	10.3	12	10.3	12.9	11.5
Groundwater Elevation	feet	520.12	519.13	519.37	522.37	508.35	520.77	518.2	518.14	520.96	518.57	522.22
Oxygen, Dissolved	mg/L	0.41	0.1	0.18	0.08	0	2.08	0.29	0.3	0.26	1.79	0.28
Turbidity	NTU	1.26	10.1	2.64	6	17	1.08	8.79	10.54	14.36	7.5	1.05
pH at 25 Degrees C	Std. Units	7.6	7.6	7.5	7.5	7.6	--	--	--	--	--	--
Bicarbonate Alkalinity as CaCO3	mg/L	150	160	160	130	190	--	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	<4.6	<4.6	<4.6	<4.6	<4.6	--	--	--	--	--	--
Iron, dissolved	ug/L	1700	1200	1700	2100	1500	1400	--	--	--	--	--
Manganese, dissolved	ug/L	800	330	470	770	370	--	--	--	--	--	--
Molybdenum, dissolved	ug/L	40	28	37	58	35	--	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	150	160	160	130	190	--	--	--	--	--	--
Iron, total	ug/L	2100	1300	1900	2300	3000	--	1700	1400	1700	1700	2200
Magnesium, total	ug/L	15000	16000	15000	15000	14000	--	--	--	--	--	--
Manganese, total	ug/L	850	310	500	810	360	--	--	--	--	--	--
Potassium, total	ug/L	3000	1600	2200	3200	1600	--	--	--	--	--	--
Sodium, total	ug/L	23000	16000	23000	35000	19000	--	--	--	--	--	--
Lithium, dissolved	ug/L	9.5	7	7.9	10	6.7	--	--	--	--	--	--

Single Location
Name: IPL - Burlington

Location ID: MW-308
 Number of Sampling Dates: 27

Parameter Name	Units	4/21/2016	6/6/2016	8/17/2016	10/3/2016	1/10/2017	4/4/2017	6/13/2017	8/16/2017	10/17/2017	5/8/2018	8/13/2018	10/10/2018	3/12/2019	4/3/2019	10/10/2019	6/4/2020	10/14/2020	3/2/2021
Boron	ug/L	4960	4980	4870	4760	4980	5160	4680	4910	4850	5030	5070	4710	--	4300	4500	4700	4500	--
Calcium	mg/L	39.8	36.8	35.1	33.5	33.2	34.2	30.1	32.3	32.6	28.7	28.7	28.5	--	32	30	34	37	--
Chloride	mg/L	72.3	65.7	53.1	47.8	43.5	42.6	40.6	39.8	38.2	36.2	36.7	35.9	--	38	40	58	45	--
Fluoride	mg/L	0.16	0.095	0.078	0.13	0.084	0.11	0.12	0.14	0.17	0.17	0.16	<0.19	--	0.37	<0.23	0.37	<0.23	--
Field pH	Std. Units	9.77	9.76	9.95	10.17	10.21	10.34	9.99	10.15	9.75	9.75	9.86	9.82	7.72	9.97	9.42	9.65	9.7	9.4
Sulfate	mg/L	222	187	180	194	192	175	188	181	177	164	167	193	--	170	160	190	160	--
Total Dissolved Solids	mg/L	577	548	541	495	474	494	501	483	472	494	468	440	--	490	400	470	460	--
Antimony	ug/L	0.29	0.34	0.22	0.38	0.33	0.28	0.32	0.3	--	0.32	0.32	0.36	--	<0.53	<0.53	<0.58	<0.51	--
Arsenic	ug/L	83.8	80.5	84.2	82.6	86.4	83.1	80.3	77.9	--	79.1	82.5	79.5	--	78	72	76	69	--
Barium	ug/L	130	110	110	89.8	90.6	85.1	81.5	76.2	--	64.3	67.1	66.5	--	70	70	66	74	--
Beryllium	ug/L	<0.08	<0.08	<0.08	<0.08	<0.08	0.017	<0.012	<0.012	--	<0.012	<0.12	<0.089	--	<0.27	<0.27	<0.27	<0.27	--
Cadmium	ug/L	<0.029	<0.029	<0.029	0.097	0.034	<0.018	0.035	<0.018	--	0.02	<0.07	0.058	--	<0.077	<0.039	0.044	<0.049	--
Chromium	ug/L	0.46	0.41	0.52	<0.34	0.37	0.22	0.16	0.38	--	0.25	<0.19	0.16	--	<0.98	<0.98	<1.1	<1.1	--
Cobalt	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	0.06	0.068	0.069	--	0.057	<0.15	0.074	--	<0.091	<0.091	<0.091	<0.091	--
Lead	ug/L	0.33	<0.19	<0.19	0.28	0.27	0.21	0.34	0.33	--	0.25	0.27	0.45	--	<0.27	<0.27	0.4	0.15	--
Lithium	ug/L	45.6	45.8	41.5	41.2	47	46.9	42.4	44.1	--	46	52	43.6	48.9	50	52	48	51	--
Mercury	ug/L	<0.046	<0.039	<0.039	<0.039	<0.055	0.047	<0.046	<0.046	--	<0.09	--	<0.09	--	<0.1	--	0.13	<0.1	--
Molybdenum	ug/L	153	139	133	138	140	140	136	137	--	140	140	145	135	110	120	120	110	--
Selenium	ug/L	0.69	0.47	0.58	0.45	0.68	0.4	0.3	0.47	--	0.31	0.43	0.4	--	<1	<1	<1	<1	--
Thallium	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.036	<0.036	<0.036	--	<0.036	--	<0.099	--	<0.27	--	<0.26	--	--
Total Radium	pCi/L	0.712	1.22	0.376	0.549	0	0.854	0.881	0.229	--	0.283	0.0726	0.334	--	0.328	0.288	<0.42/0.268	0.106	--
Radium-226	pCi/L	0.0744	0	0.0777	0.312	0	0.213	0.4	0.063	--	0.182	0.0726	0.275	--	0.0363	0.202	<0.118/0.109	-0.0615	--
Radium-228	pCi/L	0.638	1.22	0.298	0.237	-0.059	0.641	0.481	0.166	--	0.101	-0.068	0.0585	--	0.291	0.0862	<0.42/0.159	0.106	--
Collected By		--	0	0	--	0	0	0	0	0	--	--	--	0	--	--	--	--	--
Field Oxidation Potential	mV	-77.2	-149	-213.7	-239.6	-163.8	-300.6	-162.3	-139.8	-109.4	-158.2	-238	-201	-60.7	-142.3	-82.6	28	-264.6	-207.2
Field Specific Conductance	umhos/cm	712	1678	1533	1306	1303	1258	514.6	1039	689	698	710	709	500	681	671	713	682	695
Field Temperature	deg C	14.2	14.2	14.3	14.6	13.7	14.1	14.9	14.5	14.6	14.4	15.4	15.3	14.06	14.04	14.64	15.4	14.7	13.9
Groundwater Elevation	feet	521.93	521.43	521.56	527.62	525.65	523.07	522.9	519.8	522.46	525.62	520.22	528.98	523.13	528.39	--	524.1	519.02	520.7
Oxygen, Dissolved	mg/L	0.09	0.81	0.16	0.55	0.11	0.16	0.2	0.21	0.09	1.5	0.11	0.2	2.57	1.16	0.21	0.23	0.1	0.11
Turbidity	NTU	1.83	0.42	0.34	0.73	1.27	0.43	1.56	0.61	0.6	1.26	4.63	1.35	1.68	1.66	2.93	13.38	0.15	0.02
Collected Date		--	--	--	--	--	--	--	--	--	--	--	--	3	--	--	--	--	--
Collected Time		--	--	--	--	--	--	--	--	--	--	--	--	9	--	--	--	--	--
pH at 25 Degrees C	Std. Units	9.4	9.6	9.3	9.7	9.4	9.2	9.5	9.4	9.4	9.4	9.4	9.5	--	9.6	9.9	9.6	9.6	--
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	54	69
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	89	39
Iron, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<50	<36
Manganese, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	290	210
Molybdenum, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	110	110
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	140	110
Iron, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<50	<36
Magnesium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1700	1600
Manganese, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	280	210
Potassium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	35000	38000
Sodium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	84000	85000
Lithium, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	53	54

Single Location
Name: IPL - Burlington

Location ID: MW-308

Number of Sampling Dates: 27

Parameter Name	Units	4/20/2021	10/12/2021	4/4/2022	4/24/2023	8/1/2023	10/3/2023	4/23/2024	10/21/2024	4/28/2025
Boron	ug/L	4300	3900	4400	5700	6800	5900	5700	5700	4400
Calcium	mg/L	38	38	42	61	140	150	150	140	66
Chloride	mg/L	39	41	37	26	37	35	50	37	76
Fluoride	mg/L	<0.28	<0.28	<0.22	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
Field pH	Std. Units	9.56	9.97	9.58	7.49	7.33	7.14	7.16	7.27	7.63
Sulfate	mg/L	140	190	190	240	570	700	700	590	300
Total Dissolved Solids	mg/L	430	410	470	650	1000	1300	1200	1100	670
Antimony	ug/L	<1.1	<1.1	<0.69	<1	<1	<1	<1	<1	<1
Arsenic	ug/L	73	59	62	1.9	5.7	5.6	5.3	4.7	5.5
Barium	ug/L	79	82	85	87	150	92	75	69	42
Beryllium	ug/L	<0.27	<0.27	<0.27	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Cadmium	ug/L	<0.051	<0.051	<0.055	0.15	0.12	0.17	0.17	0.18	0.47
Chromium	ug/L	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<1.2	<1.8
Cobalt	ug/L	<0.091	<0.19	<0.19	0.18	4.1	4.5	1.4	0.96	0.42
Lead	ug/L	<0.21	<0.21	<0.24	<0.24	0.27	<0.24	<0.26	<0.26	<0.33
Lithium	ug/L	54	58	57	73	180	220	240	230	110
Mercury	ug/L	<0.15	--	<0.11	<0.14	<0.14	<0.14	<0.11	<1.1	<0.11
Molybdenum	ug/L	120	81	100	480	220	260	560	760	950
Selenium	ug/L	<0.96	<0.96	<0.96	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Thallium	ug/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.57	<0.57	<0.57
Total Radium	pCi/L	0.0966	-0.00135	0.321	1.14	--	0.344	0.602	0.774	0.189
Radium-226	pCi/L	-0.0307	-0.00135	0.321	0.096	--	0.0254	0.17	0.157	0.0899
Radium-228	pCi/L	0.0966	0	-0.143	1.05	--	0.319	0.432	0.617	0.0994
Collected By		--	--	--	--	--	--	--	--	--
Field Oxidation Potential	mV	-172.9	-219.8	-246.6	122.6	-121.7	-143.1	-69.9	-16.9	-138.1
Field Specific Conductance	umhos/cm	690	728	680	994	1483	1766	1672	1907	1032
Field Temperature	deg C	14.1	15	13.9	14.2	13.2	13.2	12.2	13.5	12.8
Groundwater Elevation	feet	522.57	519.25	522.61	521.08	518.22	520.25	521.36	518.65	522.32
Oxygen, Dissolved	mg/L	0.08	0.06	0.08	0.1	0.44	0.19	0.26	0.33	0.1
Turbidity	NTU	1.77	8.8	5	10.8	0.98	2.04	8.4	4.31	0.91
Collected Date		--	--	--	--	--	--	--	--	--
Collected Time		--	--	--	--	--	--	--	--	--
pH at 25 Degrees C	Std. Units	9.8	10	9.6	7.6	7.3	7.6	7.4	7.3	7.5
Bicarbonate Alkalinity as CaCO3	mg/L	38	4.7	21	--	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	75	95	82	--	--	--	--	--	--
Iron, dissolved	ug/L	<36	<36	<36	54	--	--	--	--	--
Manganese, dissolved	ug/L	250	30	120	--	--	--	--	--	--
Molybdenum, dissolved	ug/L	110	82	110	--	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	110	99	100	--	--	--	--	--	--
Iron, total	ug/L	<36	<36	<36	--	5800	6000	2200	1600	1400
Magnesium, total	ug/L	1800	420	1300	--	--	--	--	--	--
Manganese, total	ug/L	250	32	130	--	--	--	--	--	--
Potassium, total	ug/L	37000	40000	39000	--	--	--	--	--	--
Sodium, total	ug/L	88000	79000	87000	--	--	--	--	--	--
Lithium, dissolved	ug/L	51	57	54	--	--	--	--	--	--

Single Location
Name: IPL - Burlington

Location ID: MW-309
 Number of Sampling Dates: 26

Parameter Name	Units	4/21/2016	6/7/2016	8/16/2016	10/3/2016	1/10/2017	4/4/2017	6/13/2017	8/16/2017	10/17/2017	5/8/2018	8/14/2018	10/10/2018	4/4/2019	10/11/2019	6/3/2020	10/14/2020	3/1/2021	4/19/2021
Boron	ug/L	5270	5590	5180	5140	4880	3800	4070	4310	4400	4720	4930	4720	4200	4300	4400	4400	--	5000
Calcium	mg/L	118	100	99.2	126	141	156	118	130	101	83.6	74.1	72.4	73	68	82	59	--	76
Chloride	mg/L	145	152	126	117	104	82.7	89.5	92.5	85.4	112	111	105	100	74	84	64	--	85
Fluoride	mg/L	0.57	0.36	0.35	0.39	0.39	0.41	0.5	0.4	0.47	0.4	0.43	0.4	0.71	0.29	0.58	<0.23	--	0.36
Field pH	Std. Units	7.33	7.43	7.66	7.66	7.37	7.31	7.1	7.62	8.5	7.25	7.39	7.46	7.45	7.19	7.09	7.61	7.22	7.26
Sulfate	mg/L	49	51.2	100	104	127	198	171	136	149	107	98.9	111	78	160	180	160	--	57
Total Dissolved Solids	mg/L	768	728	726	772	839	955	841	859	671	688	668	650	650	610	730	550	--	570
Antimony	ug/L	0.087	0.12	<0.058	0.09	<0.058	0.039	0.03	0.051	--	<0.026	<0.15	<0.078	<0.53	<0.53	<0.58	<0.51	--	<1.1
Arsenic	ug/L	31.5	27.3	29.3	31.5	34.5	30	36.2	34.6	--	28.2	33.3	35.6	30	34	34	33	--	30
Barium	ug/L	384	337	316	364	362	264	256	274	--	154	180	194	130	180	260	220	--	340
Beryllium	ug/L	<0.08	<0.08	<0.08	<0.08	<0.08	0.037	0.012	<0.012	--	0.012	<0.12	<0.089	<0.27	<0.54	<0.27	<0.27	--	<0.27
Cadmium	ug/L	<0.029	<0.029	<0.029	<0.029	<0.029	<0.018	0.021	<0.018	--	0.021	<0.07	<0.033	<0.077	<0.039	<0.039	<0.049	--	<0.051
Chromium	ug/L	0.38	0.35	0.53	<0.34	0.4	0.23	0.18	0.49	--	0.32	0.22	0.18	<0.98	<0.98	<1.1	<1.1	--	<1.1
Cobalt	ug/L	2.1	1.2	0.98	1.1	1.7	6.5	2.9	1.3	--	4.9	0.82	0.68	1.3	0.52	0.57	0.33	--	0.39
Lead	ug/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.033	0.12	0.26	--	0.045	<0.12	<0.13	<0.27	<0.27	<0.27	<0.11	--	<0.21
Lithium	ug/L	<4.9	<4.9	<4.9	<4.9	<4.9	5	<2.9	6.3	--	<4.6	<4.6	<4.6	3.3	<5.4	2.4	<2.5	--	3.8
Mercury	ug/L	<0.046	<0.039	<0.039	<0.039	<0.055	<0.046	<0.046	<0.046	--	<0.09	--	<0.09	<0.1	--	<0.1	<0.1	--	<0.15
Molybdenum	ug/L	30.7	31.1	43.5	49.1	44.8	41.5	60.8	67.5	--	43.4	52.8	71.8	47	90	87	100	--	50
Selenium	ug/L	0.39	0.25	0.24	0.31	0.25	0.44	0.35	0.34	--	0.3	0.31	0.29	<1	<1	<1	<1	--	<0.96
Thallium	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.036	<0.036	<0.036	--	<0.036	--	<0.099	<0.27	--	<0.26	--	--	<0.26
Total Radium	pCi/L	2.55	2.28	1.74	1.38	0.455	1.76	0.846	1.09	--	0.218	0.96	1.05	0.42	0.596	<0.398/0.296	0.372	--	0.509
Radium-226	pCi/L	0.991	0.561	0.67	0.694	0.65	0.573	0.292	0.615	--	-0.061	0.28	0.127	0.126	0.274	0.182/0.182	0.142	--	0.336
Radium-228	pCi/L	1.56	1.72	1.07	0.69	0.39	1.19	0.554	0.47	--	0.218	0.68	0.919	0.295	0.322	<0.398/0.114	0.23	--	0.172
Collected By		--	0	0	--	0	0	0	0	0	--	--	--	--	--	--	--	--	--
Field Oxidation Potential	mV	-138.9	-121	-150.9	-176.2	-131.4	-138	-60.7	-112.8	-31	-139.2	-143	-53.5	-99.4	-165.6	37	-208.4	-196.3	-170.7
Field Specific Conductance	umhos/cm	1034	2369	228.5	2265	2502	2528	936	1853	1058	813	1093	1038	997	1040	1086	851	816	1017
Field Temperature	deg C	13.4	13.4	13.8	14.6	14.3	13.9	14.2	14.6	14.6	13.5	14.2	15.67	12.6	13.73	14.8	14.3	13.7	13.2
Groundwater Elevation	feet	522.09	521.39	521.7	527.57	525.57	523.1	522.91	519.93	522.67	525.54	520.22	528.93	528.4	--	524.06	519.28	520.75	522.72
Oxygen, Dissolved	mg/L	0.1	0.78	2.36	0.54	0.11	0.2	0.15	0.2	0.08	0.05	0.14	0.18	0.51	0.21	0.23	0.14	0.12	0.16
Turbidity	NTU	3.93	0.59	0.58	0.72	5.84	15.11	4.62	4.61	3.08	6.49	12.67	34.45	20.1	8.93	18.88	18.9	13.8	21.2
pH at 25 Degrees C	Std. Units	7	7	7	7.2	7.3	7.4	6.9	7.2	7	7.4	7.3	7.1	7.1	7.2	7.2	7.2	--	7.3
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	190	250	310
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<3.8	<2.3	<4.6
Iron, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11000	9300	12000
Manganese, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3400	2500	3700
Molybdenum, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	56	49
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	190	250	310
Iron, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12000	11000	14000
Magnesium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18000	18000	24000
Manganese, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3200	2500	3700
Potassium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1800	2600	2900
Sodium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	90000	97000	100000
Lithium, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Single Location
Name: IPL - Burlington

Location ID: MW-309
 Number of Sampling Dates: 26

Parameter Name	Units	10/12/2021	4/4/2022	4/27/2023	8/2/2023	10/4/2023	4/25/2024	10/23/2024	4/29/2025
Boron	ug/L	4400	3900	12000	14000	11000	12000	12000	13000
Calcium	mg/L	71	59	82	94	310	84	82	94
Chloride	mg/L	79	53	39	28	29	29	31	23
Fluoride	mg/L	0.39	<0.22	0.43	<0.38	<0.38	<0.38	0.38	<0.38
Field pH	Std. Units	7.18	7.18	6.93	7.06	6.92	6.88	6.94	6.88
Sulfate	mg/L	120	99	210	140	83	120	94	120
Total Dissolved Solids	mg/L	470	450	550	530	550	530	490	570
Antimony	ug/L	<1.1	<0.69	<1	<1	<4	<1	<1	<1
Arsenic	ug/L	24	21	21	22	89	21	23	19
Barium	ug/L	370	260	220	190	440	130	120	140
Beryllium	ug/L	<0.27	<0.27	<0.33	<0.33	<1.3	<0.33	<0.33	<0.33
Cadmium	ug/L	<0.051	<0.055	<0.1	<0.1	<0.4	<0.1	<0.1	<0.1
Chromium	ug/L	<1.1	<1.1	<1.1	<1.1	<4.4	<1.2	<1.2	<1.8
Cobalt	ug/L	0.29	0.42	1.3	0.61	0.95	0.17	<0.17	<0.17
Lead	ug/L	<0.21	<0.24	0.41	<0.24	<0.96	<0.26	<0.26	<0.33
Lithium	ug/L	2.8	2.9	4.9	3.5	15	4.8	4.5	3.6
Mercury	ug/L	--	<0.11	<0.14	<0.14	<0.14	<0.11	<1.1	<0.11
Molybdenum	ug/L	39	62	69	84	37	44	36	34
Selenium	ug/L	<0.96	<0.96	<1.4	<1.4	<5.6	<1.4	<1.4	<1.4
Thallium	ug/L	<0.26	<0.26	<0.26	<0.26	<1	<0.57	<0.57	<0.57
Total Radium	pCi/L	0.618	0.847	1.13	--	4.77	0.521	0.226	0.897
Radium-226	pCi/L	0.553	0.358	0.443	--	0.215	0.217	-0.063	0.109
Radium-228	pCi/L	0.065	0.489	0.688	--	4.56	0.304	0.226	0.788
Collected By		--	--	--	--	--	--	--	--
Field Oxidation Potential	mV	-155.1	-139.4	-117.2	-155	-172.4	-118.3	-122.2	-135.4
Field Specific Conductance	umhos/cm	927	748	1004	890	1040	908	961	942
Field Temperature	deg C	15.3	13	13	13.7	15	13.4	14.6	14
Groundwater Elevation	feet	519.43	522.74	523.02	518.22	518.42	521.18	518.3	522.06
Oxygen, Dissolved	mg/L	0.17	0.24	0.07	0	0.18	0.2	0.4	-0.05
Turbidity	NTU	19.6	21	55.8	21.44	6.45	22.15	6.04	19.54
pH at 25 Degrees C	Std. Units	7.2	7.3	6.9	7.1	7.8	7.1	7	7
Bicarbonate Alkalinity as CaCO3	mg/L	280	240	--	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	<4.6	<4.6	--	--	--	--	--	--
Iron, dissolved	ug/L	14000	9100	22000	--	--	--	--	--
Manganese, dissolved	ug/L	3500	2800	--	--	--	--	--	--
Molybdenum, dissolved	ug/L	39	59	--	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	280	240	--	--	--	--	--	--
Iron, total	ug/L	15000	11000	--	22000	75000	20000	19000	22000
Magnesium, total	ug/L	22000	18000	--	--	--	--	--	--
Manganese, total	ug/L	3500	3000	--	--	--	--	--	--
Potassium, total	ug/L	2600	2100	--	--	--	--	--	--
Sodium, total	ug/L	79000	81000	--	--	--	--	--	--
Lithium, dissolved	ug/L	2.8	2.7	--	--	--	--	--	--

Single Location
Name: IPL - Burlington

Location ID: MW-310
 Number of Sampling Dates: 25

Parameter Name	Units	4/21/2016	6/7/2016	8/16/2016	10/3/2016	1/9/2017	4/4/2017	6/12/2017	8/16/2017	10/16/2017	5/8/2018	8/14/2018	10/10/2018	4/4/2019	10/11/2019	6/2/2020	10/14/2020	4/19/2021
Boron	ug/L	437	422	326	400	413	503	2210	365	305	217	256	268	560	380	500	290	220
Calcium	mg/L	166	181	140	167	145	180	116	139	105	104	102	107	120	120	130	92	190
Chloride	mg/L	154	196	96.9	143	113	187	94.7	121	38.3	24.4	33.8	67.1	88	59	87	17	16
Fluoride	mg/L	0.39	0.28	0.29	0.34	0.33	0.26	0.32	0.32	0.39	0.33	0.39	0.4	0.55	0.34	0.65	<0.23	0.37
Field pH	Std. Units	7.37	7.21	7.7	7.71	7.38	7.5	7.3	7.5	7.92	7.46	7.44	7.2	7.84	6.95	7.3	7.34	7.21
Sulfate	mg/L	53.1	47.7	54	62.6	48.5	34.3	101	41.3	35.1	28.8	27.2	37.9	21	51	100	19	55
Total Dissolved Solids	mg/L	879	1040	703	743	653	853	625	760	445	462	472	512	600	410	590	390	370
Antimony	ug/L	<0.058	0.12	<0.058	0.099	<0.058	0.032	0.048	0.1	--	<0.026	<0.15	<0.078	<0.53	<0.53	<0.58	1.9	<1.1
Arsenic	ug/L	60.6	60.2	64.1	74	72.6	79.8	64	68.2	--	57.8	56.2	62.1	65	61	55	63	16
Barium	ug/L	813	829	589	734	605	825	586	665	--	403	398	450	560	500	550	400	280
Beryllium	ug/L	<0.08	<0.08	<0.08	<0.08	<0.08	0.019	<0.012	<0.012	--	<0.012	<0.12	<0.089	<0.27	<0.27	<0.27	<0.27	<0.27
Cadmium	ug/L	<0.029	<0.029	<0.029	<0.029	<0.029	<0.018	0.025	<0.018	--	<0.018	<0.07	<0.033	<0.077	<0.039	<0.039	<0.049	<0.051
Chromium	ug/L	<0.34	<0.34	0.85	0.5	0.45	0.19	0.2	0.52	--	0.16	<0.19	0.082	<0.98	<0.98	<1.1	<1.1	<1.1
Cobalt	ug/L	2.6	2.7	1.8	2	1.6	1.9	1.4	1.8	--	1.2	1.4	1.4	1.9	1.9	2.3	1.5	0.29
Lead	ug/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.033	0.081	0.64	--	0.044	<0.12	<0.13	<0.27	<0.27	<0.27	<0.11	<0.21
Lithium	ug/L	<4.9	<4.9	<9.8	<4.9	<4.9	<2.9	<2.9	7.7	--	<4.6	5.3	<4.6	<2.7	<2.7	<2.3	<2.5	<2.5
Mercury	ug/L	<0.046	<0.039	<0.039	<0.039	<0.055	<0.046	<0.046	<0.046	--	<0.09	--	<0.09	<0.1	--	<0.1	<0.1	<0.15
Molybdenum	ug/L	5.1	3.9	4.4	4.8	4.4	3.4	10	4.1	--	4.2	4	4.6	5.2	6	5.8	3.6	14
Selenium	ug/L	<0.18	<0.18	<0.18	<0.18	<0.18	0.24	0.18	0.2	--	0.14	<0.16	0.19	<1	<1	<1	<1	<0.96
Thallium	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.036	<0.036	0.35	--	<0.036	--	<0.099	<0.27	--	<0.26	--	<0.26
Total Radium	pCi/L	2.41	1.28	1.99	1.34	0.941	3.17	1.7	2.21	--	0.755	1.55	2.56	1.19	0.49	0.844/0.844	0.552	0.869
Radium-226	pCi/L	0.951	0.839	0.644	0.796	0.527	0.175	0.505	0.793	--	0	0.616	1.1	0.471	0.473	0.457/0.457	0.333	0.41
Radium-228	pCi/L	1.46	0.437	1.35	0.54	0.414	2.99	1.19	1.42	--	0.755	0.938	1.46	0.724	0.0174	0.387/0.387	0.219	0.46
Collected By		--	0	0	--	0	0	0	0	0	--	--	--	--	--	--	--	--
Field Oxidation Potential	mV	-125.4	-122	-172.9	-184	-161.2	-175.4	-101.1	102.8	-63.6	-198.8	-194	-166	-175.8	-189.7	38.6	-223.6	-193.2
Field Specific Conductance	umhos/cm	1082	3170	2224	2295	2116	2528	742	1783	791	594.6	840	938	1034	961	881	711	735
Field Temperature	deg C	11.7	12.2	15.1	16.6	14.3	12	13.5	15.4	16.6	11.1	15	17	10.8	15.88	12.8	16.4	10.8
Groundwater Elevation	feet	525.43	524.13	524.84	527.58	525.78	525.52	524.94	523.89	525.49	525.79	523.69	529	528.62	--	525.36	523.81	525.46
Oxygen, Dissolved	mg/L	0.19	0.98	2.4	0.43	0.19	0.2	0.13	0.21	0.16	0.14	0.05	0.1	1.12	0.28	0.13	0.08	0.17
Turbidity	NTU	3	0.2	0.83	4.23	4.64	2.23	2.55	1.2	2.86	12.81	3.11	0	16.7	5.23	17.82	3.79	2.57
pH at 25 Degrees C	Std. Units	7.1	7	7	7.2	7.2	7.3	6.9	7.1	7.1	7.4	7.3	7.1	7	7.2	7.1	7.2	7.3
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	330	310
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<3.8	<4.6
Iron, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16000	20000
Manganese, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4000	4200
Molybdenum, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	330	310
Iron, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18000	20000
Magnesium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	24000	25000
Manganese, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4400	4300
Potassium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2700	2100
Sodium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13000	11000
Lithium, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Single Location
Name: IPL - Burlington

Location ID: MW-310
 Number of Sampling Dates: 25

Parameter Name	Units	10/12/2021	4/4/2022	4/27/2023	8/3/2023	10/5/2023	4/23/2024	10/21/2024	4/29/2025
Boron	ug/L	310	230	150	260	130	330	170	98
Calcium	mg/L	84	80	120	170	100	99	95	89
Chloride	mg/L	14	10	9.7	17	12	16	9.4	12
Fluoride	mg/L	<0.28	<0.22	0.39	<0.38	<0.38	<0.38	<0.38	<0.38
Field pH	Std. Units	7.22	7.38	7.13	7.1	7.01	7.09	7	7.44
Sulfate	mg/L	55	74	340	340	210	130	72	66
Total Dissolved Solids	mg/L	280	320	580	730	560	430	350	340
Antimony	ug/L	<1.1	<0.69	<1	<1	<1	<1	<1	<1
Arsenic	ug/L	63	52	32	47	45	24	37	15
Barium	ug/L	290	270	330	410	360	240	260	190
Beryllium	ug/L	<0.27	<0.27	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Cadmium	ug/L	<0.051	<0.055	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	ug/L	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<1.2	<1.8
Cobalt	ug/L	1.4	1.2	3.1	3.8	2.4	1.6	1.9	1.9
Lead	ug/L	<0.21	<0.24	<0.24	<0.24	<0.24	<0.26	<0.26	<0.33
Lithium	ug/L	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.9
Mercury	ug/L	--	<0.11	<0.14	<0.14	<0.14	<0.11	<1.1	<0.11
Molybdenum	ug/L	4.9	5.2	1.9	2.7	3.3	3	5.4	5.5
Selenium	ug/L	<0.96	<0.96	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Thallium	ug/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.57	<0.57	<0.57
Total Radium	pCi/L	1.25	0.838	0.696	--	2.17	0.317	0.773	0.122
Radium-226	pCi/L	0.161	0.22	0.388	--	0.35	0.317	0.31	0.0766
Radium-228	pCi/L	1.09	0.618	0.308	--	1.82	-0.154	0.463	0.0456
Collected By		--	--	--	--	--	--	--	--
Field Oxidation Potential	mV	-181.6	-177.3	-146.4	-174.9	-190.6	-141.7	-133	-173.6
Field Specific Conductance	umhos/cm	668	548.8	999	1168	951	747	640	634
Field Temperature	deg C	17.3	10.6	10.6	15.7	19.5	9.3	18	7.8
Groundwater Elevation	feet	524.69	525.44	518.44	520.29	520.39	523.93	522.94	523.24
Oxygen, Dissolved	mg/L	0.18	0.14	0.23	0.03	0.11	0.24	0.01	0.23
Turbidity	NTU	11.4	19	11.8	7.38	9.98	16.1	2.79	1.61
pH at 25 Degrees C	Std. Units	7.2	7.2	7	7	7.7	7.2	7.1	7.5
Bicarbonate Alkalinity as CaCO3	mg/L	280	240	--	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	<4.6	<4.6	--	--	--	--	--	--
Iron, dissolved	ug/L	15000	15000	24000	--	--	--	--	--
Manganese, dissolved	ug/L	3900	3700	--	--	--	--	--	--
Molybdenum, dissolved	ug/L	5.2	5.6	--	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	280	240	--	--	--	--	--	--
Iron, total	ug/L	15000	16000	--	31000	19000	15000	12000	12000
Magnesium, total	ug/L	20000	18000	--	--	--	--	--	--
Manganese, total	ug/L	3900	3800	--	--	--	--	--	--
Potassium, total	ug/L	2100	1700	--	--	--	--	--	--
Sodium, total	ug/L	12000	8400	--	--	--	--	--	--
Lithium, dissolved	ug/L	<2.5	<2.5	--	--	--	--	--	--

Single Location
Name: IPL - Burlington

Location ID: MW-310A
 Number of Sampling Dates: 12

Parameter Name	Units	9/9/2020	10/16/2020	3/3/2021	4/20/2021	10/14/2021	4/6/2022	10/20/2022	4/27/2023	8/3/2023	10/5/2023	4/25/2024	10/21/2024
Boron	ug/L	2200	1200	--	1100	940	910	670	870	830	790	930	780
Calcium	mg/L	150	62	--	52	51	52	39	48	57	48	49	46
Chloride	mg/L	18	16	--	14	14	11	9.6	9.4	12	11	9.3	8.4
Fluoride	mg/L	0.27	<0.23	--	0.44	0.75	<0.22	<0.22	0.57	<0.38	0.39	0.38	<0.38
Field pH	Std. Units	7.33	--	7.22	7.41	7.07	7.29	7.54	7.05	7.39	7.3	6.9	7.12
Sulfate	mg/L	100	130	--	120	99	89	82	100	110	87	74	76
Total Dissolved Solids	mg/L	570	620	--	660	520	540	530	530	610	570	550	540
Antimony	ug/L	1.1	1.5	--	<1.1	<1.1	<0.69	<0.69	<1	<1	<1	<1	<1
Arsenic	ug/L	15	5.1	--	3.5	3.6	1.2	1	1.2	0.91	0.82	1.7	0.55
Barium	ug/L	290	90	--	75	64	61	46	55	58	47	52	51
Beryllium	ug/L	2.3	<0.27	--	<0.27	<0.27	<0.27	<0.27	<0.33	<0.33	<0.33	<0.33	<0.33
Cadmium	ug/L	0.69	0.062	--	<0.051	<0.051	<0.055	<0.055	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	ug/L	5.4	<1.1	--	1.5	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<1.2
Cobalt	ug/L	28	3.4	--	3	3	2.6	0.63	0.34	0.58	<0.17	0.67	<0.17
Lead	ug/L	20	3.5	--	2.8	3.3	0.29	0.52	<0.24	0.35	<0.24	0.51	0.27
Lithium	ug/L	32	36	--	40	34	38	29	33	37	38	41	38
Mercury	ug/L	<0.1	<0.1	--	<0.15	--	<0.11	<0.11	<0.14	<0.14	<0.14	<0.11	<1.1
Molybdenum	ug/L	19	33	--	24	20	14	11	11	10	7.4	7.5	7.3
Selenium	ug/L	1.5	<1	--	<0.96	<0.96	<0.96	<0.96	<1.4	<1.4	<1.4	<1.4	<1.4
Thallium	ug/L	<0.26	--	--	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.57	<0.57
Total Radium	pCi/L	4.91	0.878	--	2.51	4.2	0.842	2.04	0.818	--	1.53	1.13	1.87
Radium-226	pCi/L	2.48	0.662	--	1.04	1.44	0.706	0.592	0.607	--	0.462	0.427	0.606
Radium-228	pCi/L	2.44	0.215	--	1.47	2.76	0.136	1.45	0.212	--	1.07	0.701	1.27
Field Oxidation Potential	mV	145.3	--	145.9	55	153.3	-10.5	21	-21.9	--	4.9	35.4	-25.4
Field Specific Conductance	umhos/cm	1026	--	1051	1042	842	907	874	1010	1100	982	1173	921
Field Temperature	deg C	14.2	--	13.2	11.7	15.5	11.7	18.9	12.6	--	19.2	11.9	13.1
Groundwater Elevation	feet	509.16	489.84	487.06	521.12	521.83	522.58	512.84	509.69	490.83	517.75	521.84	521.18
Oxygen, Dissolved	mg/L	4.68	--	3.1	3.69	2.04	0.41	0.01	7.56	--	4.78	4.09	1.67
Turbidity	NTU	714.3	--	--	0	80	39	2	<0	--	15.32	37.08	4.82
pH at 25 Degrees C	Std. Units	7.7	7.6	--	7.6	6.5	7.4	7.4	7.6	7.4	7.2	7.7	7.4
Bicarbonate Alkalinity as CaCO3	mg/L	--	410	400	410	440	450	420	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	--	<3.8	<2.3	<4.6	<4.6	<4.6	<4.6	--	--	--	--	--
Iron, dissolved	ug/L	--	<50	2100	<36	<36	88	<36	180	--	--	--	--
Manganese, dissolved	ug/L	--	420	300	240	170	150	22	--	--	--	--	--
Molybdenum, dissolved	ug/L	--	--	--	--	21	17	14	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	410	400	410	440	450	420	--	--	--	--	--
Iron, total	ug/L	--	1600	1900	1000	950	85	290	--	140	49	270	<36
Magnesium, total	ug/L	--	25000	25000	21000	20000	21000	16000	--	--	--	--	--
Manganese, total	ug/L	--	470	330	250	270	280	41	--	--	--	--	--
Potassium, total	ug/L	--	6900	6600	5900	5200	5000	4200	--	--	--	--	--
Sodium, total	ug/L	--	140000	170000	180000	140000	140000	120000	--	--	--	--	--
Lithium, dissolved	ug/L	--	--	--	--	32	38	34	--	--	--	--	--

Single Location
Name: IPL - Burlington

Location ID: MW-311
 Number of Sampling Dates: 26

Parameter Name	Units	4/21/2016	6/7/2016	8/16/2016	10/3/2016	1/9/2017	4/4/2017	6/12/2017	8/16/2017	10/16/2017	5/8/2018	8/14/2018	10/10/2018	4/4/2019	10/11/2019	6/2/2020	10/14/2020	3/1/2021	4/19/2021
Boron	ug/L	1810	2070	2320	2950	2160	2400	2130	360	2810	2200	2580	2820	1800	2800	2500	3500	--	2000
Calcium	mg/L	200	164	158	150	164	176	158	139	145	173	156	130	200	150	190	140	--	98
Chloride	mg/L	125	75.4	77.4	62.7	78.7	83.3	81.1	45	50.9	79.9	69.9	54	110	65	120	61	--	100
Fluoride	mg/L	0.38	0.27	0.28	0.35	0.32	0.27	0.36	0.36	0.36	0.31	0.36	0.35	0.41	0.37	0.64	<0.23	--	<0.28
Field pH	Std. Units	7.33	7.28	7.63	7.59	7.24	7.51	7.3	7.05	8.27	7.26	7.33	7.49	7.64	7.07	7.1	7.41	6.99	7.16
Sulfate	mg/L	283	179	170	161	179	184	173	112	119	176	144	127	230	130	220	110	--	200
Total Dissolved Solids	mg/L	1060	843	799	694	776	808	803	623	615	864	777	678	980	590	950	640	--	870
Antimony	ug/L	<0.058	0.12	<0.058	0.084	<0.058	<0.026	0.03	0.057	--	<0.026	<0.15	<0.078	<0.53	<0.53	<0.58	<0.51	--	<1.1
Arsenic	ug/L	17.7	12.4	16.4	13	17.6	17.1	15.2	11.6	--	14	15.7	15.2	19	18	19	15	--	55
Barium	ug/L	292	248	232	229	244	240	248	198	--	256	239	214	280	210	300	220	--	370
Beryllium	ug/L	<0.08	<0.08	<0.08	<0.08	<0.08	0.036	0.013	<0.012	--	<0.023	<0.12	<0.089	<0.27	<0.27	<0.27	<0.27	--	<0.27
Cadmium	ug/L	<0.029	<0.029	<0.029	<0.029	<0.029	<0.018	<0.018	<0.018	--	<0.018	<0.07	<0.033	<0.077	<0.039	<0.039	<0.049	--	<0.051
Chromium	ug/L	0.45	0.42	0.51	<0.34	0.35	0.18	0.14	0.32	--	0.2	0.22	0.78	<0.98	<0.98	<1.1	<1.1	--	<1.1
Cobalt	ug/L	0.52	<0.5	<0.5	<0.5	<0.5	0.27	0.35	0.24	--	0.3	0.37	0.57	0.45	0.27	0.81	0.28	--	1.4
Lead	ug/L	0.2	<0.19	<0.19	<0.19	<0.19	<0.033	0.32	0.096	--	0.043	0.13	0.48	0.37	<0.27	1.1	<0.11	--	<0.21
Lithium	ug/L	<4.9	<4.9	<9.8	<4.9	<4.9	<2.9	<2.9	3.3	--	<4.6	<4.6	<4.6	<2.7	<2.7	<2.3	<2.5	--	<2.5
Mercury	ug/L	<0.046	<0.039	<0.039	<0.039	<0.055	<0.046	<0.046	<0.046	--	<0.09	--	<0.09	<0.1	--	0.13	<0.1	--	<0.15
Molybdenum	ug/L	10.4	11.7	12.5	14.7	10.9	12.4	11.2	16	--	11.6	13.9	16.3	8.5	15	11	23	--	4.1
Selenium	ug/L	0.19	<0.18	<0.18	<0.18	0.2	0.17	0.19	0.12	--	0.17	0.18	0.23	<1	<1	<1	<1	--	<0.96
Thallium	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.036	<0.036	0.14	--	<0.036	--	<0.099	<0.27	--	<0.26	--	--	<0.26
Total Radium	pCi/L	0.831	1.22	1.19	0.22	1.19	1.13	0.785	1	--	0.987	0.969	0.819	0.815	0.599	0.802/0.802	0.297	--	0.52
Radium-226	pCi/L	0.207	0.18	0.605	0.149	0.299	0.484	0.445	0.653	--	0.183	0.502	0.245	0.198	0.354	0.324/0.324	0.104	--	0.224
Radium-228	pCi/L	0.624	1.04	0.581	0.0707	0.886	0.641	0.34	0.349	--	0.804	0.467	0.574	0.617	0.245	0.479/0.479	0.193	--	0.297
Collected By		--	0	0	--	0	0	0	0	0	--	--	--	--	--	--	--	--	--
Field Oxidation Potential	mV	-129.9	-69.7	-139	-151.4	-171.4	-157.4	-102.5	-107.1	308.3	-143.3	-158	-62.2	145.8	-163.4	-1.1	-194	-179.2	-158.6
Field Specific Conductance	umhos/cm	1173	2425	2304	1833	2126	2059	865	1280	972	1282	1177	1003	1422	1088	1464	1041	1363	1473
Field Temperature	deg C	11.6	11.6	13	14.3	14.3	12.4	12.5	13.7	14.7	11.5	14.8	16.35	11.41	14.19	12.3	14.5	11.5	10.9
Groundwater Elevation	feet	523.72	521.8	522.92	527.34	525.16	524.01	523.55	521.12	523.44	525.08	521.06	528.49	528.2	--	524.05	520.59	522.89	523.89
Oxygen, Dissolved	mg/L	0.08	1.01	0.83	0.51	0.18	0.22	0.21	0.03	0.25	1.6	0.12	0.45	0.78	0.3	0.16	0.1	0.13	0.48
Turbidity	NTU	4.41	1.05	1.74	2.08	1.16	3	4.12	1.15	2.19	1.48	12.3	17.8	10.8	13.4	17.95	2.36	1.33	4.56
pH at 25 Degrees C	Std. Units	7	7.2	7.1	7.2	7.5	7.1	7	7.2	7.4	7.4	7.2	7.1	7	7.2	7	7.1	--	7.2
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	380	400	390
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<3.8	<2.3	<4.6
Iron, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16000	21000	20000
Manganese, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4300	5400	5600
Molybdenum, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	380	400	390
Iron, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16000	21000	20000
Magnesium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	30000	39000	39000
Manganese, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4200	5700	5600
Potassium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2300	2200	2300
Sodium, total	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	36000	65000	62000
Lithium, dissolved	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Single Location
Name: IPL - Burlington

Location ID: MW-311
 Number of Sampling Dates: 26

Parameter Name	Units	10/12/2021	4/4/2022	4/27/2023	8/3/2023	10/5/2023	4/25/2024	10/22/2024	4/29/2025
Boron	ug/L	1800	1600	1200	1700	1400	1400	1500	1600
Calcium	mg/L	160	160	160	160	130	180	140	180
Chloride	mg/L	110	85	23	31	21	47	20	47
Fluoride	mg/L	<0.28	<0.22	0.45	<0.38	<0.38	<0.38	<0.38	<0.38
Field pH	Std. Units	7.17	7.22	6.83	6.95	6.93	6.76	6.82	7.14
Sulfate	mg/L	190	170	290	240	150	250	110	210
Total Dissolved Solids	mg/L	750	750	750	720	560	790	570	800
Antimony	ug/L	<1.1	<0.69	<1	<1	<1	<1	<1	1
Arsenic	ug/L	22	19	4.7	5.3	5.5	6.3	5.6	7.7
Barium	ug/L	230	220	220	230	160	98	170	140
Beryllium	ug/L	<0.27	<0.27	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Cadmium	ug/L	<0.051	<0.055	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	ug/L	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<1.2	<1.8
Cobalt	ug/L	0.31	0.3	3.8	1.5	0.89	3.4	0.85	2.7
Lead	ug/L	<0.21	<0.24	<0.24	0.4	<0.24	<0.26	<0.26	<0.33
Lithium	ug/L	<2.5	<2.5	<2.5	<2.5	<2.5	2.8	<2.5	<2.9
Mercury	ug/L	--	<0.11	<0.14	<0.14	<0.14	<0.11	<1.1	<0.11
Molybdenum	ug/L	6.9	8.9	3.4	5.6	5.8	4.7	6.2	4.7
Selenium	ug/L	<0.96	<0.96	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
Thallium	ug/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.57	<0.57	<0.57
Total Radium	pCi/L	0.189	0.593	1.26	--	1.3	0.685	0.57	0.358
Radium-226	pCi/L	0.256	0.328	0.214	--	0.107	0.0549	0.228	0.358
Radium-228	pCi/L	-0.0672	0.265	1.05	--	1.2	0.63	0.342	-0.0175
Collected By		--	--	--	--	--	--	--	--
Field Oxidation Potential	mV	-157.6	-177.6	-81.9	-130.4	-152.5	-87.6	-132.9	-168.9
Field Specific Conductance	umhos/cm	1431	1190	1225	1163	961	1279	927	1262
Field Temperature	deg C	14.9	11.8	10.9	12.3	14.1	11.3	14.6	11.6
Groundwater Elevation	feet	522	523.78	522.07	518.28	518.68	522.23	519.64	522.28
Oxygen, Dissolved	mg/L	0.17	0.07	0.1	0.07	0.14	0.19	0.06	0.18
Turbidity	NTU	11.1	7	2.75	6.88	9.47	13.18	2.25	1.28
pH at 25 Degrees C	Std. Units	7.2	7.3	7	7	7.7	7.1	7	7.3
Bicarbonate Alkalinity as CaCO3	mg/L	430	410	--	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	<4.6	<4.6	--	--	--	--	--	--
Iron, dissolved	ug/L	15000	17000	13000	--	--	--	--	--
Manganese, dissolved	ug/L	4800	5700	--	--	--	--	--	--
Molybdenum, dissolved	ug/L	8	8.6	--	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	430	410	--	--	--	--	--	--
Iron, total	ug/L	15000	17000	--	15000	11000	16000	13000	23000
Magnesium, total	ug/L	31000	31000	--	--	--	--	--	--
Manganese, total	ug/L	4800	6000	--	--	--	--	--	--
Potassium, total	ug/L	2200	2000	--	--	--	--	--	--
Sodium, total	ug/L	56000	57000	--	--	--	--	--	--
Lithium, dissolved	ug/L	<2.5	<2.5	--	--	--	--	--	--

Single Location
Name: IPL - Burlington

Location ID: MW-312

Number of Sampling Dates: 14

Parameter Name	Units	6/6/2019	10/10/2019	6/3/2020	10/15/2020	3/1/2021	4/19/2021	10/14/2021	4/6/2022	4/26/2023	8/1/2023	10/3/2023	4/23/2024	10/22/2024	4/29/2025
Boron	ug/L	6100	6600	6700	6500	--	5800	5300	6900	--	--	--	--	--	--
Calcium	mg/L	67	71	74	78	--	84	70	69	--	--	--	--	--	--
Chloride	mg/L	27	25	36	23	--	20	24	25	--	--	--	--	--	--
Fluoride	mg/L	1.1	0.25	0.57	<0.23	--	0.33	<0.28	<0.22	--	--	--	--	--	--
Field pH	Std. Units	6.99	7.19	7.13	7.37	7.07	7.22	7.2	7.35	6.86	6.95	6.83	6.9	6.89	7.07
Sulfate	mg/L	220	230	200	210	--	190	190	230	--	--	--	--	--	--
Total Dissolved Solids	mg/L	540	510	670	560	--	540	480	490	--	--	--	--	--	--
Antimony	ug/L	<0.53	<0.53	<0.58	<0.51	--	<1.1	<1.1	<0.69	--	--	--	--	--	--
Arsenic	ug/L	14	15	22	19	--	18	17	12	--	--	--	--	--	--
Barium	ug/L	160	150	190	200	--	200	170	130	--	--	--	--	--	--
Beryllium	ug/L	<0.27	<0.54	<0.27	<0.27	--	<0.27	<0.27	<0.27	--	--	--	--	--	--
Cadmium	ug/L	<0.077	0.044	0.095	0.066	--	0.053	0.086	0.09	--	--	--	--	--	--
Chromium	ug/L	<0.98	<0.98	<1.1	<1.1	--	<1.1	<1.1	<1.1	--	--	--	--	--	--
Cobalt	ug/L	0.65	0.36	0.67	0.5	--	0.54	0.42	0.28	--	--	--	--	--	--
Lead	ug/L	0.54	<0.27	<0.27	<0.11	--	<0.21	<0.21	<0.24	--	--	--	--	--	--
Lithium	ug/L	24	27	22	27	--	30	24	28	11	18	18	19	19	14
Mercury	ug/L	<0.1	--	<0.1	<0.1	--	<0.15	--	<0.11	--	--	--	--	--	--
Molybdenum	ug/L	290	280	320	290	--	310	240	210	28	37	37	31	36	40
Selenium	ug/L	<1	<1	<1	<1	--	<0.96	<0.96	<0.96	--	--	--	--	--	--
Thallium	ug/L	<0.27	--	<0.26	--	--	<0.26	<0.26	<0.26	--	--	--	--	--	--
Total Radium	pCi/L	0.875	0.438	0.543/0.543	0.627	--	0.218	0.071	0.443	--	--	--	--	--	--
Radium-226	pCi/L	0.301	0.433	0.356/0.356	0.443	--	0.218	0.123	0.296	--	--	--	--	--	--
Radium-228	pCi/L	0.574	0.00445	<0.323/0.187	0.184	--	-0.00944	-0.0521	0.147	--	--	--	--	--	--
Field Oxidation Potential	mV	-146.4	-163.8	53.3	-203.1	-192.4	-162.9	-143.4	-155.7	-30.3	-108.6	-161.4	-100	-110.3	-108.6
Field Specific Conductance	umhos/cm	783	785	878	854	814	875	688	746	853	1030	884	778	845	550
Field Temperature	deg C	14.4	15.6	14.7	15.1	14.1	13.7	15.7	14	6.9	10.8	11.3	10.8	11.8	11.2
Groundwater Elevation	feet	--	--	524.05	518.68	520.12	522.2	518.78	522.51	524.68	517.93	518.03	520.93	518.15	522.43
Oxygen, Dissolved	mg/L	0.12	8.75	0.17	0.13	0.14	0.12	0.2	0.06	1.27	1.81	0.13	0.25	0.35	0.01
Turbidity	NTU	2.86	2.56	21.16	0.02	0.89	8.82	13.1	23	9.97	36.5	5.26	13.65	5.67	7.29
pH at 25 Degrees C	Std. Units	7.5	7.3	7.1	7.2	--	7.4	7.2	7.4	--	--	--	--	--	--
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	240	190	190	210	150	--	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	<3.8	<4.6	<4.2	<4.6	<4.6	--	--	--	--	--	--
Iron, dissolved	ug/L	--	--	--	11000	9800	11000	8500	5200	3900	--	--	--	--	--
Manganese, dissolved	ug/L	--	--	--	8200	7500	7800	5900	7800	--	--	--	--	--	--
Molybdenum, dissolved	ug/L	--	--	--	300	300	300	250	210	--	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	--	--	240	190	190	210	150	--	--	--	--	--	--
Iron, total	ug/L	--	--	--	11000	10000	11000	8500	5700	--	24000	20000	16000	15000	9600
Magnesium, total	ug/L	--	--	--	12000	12000	13000	9700	7700	--	--	--	--	--	--
Manganese, total	ug/L	--	--	--	7900	7900	8900	5900	8000	--	--	--	--	--	--
Potassium, total	ug/L	--	--	--	11000	13000	11000	11000	13000	--	--	--	--	--	--
Sodium, total	ug/L	--	--	--	73000	74000	76000	68000	67000	--	--	--	--	--	--
Lithium, dissolved	ug/L	--	--	--	--	--	--	23	28	--	--	--	--	--	--

Single Location
Name: IPL - Burlington

Location ID: MW-313

Number of Sampling Dates: 15

Parameter Name	Units	6/6/2019	10/10/2019	6/3/2020	10/15/2020	3/2/2021	4/19/2021	10/13/2021	4/6/2022	10/20/2022	4/25/2023	8/1/2023	10/4/2023	4/24/2024	10/22/2024	4/28/2025
Boron	ug/L	7400	8500	8600	7600	--	6900	4800	5700	1400	--	--	--	--	--	--
Calcium	mg/L	110	120	120	110	--	120	70	57	37	--	--	--	--	--	--
Chloride	mg/L	85	51	83	50	--	72	230	200	26	--	--	--	--	--	--
Fluoride	mg/L	0.33	0.28	0.52	<0.23	--	<0.28	0.47	<0.22	<0.22	--	--	--	--	--	--
Field pH	Std. Units	6.94	7.06	7.03	7.16	6.98	7.09	7.25	7.14	7.65	7.2	7.1	7	7.05	6.98	7.15
Sulfate	mg/L	210	210	230	170	--	120	230	200	23	--	--	--	--	--	--
Total Dissolved Solids	mg/L	700	520	830	640	--	680	740	620	320	--	--	--	--	--	--
Antimony	ug/L	<0.53	<0.53	<0.58	<0.51	--	<1.1	<1.1	<0.69	<0.69	--	--	--	--	--	--
Arsenic	ug/L	5.5	6.3	6.9	5.5	--	5.2	4.7	4.3	10	--	--	--	--	--	--
Barium	ug/L	510	490	680	610	--	630	390	290	810	--	--	--	--	--	--
Beryllium	ug/L	<0.27	<1.1	<0.27	<0.27	--	<0.27	<0.27	<0.27	<0.27	--	--	--	--	--	--
Cadmium	ug/L	<0.077	<0.039	0.039	<0.049	--	<0.051	0.069	0.086	<0.055	--	--	--	--	--	--
Chromium	ug/L	<0.98	<0.98	<1.1	<1.1	--	<1.1	<1.1	<1.1	<1.1	--	--	--	--	--	--
Cobalt	ug/L	0.41	0.32	0.23	0.19	--	0.2	<0.19	0.33	<0.19	--	--	--	--	--	--
Lead	ug/L	<0.27	0.31	<0.27	<0.11	--	<0.21	<0.21	<0.24	<0.24	--	--	--	--	--	--
Lithium	ug/L	43	62	52	51	--	36	18	18	32	9.9	12	13	15	17	15
Mercury	ug/L	<0.1	--	0.13	<0.1	--	<0.15	--	<0.11	<0.11	--	--	--	--	--	--
Molybdenum	ug/L	130	110	130	100	--	140	170	190	39	18	44	52	51	47	41
Selenium	ug/L	<1	<1	<1	<1	--	<0.96	<0.96	<0.96	<0.96	--	--	--	--	--	--
Thallium	ug/L	<0.27	--	<0.26	--	--	<0.26	<0.26	<0.26	<0.26	--	--	--	--	--	--
Total Radium	pCi/L	0.987	1.7	1.81/1.81	1.26	--	2.3	1.6	1.36	1.11	--	--	--	--	--	--
Radium-226	pCi/L	0.532	0.968	1.18/1.18	0.52	--	0.861	0.524	0.332	0.434	--	--	--	--	--	--
Radium-228	pCi/L	0.455	0.736	0.631/0.631	0.739	--	1.44	1.07	1.03	0.676	--	--	--	--	--	--
Field Oxidation Potential	mV	-141.6	-163.4	50.9	-183.3	-148	-152.8	-117.9	-153.5	-181	-95.7	-152	-168.8	-112.7	-136.8	-90.3
Field Specific Conductance	umhos/cm	1059	1007	1099	999	1224	1165	1198	1076	477	643.3	817	823	679	627.2	574.9
Field Temperature	deg C	14.9	16.04	17.2	15.3	14.8	14.5	15.9	14.4	19.6	7.1	9.4	11.2	9.8	10.5	10.5
Groundwater Elevation	feet	--	--	524.02	518.7	520.18	522.23	518.72	522.48	512.08	524.37	518.09	518.18	520.87	518.12	522.36
Oxygen, Dissolved	mg/L	0.07	0.37	0.29	0.14	0.13	0.21	0.1	0.07	0	0.13	-0.02	0.11	0.23	0.02	0.04
Turbidity	NTU	7.23	11.03	50.81	14.3	7.46	4.54	24.8	15	185	1.91	45.12	9.58	24.48	1.7	0.87
pH at 25 Degrees C	Std. Units	7.4	7.2	7.1	7.2	--	7.3	7	7.2	7.4	--	--	--	--	--	--
Bicarbonate Alkalinity as CaCO3	mg/L	--	--	--	380	310	190	110	110	170	160	230	250	310	240	220
Carbonate Alkalinity as CaCO3	mg/L	--	--	--	<3.8	<2.3	<4.6	<4.6	<4.6	<4.6	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Iron, dissolved	ug/L	--	--	--	14000	18000	18000	9800	7400	3600	6600	--	--	--	--	--
Manganese, dissolved	ug/L	--	--	--	--	7300	8400	4700	4200	2000	--	--	--	--	--	--
Molybdenum, dissolved	ug/L	--	--	--	100	150	140	180	180	47	--	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	--	--	380	310	190	110	110	170	160	230	250	310	240	220
Iron, total	ug/L	--	--	--	15000	19000	18000	11000	7900	16000	--	19000	14000	9300	8600	8000
Magnesium, total	ug/L	--	--	--	21000	28000	29000	16000	12000	6000	10000	17000	15000	12000	12000	11000
Manganese, total	ug/L	--	--	--	6300	8100	8700	4900	4300	2700	3200	6200	5900	4600	4900	3700
Potassium, total	ug/L	--	--	--	14000	9500	9900	5500	6200	15000	--	--	--	--	--	--
Sodium, total	ug/L	--	--	--	58000	82000	75000	160000	140000	47000	--	--	--	--	--	--
Lithium, dissolved	ug/L	--	--	--	53	36	36	19	19	32	--	--	--	--	--	--

Single Location
Name: IPL - Burlington

Location ID: MW-313A

Number of Sampling Dates: 13

Parameter Name	Units	9/9/2020	10/15/2020	3/1/2021	4/19/2021	10/13/2021	4/6/2022	10/20/2022	4/25/2023	8/2/2023	10/4/2023	4/25/2024	10/22/2024	4/28/2025
Boron	ug/L	4300	4200	--	4100	3500	4400	2700	--	--	--	--	--	--
Calcium	mg/L	48	44	--	42	30	28	18	--	--	--	--	--	--
Chloride	mg/L	210	200	--	140	100	69	57	--	--	--	--	--	--
Fluoride	mg/L	<0.23	<0.23	--	0.46	0.38	0.24	<0.22	--	--	--	--	--	--
Field pH	Std. Units	7.6	7.64	7.48	7.58	7.53	7.62	7.72	7.59	7.69	7.49	7.43	7.26	7.5
Sulfate	mg/L	200	190	--	150	140	110	52	--	--	--	--	--	--
Total Dissolved Solids	mg/L	730	660	--	580	440	430	310	--	--	--	--	--	--
Antimony	ug/L	<0.51	<0.51	--	<1.1	<1.1	<0.69	<0.69	--	--	--	--	--	--
Arsenic	ug/L	<0.88	<0.88	--	<0.75	<0.75	<0.75	<0.75	--	--	--	--	--	--
Barium	ug/L	270	270	--	240	150	170	110	--	--	--	--	--	--
Beryllium	ug/L	<0.27	<0.27	--	<0.27	<0.27	<0.27	<0.27	--	--	--	--	--	--
Cadmium	ug/L	<0.049	<0.049	--	<0.051	<0.051	<0.055	<0.055	--	--	--	--	--	--
Chromium	ug/L	<1.1	<1.1	--	<1.1	<1.1	<1.1	<1.1	--	--	--	--	--	--
Cobalt	ug/L	<0.091	<0.091	--	<0.091	<0.19	<0.19	<0.19	--	--	--	--	--	--
Lead	ug/L	<0.11	<0.11	--	<0.21	<0.21	<0.24	<0.24	--	--	--	--	--	--
Lithium	ug/L	13	13	15	14	11	12	7	<2.5	4.1	4.8	5.6	5.8	6
Mercury	ug/L	<0.1	<0.1	--	<0.15	--	<0.11	<0.11	--	--	--	--	--	--
Molybdenum	ug/L	120	120	110	100	100	100	64	2.8	4.6	3.5	5.2	5.8	8.3
Selenium	ug/L	<1	<1	--	<0.96	<0.96	<0.96	<0.96	--	--	--	--	--	--
Thallium	ug/L	<0.26	--	--	<0.26	<0.26	<0.26	<0.26	--	--	--	--	--	--
Total Radium	pCi/L	1.5	0.914	--	1.09	1.76	0.828	0.586	--	--	--	--	--	--
Radium-226	pCi/L	0.513	0.431	--	0.428	0.496	0.333	0.206	--	--	--	--	--	--
Radium-228	pCi/L	0.984	0.483	--	0.659	1.26	0.494	0.38	--	--	--	--	--	--
Field Oxidation Potential	mV	-164.4	-190.1	-195.9	-172.1	-117.7	-158	-105	-108.6	-174	-176.3	-119.3	-142.5	-118.7
Field Specific Conductance	umhos/cm	1243	1133	927	1023	757	695	621	437.3	457	433.6	438.1	421.8	438.7
Field Temperature	deg C	15.3	14.8	14.1	14.2	15.4	14	17.06	5.5	7.3	8.9	8	11.5	10.2
Groundwater Elevation	feet	515.36	518.61	520.02	522.11	518.62	522.38	511.86	524.29	518	518.05	520.87	518.2	522.24
Oxygen, Dissolved	mg/L	0.21	0.1	0.12	0.09	0.11	0.07	0	0.16	0.27	0.69	0.27	0.29	0
Turbidity	NTU	0	0.02	0.78	1.71	7.7	23	10	0.02	0.81	3.23	10.93	6.68	1.41
pH at 25 Degrees C	Std. Units	7.7	7.5	--	7.7	7.7	7.7	7.9	--	--	--	--	--	--
Bicarbonate Alkalinity as CaCO3	mg/L	--	88	94	97	130	120	170	--	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	--	<1.9	<2.3	<4.3	<4.6	<4.6	<4.6	--	--	--	--	--	--
Iron, dissolved	ug/L	--	1700	1400	1400	920	850	610	2000	--	--	--	--	--
Manganese, dissolved	ug/L	--	680	530	600	420	350	250	--	--	--	--	--	--
Molybdenum, dissolved	ug/L	--	120	100	100	110	97	63	--	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	--	88	94	97	130	120	170	--	--	--	--	--	--
Iron, total	ug/L	--	1600	1400	1500	960	2000	910	--	2300	2000	1900	2400	2400
Magnesium, total	ug/L	--	4300	3400	3900	2400	2100	1400	--	--	--	--	--	--
Manganese, total	ug/L	--	670	530	600	420	370	290	--	--	--	--	--	--
Potassium, total	ug/L	--	12000	11000	11000	7600	7100	7200	--	--	--	--	--	--
Sodium, total	ug/L	--	160000	150000	150000	130000	120000	96000	--	--	--	--	--	--
Lithium, dissolved	ug/L	--	--	15	14	10	11	7.3	--	--	--	--	--	--

Single Location
Name: IPL - Burlington

Location ID: MW-313B
 Number of Sampling Dates: 11

Parameter Name	Units	7/1/2021	10/13/2021	2/22/2022	4/6/2022	10/20/2022	4/25/2023	8/2/2023	10/4/2023	4/25/2024	10/22/2024	4/28/2025
Boron	ug/L	4300	4200	5500	5800	4400	--	--	--	--	--	--
Calcium	mg/L	70	44	51	55	50	--	--	--	--	--	--
Chloride	mg/L	160	89	56	52	85	--	--	--	--	--	--
Fluoride	mg/L	0.44	<0.28	<0.22	<0.22	<0.22	--	--	--	--	--	--
Field pH	Std. Units	7.62	7.54	7.64	7.5	7.51	7.41	7.47	7.13	7.3	7.21	7.48
Sulfate	mg/L	170	140	120	120	150	--	--	--	--	--	--
Total Dissolved Solids	mg/L	620	420	360	390	490	--	--	--	--	--	--
Antimony	ug/L	<1.1	<1.1	<0.69	<0.69	<0.69	--	--	--	--	--	--
Arsenic	ug/L	<0.75	<0.75	<0.75	<0.75	<0.75	--	--	--	--	--	--
Barium	ug/L	210	170	190	210	260	--	--	--	--	--	--
Beryllium	ug/L	<0.27	<0.27	<0.27	<0.27	<0.27	--	--	--	--	--	--
Cadmium	ug/L	0.06	0.09	<0.055	<0.055	<0.055	--	--	--	--	--	--
Chromium	ug/L	<1.1	<1.1	<1.1	<1.1	<1.1	--	--	--	--	--	--
Cobalt	ug/L	0.25	<0.19	<0.19	<0.19	<0.19	--	--	--	--	--	--
Lead	ug/L	<0.21	<0.21	<0.24	<0.24	0.3	--	--	--	--	--	--
Lithium	ug/L	18	13	13	13	14	4.9	5.1	5.9	6.6	6.5	7.1
Mercury	ug/L	<0.15	--	<0.11	<0.11	<0.11	--	--	--	--	--	--
Molybdenum	ug/L	100	100	89	100	110	14	9.3	11	13	14	20
Selenium	ug/L	<0.96	<0.96	<0.96	<0.96	<0.96	--	--	--	--	--	--
Thallium	ug/L	<0.26	<0.26	<0.26	<0.26	<0.26	--	--	--	--	--	--
Total Radium	pCi/L	1	0.457	0.912	1.01	1.45	--	--	--	--	--	--
Radium-226	pCi/L	0.447	0.356	0.24	0.281	0.349	--	--	--	--	--	--
Radium-228	pCi/L	0.557	0.101	0.672	0.73	1.1	--	--	--	--	--	--
Field Oxidation Potential	mV	-5.1	-90.8	210	-144.4	-105	-66	-145.8	-135.6	-94.7	-125.6	-119.6
Field Specific Conductance	umhos/cm	1052	714	665	622.6	804	571.9	512	546.2	483.1	455.7	496.8
Field Temperature	deg C	15.2	15.4	13.7	14.1	17.99	9.7	8.4	8.8	8.6	10.3	9.9
Groundwater Elevation	feet	519.51	518.72	518.88	522.45	511.91	524.39	518.01	518.12	520.92	518.24	522.27
Oxygen, Dissolved	mg/L	0.37	0.09	0.17	0.01	0	1.33	1.06	0.29	0.29	0.06	0.01
Turbidity	NTU	0	8.6	2.4	9	4	13.7	1.76	6.2	11.59	2.08	0.79
pH at 25 Degrees C	Std. Units	6.4	7.7	7.6	7.6	7.7	--	--	--	--	--	--
Bicarbonate Alkalinity as CaCO3	mg/L	100	140	140	140	160	--	--	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	<4.6	<4.6	<4.6	<4.6	<4.6	--	--	--	--	--	--
Iron, dissolved	ug/L	880	700	1000	1000	750	3400	--	--	--	--	--
Manganese, dissolved	ug/L	570	390	460	480	350	--	--	--	--	--	--
Molybdenum, dissolved	ug/L	100	110	91	97	100	--	--	--	--	--	--
Total Alkalinity as CaCO3	mg/L	100	140	140	140	160	--	--	--	--	--	--
Iron, total	ug/L	990	730	1100	1100	1300	--	2800	2600	2100	2200	2800
Magnesium, total	ug/L	9500	5800	7200	7800	4800	--	--	--	--	--	--
Manganese, total	ug/L	590	410	430	510	410	--	--	--	--	--	--
Potassium, total	ug/L	9500	6800	5500	5800	9100	--	--	--	--	--	--
Sodium, total	ug/L	130000	110000	69000	67000	100000	--	--	--	--	--	--
Lithium, dissolved	ug/L	18	13	12	13	14	--	--	--	--	--	--

Single Location

Name: IPL - Burlington

Location ID: MW-314

Number of Sampling Dates: 6

Parameter Name	Units	4/6/2022	10/20/2022	8/3/2023	10/5/2023	4/25/2024	10/22/2024
Boron	ug/L	360	160	240	160	130	160
Calcium	mg/L	150	140	150	180	160	160
Chloride	mg/L	13	14	16	18	12	11
Fluoride	mg/L	<0.22	<0.22	<0.38	<0.38	<0.38	<0.38
Field pH	Std. Units	6.79	7.11	6.68	6.69	6.64	6.64
Sulfate	mg/L	130	85	110	130	93	75
Total Dissolved Solids	mg/L	630	560	640	720	650	660
Antimony	ug/L	<0.69	<0.69	<1	<1	<1	<1
Arsenic	ug/L	4.1	2.1	3.7	4.3	3.9	4.1
Barium	ug/L	330	290	320	330	290	280
Beryllium	ug/L	<0.27	<0.27	<0.33	<0.33	<0.33	<0.33
Cadmium	ug/L	<0.055	<0.055	<0.1	<0.1	<0.1	<0.1
Chromium	ug/L	<1.1	<1.1	<1.1	<1.1	<1.2	<1.2
Cobalt	ug/L	0.48	0.27	0.86	0.37	0.59	0.42
Lead	ug/L	<0.24	<0.24	1.3	<0.24	<0.26	<0.26
Lithium	ug/L	3.9	3.1	5.8	4.6	4.4	4.4
Mercury	ug/L	<0.11	<0.11	<0.14	<0.14	<0.11	<1.1
Molybdenum	ug/L	1.2	<1.2	2.1	<0.91	1.7	1.3
Selenium	ug/L	<0.96	<0.96	1.9	<1.4	<1.4	<1.4
Thallium	ug/L	<0.26	<0.26	<0.26	<0.26	<0.57	<0.57
Total Radium	pCi/L	1.3	1.14	--	1.77	0.923	1.81
Radium-226	pCi/L	0.506	0.458	--	0.633	0.312	0.567
Radium-228	pCi/L	0.795	0.685	--	1.13	0.611	1.25
Field Oxidation Potential	mV	-82	-120	-111	-130.7	-72.1	-105.5
Field Specific Conductance	umhos/cm	1001	930	1149	1313	1148	1078
Field Temperature	deg C	11.4	13.3	12.3	13.2	11.7	13.9
Groundwater Elevation	feet	522.27	517.78	518.28	518.02	520.95	518.18
Oxygen, Dissolved	mg/L	0.13	0	0.3	0.35	0.38	0.05
Turbidity	NTU	35	5	38.36	18.75	12.56	1.96
pH at 25 Degrees C	Std. Units	7.1	7.1	6.8	7.8	6.9	6.9
Bicarbonate Alkalinity as CaCO3	mg/L	460	450	--	--	--	--
Carbonate Alkalinity as CaCO3	mg/L	<4.6	<4.6	--	--	--	--
Iron, dissolved	ug/L	12000	12000	--	--	--	--
Manganese, dissolved	ug/L	7700	5000	--	--	--	--
Molybdenum, dissolved	ug/L	1.6	1.4	--	--	--	--
Total Alkalinity as CaCO3	mg/L	460	450	--	--	--	--
Iron, total	ug/L	13000	11000	34000	26000	15000	13000
Magnesium, total	ug/L	47000	40000	--	--	--	--
Manganese, total	ug/L	7800	5500	--	--	--	--
Potassium, total	ug/L	550	440	--	--	--	--
Sodium, total	ug/L	11000	11000	--	--	--	--
Lithium, dissolved	ug/L	4.8	3.6	--	--	--	--



Appendix E

Statistical Evaluation

E1 October 2024 Statistical Evaluation

Confidence Interval

Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev Printed 2/10/2025, 1:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (ug/L)	MW-301	61.01	3.003	79.8	No	8	0	None	ln(x)	0.01	Param.
Arsenic (ug/L)	MW-302	100	3.1	79.8	No	8	0	None	No	0.004	NP (normality)
Arsenic (ug/L)	MW-303	19.15	6.778	79.8	No	8	0	None	No	0.01	Param.
Arsenic (ug/L)	MW-304	40.48	8.023	79.8	No	8	0	None	No	0.01	Param.
Arsenic (ug/L)	MW-305	3.505	0.372	79.8	No	8	37.5	Kapla...	No	0.01	Param.
Arsenic (ug/L)	MW-306	47.47	29.78	79.8	No	8	0	None	No	0.01	Param.
Arsenic (ug/L)	MW-307	38.62	7.928	79.8	No	8	0	None	ln(x)	0.01	Param.
Arsenic (ug/L)	MW-308	73	1.9	79.8	No	8	0	None	No	0.004	NP (normality)
Arsenic (ug/L)	MW-309	89	21	79.8	No	8	0	None	No	0.004	NP (normality)
Arsenic (ug/L)	MW-310 (bg)	55.77	23.23	79.8	No	8	0	None	No	0.01	Param.
Arsenic (ug/L)	MW-311 (bg)	55	4.7	79.8	No	8	0	None	No	0.004	NP (normality)
Cobalt (ug/L)	MW-301	10.68	0.8853	6	No	8	0	None	No	0.01	Param.
Cobalt (ug/L)	MW-302	42.6	0.2688	6	No	8	0	None	ln(x)	0.01	Param.
Cobalt (ug/L)	MW-303	1.658	0.439	6	No	8	0	None	No	0.01	Param.
Cobalt (ug/L)	MW-304	16.72	0.0779	6	No	8	37.5	Kapla...	ln(x)	0.01	Param.
Cobalt (ug/L)	MW-305	39.62	0.1598	6	No	8	0	None	ln(x)	0.01	Param.
Cobalt (ug/L)	MW-306	0.42	0.091	6	No	8	75	None	No	0.004	NP (NDs)
Cobalt (ug/L)	MW-307	0.92	0.091	6	No	8	62.5	None	No	0.004	NP (NDs)
Cobalt (ug/L)	MW-308	2.69	0.1062	6	No	8	37.5	Kapla...	ln(x)	0.01	Param.
Cobalt (ug/L)	MW-309	0.9644	0.08938	6	No	8	12.5	None	No	0.01	Param.
Cobalt (ug/L)	MW-310 (bg)	3.142	0.7801	6	No	8	0	None	No	0.01	Param.
Cobalt (ug/L)	MW-311 (bg)	2.979	0.3945	6	No	8	0	None	ln(x)	0.01	Param.
Lithium (ug/L)	MW-301	14.95	8.054	40	No	8	12.5	None	No	0.01	Param.
Lithium (ug/L)	MW-302	76.69	46.56	40	Yes	8	0	None	No	0.01	Param.
Lithium (ug/L)	MW-303	67.15	22.35	40	No	8	0	None	No	0.01	Param.
Lithium (ug/L)	MW-304	500	60	40	Yes	8	0	None	No	0.004	NP (normality)
Lithium (ug/L)	MW-305	42.1	20.9	40	No	8	0	None	No	0.01	Param.
Lithium (ug/L)	MW-306	46.08	26.92	40	No	8	0	None	No	0.01	Param.
Lithium (ug/L)	MW-307	91.03	49.22	40	Yes	8	0	None	No	0.01	Param.
Lithium (ug/L)	MW-308	240	54	40	Yes	8	0	None	No	0.004	NP (normality)
Lithium (ug/L)	MW-309	15	2.8	40	No	8	0	None	No	0.004	NP (normality)
Lithium (ug/L)	MW-310 (bg)	2.5	2.5	40	No	8	100	None	No	0.004	NP (NDs)
Lithium (ug/L)	MW-311 (bg)	2.8	2.5	40	No	8	87.5	None	No	0.004	NP (NDs)
Molybdenum (ug/L)	MW-301	69.42	40.08	100	No	8	0	None	No	0.01	Param.
Molybdenum (ug/L)	MW-302	182.7	50.8	100	No	8	0	None	No	0.01	Param.
Molybdenum (ug/L)	MW-303	174.9	111.1	100	Yes	8	0	None	No	0.01	Param.
Molybdenum (ug/L)	MW-304	351.5	66.09	100	No	8	0	None	ln(x)	0.01	Param.
Molybdenum (ug/L)	MW-305	4.4	1.2	100	No	8	37.5	None	No	0.004	NP (normality)
Molybdenum (ug/L)	MW-306	108.6	29.41	100	No	8	0	None	No	0.01	Param.
Molybdenum (ug/L)	MW-307	320	85	100	No	8	0	None	No	0.004	NP (normality)
Molybdenum (ug/L)	MW-308	587.1	58.14	100	No	8	0	None	No	0.01	Param.
Molybdenum (ug/L)	MW-309	71.11	34.14	100	No	8	0	None	No	0.01	Param.
Molybdenum (ug/L)	MW-310 (bg)	8.001	2.21	100	No	8	0	None	ln(x)	0.01	Param.
Molybdenum (ug/L)	MW-311 (bg)	7.527	3.873	100	No	8	0	None	No	0.01	Param.
Thallium (ug/L)	MW-301	1.5	0.26	2	No	8	75	None	No	0.004	NP (NDs)
Thallium (ug/L)	MW-302	1.8	0.26	2	No	8	75	None	No	0.004	NP (NDs)
Thallium (ug/L)	MW-303	0.57	0.26	2	No	8	100	None	No	0.004	NP (NDs)
Thallium (ug/L)	MW-304	1.2	0.26	2	No	8	87.5	None	No	0.004	NP (NDs)
Thallium (ug/L)	MW-305	0.57	0.26	2	No	8	100	None	No	0.004	NP (NDs)
Thallium (ug/L)	MW-306	0.57	0.26	2	No	8	100	None	No	0.004	NP (NDs)

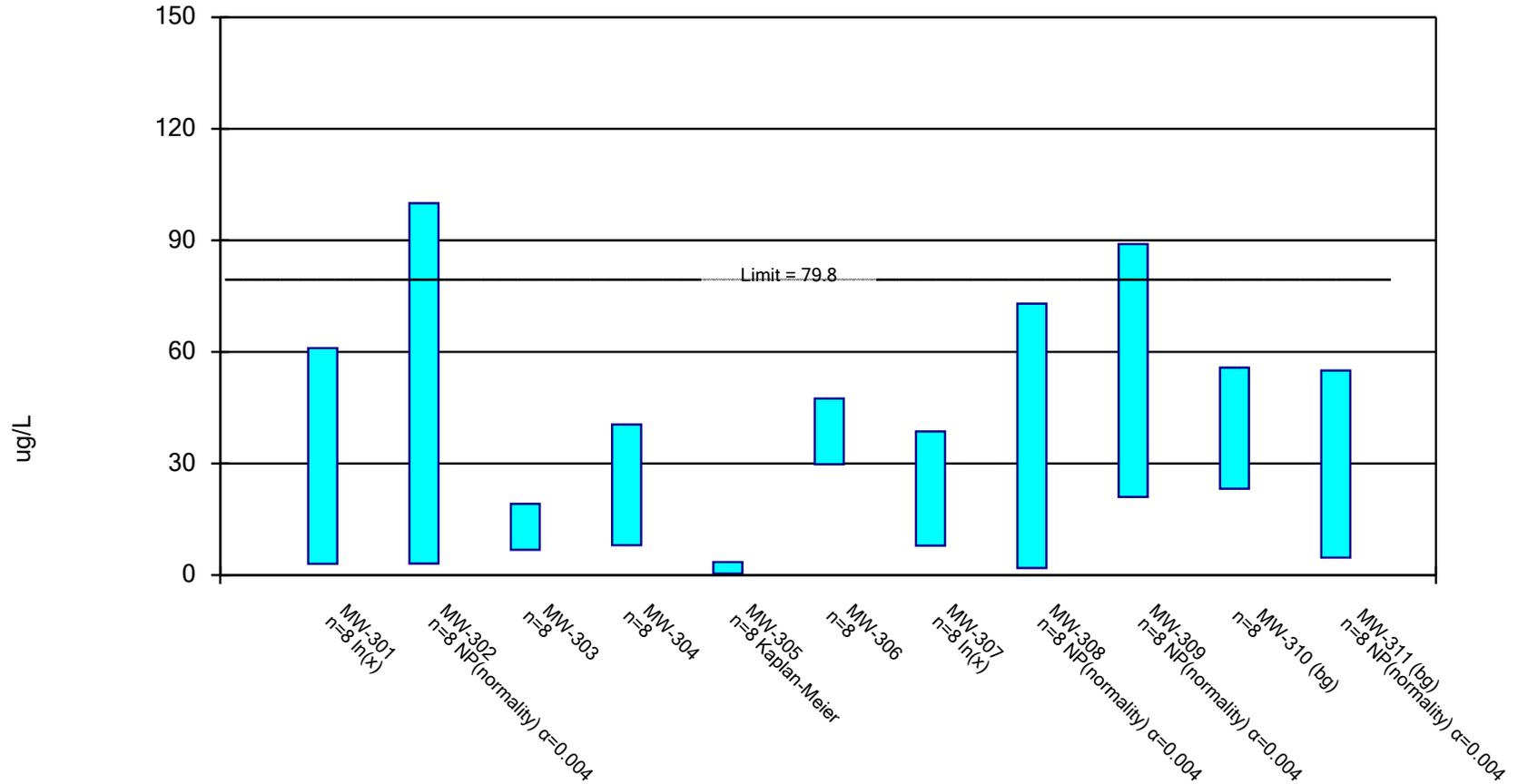
Confidence Interval

Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev Printed 2/10/2025, 1:02 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Thallium (ug/L)	MW-307	0.57	0.26	2	No	8	100	None	No	0.004	NP (NDs)
Thallium (ug/L)	MW-308	0.57	0.26	2	No	8	100	None	No	0.004	NP (NDs)
Thallium (ug/L)	MW-309	1	0.26	2	No	8	100	None	No	0.004	NP (NDs)
Thallium (ug/L)	MW-310 (bg)	0.57	0.26	2	No	8	100	None	No	0.004	NP (NDs)
Thallium (ug/L)	MW-311 (bg)	0.57	0.26	2	No	8	100	None	No	0.004	NP (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: Arsenic Analysis Run 2/10/2025 1:01 PM View: Default

Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Confidence Interval

Constituent: Arsenic (ug/L) Analysis Run 2/10/2025 1:02 PM View: Default
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

	MW-301	MW-302	MW-303	MW-304	MW-305	MW-306	MW-307	MW-308	MW-309
4/19/2021	61		15	41		53			30
4/20/2021					<0.75 (U)		52	73	
10/11/2021						43	34		
10/12/2021		100						59	24
10/13/2021	66		14	32					
10/14/2021					<0.75 (U)				
2/22/2022		94							
4/4/2022								62	21
4/5/2022		86	5.7	44		48	41		
4/6/2022	80				0.92 (J)				
4/24/2023							8.8	1.9 (J)	
4/26/2023	2.1 (J)	3.1	4	1.4 (J)	<0.53 (U)				
4/27/2023						36			21
8/1/2023		15	12	9.6	2		8.2	5.7	
8/2/2023						32			22
8/3/2023	9.8								
10/3/2023	3.8	3.8	14	32	2.7			5.6	
10/4/2023						34	10		89
10/5/2023									
4/23/2024			17	15	3.9			5.3	
4/24/2024	7.1	4.6				32	12		
4/25/2024									21
10/21/2024								4.7	
10/22/2024			22	19	4.4	31	14		
10/23/2024	6.3	6.7							23
Mean	29.51	39.15	12.96	24.25	1.994	38.63	22.5	27.15	31.38
Std. Dev.	33.2	45.17	5.834	15.31	1.527	8.348	17.22	31.34	23.48
Upper Lim.	61.01	100	19.15	40.48	3.505	47.47	38.62	73	89
Lower Lim.	3.003	3.1	6.778	8.023	0.372	29.78	7.928	1.9	21

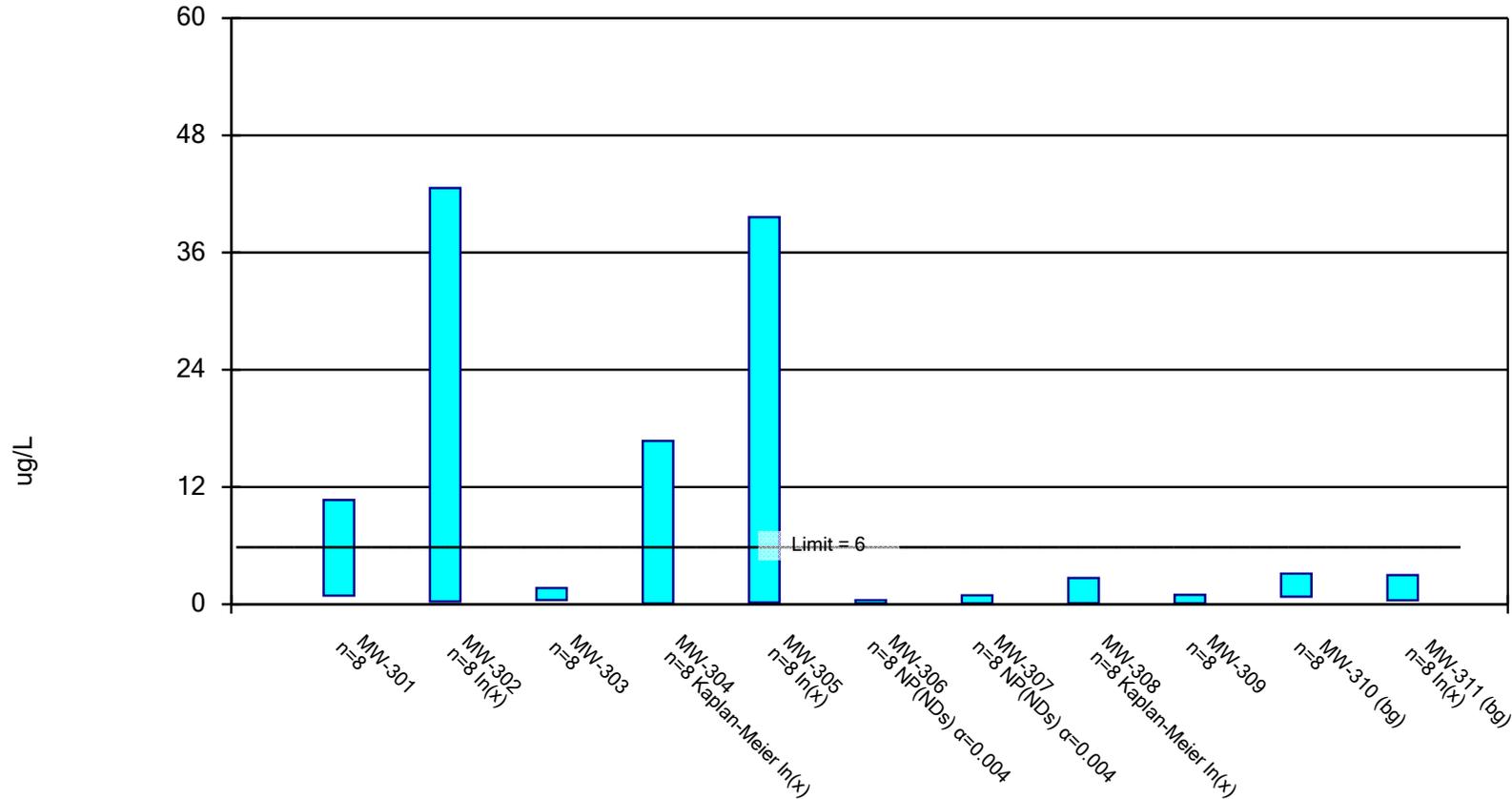
Confidence Interval

Constituent: Arsenic (ug/L) Analysis Run 2/10/2025 1:02 PM View: Default
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

	MW-310 (bg)	MW-311 (bg)
4/19/2021	16 (X)	55 (X)
4/20/2021		
10/11/2021		
10/12/2021	63	22
10/13/2021		
10/14/2021		
2/22/2022		
4/4/2022	52	19
4/5/2022		
4/6/2022		
4/24/2023		
4/26/2023		
4/27/2023	32	4.7
8/1/2023		
8/2/2023		
8/3/2023	47	5.3
10/3/2023		
10/4/2023		
10/5/2023	45	5.5
4/23/2024	24	
4/24/2024		
4/25/2024		6.3
10/21/2024	37	
10/22/2024		5.6
10/23/2024		
Mean	39.5	15.43
Std. Dev.	15.35	17.39
Upper Lim.	55.77	55
Lower Lim.	23.23	4.7

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 2/10/2025 1:01 PM View: Default
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Confidence Interval

Constituent: Cobalt (ug/L) Analysis Run 2/10/2025 1:02 PM View: Default

Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

	MW-301	MW-302	MW-303	MW-304	MW-305	MW-306	MW-307	MW-308	MW-309
4/19/2021	0.81	0.21 (J)	0.42 (J)	<0.091 (U)		<0.091 (U)			0.39 (J)
4/20/2021					0.14 (J)		<0.091 (U)	<0.091	
10/11/2021						<0.19 (U)	<0.19 (U)		
10/12/2021		0.27 (J)						<0.19 (U)	0.29 (J)
10/13/2021	0.74		0.42 (J)	<0.19 (U)					
10/14/2021					0.21 (J)				
4/4/2022								<0.19 (U)	0.42 (J)
4/5/2022		0.21 (J)	0.35 (J)	<0.19 (U)		<0.19 (U)	<0.19 (U)		
4/6/2022	0.7				0.22 (J)				
4/24/2023							0.31 (J)	0.18 (J)	
4/26/2023	4.8	78	1.3	1.3	290				
4/27/2023						0.42 (J)			1.3
8/1/2023		41	1.4	81	9.2		0.92	4.1	
8/2/2023						0.31 (J)			0.61
8/3/2023	8.8								
10/3/2023	12	7.6	1.7	44	11			4.5	
10/4/2023						<0.17 (U)	0.41 (J)		0.95 (J)
10/5/2023									
4/23/2024			1.7	1.5	4.7			1.4	
4/24/2024	10	6.6				<0.17	<0.17		
4/25/2024									0.17 (J)
10/21/2024								0.96	
10/22/2024			1.1	0.55	1.8	<0.17	<0.17		
10/23/2024	8.4	9							<0.17
Mean	5.781	17.86	1.049	16.1	39.66	0.2139	0.3064	1.451	0.5269
Std. Dev.	4.619	27.76	0.5752	30.3	101.2	0.1026	0.2667	1.821	0.4128
Upper Lim.	10.68	42.6	1.658	16.72	39.62	0.42	0.92	2.69	0.9644
Lower Lim.	0.8853	0.2688	0.439	0.0779	0.1598	0.091	0.091	0.1062	0.08938

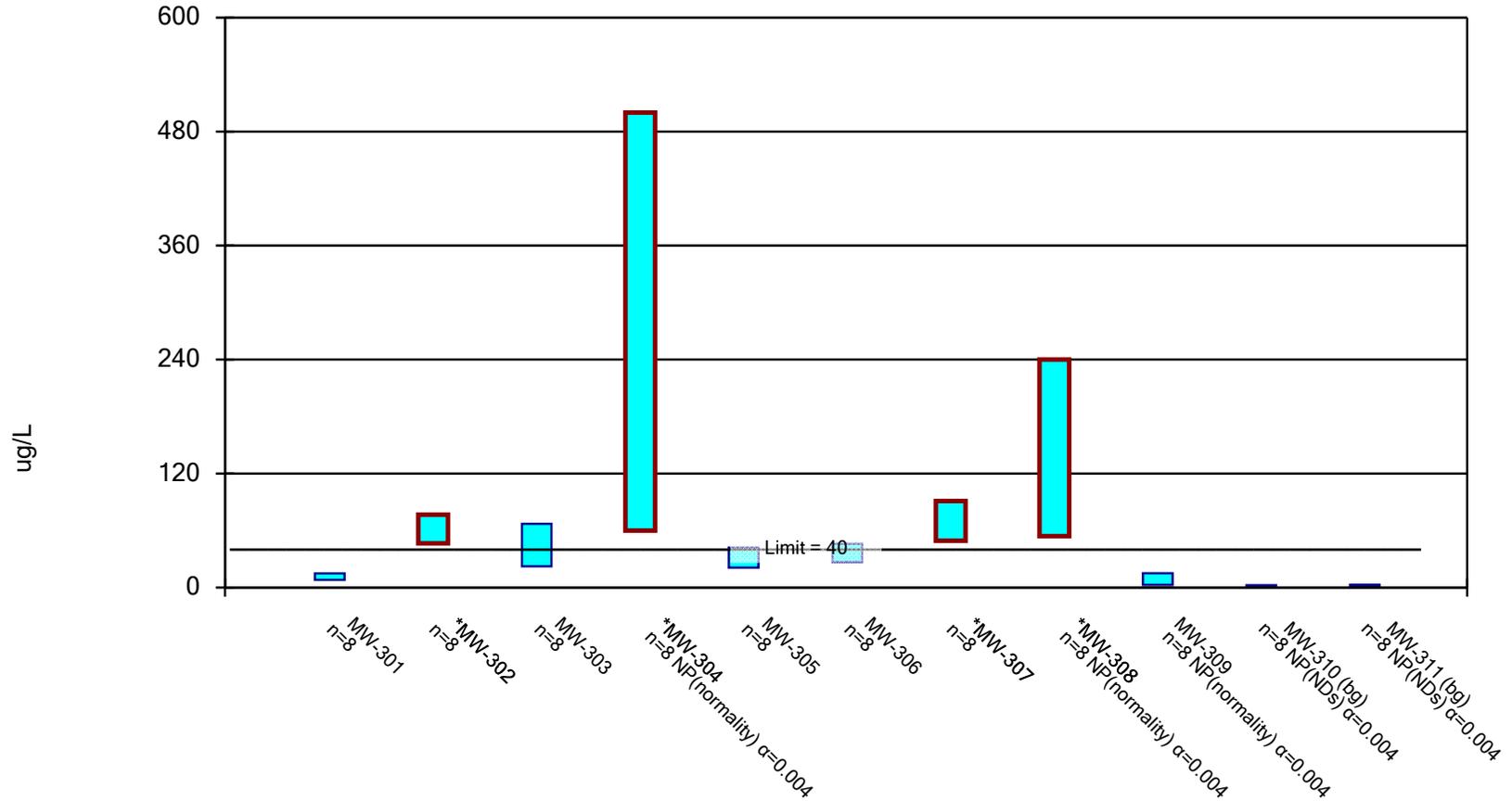
Confidence Interval

Constituent: Cobalt (ug/L) Analysis Run 2/10/2025 1:02 PM View: Default
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

	MW-310 (bg)	MW-311 (bg)
4/19/2021	0.29 (J)	1.4
4/20/2021		
10/11/2021		
10/12/2021	1.4	0.31 (J)
10/13/2021		
10/14/2021		
4/4/2022	1.2	0.3 (J)
4/5/2022		
4/6/2022		
4/24/2023		
4/26/2023		
4/27/2023	3.1	3.8
8/1/2023		
8/2/2023		
8/3/2023	3.8	1.5
10/3/2023		
10/4/2023		
10/5/2023	2.4	0.89
4/23/2024	1.6	
4/24/2024		
4/25/2024		3.4
10/21/2024	1.9	
10/22/2024		0.85
10/23/2024		
Mean	1.961	1.556
Std. Dev.	1.114	1.338
Upper Lim.	3.142	2.979
Lower Lim.	0.7801	0.3945

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 2/10/2025 1:01 PM View: Default

Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Confidence Interval

Constituent: Lithium (ug/L) Analysis Run 2/10/2025 1:02 PM View: Default

Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

	MW-301	MW-302	MW-303	MW-304	MW-305	MW-306	MW-307	MW-308	MW-309
4/19/2021	10	64	66	75		43			3.8 (J)
4/20/2021					36		53	54	
10/11/2021						41	52		
10/12/2021		64		60				58	2.8 (J)
10/13/2021	11		61						
10/14/2021					32				
4/4/2022								57	2.9 (J)
4/5/2022		78	80	74		42	50		
4/6/2022	12				36				
4/24/2023							72	73	
4/26/2023	<10 (U)	66	23	63	37				
4/27/2023						34			4.9 (J)
8/1/2023		51	27	160	18		100	180	
8/2/2023						49			3.5 (J)
8/3/2023	11								
10/3/2023	13	40	31	500	20			220	
10/4/2023						35	95		15 (J)
10/5/2023									
4/23/2024			35	110	25			240	
4/24/2024	14	49				23	79		
4/25/2024									4.8 (J)
10/21/2024								230	
10/22/2024			35	88	48	25	60		
10/23/2024	16	81							4.5 (J)
Mean	11.5	61.63	44.75	141.3	31.5	36.5	70.13	139	5.275
Std. Dev.	3.251	14.21	21.13	148.6	10	9.04	19.72	85.85	4.011
Upper Lim.	14.95	76.69	67.15	500	42.1	46.08	91.03	240	15
Lower Lim.	8.054	46.56	22.35	60	20.9	26.92	49.22	54	2.8

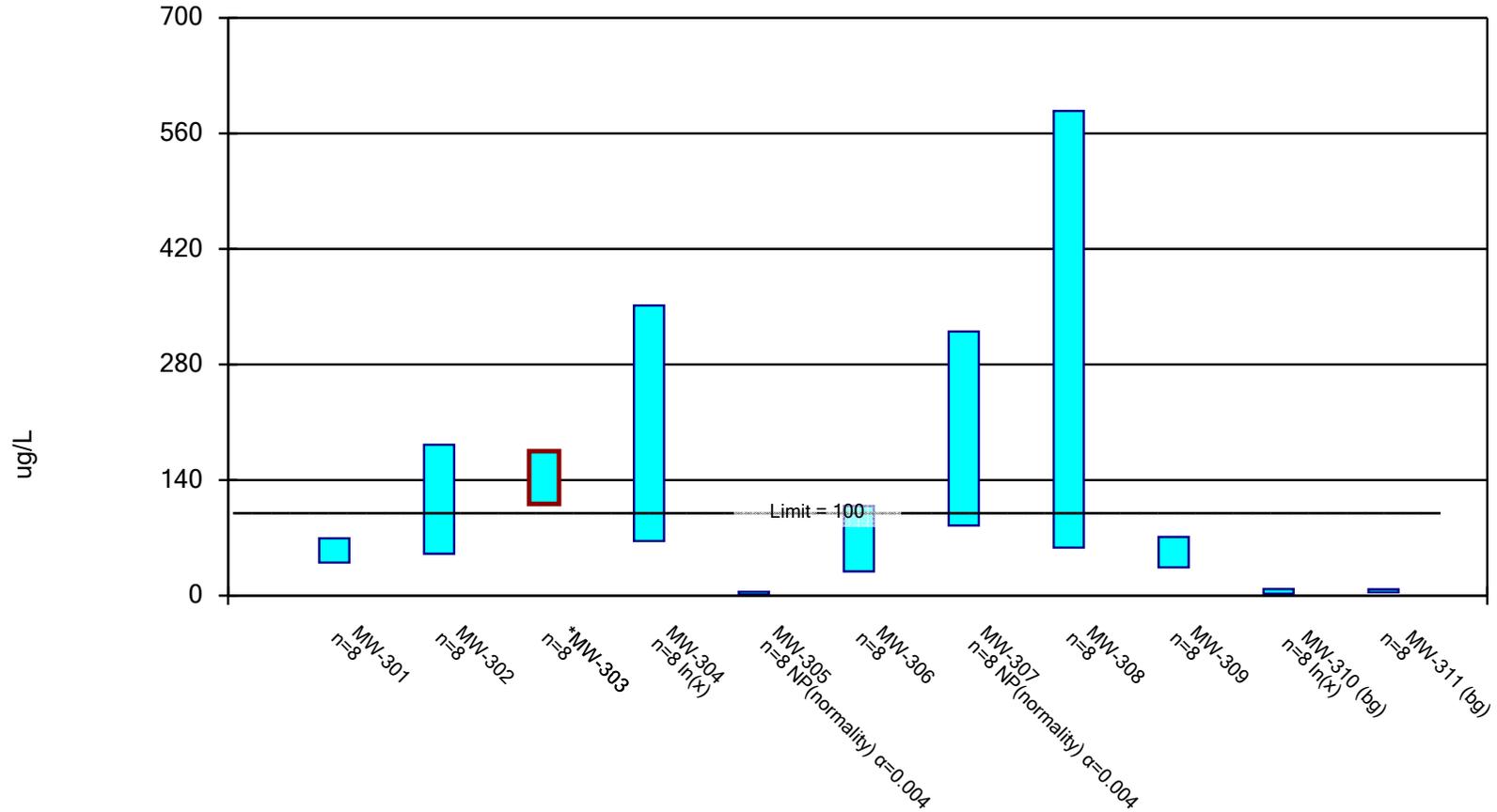
Confidence Interval

Constituent: Lithium (ug/L) Analysis Run 2/10/2025 1:02 PM View: Default
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

	MW-310 (bg)	MW-311 (bg)
4/19/2021	<2.5 (U)	<2.5 (U)
4/20/2021		
10/11/2021		
10/12/2021	<2.5 (U)	<2.5 (U)
10/13/2021		
10/14/2021		
4/4/2022	<2.5 (U)	<2.5 (U)
4/5/2022		
4/6/2022		
4/24/2023		
4/26/2023		
4/27/2023	<2.5 (U)	<2.5 (U)
8/1/2023		
8/2/2023		
8/3/2023	<2.5 (U)	<2.5 (U)
10/3/2023		
10/4/2023		
10/5/2023	<2.5 (U)	<2.5 (U)
4/23/2024	<2.5	
4/24/2024		
4/25/2024		2.8 (J)
10/21/2024	<2.5	
10/22/2024		<2.5
10/23/2024		
Mean	2.5	2.538
Std. Dev.	0	0.1061
Upper Lim.	2.5	2.8
Lower Lim.	2.5	2.5

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 2/10/2025 1:01 PM View: Default

Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Confidence Interval

Constituent: Molybdenum (ug/L) Analysis Run 2/10/2025 1:02 PM View: Default
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

	MW-301	MW-302	MW-303	MW-304	MW-305	MW-306	MW-307	MW-308	MW-309
4/19/2021	46	130	120	100		87			50
4/20/2021					<1.3 (U)		140	120	
10/11/2021						69	85		
10/12/2021		91						81	39
10/13/2021	47		120	59					
10/14/2021					<1.3 (U)				
4/4/2022								100	62
4/5/2022		89	190	85		74	100		
4/6/2022	55				<1.2 (U)				
4/24/2023							320	480	
4/26/2023	29	26	94	190	1.5 (J)				
4/27/2023						12			69
8/1/2023		58	150	100	1.3 (J)		280	220	
8/2/2023						71			84
8/3/2023	73								
10/3/2023	65	180	150	130	2			260	
10/4/2023						36	290		37
10/5/2023									
4/23/2024			160	470	4.3			560	
4/24/2024	64	210				63	320		
4/25/2024									44
10/21/2024								760	
10/22/2024			160	500	4.4	140	290		
10/23/2024	59	150							36
Mean	54.75	116.8	143	204.3	2.162	69	228.1	322.6	52.63
Std. Dev.	13.84	62.22	30.1	177.6	1.373	37.36	101.3	249.5	17.44
Upper Lim.	69.42	182.7	174.9	351.5	4.4	108.6	320	587.1	71.11
Lower Lim.	40.08	50.8	111.1	66.09	1.2	29.41	85	58.14	34.14

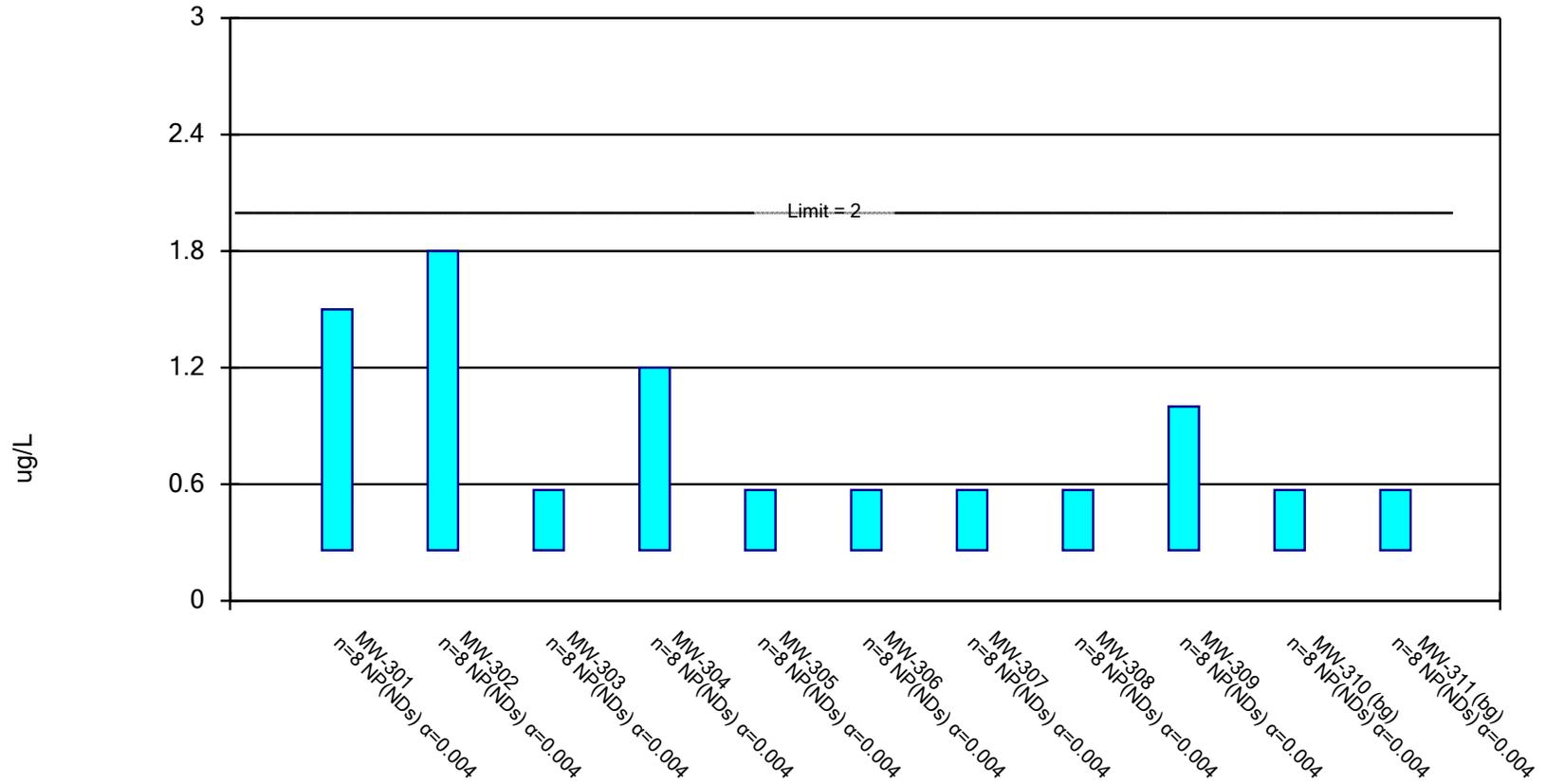
Confidence Interval

Constituent: Molybdenum (ug/L) Analysis Run 2/10/2025 1:02 PM View: Default
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

	MW-310 (bg)	MW-311 (bg)
4/19/2021	14 (X)	4.1
4/20/2021		
10/11/2021		
10/12/2021	4.9	6.9
10/13/2021		
10/14/2021		
4/4/2022	5.2	8.9
4/5/2022		
4/6/2022		
4/24/2023		
4/26/2023		
4/27/2023	1.9 (J)	3.4
8/1/2023		
8/2/2023		
8/3/2023	2.7	5.6
10/3/2023		
10/4/2023		
10/5/2023	3.3	5.8
4/23/2024	3	
4/24/2024		
4/25/2024		4.7
10/21/2024	5.4	
10/22/2024		6.2
10/23/2024		
Mean	5.05	5.7
Std. Dev.	3.836	1.724
Upper Lim.	8.001	7.527
Lower Lim.	2.21	3.873

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 2/10/2025 1:02 PM View: Default
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Confidence Interval

Constituent: Thallium (ug/L) Analysis Run 2/10/2025 1:02 PM View: Default
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

	MW-301	MW-302	MW-303	MW-304	MW-305	MW-306	MW-307	MW-308	MW-309
4/19/2021	1	1.2	<0.26 (U)	<0.26 (U)		<0.26 (U)			<0.26 (U)
4/20/2021					<0.26 (U)		<0.26 (U)	<0.26 (U)	
10/11/2021						<0.26 (U)	<0.26 (U)		
10/12/2021		<0.26 (U)						<0.26 (U)	<0.26 (U)
10/13/2021	<0.26 (U)		<0.26 (U)	<0.26 (U)					
10/14/2021					<0.26 (U)				
4/4/2022								<0.26 (U)	<0.26 (U)
4/5/2022		1.8	<0.26 (U)	<0.26 (U)		<0.26 (U)	<0.26 (U)		
4/6/2022	<0.26 (U)				<0.26 (U)				
4/24/2023							<0.26 (U)	<0.26 (U)	
4/26/2023	<1 (U)	<1 (U)	<0.26 (U)	<0.26 (U)	<0.26 (U)				
4/27/2023						<0.26 (U)			<0.26 (U)
8/1/2023		<0.26 (U)	<0.26 (U)	<0.26 (U)	<0.26 (U)		<0.26 (U)	<0.26 (U)	
8/2/2023						<0.26 (U)			<0.26 (U)
8/3/2023	1.5								
10/3/2023	<0.26 (U)	<0.26 (U)	<0.26 (U)	1.2 (J)	<0.26 (U)			<0.26 (U)	
10/4/2023						<0.26 (U)	<0.26 (U)		<1 (U)
10/5/2023									
4/23/2024			<0.57	<0.57	<0.57			<0.57	
4/24/2024	<0.57	<0.57				<0.57	<0.57		
4/25/2024									<0.57
10/21/2024								<0.57	
10/22/2024			<0.57	<0.57	<0.57	<0.57	<0.57		
10/23/2024	<0.57	<0.57							<0.57
Mean	0.6775	0.74	0.3375	0.455	0.3375	0.3375	0.3375	0.3375	0.43
Std. Dev.	0.4521	0.5544	0.1435	0.332	0.1435	0.1435	0.1435	0.1435	0.2695
Upper Lim.	1.5	1.8	0.57	1.2	0.57	0.57	0.57	0.57	1
Lower Lim.	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26

Confidence Interval

Constituent: Thallium (ug/L) Analysis Run 2/10/2025 1:02 PM View: Default
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

	MW-310 (bg)	MW-311 (bg)
4/19/2021	<0.26 (U)	<0.26 (U)
4/20/2021		
10/11/2021		
10/12/2021	<0.26 (U)	<0.26 (U)
10/13/2021		
10/14/2021		
4/4/2022	<0.26 (U)	<0.26 (U)
4/5/2022		
4/6/2022		
4/24/2023		
4/26/2023		
4/27/2023	<0.26 (U)	<0.26 (U)
8/1/2023		
8/2/2023		
8/3/2023	<0.26 (U)	<0.26 (U)
10/3/2023		
10/4/2023		
10/5/2023	<0.26 (U)	<0.26 (U)
4/23/2024	<0.57	
4/24/2024		
4/25/2024		<0.57
10/21/2024	<0.57	
10/22/2024		<0.57
10/23/2024		
Mean	0.3375	0.3375
Std. Dev.	0.1435	0.1435
Upper Lim.	0.57	0.57
Lower Lim.	0.26	0.26

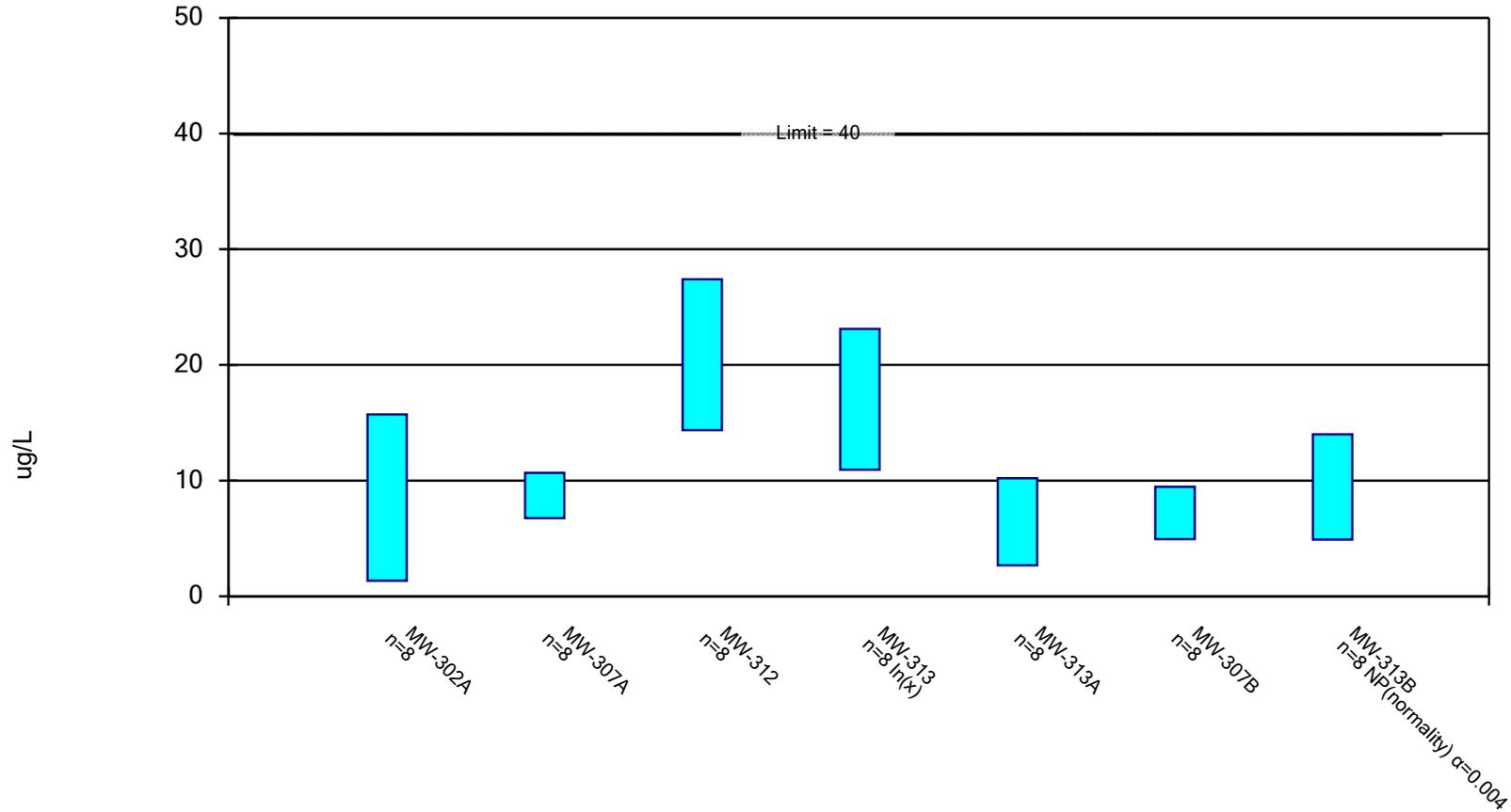
Confidence Interval

Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev Printed 2/10/2025, 1:00 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Lithium (ug/L)	MW-302A	15.72	1.345	40	No	8	12.5	None	No	0.01	Param.
Lithium (ug/L)	MW-307A	10.66	6.761	40	No	8	0	None	No	0.01	Param.
Lithium (ug/L)	MW-312	27.4	14.35	40	No	8	0	None	No	0.01	Param.
Lithium (ug/L)	MW-313	23.11	10.94	40	No	8	0	None	ln(x)	0.01	Param.
Lithium (ug/L)	MW-313A	10.21	2.681	40	No	8	12.5	None	No	0.01	Param.
Lithium (ug/L)	MW-307B	9.458	4.942	40	No	8	0	None	No	0.01	Param.
Lithium (ug/L)	MW-313B	14	4.9	40	No	8	0	None	No	0.004	NP (normality)
Molybdenum (ug/L)	MW-302A	70.84	4.893	100	No	8	0	None	ln(x)	0.01	Param.
Molybdenum (ug/L)	MW-307A	120	3.8	100	No	8	0	None	No	0.004	NP (normality)
Molybdenum (ug/L)	MW-312	310	28	100	No	8	0	None	No	0.004	NP (normality)
Molybdenum (ug/L)	MW-313	131.9	25.33	100	No	8	0	None	ln(x)	0.01	Param.
Molybdenum (ug/L)	MW-313A	100	2.8	100	No	8	0	None	No	0.004	NP (normality)
Molybdenum (ug/L)	MW-307B	41.36	3.84	100	No	8	0	None	ln(x)	0.01	Param.
Molybdenum (ug/L)	MW-313B	110	9.3	100	No	8	0	None	No	0.004	NP (normality)

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 2/10/2025 1:00 PM View: Default

Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

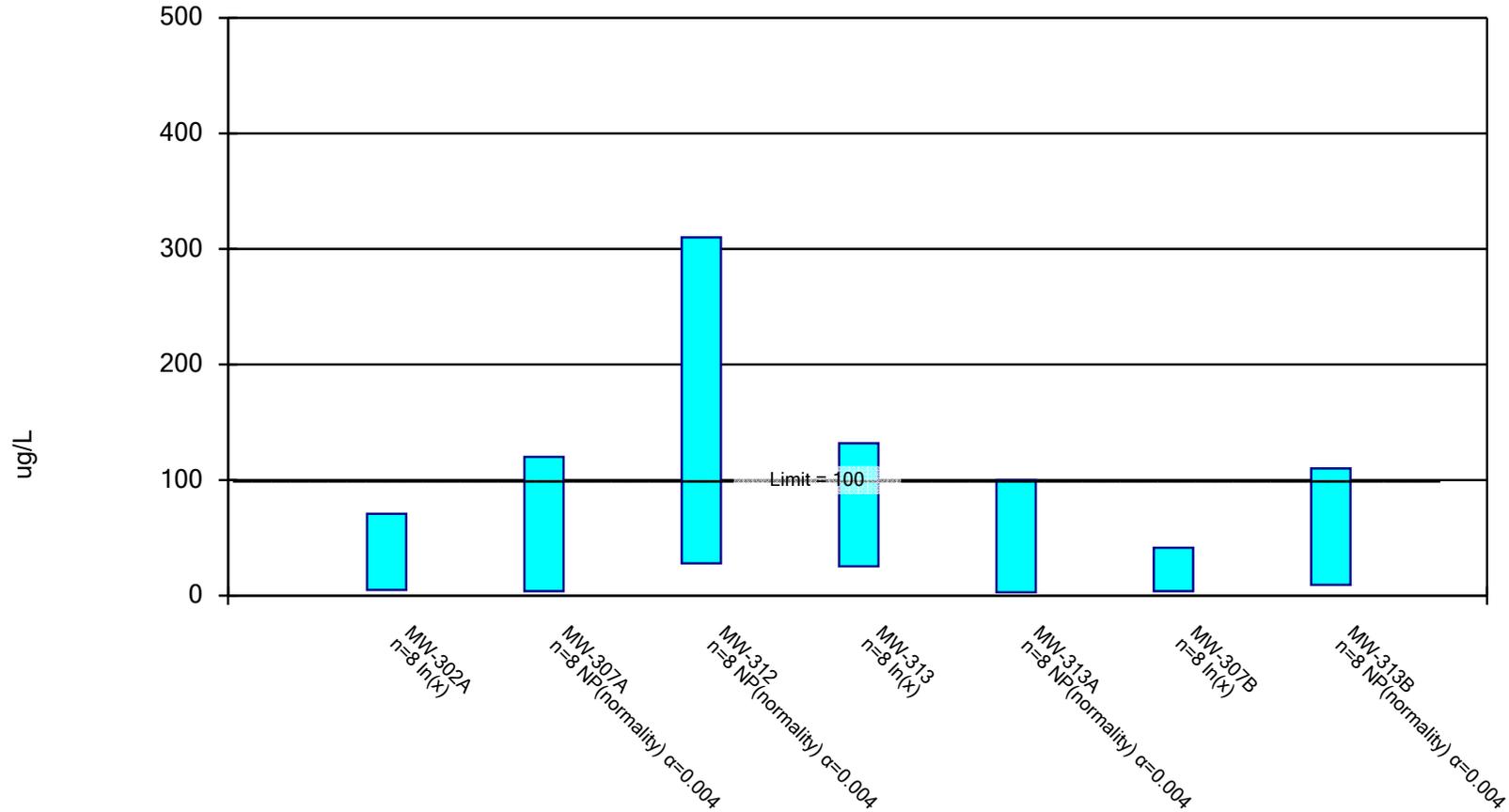
Confidence Interval

Constituent: Lithium (ug/L) Analysis Run 2/10/2025 1:00 PM View: Default
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

	MW-302A	MW-307A	MW-312	MW-313	MW-313A	MW-307B	MW-313B
4/19/2021			30				
10/11/2021		7.7 (J)					
10/12/2021	12						
10/13/2021				18	11		
10/14/2021			24				
2/22/2022						9.4 (J)	13
4/5/2022	22	8.5 (J)				11	
4/6/2022			28	18	12		13
10/20/2022	13	12		32	7 (J)	6.1 (J)	14
4/24/2023		7 (J)				6.8 (J)	
4/25/2023				9.9 (J)	<2.5 (U)		4.9 (J)
4/26/2023	<2.5 (U)		11				
8/1/2023	3.3 (J)	6.2 (J)	18	12			
8/2/2023					4.1 (J)	4.7 (J)	5.1 (J)
10/3/2023	4.6 (J)		18				
10/4/2023		8.6 (J)		13	4.8 (J)	5 (J)	5.9 (J)
4/23/2024			19				
4/24/2024	5.7 (J)	9.9 (J)		15		7.2 (J)	
4/25/2024					5.6 (J)		6.6 (J)
10/22/2024		9.8 (J)	19	17	5.8 (J)	7.4 (J)	6.5 (J)
10/23/2024	6.4 (J)						
Mean	8.531	8.713	20.88	16.86	6.444	7.2	8.625
Std. Dev.	6.78	1.841	6.151	6.785	3.55	2.131	3.955
Upper Lim.	15.72	10.66	27.4	23.11	10.21	9.458	14
Lower Lim.	1.345	6.761	14.35	10.94	2.681	4.942	4.9

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 2/10/2025 1:00 PM View: Default

Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Confidence Interval

Constituent: Molybdenum (ug/L) Analysis Run 2/10/2025 1:01 PM View: Default
 Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

	MW-302A	MW-307A	MW-312	MW-313	MW-313A	MW-307B	MW-313B
4/19/2021			310				
10/11/2021		110					
10/12/2021	93						
10/13/2021				170	100		
10/14/2021			240				
2/22/2022						37	89
4/5/2022	120	120				59	
4/6/2022			210	190	100		100
10/20/2022	36	120		39	64	32	110
4/24/2023		4.3				7.5	
4/25/2023				18	2.8		14
4/26/2023	3.4		28				
8/1/2023	7.4	5.4	37	44			
8/2/2023					4.6	4.6	9.3
10/3/2023	8.5		37				
10/4/2023		3.8		52	3.5	2.2	11
4/23/2024			31				
4/24/2024	12	5.2		51		10	
4/25/2024					5.2		13
10/22/2024		6.7	36	47	5.8	12	14
10/23/2024	14						
Mean	36.79	46.93	116.1	76.38	35.74	20.54	45.04
Std. Dev.	44.72	57.84	116.9	65.06	44.69	20.09	45.61
Upper Lim.	70.84	120	310	131.9	100	41.36	110
Lower Lim.	4.893	3.8	28	25.33	2.8	3.84	9.3

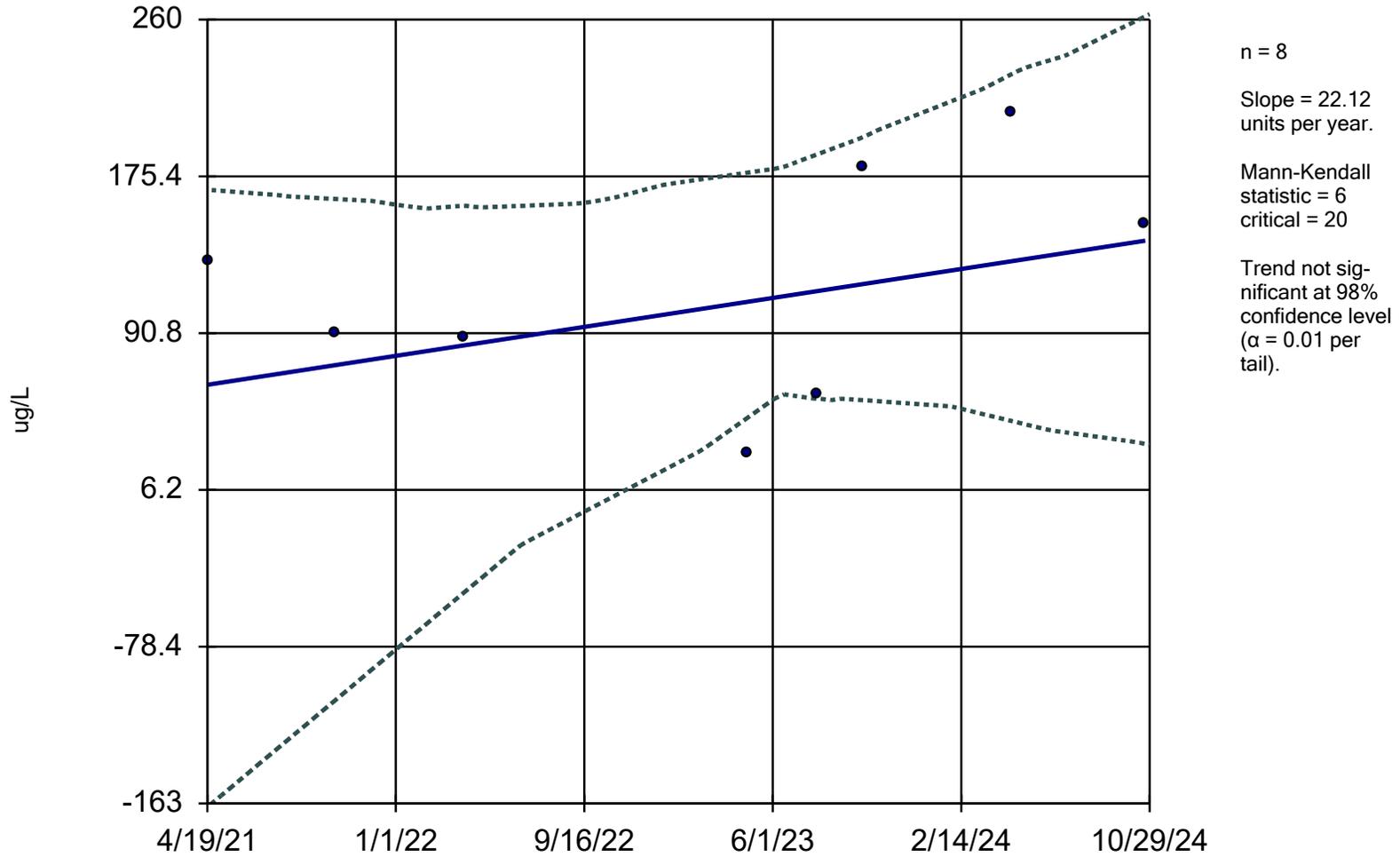
Trend Test

Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev Printed 2/10/2025, 12:31 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Molybdenum (ug/L)	MW-302	22.12	6	20	No	8	0	n/a	n/a	0.02	NP
Molybdenum (ug/L)	MW-304	92.34	19	20	No	8	0	n/a	n/a	0.02	NP
Molybdenum (ug/L)	MW-307	58.38	14	20	No	8	0	n/a	n/a	0.02	NP
Molybdenum (ug/L)	MW-308	180.8	20	20	No	8	0	n/a	n/a	0.02	NP

Molybdenum

MW-302



Sen's Slope and 98% Confidence Band Analysis Run 2/10/2025 12:30 PM View: Default
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

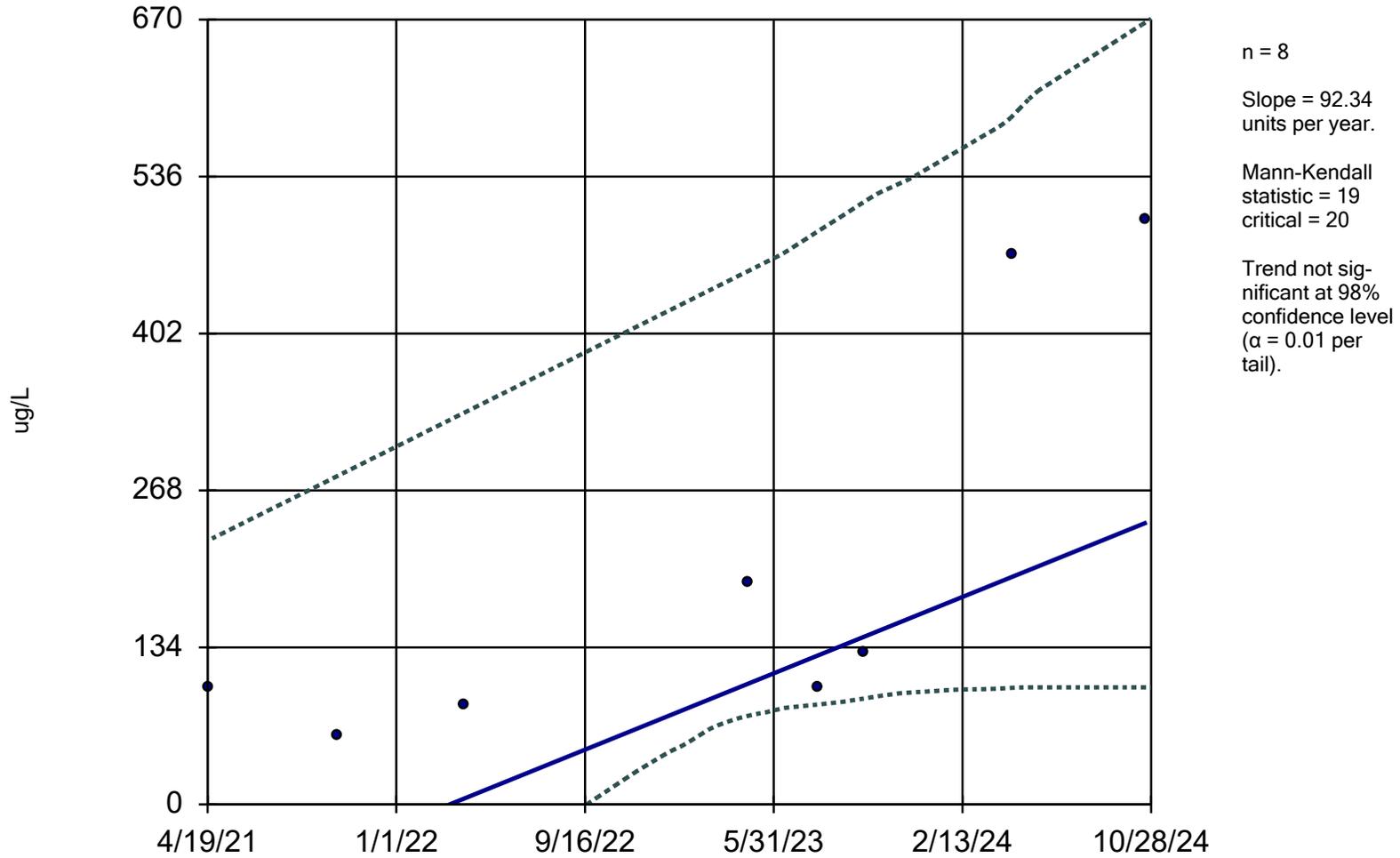
Sen's Slope Estimator

Constituent: Molybdenum (ug/L) Analysis Run 2/10/2025 12:31 PM View: Default
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

	MW-302	LCL	UCL
4/19/2021	130	-165	168.2
10/12/2021	91	-106.9	163.2
4/5/2022	89	-49.18	159.5
4/26/2023	26	44.58	177.3
8/1/2023	58	55.65	187.2
10/3/2023	180	54.62	196.5
4/24/2024	210	43.28	230.7
10/23/2024	150	30.97	261.7

Molybdenum

MW-304



Sen's Slope and 98% Confidence Band Analysis Run 2/10/2025 12:30 PM View: Default
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

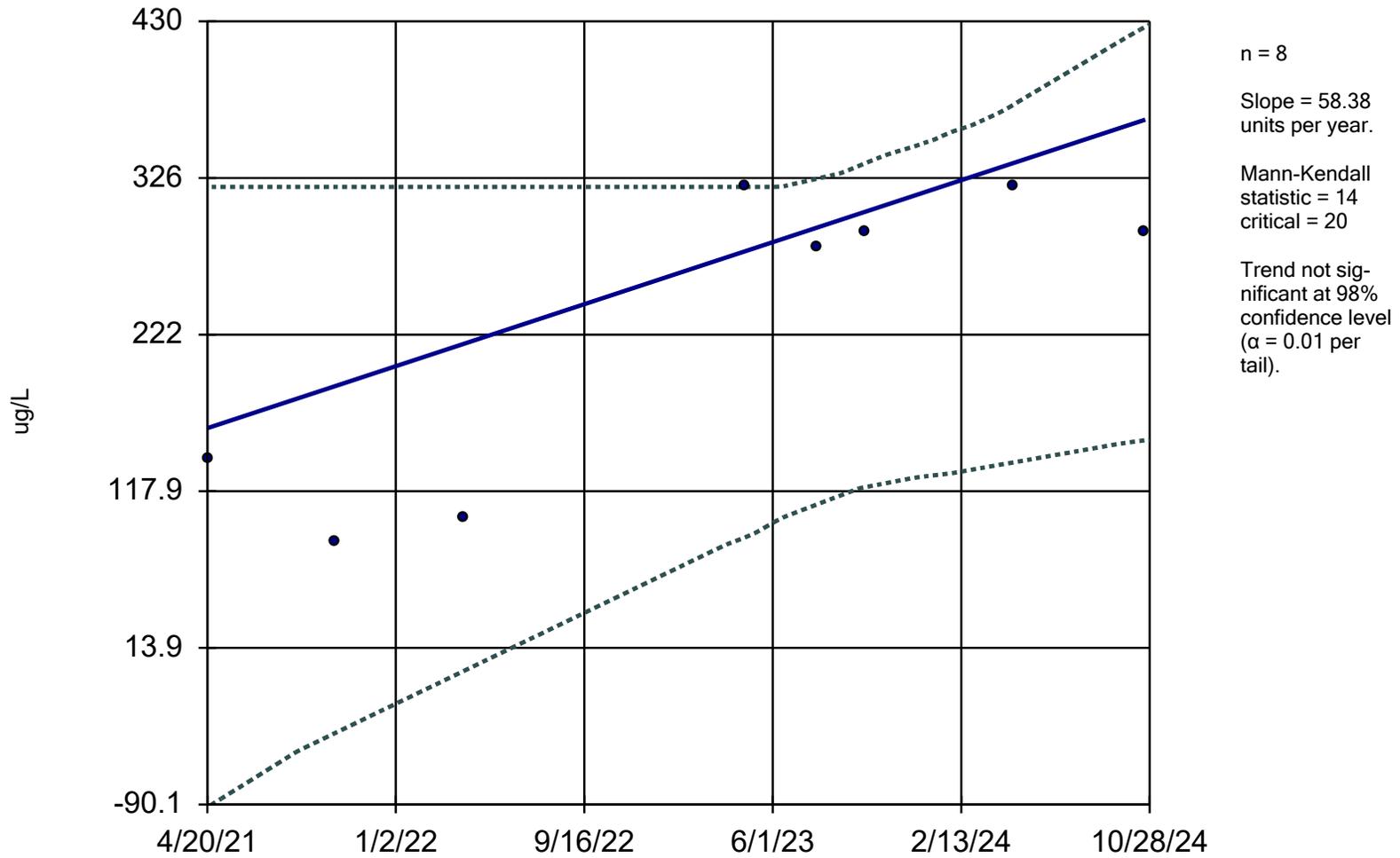
Sen's Slope Estimator

Constituent: Molybdenum (ug/L) Analysis Run 2/10/2025 12:31 PM View: Default
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

	MW-304	LCL	UCL
4/19/2021	100	-251.2	225.1
10/13/2021	59	-167.6	280.3
4/5/2022	85	-86.19	334.6
4/26/2023	190	75.56	455
8/1/2023	100	85.43	489.6
10/3/2023	130	90.54	514.7
4/23/2024	470	99.58	588.5
10/22/2024	500	100	668.4

Molybdenum

MW-307



Sen's Slope and 98% Confidence Band Analysis Run 2/10/2025 12:30 PM View: Default
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

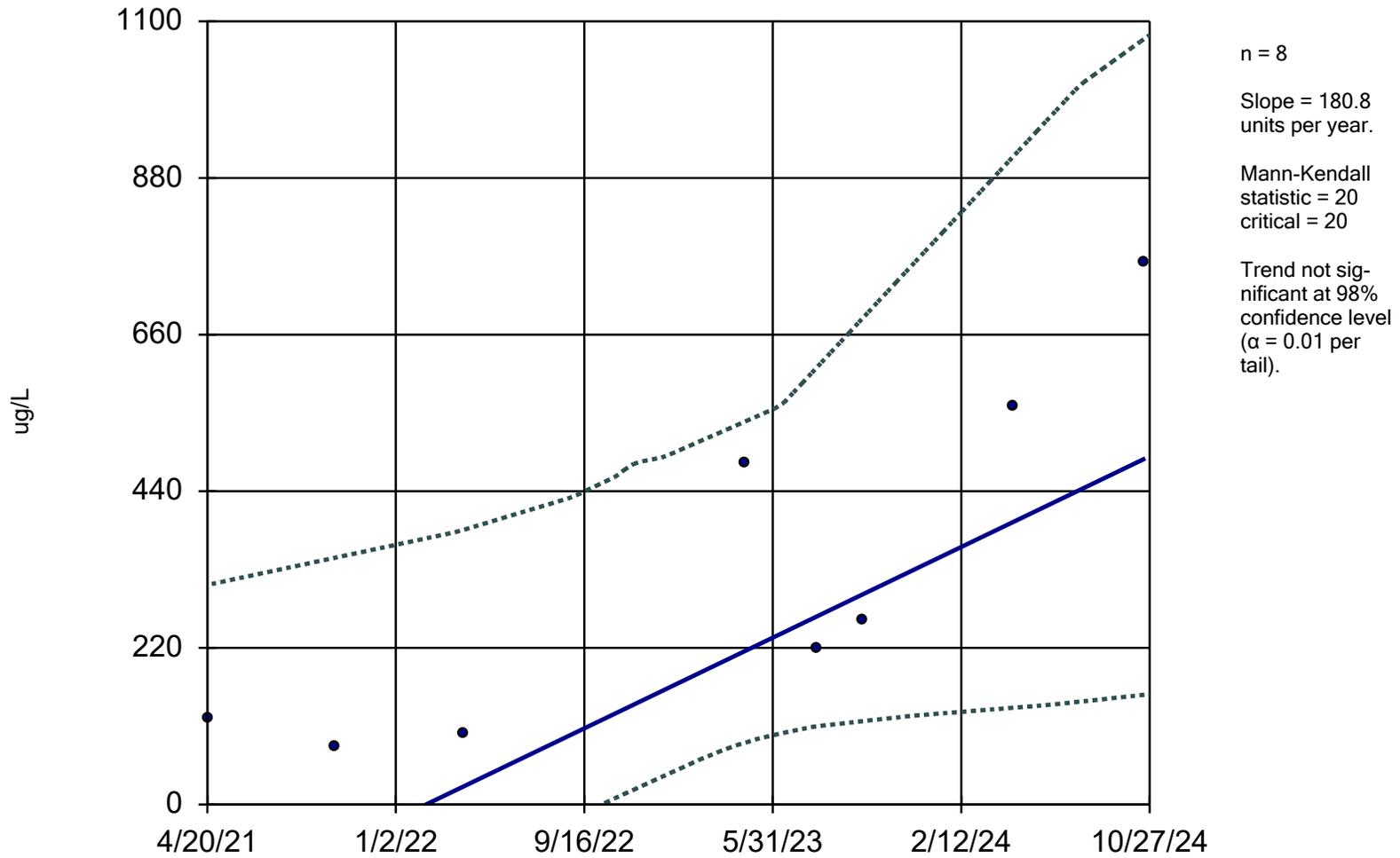
Sen's Slope Estimator

Constituent: Molybdenum (ug/L) Analysis Run 2/10/2025 12:31 PM View: Default
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

	MW-307	LCL	UCL
4/20/2021	140	-91.92	320
10/11/2021	85	-42.73	320
4/5/2022	100	-1.479	320
4/24/2023	320	87.22	320
8/1/2023	280	109.3	325.5
10/4/2023	290	120.6	335.4
4/24/2024	320	137	374.3
10/22/2024	290	151.8	426.3

Molybdenum

MW-308



Sen's Slope and 98% Confidence Band Analysis Run 2/10/2025 12:30 PM View: Default
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

Sen's Slope Estimator

Constituent: Molybdenum (ug/L) Analysis Run 2/10/2025 12:31 PM View: Default
Burlington Generating Station Client: SCS Engineers Data: BGS_Export_201121_Rev

	MW-308	LCL	UCL
4/20/2021	120	-452.7	308.4
10/12/2021	81	-267.7	346.7
4/4/2022	100	-112.6	385.6
4/24/2023	480	86.75	537.9
8/1/2023	220	110.3	615.2
10/3/2023	260	117.3	684.9
4/23/2024	560	135.9	909.2
10/21/2024	760	154.3	1076

E2 April 2025 Statistical Evaluation

Confidence Interval

Burlington Generating Station Client: SCS Engineers Data: Burlington Printed 8/19/2025, 3:46 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (ug/L)	MW-301	40.26	2.559	79.8	No	8	0	ln(x)	0.01	Param.
Arsenic (ug/L)	MW-302	94	3.1	79.8	No	8	0	No	0.004	NP (normality)
Arsenic (ug/L)	MW-303	19.78	6.898	79.8	No	8	0	No	0.01	Param.
Arsenic (ug/L)	MW-304	36	6.748	79.8	No	8	0	No	0.01	Param.
Arsenic (ug/L)	MW-305	3.921	0.7744	79.8	No	8	25	No	0.01	Param.
Arsenic (ug/L)	MW-306	48	31	79.8	No	8	0	No	0.004	NP (normality)
Arsenic (ug/L)	MW-307	29.71	8.117	79.8	No	8	0	ln(x)	0.01	Param.
Arsenic (ug/L)	MW-308	62	1.9	79.8	No	8	0	No	0.004	NP (normality)
Arsenic (ug/L)	MW-309	89	19	79.8	No	8	0	No	0.004	NP (normality)
Arsenic (ug/L)	MW-310 (bg)	55.88	22.87	79.8	No	8	0	No	0.01	Param.
Arsenic (ug/L)	MW-310A (bg)	2.124	0.6493	79.8	No	8	0	ln(x)	0.01	Param.
Arsenic (ug/L)	MW-311 (bg)	22	4.7	79.8	No	8	0	No	0.004	NP (normality)
Cobalt (ug/L)	MW-301	11.27	2.287	6	No	8	0	No	0.01	Param.
Cobalt (ug/L)	MW-302	43.65	0.4823	6	No	8	0	ln(x)	0.01	Param.
Cobalt (ug/L)	MW-303	1.66	0.5449	6	No	8	0	No	0.01	Param.
Cobalt (ug/L)	MW-304	81	0.19	6	No	8	25	No	0.004	NP (normality)
Cobalt (ug/L)	MW-305	38.77	0.2082	6	No	8	0	ln(x)	0.01	Param.
Cobalt (ug/L)	MW-306	0.42	0.17	6	No	8	75	No	0.004	NP (NDs)
Cobalt (ug/L)	MW-307	0.92	0.17	6	No	8	62.5	No	0.004	NP (NDs)
Cobalt (ug/L)	MW-308	2.716	0.1828	6	No	8	25	ln(x)	0.01	Param.
Cobalt (ug/L)	MW-309	0.9258	0.09422	6	No	8	25	No	0.01	Param.
Cobalt (ug/L)	MW-310 (bg)	3.109	1.216	6	No	8	0	No	0.01	Param.
Cobalt (ug/L)	MW-310A (bg)	1.786	0.2072	6	No	8	25	ln(x)	0.01	Param.
Cobalt (ug/L)	MW-311 (bg)	3.197	0.2409	6	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-301	15.73	8.522	40	No	8	12.5	No	0.01	Param.
Lithium (ug/L)	MW-302	75.6	44.9	40	Yes	8	0	No	0.01	Param.
Lithium (ug/L)	MW-303	58.63	24.33	40	No	8	0	ln(x)	0.01	Param.
Lithium (ug/L)	MW-304	500	60	40	Yes	8	0	No	0.004	NP (normality)
Lithium (ug/L)	MW-305	40.98	20.02	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-306	44.66	22.09	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-307	91.05	50.2	40	Yes	8	0	No	0.01	Param.
Lithium (ug/L)	MW-308	240	57	40	Yes	8	0	No	0.004	NP (normality)
Lithium (ug/L)	MW-309	15	2.8	40	No	8	0	No	0.004	NP (normality)
Lithium (ug/L)	MW-310 (bg)	2.9	2.5	40	No	8	100	No	0.004	NP (NDs)
Lithium (ug/L)	MW-310A (bg)	40.01	31.99	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-311 (bg)	2.9	2.5	40	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (ug/L)	MW-301	69.55	40.7	100	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-302	198.5	52.46	100	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-303	186.2	117.3	100	Yes	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-304	429.6	74.99	100	No	8	0	ln(x)	0.01	Param.
Molybdenum (ug/L)	MW-305	6.2	1.2	100	No	8	25	No	0.004	NP (normality)
Molybdenum (ug/L)	MW-306	123.3	28	100	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-307	350	85	100	No	8	0	No	0.004	NP (normality)
Molybdenum (ug/L)	MW-308	762.1	90.64	100	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-309	69.07	33.28	100	No	8	0	ln(x)	0.01	Param.
Molybdenum (ug/L)	MW-310 (bg)	5.489	2.486	100	No	8	0	No	0.01	Param.
Molybdenum (ug/L)	MW-310A (bg)	15.12	7.157	100	No	8	0	ln(x)	0.01	Param.
Molybdenum (ug/L)	MW-311 (bg)	7.53	4.02	100	No	8	0	No	0.01	Param.
Thallium (ug/L)	MW-301	1.5	0.26	2	No	8	87.5	No	0.004	NP (NDs)
Thallium (ug/L)	MW-302	1.8	0.26	2	No	8	87.5	No	0.004	NP (NDs)

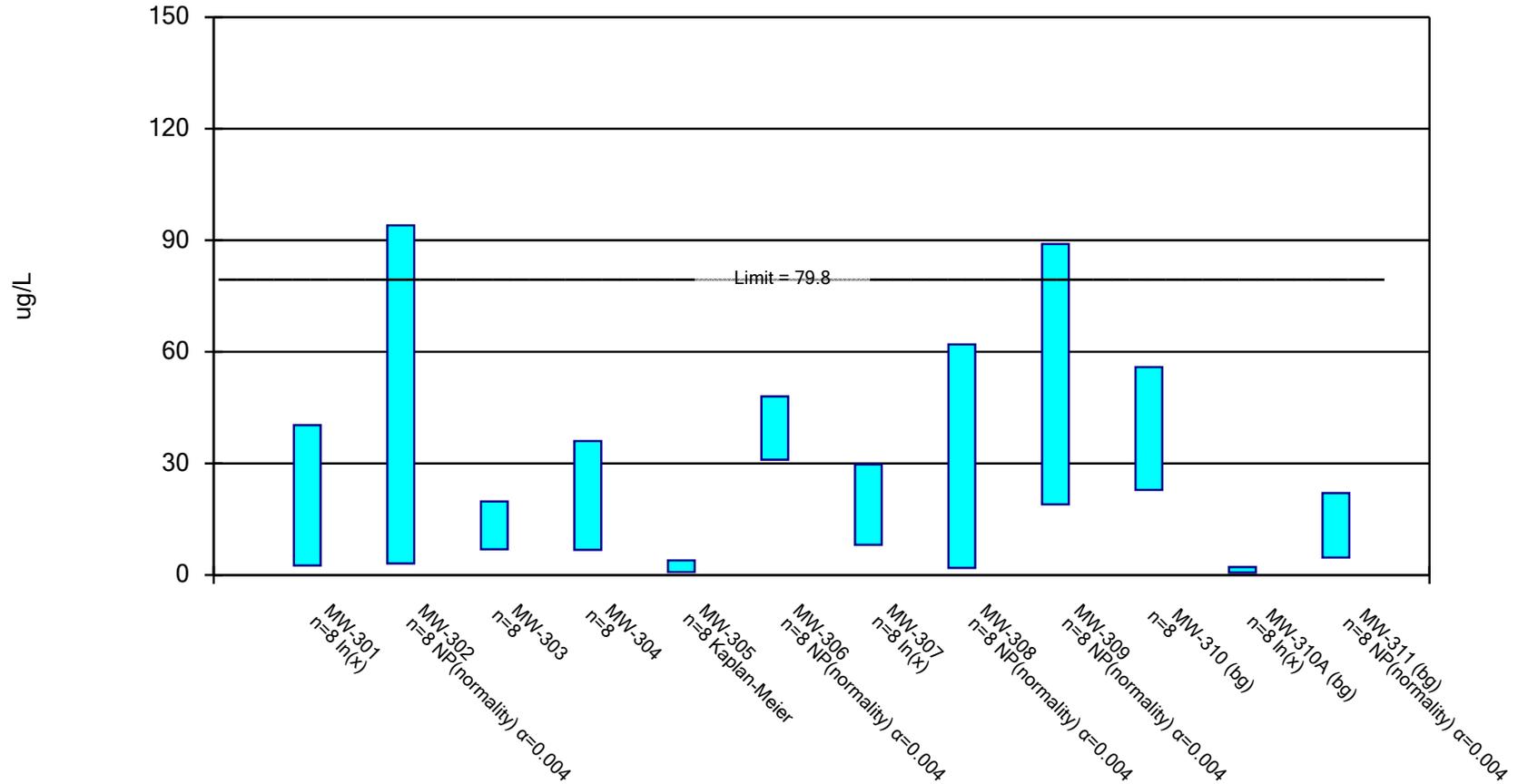
Confidence Interval

Burlington Generating Station Client: SCS Engineers Data: Burlington Printed 8/19/2025, 3:46 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Thallium (ug/L)	MW-303	0.57	0.26	2	No	8	100	No	0.004	NP (NDs)
Thallium (ug/L)	MW-304	1.2	0.26	2	No	8	87.5	No	0.004	NP (NDs)
Thallium (ug/L)	MW-305	0.57	0.26	2	No	8	100	No	0.004	NP (NDs)
Thallium (ug/L)	MW-306	0.57	0.26	2	No	8	100	No	0.004	NP (NDs)
Thallium (ug/L)	MW-307	0.57	0.26	2	No	8	100	No	0.004	NP (NDs)
Thallium (ug/L)	MW-308	0.57	0.26	2	No	8	100	No	0.004	NP (NDs)
Thallium (ug/L)	MW-309	1	0.26	2	No	8	100	No	0.004	NP (NDs)
Thallium (ug/L)	MW-310 (bg)	0.57	0.26	2	No	8	100	No	0.004	NP (NDs)
Thallium (ug/L)	MW-310A (bg)	0.57	0.26	2	No	8	100	No	0.004	NP (NDs)
Thallium (ug/L)	MW-311 (bg)	0.57	0.26	2	No	8	100	No	0.004	NP (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: Arsenic Analysis Run 8/19/2025 3:40 PM View: Default
 Burlington Generating Station Client: SCS Engineers Data: Burlington

Confidence Interval

Constituent: Arsenic (ug/L) Analysis Run 8/19/2025 3:46 PM View: Default

Burlington Generating Station Client: SCS Engineers Data: Burlington

	MW-301	MW-302	MW-303	MW-304	MW-305	MW-306	MW-307	MW-308	MW-309
10/11/2021						43	34		
10/12/2021								59	24
10/13/2021	66		14	32					
10/14/2021					<0.75 (U)				
2/22/2022		94							
4/4/2022								62	21
4/5/2022		86	5.7	44		48	41		
4/6/2022	80				0.92 (J)				
10/20/2022									
4/24/2023							8.8	1.9 (J)	
4/26/2023	2.1 (J)	3.1	4	1.4 (J)	<0.53 (U)				
4/27/2023						36			21
8/1/2023		15	12	9.6	2		8.2	5.7	
8/2/2023						32			22
8/3/2023	9.8								
10/3/2023	3.8	3.8	14	32	2.7			5.6	
10/4/2023						34	10		89
10/5/2023									
4/23/2024			17	15	3.9			5.3	
4/24/2024	7.1	4.6				32	12		
4/25/2024									21
10/21/2024								4.7	
10/22/2024			22	19	4.4	31	14		
10/23/2024	6.3	6.7							23
4/28/2025	6.1		18	18				5.5	
4/29/2025		5.6			3.8	32	20		19
Mean	22.65	27.35	13.34	21.38	2.375	36	18.5	18.71	30
Std. Dev.	31.38	38.9	6.075	13.8	1.552	6.211	12.44	25.83	23.89
Upper Lim.	40.26	94	19.78	36	3.921	48	29.71	62	89
Lower Lim.	2.559	3.1	6.898	6.748	0.7744	31	8.117	1.9	19

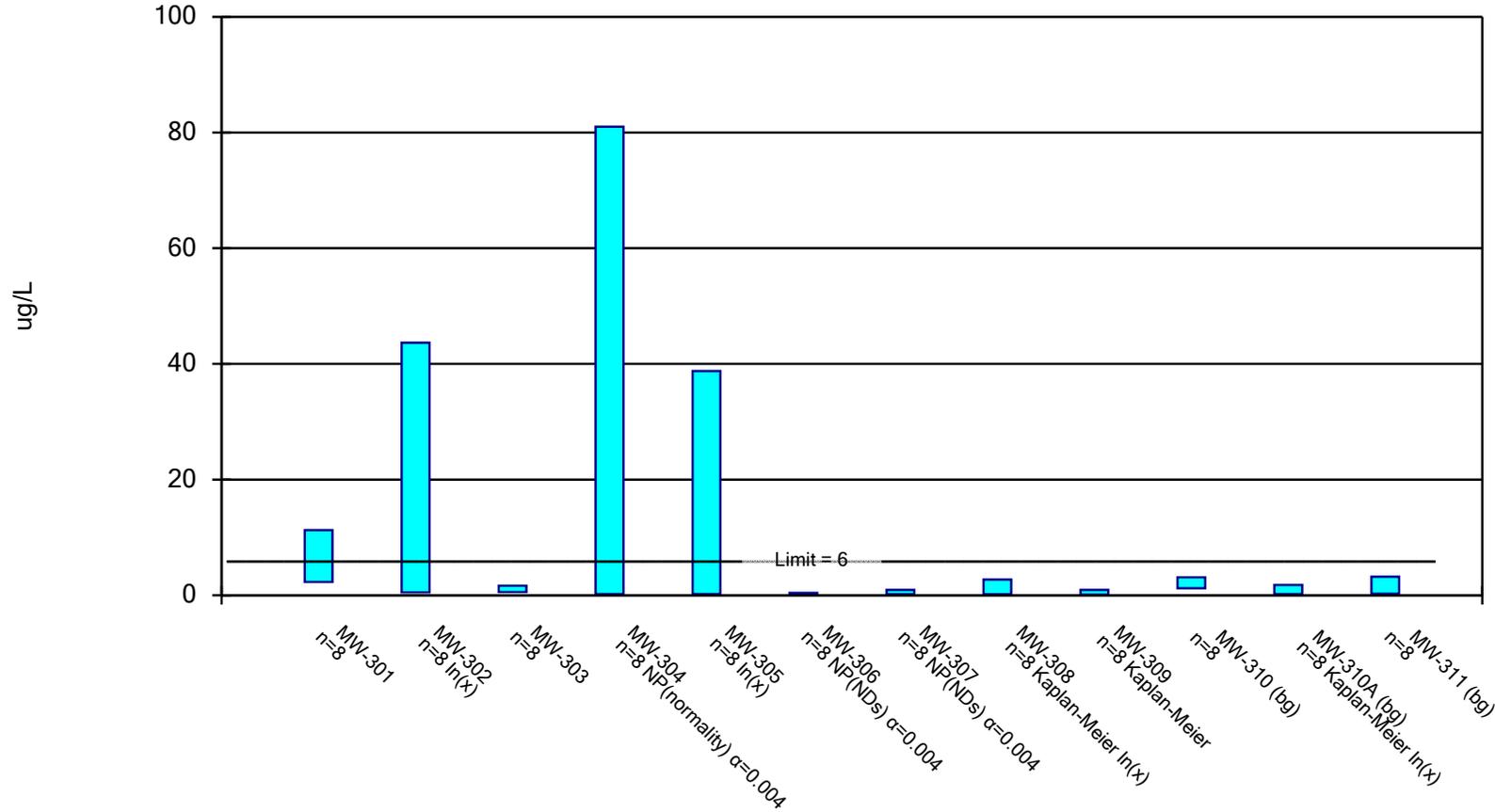
Confidence Interval

Constituent: Arsenic (ug/L) Analysis Run 8/19/2025 3:46 PM View: Default
Burlington Generating Station Client: SCS Engineers Data: Burlington

	MW-310 (bg)	MW-310A (bg)	MW-311 (bg)
10/11/2021			
10/12/2021	63		22
10/13/2021			
10/14/2021		3.6	
2/22/2022			
4/4/2022	52		19
4/5/2022			
4/6/2022		1.2 (J)	
10/20/2022		1 (J)	
4/24/2023			
4/26/2023			
4/27/2023	32	1.2 (J)	4.7
8/1/2023			
8/2/2023			
8/3/2023	47	0.91 (J)	5.3
10/3/2023			
10/4/2023			
10/5/2023	45	0.82 (J)	5.5
4/23/2024	24		
4/24/2024			
4/25/2024		1.7 (J)	6.3
10/21/2024	37	0.55 (J)	
10/22/2024			5.6
10/23/2024			
4/28/2025			
4/29/2025	15		7.7
Mean	39.38	1.373	9.513
Std. Dev.	15.57	0.9609	6.885
Upper Lim.	55.88	2.124	22
Lower Lim.	22.87	0.6493	4.7

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 8/19/2025 3:40 PM View: Default
Burlington Generating Station Client: SCS Engineers Data: Burlington

Confidence Interval

Constituent: Cobalt (ug/L) Analysis Run 8/19/2025 3:46 PM View: Default

Burlington Generating Station Client: SCS Engineers Data: Burlington

	MW-301	MW-302	MW-303	MW-304	MW-305	MW-306	MW-307	MW-308	MW-309
10/11/2021						<0.19 (U)	<0.19 (U)		
10/12/2021		0.27 (J)						<0.19 (U)	0.29 (J)
10/13/2021	0.74		0.42 (J)	<0.19 (U)					
10/14/2021					0.21 (J)				
4/4/2022								<0.19 (U)	0.42 (J)
4/5/2022		0.21 (J)	0.35 (J)	<0.19 (U)		<0.19 (U)	<0.19 (U)		
4/6/2022	0.7				0.22 (J)				
10/20/2022									
4/24/2023							0.31 (J)	0.18 (J)	
4/26/2023	4.8	78	1.3	1.3	290				
4/27/2023						0.42 (J)			1.3
8/1/2023		41	1.4	81	9.2		0.92	4.1	
8/2/2023						0.31 (J)			0.61
8/3/2023	8.8								
10/3/2023	12	7.6	1.7	44	11			4.5	
10/4/2023						<0.17 (U)	0.41 (J)		0.95 (J)
10/5/2023									
4/23/2024			1.7	1.5	4.7			1.4	
4/24/2024	10	6.6				<0.17	<0.17		
4/25/2024									0.17 (J)
10/21/2024								0.96	
10/22/2024			1.1	0.55	1.8	<0.17	<0.17		
10/23/2024	8.4	9							<0.17
4/28/2025	8.8		0.85	0.25 (J)				0.42 (J)	
4/29/2025		2.4			0.37 (J)	<0.17 (U)	<0.17 (U)		<0.17 (U)
Mean	6.78	18.14	1.103	16.12	39.69	0.2238	0.3163	1.492	0.4888
Std. Dev.	4.239	27.57	0.5261	30.29	101.2	0.09242	0.259	1.789	0.4404
Upper Lim.	11.27	43.65	1.66	81	38.77	0.42	0.92	2.716	0.9258
Lower Lim.	2.287	0.4823	0.5449	0.19	0.2082	0.17	0.17	0.1828	0.09422

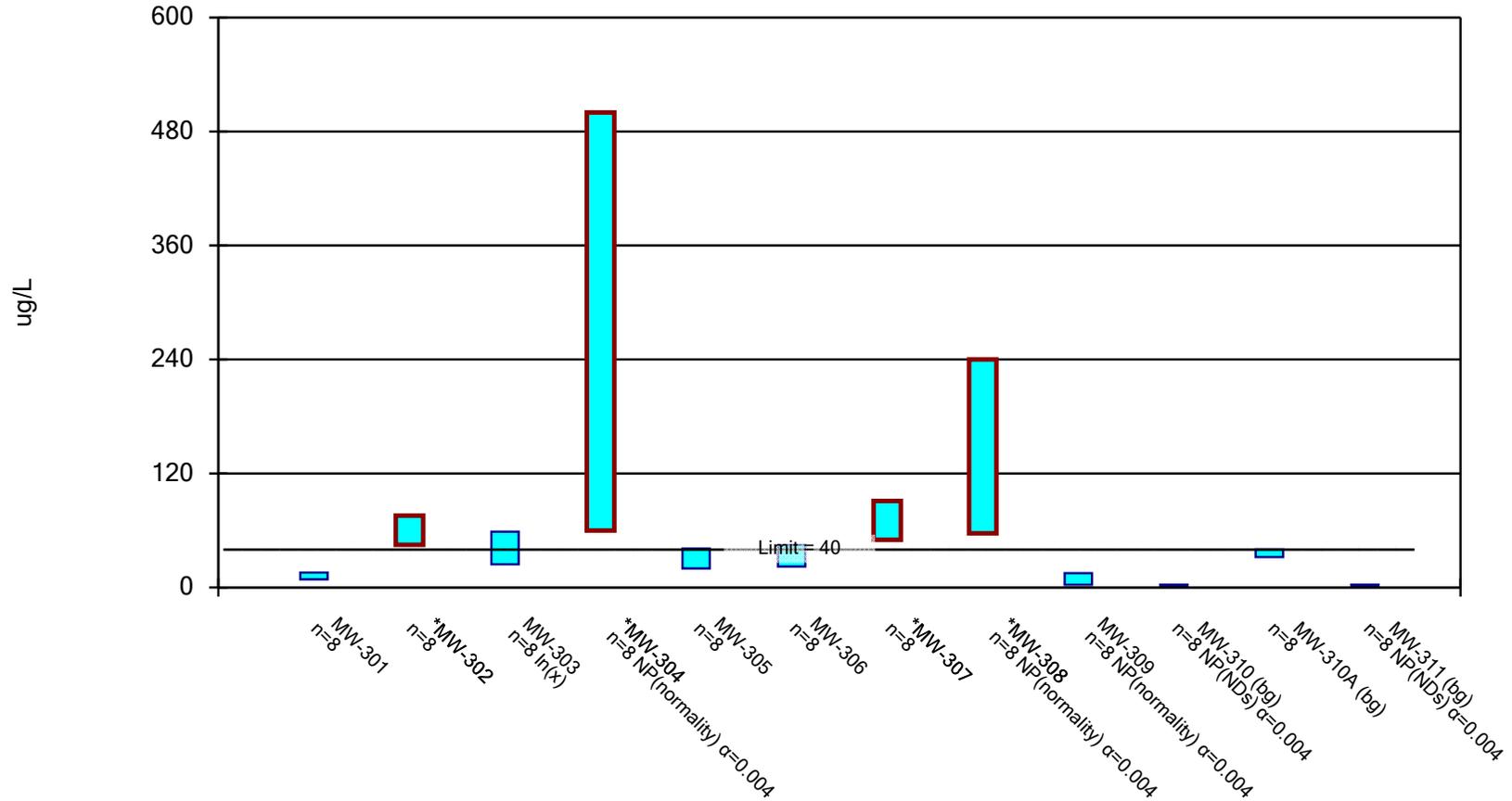
Confidence Interval

Constituent: Cobalt (ug/L) Analysis Run 8/19/2025 3:46 PM View: Default
 Burlington Generating Station Client: SCS Engineers Data: Burlington

	MW-310 (bg)	MW-310A (bg)	MW-311 (bg)
10/11/2021			
10/12/2021	1.4		0.31 (J)
10/13/2021			
10/14/2021		3	
4/4/2022	1.2		0.3 (J)
4/5/2022			
4/6/2022		2.6	
10/20/2022		0.63	
4/24/2023			
4/26/2023			
4/27/2023	3.1	0.34 (J)	3.8
8/1/2023			
8/2/2023			
8/3/2023	3.8	0.58	1.5
10/3/2023			
10/4/2023			
10/5/2023	2.4	<0.17 (U)	0.89
4/23/2024	1.6		
4/24/2024			
4/25/2024		0.67	3.4
10/21/2024	1.9	<0.17	
10/22/2024			0.85
10/23/2024			
4/28/2025			
4/29/2025	1.9		2.7
Mean	2.163	1.02	1.719
Std. Dev.	0.8927	1.121	1.394
Upper Lim.	3.109	1.786	3.197
Lower Lim.	1.216	0.2072	0.2409

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 8/19/2025 3:40 PM View: Default
Burlington Generating Station Client: SCS Engineers Data: Burlington

Confidence Interval

Constituent: Lithium (ug/L) Analysis Run 8/19/2025 3:46 PM View: Default
 Burlington Generating Station Client: SCS Engineers Data: Burlington

	MW-301	MW-302	MW-303	MW-304	MW-305	MW-306	MW-307	MW-308	MW-309
10/11/2021						41	52		
10/12/2021		64						58	2.8 (J)
10/13/2021	11		61	60					
10/14/2021					32				
4/4/2022								57	2.9 (J)
4/5/2022		78	80	74		42	50		
4/6/2022	12				36				
10/20/2022									
4/24/2023							72	73	
4/26/2023	<10 (U)	66	23	63	37				
4/27/2023						34			4.9 (J)
8/1/2023		51	27	160	18		100	180	
8/2/2023						49			3.5 (J)
8/3/2023	11								
10/3/2023	13	40	31	500	20			220	
10/4/2023						35	95		15 (J)
10/5/2023									
4/23/2024			35	110	25			240	
4/24/2024	14	49				23	79		
4/25/2024									4.8 (J)
10/21/2024								230	
10/22/2024			35	88	48	25	60		
10/23/2024	16	81							4.5 (J)
4/28/2025	15		36	81				110	
4/29/2025		53			28	18	57		3.6 (J)
Mean	12.13	60.25	41	142	30.5	33.38	70.63	146	5.25
Std. Dev.	3.399	14.48	19.41	148.2	9.885	10.65	19.27	80.01	4.022
Upper Lim.	15.73	75.6	58.63	500	40.98	44.66	91.05	240	15
Lower Lim.	8.522	44.9	24.33	60	20.02	22.09	50.2	57	2.8

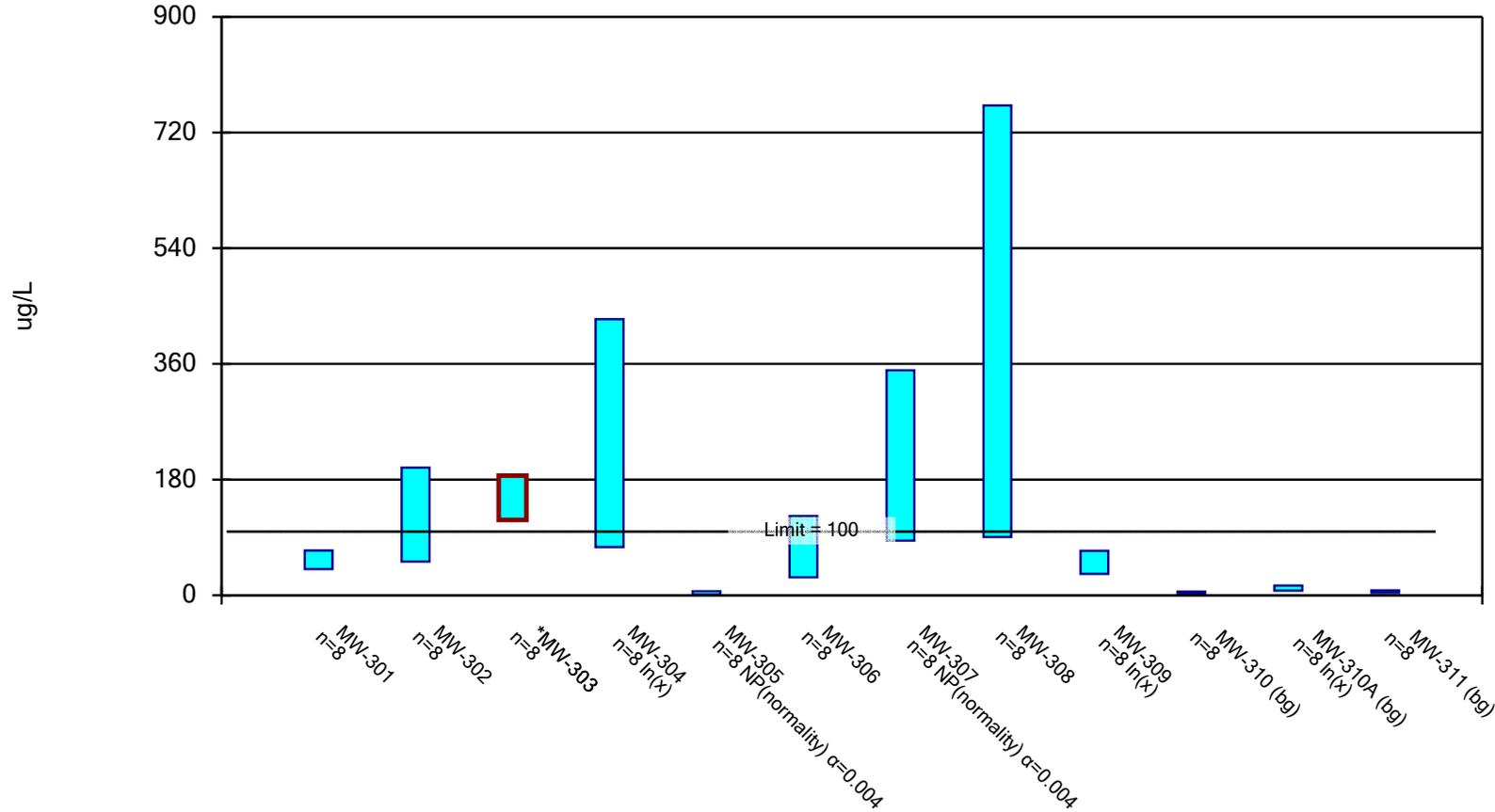
Confidence Interval

Constituent: Lithium (ug/L) Analysis Run 8/19/2025 3:46 PM View: Default
 Burlington Generating Station Client: SCS Engineers Data: Burlington

	MW-310 (bg)	MW-310A (bg)	MW-311 (bg)
10/11/2021			
10/12/2021	<2.5 (U)		<2.5 (U)
10/13/2021			
10/14/2021		34	
4/4/2022	<2.5 (U)		<2.5 (U)
4/5/2022			
4/6/2022		38	
10/20/2022		29	
4/24/2023			
4/26/2023			
4/27/2023	<2.5 (U)	33	<2.5 (U)
8/1/2023			
8/2/2023			
8/3/2023	<2.5 (U)	37	<2.5 (U)
10/3/2023			
10/4/2023			
10/5/2023	<2.5 (U)	38	<2.5 (U)
4/23/2024	<2.5		
4/24/2024			
4/25/2024		41	2.8 (J)
10/21/2024	<2.5	38	
10/22/2024			<2.5
10/23/2024			
4/28/2025			
4/29/2025	<2.9 (U)		<2.9 (U)
Mean	2.55	36	2.588
Std. Dev.	0.1414	3.78	0.1642
Upper Lim.	2.9	40.01	2.9
Lower Lim.	2.5	31.99	2.5

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 8/19/2025 3:40 PM View: Default
 Burlington Generating Station Client: SCS Engineers Data: Burlington

Confidence Interval

Constituent: Molybdenum (ug/L) Analysis Run 8/19/2025 3:46 PM View: Default

Burlington Generating Station Client: SCS Engineers Data: Burlington

	MW-301	MW-302	MW-303	MW-304	MW-305	MW-306	MW-307	MW-308	MW-309
10/11/2021						69	85		
10/12/2021		91						81	39
10/13/2021	47		120	59					
10/14/2021					<1.3 (U)				
4/4/2022								100	62
4/5/2022		89	190	85		74	100		
4/6/2022	55				<1.2 (U)				
10/20/2022									
4/24/2023							320	480	
4/26/2023	29	26	94	190	1.5 (J)				
4/27/2023						12			69
8/1/2023		58	150	100	1.3 (J)		280	220	
8/2/2023						71			84
8/3/2023	73								
10/3/2023	65	180	150	130	2			260	
10/4/2023						36	290		37
10/5/2023									
4/23/2024			160	470	4.3			560	
4/24/2024	64	210				63	320		
4/25/2024									44
10/21/2024								760	
10/22/2024			160	500	4.4	140	290		
10/23/2024	59	150							36
4/28/2025	49		190	370				950	
4/29/2025		200			6.2	140	350		34
Mean	55.13	125.5	151.8	238	2.775	75.63	254.4	426.4	50.63
Std. Dev.	13.61	68.91	32.54	180.6	1.918	44.93	102.4	316.7	18.65
Upper Lim.	69.55	198.5	186.2	429.6	6.2	123.3	350	762.1	69.07
Lower Lim.	40.7	52.46	117.3	74.99	1.2	28	85	90.64	33.28

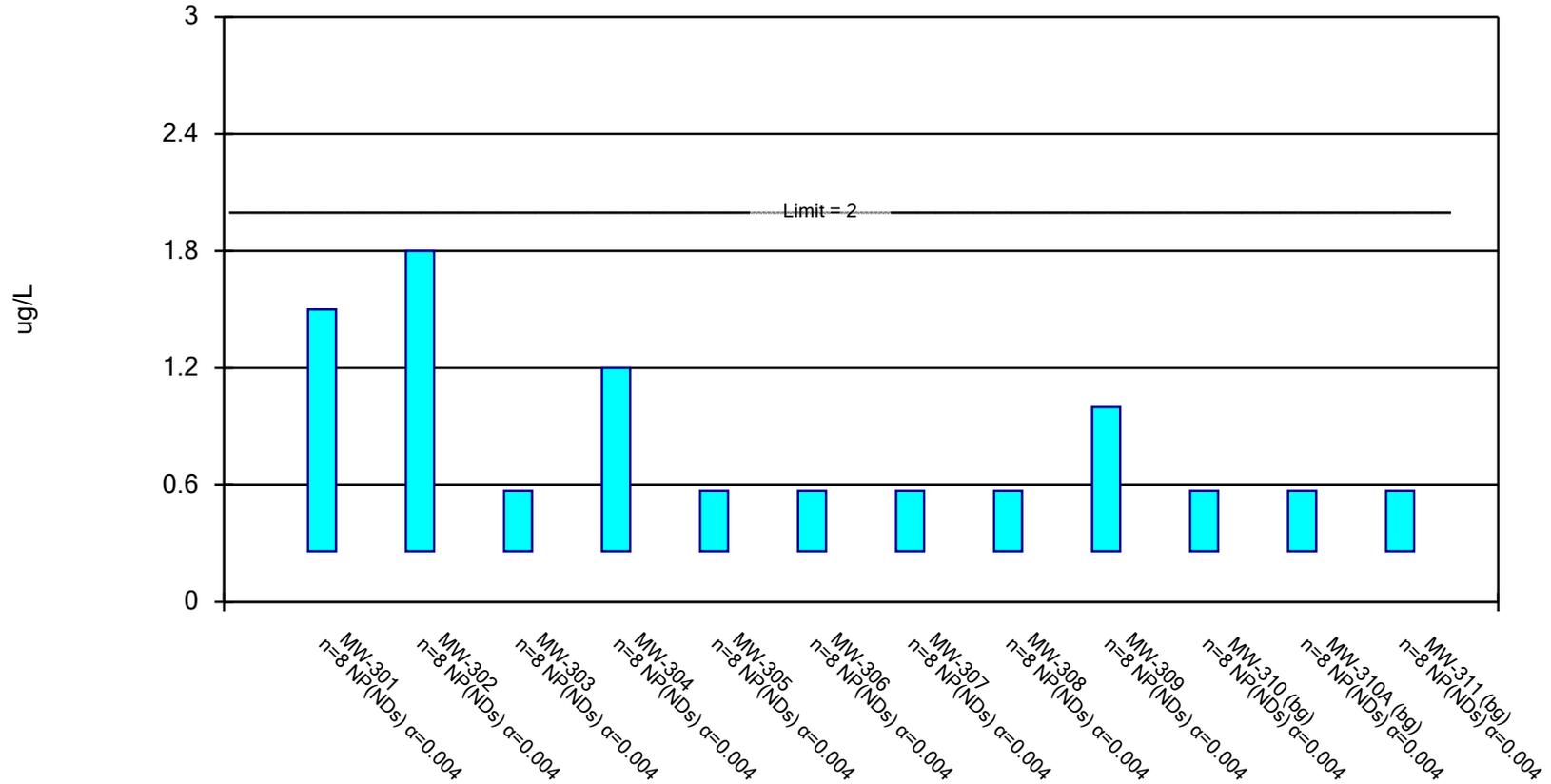
Confidence Interval

Constituent: Molybdenum (ug/L) Analysis Run 8/19/2025 3:46 PM View: Default
Burlington Generating Station Client: SCS Engineers Data: Burlington

	MW-310 (bg)	MW-310A (bg)	MW-311 (bg)
10/11/2021			
10/12/2021	4.9		6.9
10/13/2021			
10/14/2021		20	
4/4/2022	5.2		8.9
4/5/2022			
4/6/2022		14	
10/20/2022		11	
4/24/2023			
4/26/2023			
4/27/2023	1.9 (J)	11	3.4
8/1/2023			
8/2/2023			
8/3/2023	2.7	10	5.6
10/3/2023			
10/4/2023			
10/5/2023	3.3	7.4	5.8
4/23/2024	3		
4/24/2024			
4/25/2024		7.5	4.7
10/21/2024	5.4	7.3	
10/22/2024			6.2
10/23/2024			
4/28/2025			
4/29/2025	5.5		4.7
Mean	3.988	11.03	5.775
Std. Dev.	1.417	4.308	1.656
Upper Lim.	5.489	15.12	7.53
Lower Lim.	2.486	7.157	4.02

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 8/19/2025 3:40 PM View: Default
Burlington Generating Station Client: SCS Engineers Data: Burlington

Confidence Interval

Constituent: Thallium (ug/L) Analysis Run 8/19/2025 3:46 PM View: Default

Burlington Generating Station Client: SCS Engineers Data: Burlington

	MW-301	MW-302	MW-303	MW-304	MW-305	MW-306	MW-307	MW-308	MW-309
10/11/2021						<0.26 (U)	<0.26 (U)		
10/12/2021		<0.26 (U)						<0.26 (U)	<0.26 (U)
10/13/2021	<0.26 (U)		<0.26 (U)	<0.26 (U)					
10/14/2021					<0.26 (U)				
4/4/2022								<0.26 (U)	<0.26 (U)
4/5/2022		1.8	<0.26 (U)	<0.26 (U)		<0.26 (U)	<0.26 (U)		
4/6/2022	<0.26 (U)				<0.26 (U)				
10/20/2022									
4/24/2023							<0.26 (U)	<0.26 (U)	
4/26/2023	<1 (U)	<1 (U)	<0.26 (U)	<0.26 (U)	<0.26 (U)				
4/27/2023						<0.26 (U)			<0.26 (U)
8/1/2023		<0.26 (U)	<0.26 (U)	<0.26 (U)	<0.26 (U)		<0.26 (U)	<0.26 (U)	
8/2/2023						<0.26 (U)			<0.26 (U)
8/3/2023	1.5								
10/3/2023	<0.26 (U)	<0.26 (U)	<0.26 (U)	1.2 (J)	<0.26 (U)			<0.26 (U)	
10/4/2023						<0.26 (U)	<0.26 (U)		<1 (U)
10/5/2023									
4/23/2024			<0.57	<0.57	<0.57			<0.57	
4/24/2024	<0.57	<0.57				<0.57	<0.57		
4/25/2024									<0.57
10/21/2024								<0.57	
10/22/2024			<0.57	<0.57	<0.57	<0.57	<0.57		
10/23/2024	<0.57	<0.57							<0.57
4/28/2025	<0.57 (U)		<0.57 (U)	<0.57 (U)				<0.57 (U)	
4/29/2025		<0.57 (U)			<0.57 (U)	<0.57 (U)	<0.57 (U)		<0.57 (U)
Mean	0.6237	0.6612	0.3762	0.4937	0.3762	0.3762	0.3762	0.3762	0.4687
Std. Dev.	0.4334	0.5237	0.1604	0.324	0.1604	0.1604	0.1604	0.1604	0.2638
Upper Lim.	1.5	1.8	0.57	1.2	0.57	0.57	0.57	0.57	1
Lower Lim.	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26

Confidence Interval

Constituent: Thallium (ug/L) Analysis Run 8/19/2025 3:46 PM View: Default
Burlington Generating Station Client: SCS Engineers Data: Burlington

	MW-310 (bg)	MW-310A (bg)	MW-311 (bg)
10/11/2021			
10/12/2021	<0.26 (U)		<0.26 (U)
10/13/2021			
10/14/2021		<0.26 (U)	
4/4/2022	<0.26 (U)		<0.26 (U)
4/5/2022			
4/6/2022		<0.26 (U)	
10/20/2022		<0.26 (U)	
4/24/2023			
4/26/2023			
4/27/2023	<0.26 (U)	<0.26 (U)	<0.26 (U)
8/1/2023			
8/2/2023			
8/3/2023	<0.26 (U)	<0.26 (U)	<0.26 (U)
10/3/2023			
10/4/2023			
10/5/2023	<0.26 (U)	<0.26 (U)	<0.26 (U)
4/23/2024	<0.57		
4/24/2024			
4/25/2024		<0.57	<0.57
10/21/2024	<0.57	<0.57	
10/22/2024			<0.57
10/23/2024			
4/28/2025			
4/29/2025	<0.57 (U)		<0.57 (U)
Mean	0.3762	0.3375	0.3762
Std. Dev.	0.1604	0.1435	0.1604
Upper Lim.	0.57	0.57	0.57
Lower Lim.	0.26	0.26	0.26

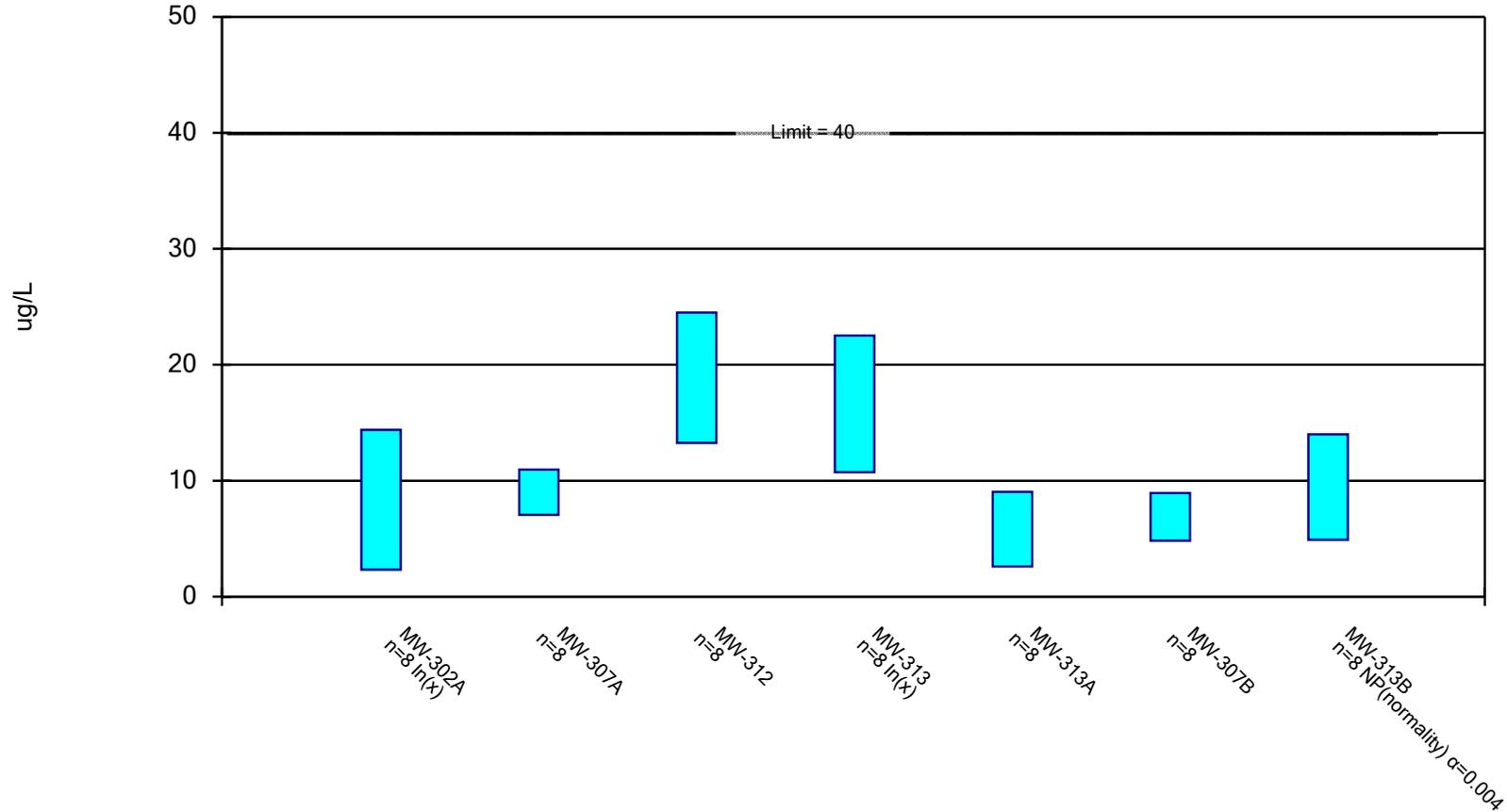
Confidence Interval

Burlington Generating Station Client: SCS Engineers Data: Burlington Printed 8/19/2025, 3:53 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Lithium (ug/L)	MW-302A	14.38	2.324	40	No	8	12.5	ln(x)	0.01	Param.
Lithium (ug/L)	MW-307A	10.95	7.05	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-312	24.5	13.25	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-313	22.51	10.73	40	No	8	0	ln(x)	0.01	Param.
Lithium (ug/L)	MW-313A	9.037	2.6	40	No	8	12.5	No	0.01	Param.
Lithium (ug/L)	MW-307B	8.928	4.822	40	No	8	0	No	0.01	Param.
Lithium (ug/L)	MW-313B	14	4.9	40	No	8	0	No	0.004	NP (normality)
Molybdenum (ug/L)	MW-302A	47.76	4.814	100	No	8	0	ln(x)	0.01	Param.
Molybdenum (ug/L)	MW-307A	120	3.8	100	No	8	0	No	0.004	NP (normality)
Molybdenum (ug/L)	MW-312	240	28	100	No	8	0	No	0.004	NP (normality)
Molybdenum (ug/L)	MW-313	190	18	100	No	8	0	No	0.004	NP (normality)
Molybdenum (ug/L)	MW-313A	100	2.8	100	No	8	0	No	0.004	NP (normality)
Molybdenum (ug/L)	MW-307B	33.13	3.691	100	No	8	0	ln(x)	0.01	Param.
Molybdenum (ug/L)	MW-313B	110	9.3	100	No	8	0	No	0.004	NP (normality)

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 8/19/2025 3:52 PM View: Default
Burlington Generating Station Client: SCS Engineers Data: Burlington

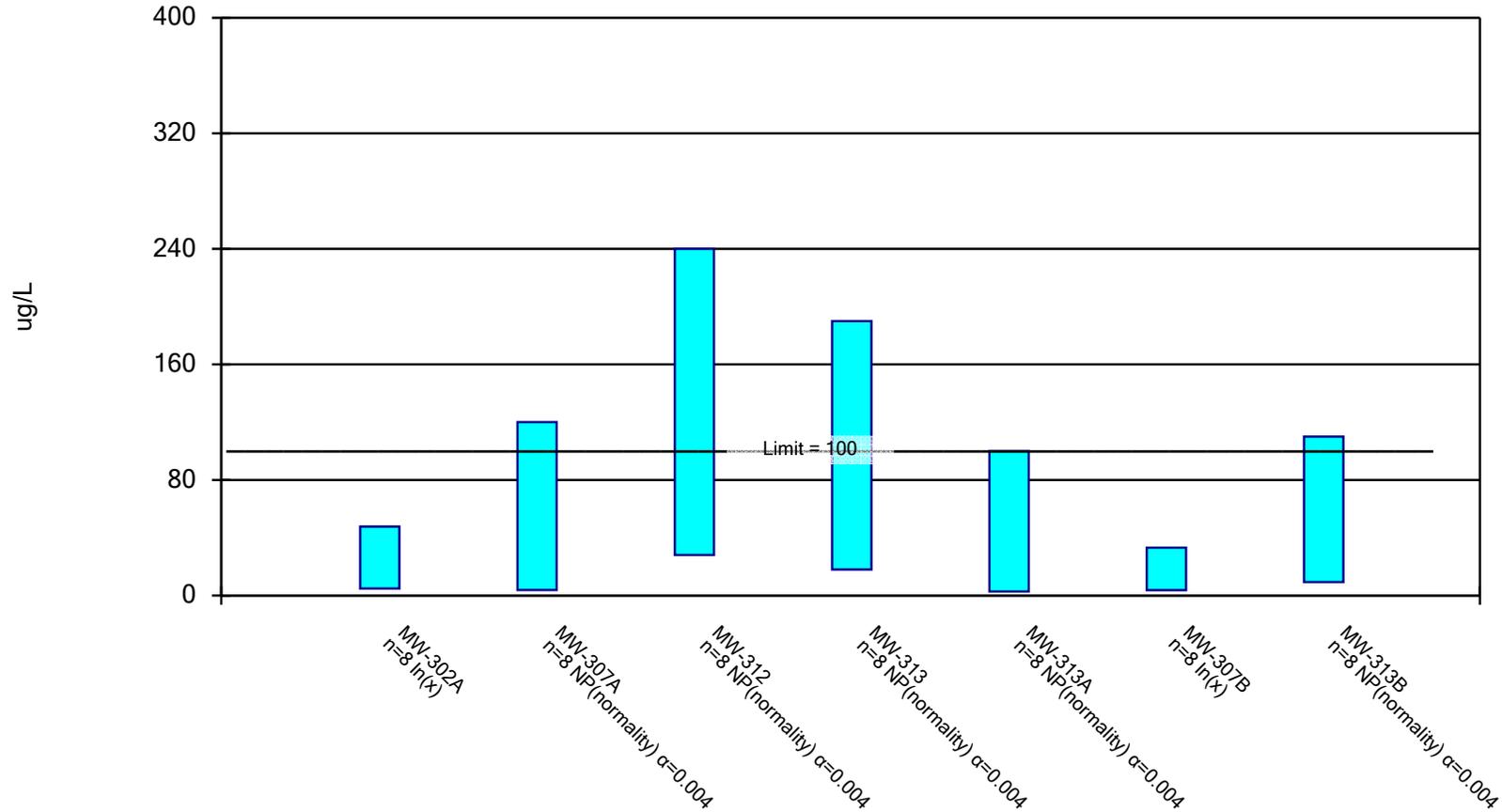
Confidence Interval

Constituent: Lithium (ug/L) Analysis Run 8/19/2025 3:53 PM View: Default
 Burlington Generating Station Client: SCS Engineers Data: Burlington

	MW-302A	MW-307A	MW-312	MW-313	MW-313A	MW-307B	MW-313B
10/14/2021			24				
4/5/2022	22	8.5 (J)				11	
4/6/2022			28	18	12		13
10/20/2022	13	12		32	7 (J)	6.1 (J)	14
4/24/2023		7 (J)				6.8 (J)	
4/25/2023				9.9 (J)	<2.5 (U)		4.9 (J)
4/26/2023	<2.5 (U)		11				
8/1/2023	3.3 (J)	6.2 (J)	18	12			
8/2/2023					4.1 (J)	4.7 (J)	5.1 (J)
10/3/2023	4.6 (J)		18				
10/4/2023		8.6 (J)		13	4.8 (J)	5 (J)	5.9 (J)
4/23/2024			19				
4/24/2024	5.7 (J)	9.9 (J)		15		7.2 (J)	
4/25/2024					5.6 (J)		6.6 (J)
10/22/2024		9.8 (J)	19	17	5.8 (J)	7.4 (J)	6.5 (J)
10/23/2024	6.4 (J)						
4/28/2025				15	6 (J)		7.1 (J)
4/29/2025	6.3 (J)	10	14			6.8 (J)	
Mean	7.819	9	18.88	16.49	5.819	6.875	7.888
Std. Dev.	6.662	1.84	5.303	6.796	3.037	1.937	3.553
Upper Lim.	14.38	10.95	24.5	22.51	9.037	8.928	14
Lower Lim.	2.324	7.05	13.25	10.73	2.6	4.822	4.9

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 8/19/2025 3:52 PM View: Default
Burlington Generating Station Client: SCS Engineers Data: Burlington

Confidence Interval

Constituent: Molybdenum (ug/L) Analysis Run 8/19/2025 3:53 PM View: Default
 Burlington Generating Station Client: SCS Engineers Data: Burlington

	MW-302A	MW-307A	MW-312	MW-313	MW-313A	MW-307B	MW-313B
10/14/2021			240				
4/5/2022	120	120				59	
4/6/2022			210	190	100		100
10/20/2022	36	120		39	64	32	110
4/24/2023		4.3				7.5	
4/25/2023				18	2.8		14
4/26/2023	3.4		28				
8/1/2023	7.4	5.4	37	44			
8/2/2023					4.6	4.6	9.3
10/3/2023	8.5		37				
10/4/2023		3.8		52	3.5	2.2	11
4/23/2024			31				
4/24/2024	12	5.2		51		10	
4/25/2024					5.2		13
10/22/2024		6.7	36	47	5.8	12	14
10/23/2024	14						
4/28/2025				41	8.3		20
4/29/2025	18	16	40			13	
Mean	27.41	35.18	82.38	60.25	24.28	17.54	36.41
Std. Dev.	38.71	52.5	88.47	53.5	36.94	19.05	42.53
Upper Lim.	47.76	120	240	190	100	33.13	110
Lower Lim.	4.814	3.8	28	18	2.8	3.691	9.3