

Gavin Power, LLC

Gavin Residual Waste Landfill and Fly Ash Reservoir

2021 Annual Groundwater Monitoring and Corrective Action Report

Gavin Power Plant
Cheshire, Ohio

31 January 2022

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2021 Annual Groundwater Monitoring and Corrective Action Report

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Acronyms and Abbreviations

Name	Description
ASD	Alternate Source Demonstration
CCR	Coal Combustion Residual
CFR	Code of Federal Regulations
ERM	ERM Consulting and Engineering, Inc.
FAR	Fly Ash Reservoir
Gavin	Gavin Power, LLC
Plant	General James M. Gavin Power Plant
RWL	Residual Waste Landfill
SSI	Statistically significant increase

EXECUTIVE SUMMARY

On behalf of Gavin Power, LLC (Gavin), ERM Consulting and Engineering, Inc. (ERM) has prepared this *2021 Annual Groundwater Monitoring and Corrective Action Report* summarizing groundwater sampling activities at the Residual Waste Landfill (RWL) and Fly Ash Reservoir (FAR) at the General James M. Gavin Power Plant (Plant) located in Cheshire, Ohio. The RWL and FAR are coal combustion residual (CCR) management units at the Plant that are subject to regulation under Title 40, Code of Federal Regulations, Part 257, Subpart D (40 CFR § 257.50 *et seq.*), also known as the CCR Rule. In 2021, an updated monitoring well network was certified that combined the RWL and FAR, as documented in the *Updated Groundwater Monitoring System Evaluation and Certification—40 CFR 257.91* (ERM 2021a). Previously, Gavin maintained and monitored two separate (though adjacent) monitoring networks for the RWL and FAR.

Initial feedback on the RWL and FAR programs was received from the United States Environmental Protection Agency (USEPA). Discussion regarding this feedback is ongoing that may result in potential refinement of the groundwater monitoring program and/or revisions to this report.

This report documents the status of the groundwater monitoring program for the RWL and FAR, which includes the following as required by 40 CFR § 257.90(e):

- A summary of key actions completed;
- A description of problems encountered and actions taken to resolve the problems; and
- Identification of key activities for the coming year.

The combined RWL and FAR CCR unit groundwater monitoring program began calendar year 2021 in “detection monitoring” program status as defined by 40 CFR § 257.94 and remains in detection monitoring at the end of the 2021 reporting period. Groundwater monitoring in 2021 consisted of two semi-annual monitoring events completed in the spring and fall of 2021, which included groundwater level measurements and subsequent groundwater sampling. Groundwater level measurements were used to construct updated groundwater potentiometric surface maps for each of the geologic units monitored.

Groundwater samples were collected for laboratory analysis of CCR Rule Appendix III constituents and the results were compared to previously calculated upgradient well prediction limits to identify statistically significant increases (SSIs) for downgradient wells.

No SSIs were detected for the calendar year of 2021 in the combined RWL and FAR monitoring well network, and as a result no alternate source demonstrations (ASD) are submitted with this report. Therefore, the RWL/FAR network remains in detection monitoring at the conclusion of 2021. Accordingly, no remedial actions were selected, initiated, or performed in 2021.

1. INTRODUCTION

The General James M. Gavin Plant (Plant) is located in southeast Ohio along the western bank of the Ohio River (Figure 1-1) near Cheshire, Ohio. The Plant consists of three regulated coal combustion residual (CCR) management units that are subject to regulation under Title 40, Code of Federal Regulations, Part 257, Subpart D (40 CFR 257.50 *et seq.*), also known as the CCR Rule: the Residual Waste Landfill (RWL), the Fly Ash Reservoir (FAR), and the Bottom Ash Pond (BAP). An updated groundwater monitoring system was certified in August 2021 to monitor for potential releases from the combined RWL and FAR CCR units. Previously, Gavin maintained and monitored two separate (though adjacent) groundwater monitoring networks for the RWL and FAR, but certified the combined monitoring network on 31 August 2021 with submittal of *Updated Groundwater Monitoring System Evaluation and Certification—40 CFR 257.91* (ERM 2021a). The BAP has a separate monitoring system (ERM 2021b) and is not addressed in this report.

This report was produced by ERM Consulting and Engineering, Inc. (ERM) on behalf of Gavin Power, LLC and documents the status of the groundwater monitoring program for the RWL-FAR network, including the following as required by 40 CFR § 257.90(e):

- A summary of key actions completed;
- A description of problems encountered and actions taken to resolve the problems; and
- Identification of key activities for the coming year.

Consistent with the notification requirements of the CCR Rule, this annual groundwater monitoring report will be posted to the Plant operating record no later than 31 January 2022 (40 CFR § 257.105(h)(1)). Within 30 days of placing the report in the operating record, notification will be made to the Ohio Environmental Protection Agency and the report will be placed on the Plant publicly accessible internet site (40 CFR §§ 257.106(h)(1), 257.107(h)(1)). Table 1-1 cross-references the reporting requirements under the CCR Rule with the contents of this report.

Initial feedback on the RWL and FAR programs was received from the United States Environmental Protection Agency (USEPA). Discussion regarding this feedback is ongoing that may result in potential refinement of the groundwater monitoring program and/or revisions to this report.

Table 1-1: Regulatory Requirement Cross-Reference Table

Regulatory Citation in 40 CFR Part 257, Subpart D	Requirement (paraphrased)	Where Addressed in this Report
§ 257.90(e)	Status of the groundwater monitoring program.	Section 2
§ 257.90(e)	Summarize key actions completed.	Section 2.3, 2.4, and 3.1
§ 257.90(e)	Describe any problems encountered and actions taken to resolve problems.	Section 2.3
§ 257.90(e)	Key activities for upcoming year.	Section 4.0
§ 257.90(e)(1)	Map, aerial image, or diagram of coal combustion residual (CCR) unit and all background and downgradient monitoring wells.	Figure 2-1
§ 257.90(e)(2)	Identification of new monitoring wells installed or abandoned during the preceding year and narrative description.	N/A
§ 257.90(e)(3)	Summary of groundwater data, wells sampled, date sampled, and whether sampling was required under detection or assessment monitoring.	Section 2.3, 2.4, 3.2, Appendix A
§ 257.90(e)(4)	Narrative discussion of any transition between monitoring programs.	Section 2.2
§ 257.93(c) (via § 257.90(e)(5))	Rate and direction of groundwater flow each time groundwater is sampled	Section 3.1
§ 257.94(e)(2) (via § 257.90(e)(5))	Any alternate source demonstration reports and related certifications.	N/A

2. PROGRAM STATUS § 257.90(E)

2.1 Description of CCR Units

The RWL is located about 1.25 miles northwest of the Plant (Figure 2-1) and is permitted by the Ohio Environmental Protection Agency to accept and dispose of CCR material as a Class 3 Landfill. Approximately 98 percent of this material is Flue Gas Desulfurization byproduct (consisting of scrubber cake, fly ash, and lime) and the remaining 2 percent is other approved materials (bottom ash, lime ball mill rejects, coal pulverizer rejects, and BAP sediments).

The FAR is approximately 300 acres in size and is located about 2.5 miles northwest of the Plant (Figure 2-1). From the mid-1970s until January 1995, fly ash was sluiced to the FAR and the settled CCR materials were retained behind the Stingy Run Fly Ash Dam that formed the FAR. The facility was closed in place, and the closure was completed in 2021.

Expansion of the RWL was proposed in the *Final Permit-to-Install Application – Expansion of the Gavin Plant Residual Waste Landfill (PTI)* submitted in 2012 (Geosyntec 2012). Expansion of the RWL has been ongoing as the capacity needs have arisen, and the limit of waste has extended northward.

2.2 Monitoring Well Network

The RWL and FAR had previously been monitored using separate groundwater monitoring networks as described in the documents: *Groundwater Monitoring Network Evaluation—Residual Waste Landfill* (Geosyntec 2016a) and the *Groundwater Monitoring Network Evaluation—Fly Ash Reservoir* (Geosyntec 2016b). Annual Groundwater Monitoring and Corrective Action Reports for 2020 under these separate monitoring systems were prepared for the RWL (ERM 2021c) and FAR (ERM 2021d) and were posted to the Plant operating record on 31 January 2021. Because of the ongoing expansion of the RWL, several monitoring wells along the northern and western RWL boundaries were removed and a portion of the RWL was expanded over the FAR. To account for these changes and provide an adequate groundwater monitoring system for both units, a combined network for the two CCR units was identified and certified in August 2021 (ERM 2021a).

The combined network (Figure 2-2) currently contains 24 upgradient and 15 downgradient monitoring wells. The upgradient wells are placed to accurately represent the quality of background groundwater that has not been affected by potential leakage from the RWL and FAR units, while the downgradient wells are positioned at the downgradient boundary of waste to detect potential release of CCR constituents from the CCR units into groundwater in the uppermost aquifer.

2.3 Previous Groundwater Monitoring Activities

The RWL and FAR wells were initially sampled eight times between August 2016 and July 2017 to establish upgradient well baseline data. Prediction limits were developed using the baseline data and compared to the July 2017 downgradient well results, consistent with the CCR Rule and the *Statistical Analysis Plan* developed for Gavin (ERM 2017). This comparison resulted in the identification of statistically significant increases (SSI) for Appendix III analytes in downgradient RWL and FAR wells, which were reported in the *2017 Annual Groundwater Monitoring and Corrective Action Reports* for the RWL and FAR (ERM 2018a and ERM 2018b). Based on a detailed review of the hydraulic positions of monitoring wells within the RWL and FAR networks, a limited number of wells were reclassified as either upgradient or downgradient, and tolerance limits were updated based on the newly defined upgradient dataset. The hydraulic analysis and the derivation of the updated tolerance limits are presented in the first Alternate Source Demonstration reports for the FAR and RWL (ERM 2018c and ERM 2018d). Subsequent sampling and comparison to SSIs were completed in 2018, 2019, and 2020.

Groundwater samples were collected in 2020 as part of the detection monitoring program under 40 CFR § 257.94 and analyzed for the constituents listed in Appendix III to 40 CFR Part 257, Subpart D. Samples were collected in 2020 based on the existing separate RWL and FAR monitoring networks prepared in 2016; The *2020 Annual Groundwater Monitoring and Corrective Action Report* for the FAR (ERM 2021d) reported one SSI for pH at well 2016-07. The *2020 Annual Groundwater Monitoring and Corrective Action Report* for the RWL (ERM 2021c) reported one SSI for total dissolved solids at well 2016-20. ASD reports were prepared for both that identified alternate sources for these SSIs.

In December 2021 an addendum to the 2020 Annual Groundwater Monitoring and Corrective Action reports for the FAR and RWL was prepared that evaluated the 2020 data based on the combined groundwater monitoring network (ERM 2021e). Tables 2-1 and 2-2 present SSIs for the combined RWL-FAR monitoring well network from the year 2020. The SSI associated with the combined RWL-FAR monitoring well network in the 2020 results (Table 2-2) was addressed in an ASD report included in the Addendum (ERM 2021e). The ASD report concluded that the SSI for boron at well 2018-01 resulted from alternate sources, and thus the CCR unit remained in detection monitoring.

Table 2-1: SSIs from 2020 Sampling Events—Morgantown/Alluvium

Analyte/Event	Monitoring Well																	
	2000		93108 ¹		94137		96157 ²		9802		9806		2016-05 ¹		2018-02		2018-04	
	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
Boron	φ	φ	NS	NS	φ	φ	NS	NS	φ	φ	φ	φ	NS	NS	φ	φ	φ	φ
Calcium	φ	φ	NS	NS	φ	φ	NS	NS	φ	φ	φ	φ	NS	NS	φ	φ	φ	φ
Chloride	φ	φ	NS	NS	φ	φ	NS	NS	φ	φ	φ	φ	NS	NS	φ	φ	φ	φ
Fluoride	φ	φ	NS	NS	φ	φ	NS	NS	φ	φ	φ	φ	NS	NS	φ	φ	φ	φ
pH	φ	φ	NS	NS	φ	φ	NS	NS	φ	φ	φ	φ	NS	NS	φ	φ	φ	φ
Sulfate	φ	φ	NS	NS	φ	φ	NS	NS	φ	φ	φ	φ	NS	NS	φ	φ	φ	φ
Total Dissolved Solids	φ	φ	NS	NS	φ	φ	NS	NS	φ	φ	φ	φ	NS	NS	φ	φ	φ	φ

Notes: H1 = spring; H2 = fall; NS = Not Sampled; φ = No SSI; X = SSI; SSI = statistically significant increase
 1. Wells 93108 and 2016-05 were not sampled in 2020 because they had an insufficient volume of water to allow collection of samples.
 2. Well 96157 was not sampled in 2020 because it was not part of the federal monitoring network at the time of sampling.

Table 2-2: SSIs from 2020 Sampling Events—Cow Run

Analyte/Event	Monitoring Well											
	94136		96158 ¹		9631 ¹		2016-06		2018-01		2018-03	
	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
Boron	φ	φ	NS	NS	NS	NS	φ	φ	X	φ	φ	φ
Calcium	φ	φ	NS	NS	NS	NS	φ	φ	φ	φ	φ	φ
Chloride	φ	φ	NS	NS	NS	NS	φ	φ	φ	φ	φ	φ
Fluoride	φ	φ	NS	NS	NS	NS	φ	φ	φ	φ	φ	φ
pH	φ	φ	NS	NS	NS	NS	φ	φ	φ	φ	φ	φ
Sulfate	φ	φ	NS	NS	NS	NS	φ	φ	φ	φ	φ	φ
Total Dissolved Solids	φ	φ	NS	NS	NS	NS	φ	φ	φ	φ	φ	φ

Notes: H1 = spring; H2 = fall; NS = not sampled; φ = No SSI; X = SSI; SSI = statistically significant increase

1. Wells 96158 and 9631 were not sampled as part of the federal sampling events in 2020 because they were not part of the federal monitoring network at the time of sampling.

Notes: φ = No SSI, X = SSI

2.4 2021 Sampling Summary

Groundwater samples were collected in 2021 as part of the detection monitoring program under 40 CFR § 257.94 and analyzed for the constituents listed in Appendix III to 40 CFR Part 257, Subpart D. Tables 2-3 and 2-4 provide a summary of the 2021 sample dates and the well gradient designation (upgradient or downgradient of the CCR units). Samples were collected by bladder pump, submersible pump, Snap sampler, or Geomon pump, were not filtered in the field or at the laboratory, and were managed under chain-of-custody procedures from the field to the laboratory.

Some monitoring wells could not be sampled in 2021 due to insufficient water and/or pump failure. In an effort to resolve these and other sampling challenges that resulted in the inability to collect samples in 2021, pump inspection and/or replacement is planned for 2022.

Table 2-3. 2021 Sampling Dates for RWL-FAR Combined Network

Monitoring Well	Geologic Unit	Location	Sampling Dates	
			H1	H2
2000	Morgantown	Downgradient	22 March 2021	19 September 2021
2003	Morgantown	Upgradient	15 April 2021	29 September 2021
9396	Cow Run	Upgradient	NS ¹	NS ²
9631	Cow Run	Downgradient	NS ¹	27 September 2021
9801	Cow Run	Upgradient	NS ²	27 September 2021
9802	Alluvium	Downgradient	25 March 2021	28 September 2021
9806	Morgantown	Downgradient	20 March 2021	27 September 2021
9910	Morgantown	Upgradient	17 March 2021	24 September 2021
93100	Cow Run	Upgradient	25 March 2021	28 September 2021
93108	Morgantown	Downgradient	NS ²	20 September 2021

Monitoring Well	Geologic Unit	Location	Sampling Dates	
			H1	H2
94136	Cow Run	Downgradient	22 March 2021	19 September 2021
94137	Alluvium	Downgradient	22 March 2021	19 September 2021
94139	Morgantown	Upgradient	25 March 2021	28 September 2021
96152	Morgantown	Upgradient	10 March 2021	29 September 2021
96153R	Morgantown	Upgradient	19 March 2021	20 September 2021
96154R	Morgantown	Upgradient	19 March 2021	20 September 2021
96156	Morgantown	Upgradient	NS ²	NS ²
96157	Alluvium	Downgradient	NS ¹	28 September 2021
96158	Cow Run	Downgradient	NS ¹	28 September 2021
2016-03	Morgantown	Upgradient	16 March 2021	24 September 2021
2016-04	Cow Run	Upgradient	15 April 2021	3 November 2021
2016-05	Morgantown	Downgradient	NS ³	NS ³
2016-06	Cow Run	Downgradient	17 March 2021	24 September 2021
2016-07	Morgantown	Upgradient	23 March 2021	24 September 2021
2016-08	Cow Run	Upgradient	23 March 2021	24 September 2021
2016-09	Cow Run	Upgradient	19 March 2021	20 September 2021
2016-10	Cow Run	Upgradient	17 March 2021	20 September 2021
2016-11	Morgantown	Upgradient	17 March 2021	NS ³
2018-01	Cow Run	Downgradient	22 March 2021	27 September 2021
2018-02	Morgantown	Downgradient	8 April 2021	3 November 2021
2018-03	Cow Run	Downgradient	8 April 2021	3 November 2021
2018-04	Morgantown	Downgradient	8 April 2021	NS ³
2019-02	Morgantown	Upgradient	16 March 2021	25 September 2021
2019-06	Morgantown	Upgradient	16 March 2021	25 September 2021
2019-07	Cow Run	Upgradient	NS ¹	25 September 2021
2019-09	Cow Run	Upgradient	NS ¹	25 September 2021
MW-16	Morgantown	Upgradient	NS ¹	NS ³
MW-17	Cow Run	Upgradient	20 March 2021	19 September 2021
MW-20	Cow Run	Upgradient	19 March 2021	20 September 2021

Notes: H1 = spring; H2 = fall; NS = Not Sampled

1. Wells were not sampled as part of the federal sampling event in spring 2021 because they were not part of the federal monitoring network at the time of sampling.

2. Wells were not sampled due to pump failure.

3. Wells had an insufficient volume of water to allow collection of samples.

2.5 Data Quality

ERM reviewed field and laboratory documentation to assess the validity, reliability, and usability of the analytical results. Samples collected in 2021 were analyzed by TestAmerica of North Canton, Ohio. Data quality information reviewed for these results included field sampling forms, chain-of-custody documentation, holding times, laboratory methods, cooler temperatures, laboratory method blanks, laboratory control sample recoveries, field duplicate samples, matrix spikes/matrix spike duplicates, quantitation limits, and equipment blanks. Data qualifiers were appended to results in the project database, as appropriate, based on laboratory quality measurements (e.g., control sample recoveries) and field quality measurements (e.g., agreement between normal and field duplicate samples). ERM's data quality review found the laboratory analytical results to be valid, reliable, and usable for decision-making purposes with the listed qualifiers. No analytical results were rejected.

3. 2021 RESULTS

3.1 2021 Groundwater Flow Direction and Velocity

Depth to groundwater measurements were collected in March and September 2021 at each monitoring well prior to each sampling event. Groundwater elevations, calculated by subtracting the depth to groundwater from the surveyed reference elevation for each well, were reviewed for each sampling event. Groundwater elevations, interpreted potentiometric surface maps, and interpreted groundwater flow directions for wells screened in the Morgantown Sandstone and Cow Run Sandstone are presented on Figures 3-1 through 3-4.

The principal direction of groundwater flow in the uppermost aquifer system under the RWL (both in the Morgantown Sandstone and in Cow Run Sandstone) is from the north and northwest to the south and southeast, towards the Ohio River. Groundwater velocity estimates are presented in the next sections.

3.1.1 Morgantown Sandstone Groundwater Velocity

Horizontal hydraulic gradients were calculated for the Morgantown Sandstone using groundwater elevations calculated at wells 96154R and 2018-02 for both the spring and fall sampling events. The velocity of groundwater through the Morgantown sandstone is estimated based on the measured horizontal hydraulic gradient, a hydraulic conductivity of 7.18×10^{-5} centimeters per second (Geosyntec 2012), and an estimated effective porosity value of 0.01 for fractured bedrock. For the spring sampling event, a horizontal hydraulic gradient of 0.010 was calculated, resulting in an estimated groundwater velocity of 77 feet/year. For the fall sampling event, a horizontal hydraulic gradient of 0.010 was calculated, resulting in an estimated groundwater velocity of 78 feet/year.

Historical groundwater velocity calculations were made using monitoring wells 96154R and 2016-21. Well 2016-21 is no longer part of the monitoring network at the RWL and FAR and has been replaced with the nearby well 2018-02. Groundwater velocities in 2021 are similar to those calculated in 2020 using the groundwater elevation at well 2016-21 (75-77 feet/year).

3.1.2 Cow Run Sandstone Groundwater Velocity

Horizontal hydraulic gradients were calculated for the Cow Run Sandstone using groundwater elevations calculated at wells 2016-09 and 9631 for both the fall and spring sampling events. The velocity of groundwater through the Cow Run sandstone is estimated based on the measured horizontal hydraulic gradient, a hydraulic conductivity of 2.92×10^{-5} centimeters per second (Geosyntec 2012), and an effective porosity value of 0.01 for fractured bedrock. For the spring sampling event, a horizontal hydraulic gradient of 0.012 was calculated, resulting in an estimated groundwater velocity of 36 feet/year. For the fall sampling event, a horizontal hydraulic gradient of 0.013 was calculated, resulting in an estimated groundwater velocity of 39 feet/year. Groundwater velocities in 2021 are similar to those calculated in 2020 (26-32 feet/year).

3.2 Comparison of Results to Prediction Limits

Consistent with the CCR Rule and with Gavin's *Statistical Analysis Plan* (ERM 2017), a prediction limit approach was used to identify potential impacts to groundwater. Upper prediction limits were developed for the Appendix III parameters; in the case of pH, a lower prediction limit was also developed. Documentation of the development of the upper prediction limits and lower prediction limit for the RWL is provided in the *2018 Alternate Source Demonstration* (ERM 2018c).

3.2.1 2021 Sampling Event Results

Tables 3-1 and 3-2 summarize SSIs observed in the Morgantown and Cow Run downgradient wells for the semiannual sampling events of 2021. The spring field sampling event was conducted between 15 March and 8 April 2021 and the fall field sampling event was conducted between 19 September and 3 November 2021.

Table 3-1: SSIs from 2021 Sampling Events—Morgantown/Alluvium

Analyte/Event	Monitoring Well																	
	2000		93108 ¹		94137		96157 ²		9802		9806		2016-05 ¹		2018-02		2018-04 ¹	
	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
Boron	φ	φ	NS	φ	φ	φ	NS	φ	φ	φ	φ	φ	NS	NS	φ	φ	φ	NS
Calcium	φ	φ	NS	φ	φ	φ	NS	φ	φ	φ	φ	φ	NS	NS	φ	φ	φ	NS
Chloride	φ	φ	NS	φ	φ	φ	NS	φ	φ	φ	φ	φ	NS	NS	φ	φ	φ	NS
Fluoride	φ	φ	NS	φ	φ	φ	NS	φ	φ	φ	φ	φ	NS	NS	φ	φ	φ	NS
pH	φ	φ	NS	φ	φ	φ	NS	φ	φ	φ	φ	φ	NS	NS	φ	φ	φ	NS
Sulfate	φ	φ	NS	φ	φ	φ	NS	φ	φ	φ	φ	φ	NS	NS	φ	φ	φ	NS
Total Dissolved Solids	φ	φ	NS	φ	φ	φ	NS	φ	φ	φ	φ	φ	NS	NS	φ	φ	φ	NS

Notes: H1 = spring; H2 = fall; NS = Not Sampled; φ = No SSI; X = SSI; SSI = statistically significant increase

1. Wells 93108 and 2016-05 were not sampled as part of the federal sampling event in spring 2021, and wells 2016-05 and 2018-04 were not sampled as part of the federal sampling event in fall 2021, because they had an insufficient volume of water to allow collection of samples.

2. Well 96157 was not sampled as part of the federal sampling event in spring 2021 because it was not part of the federal monitoring network at the time of sampling.

Table 3-2: SSIs from 2021 Sampling Events—Cow Run

Analyte/Event	Monitoring Well											
	94136		96158 ¹		9631 ¹		2016-06		2018-01		2018-03	
	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
Boron	φ	φ	NS	φ	NS	φ	φ	φ	φ	φ	φ	φ
Calcium	φ	φ	NS	φ	NS	φ	φ	φ	φ	φ	φ	φ
Chloride	φ	φ	NS	φ	NS	φ	φ	φ	φ	φ	φ	φ
Fluoride	φ	φ	NS	φ	NS	φ	φ	φ	φ	φ	φ	φ
pH	φ	φ	NS	φ	NS	φ	φ	φ	φ	φ	φ	φ
Sulfate	φ	φ	NS	φ	NS	φ	φ	φ	φ	φ	φ	φ
Total Dissolved Solids	φ	φ	NS	φ	NS	φ	φ	φ	φ	φ	φ	φ

Notes: H1 = spring; H2 = fall; NS = not sampled; φ = No SSI; X = SSI; SSI = statistically significant increase

1. Wells 96158 and 9631 were not sampled as part of the federal sampling event in spring 2021 because they were not part of the federal monitoring network at the time of sampling.

Notes: φ = No SSI, X = SSI

No SSIs were detected for the RWL-FAR groundwater monitoring network in 2021. A summary of all analytical results obtained from the RWL-FAR groundwater monitoring is provided in Appendix A. Laboratory analytical reports from both sampling events are provided in Appendix B.

4. KEY FUTURE ACTIVITIES

No SSIs were identified for the RWL-FAR combined groundwater monitoring network in 2021. Because it meets requirements, the RWL-FAR remains in detection monitoring at the end of the 2021 reporting period. As described in Section 2.3, pump inspection and/or replacement is planned for 2022 to resolve challenges which resulted in the inability to collect some samples in 2021. Two groundwater sampling events will be performed in 2022 at the RWL-FAR and the results will be compared to the prediction limits.

5. REFERENCES

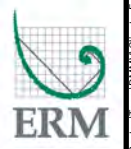
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- Geosyntec. 2016b. *Groundwater Monitoring Network Evaluation, Gavin Site—Fly Ash Reservoir, Cheshire, Ohio.*

FIGURES

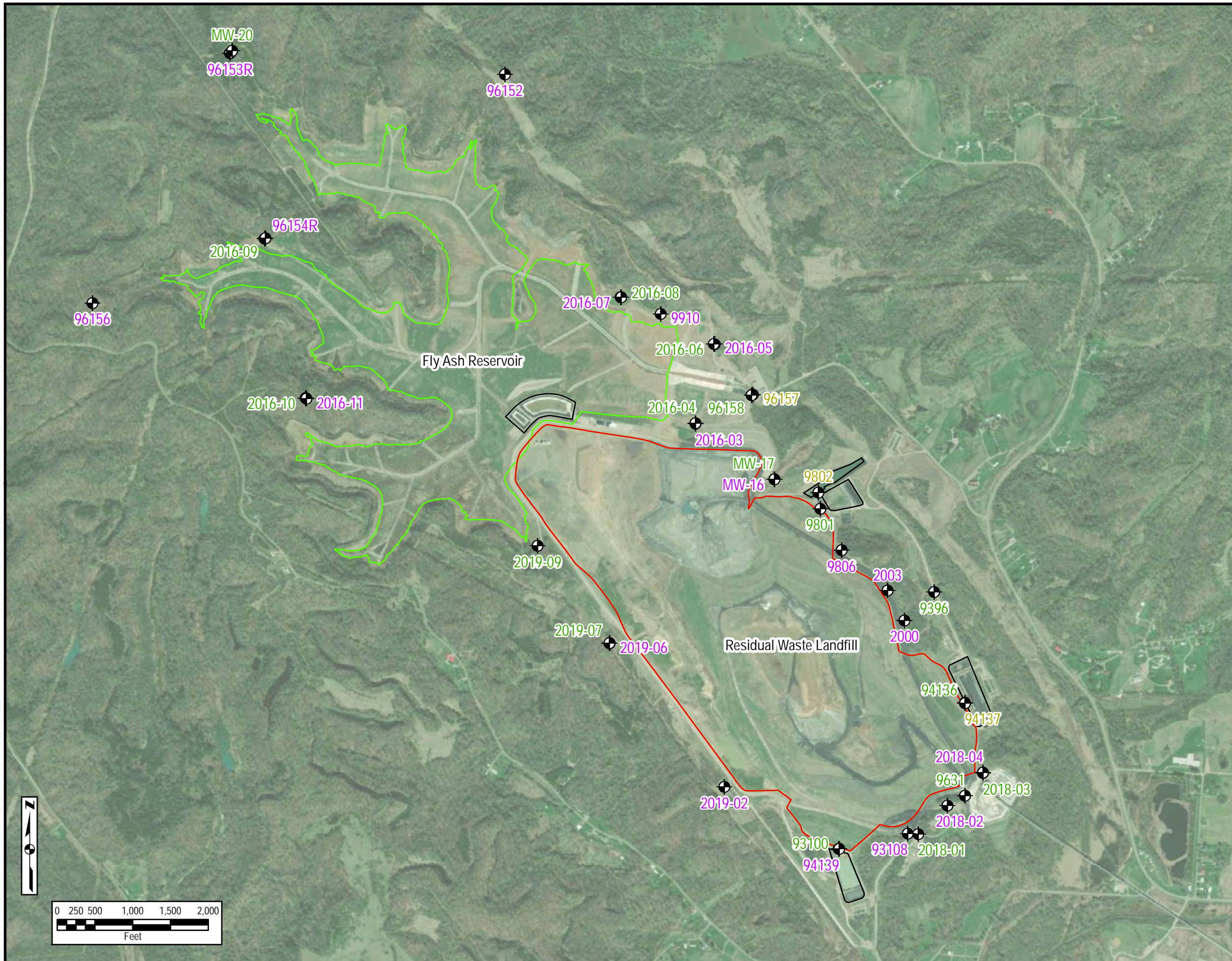


General James M. Gavin Plant

Figure 1-1: Gavin Plant Location
 Gavin Power, LLC
 Cheshire, Ohio



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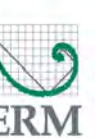


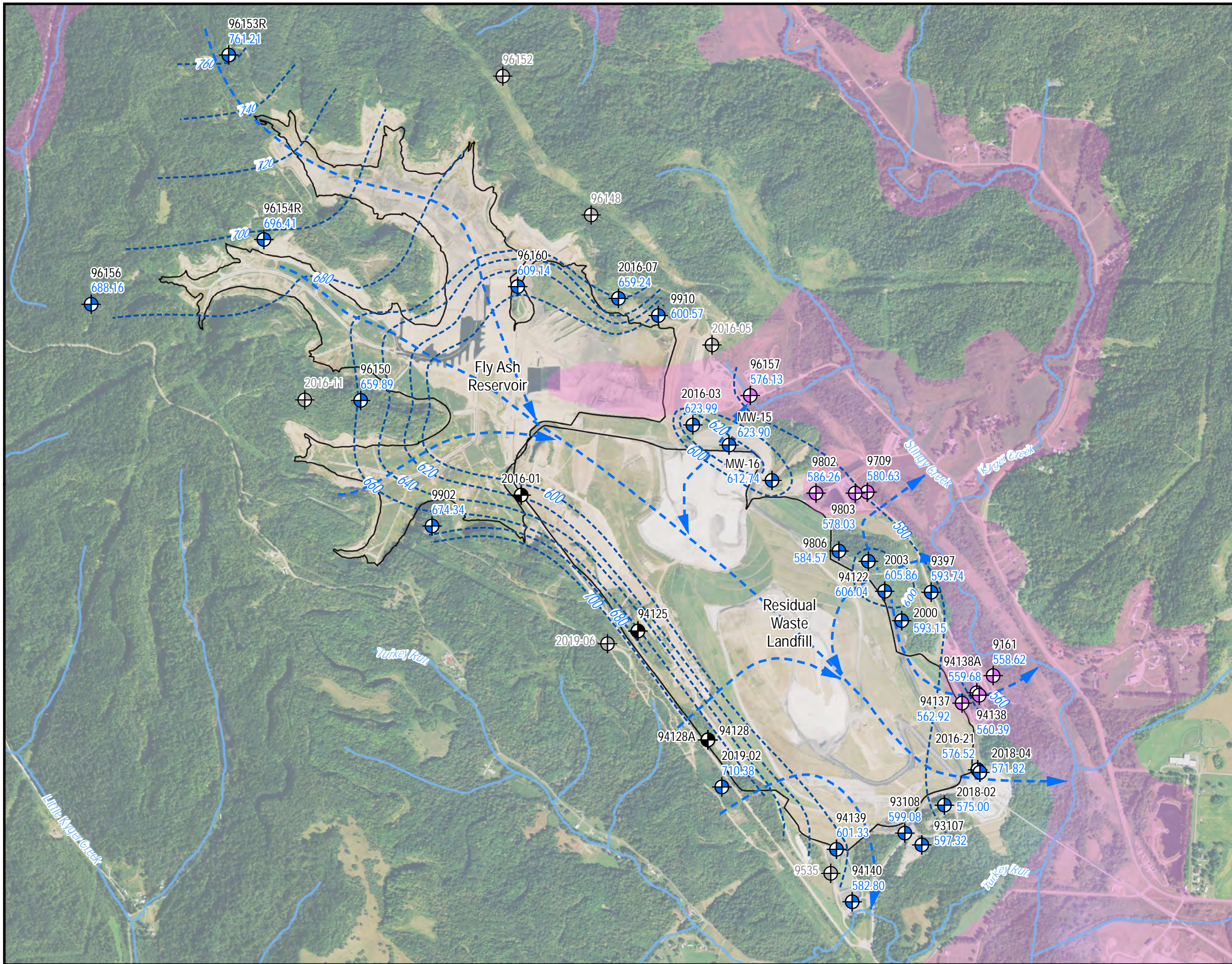
Legend

- Monitoring Well
- Pond Areas
- Residual Waste Landfill
- Fly Ash Reservoir
- Alluvium Monitoring Well
- Morgantown Monitoring Well
- Cow Run Monitoring Well

NOTE:
 - Aerial Imagery: Esri World Imagery
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Figure 2-2: Residual Waste Landfill and Fly Ash Reservoir Monitoring Well Network
 Gavin Power, LLC
 Cheshire, Ohio





Legend

- Morgantown Sandstone Monitoring Well
- Morgantown Sandstone Monitoring Well - Low Recharge, Dry, Data Anomaly, or Not Gauged
- Morgantown Sandstone Monitoring Well - Abandoned Fall 2019/Spring 2020
- Alluvium Monitoring Well
- 605.82 Groundwater Elevation (ft)
- Interpreted Groundwater Potentiometric Contour
- Interpreted Generalized Groundwater Flow Direction
- Stream/Creek
- Coal Combustion Residual Unit
- Interpreted area where the Morgantown Sandstone has been eroded and is not present (based on borehole logs and topographic analysis)

NOTES:

- Interpreted contours based on groundwater gauging conducted between 3/5/2021 to 6/4/2021.
- Some groundwater elevation contours were interpreted using historical groundwater elevation trends in monitoring wells that were not gauged between March and June 2021 (historical data not shown on figure).
- Where the Morgantown SS is absent, the contours represent the potentiometric surface in the alluvial aquifer because these aquifers are hydraulically connected.
- Interpreted groundwater flow directions include potential influence from GWIs.

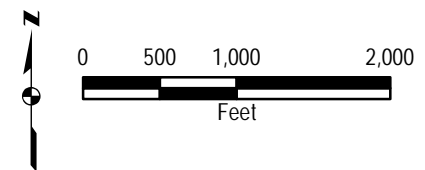

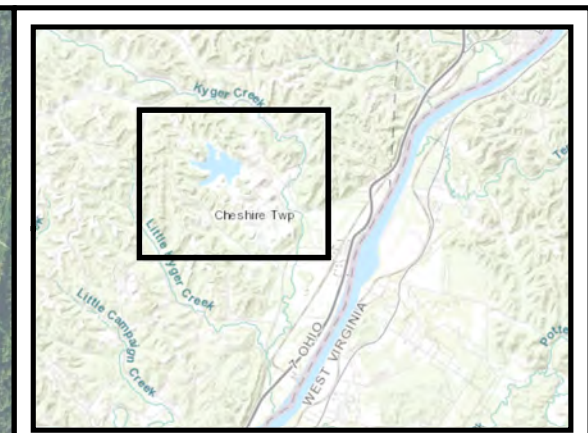


Figure 3-1: Morgantown Sandstone Groundwater Flow Directions Spring 2021
 Gavin Power, LLC
 Cheshire, Ohio



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Legend

- Morgantown Sandstone Monitoring Well
- Morgantown Sandstone Monitoring Well - Low Recharge, Dry, Data Anomaly, or Not Gauged
- Morgantown Sandstone Monitoring Well - Abandoned Fall 2019/Spring 2020
- Alluvium Monitoring Well

605.82 Groundwater Elevation (ft)

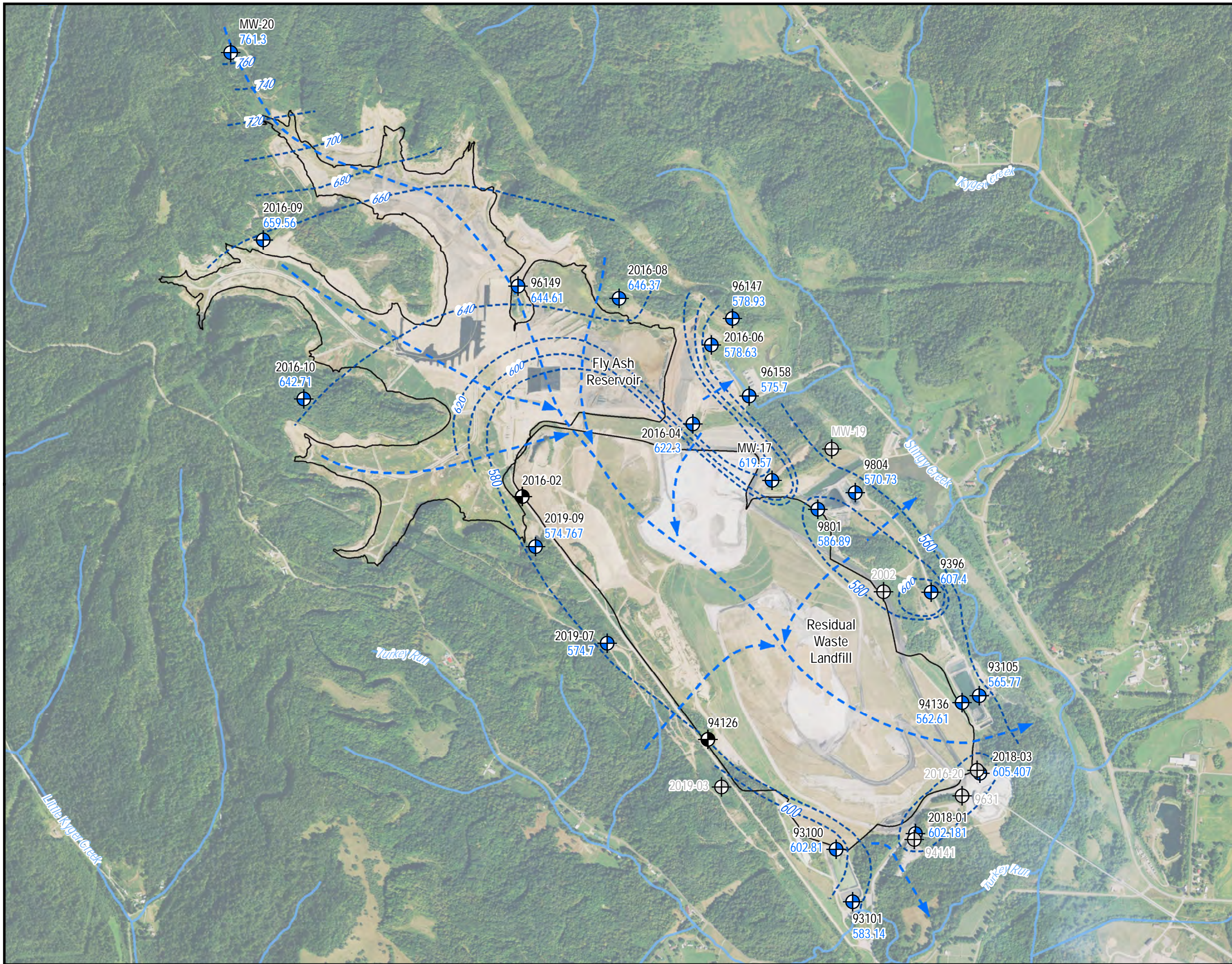
- Interpreted Groundwater Potentiometric Contour
- Interpreted Generalized Groundwater Flow Direction
- Stream/Creek
- Coal Combustion Residual Unit
- Interpreted area where the Morgantown Sandstone has been eroded and is not present (based on borehole logs and topographic analysis)

NOTES:

- Interpreted contours based on groundwater gauging conducted between 9/14/2021 to 9/15/2021.
- Some groundwater elevation contours were interpreted using historical groundwater elevation trends in monitoring wells that were not gauged in September 2021 (historical data not shown on figure).
- Where the Morgantown SS is absent, the contours represent the potentiometric surface in the alluvial aquifer because these aquifers are hydraulically connected.
- Interpreted groundwater flow directions include potential influence from GWIs.

Figure 3-3: Morgantown Sandstone Groundwater Flow Directions Fall 2021
 Gavin Power, LLC
 Cheshire, Ohio

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- Cow Run Sandstone Monitoring
- Cow Run Sandstone Well - Low Recharge, Dry, or Data Anomaly
- Cow Run Sandstone Monitoring Well - Abandoned Fall 2019/Spring 2020
- 605.82 Groundwater Elevation
- - - - - Interpreted Groundwater Potentiometric Contour
- > Interpreted Generalized Groundwater Flow Direction
- Stream/Creek
- Coal Combustion Residual

NOTES:

- Cow Run Sandstone is present through entire site.
- Interpreted contours based on groundwater gauging conducted between 9/14/2021 to 9/15/2021.
- Some groundwater elevation contours were interpreted using historical groundwater elevation trends in monitoring wells that were not gauged in September 2021 (historical data not shown on figure).

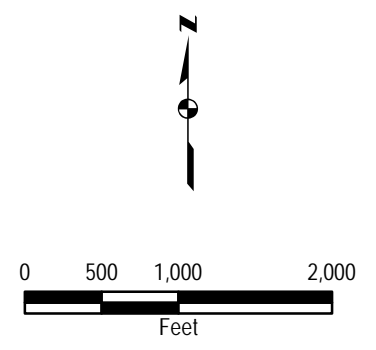


Figure 3-4: Cow Run Sandstone Groundwater Flow Directions Fall 2021
 Gavin Power, LLC
 Cheshire, Ohio



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APPENDIX A ANALYTICAL DATA SUMMARY

Appendix B
Analytical Data Summary
Fly Ash Reservoir & Residual Waste Landfill
Gavin Power Plant

Analyte	Program Location Date Sample Type Unit	FEDERAL 2000 2016-08-24 N	FEDERAL 2000 2016-10-06 N	FEDERAL 2000 2016-12-01 N	FEDERAL 2000 2017-02-02 N	FEDERAL 2000 2017-03-23 N	FEDERAL 2000 2017-05-01 N	FEDERAL 2000 2017-06-12 N	FEDERAL 2000 2017-07-17 N	FEDERAL 2000 2018-03-15 N	FEDERAL 2000 2018-09-13 N	FEDERAL 2000 2019-03-12 N	FEDERAL 2000 2019-09-24 N	FEDERAL 2000 2020-03-24 N	FEDERAL 2000 2020-09-22 N	FEDERAL 2000 2021-03-22 FD	FEDERAL 2000 2021-03-22 N	FEDERAL 2000 2021-09-19 N
Alkalinity, Total as CaCO3	mg/L			417	424					380	370	380	380	390	380	390	390	360
Aluminum	mg/L					7.8 J	0.18	1.4 B	0.32									
Antimony	mg/L	2E-05 J	1E-05 J	3E-05	0.0001	0.002 U	0.002 U	0.002 U	0.002 U									
Arsenic	mg/L	0.0018	0.00177	0.00153	0.00192	0.0042 J	0.0017 J	0.0024 J	0.0017 J									
Barium	mg/L	0.0244	0.0233	0.019	0.0245	0.078 B	0.022	0.036	0.024									
Beryllium	mg/L	2E-05 U	5E-06 J	5E-06	2E-05 U	0.00042 J	0.001 U	0.001 U	0.001 U									
Bicarbonate Alkalinity as CaCO3	mg/L									350	330		340	350	350	350	350	320
Bicarbonate Alkalinity as HCO3	mg/L											350						
Boron	mg/L	0.289	0.278	0.296	0.283	0.33	0.33	0.34	0.35 JB	0.32		0.34	0.31	0.29	0.32	0.37	0.37	0.32
Bromide	mg/L			0.412	0.334	0.41 J	5 U	2.5 U	2.5 U									
Cadmium	mg/L	2E-05 U	5E-06 J	1E-05	5E-05	0.001 U	0.001 U	0.001 U	0.001 U									
Calcium	mg/L	2.7	2.78	2.64	2.57	3.9 B	2.5	3.2	2.6	2.6	2.8	2.6	2.6	2.5	2.7	3.1	3	2.7
Carbonate Alkalinity as CaCO3	mg/L									34	34	34	38	41	29	39	41	38
Chloride	mg/L	83.9	92	96.9	96.3	96	60	79	62	86	96	93	100	110	87	90	87	110
Chromium	mg/L	0.0018	0.0033	0.0007	0.00263	0.06	0.0019 J	0.0081	0.0019 J									
Cobalt	mg/L	0.00011	0.000202	4.6E-05	0.000151	0.0052	0.00026 J	0.0011	0.00042 J									
Conductivity, Field	uS/cm	2068	2149	2094	2158					2079				2014	1990	2005	2005	2047
Copper	mg/L					0.01 B	0.002 U	0.0048 B	0.002 U									
Dissolved Oxygen, Field	mg/L	0.88	3.16	1.59	1.86					0.2								
Dissolved Solids, Total	mg/L	1220	1300	1290	1290	1300 J	1200 J	1300	1300 J	1300		1300	1300	1300	1200	1300	1300	1400
Fluoride	mg/L	1.86	2	2.26	2.13	2.6	2.2	2.4	2.2	2.2	2.3	2.2	2.5	2.4	2.1	2.2	2.1	2.5
Iron	mg/L					8.3 JB	0.19	1.5	0.39									
Lead	mg/L	3.9E-05	9.6E-05	4.9E-05	0.000237	0.0052 J	0.00056 J	0.0011	0.00058 J									
Lithium	mg/L	0.02	0.023	0.017	0.014	0.021	0.016	0.018	0.016									
Magnesium	mg/L			0.724	0.723	2.4 B	0.75 J	1.1	0.8 J	0.66 J	0.69 J	0.76 J	0.74 J	0.73 J	0.64 J	0.82 J	0.76 J	0.7 J
Manganese	mg/L					0.084	0.01	0.026	0.014									
Mercury	mg/L	5E-06 U	5E-06 U	2E-06	5E-06 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U									
Molybdenum	mg/L	0.0389	0.0349	0.0331	0.0345	0.037	0.033	0.033	0.032									
Nickel	mg/L					0.039	0.002 U	0.0056	0.0018 J									
pH, Field	pH units	7.28	8.89	8.6	8.59	8.69	8.58	8.55	8.61	8.71	8.6	8.85	8.83	8.85	8.79	8.68	8.68	8.68
Potassium	mg/L			1.05	1.49	2.6 B	0.92 J	1.2	0.91 J	0.84 J	1	0.93 J	0.9 J	0.98 J	0.87 J	1.1	0.98 J	0.78 J
Radium-226	pCi/L	0.356	0.547	0.32	0.257	0.303	0.116	0.147	0.171									
Radium-226/228	pCi/L	1.348	1.827	0.595	0.701	0.497	0.339	0.539	0.53									
Radium-228	pCi/L	0.992	1.28	0.275	0.444	0.194 U	0.224 U	0.393	0.359									
Redox Potential, Field	mV	167.6	70.5	-68	88.2													
Selenium	mg/L	7E-05 J	4E-05 J	5E-05	0.0001 U	0.00073 J	0.005 U	0.005 U	0.005 U									
Silver	mg/L					0.0005 J	0.001 U	0.001 U	0.001 U									
Sodium	mg/L			414	405	440 JB	480 B	460 B	440 JB	440	460	470	490	430	450	470	470	460
Strontium	mg/L			0.199	0.19	0.22 B	0.19 B	0.2 B	0.19									
Sulfate	mg/L	493	516	567	521	560 J	570	560	560	560	570	570	540	540	530	430	490	530
Temperature, Field	deg C	15.16	18.6	15.2	12.4					13.1				13	16	14	14	15
Thallium	mg/L	2E-05 J	4E-05 J	1E-05	5.2E-05	0.001 U	0.001 U	0.001 U	0.001 U									
Turbidity, Field	NTU	3.3	5.1	6.7	1.9	61.2	28.9	31.1	5.7	1.2	1.96		3	16.5	0.3	4.3	4.3	0.4
Vanadium	mg/L					0.013			0.005 U									
Zinc	mg/L					0.026	0.02 U	0.02 U	0.02 U									

Notes:
FD = Field duplicate sample
N = Normal environmental sample
deg C = Degree Celcius
mg/L = Milligrams per liter
mV = Millivolts
NTU = Nephelometric Turbidity Unit
uS/cm = Microsiemens per centimeter
pCi/L = Picocuries per liter
B: Compound was found in the blank and sample.
J: Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
U: Indicates the analyte was analyzed for but not detected.
Empty cells = Not analyzed

Appendix B
Analytical Data Summary
Fly Ash Reservoir & Residual Waste Landfill
Gavin Power Plant

Analyte	Program Location Date Sample Type Unit	FEDERAL 2003 2016-12-01 N	FEDERAL 2003 2017-02-08 N	FEDERAL 2003 2017-03-27 N	FEDERAL 2003 2017-05-01 N	FEDERAL 2003 2017-06-12 N	FEDERAL 2003 2018-10-29 N	FEDERAL 2003 2019-09-21 N	FEDERAL 2003 2020-03-24 N	FEDERAL 2003 2020-09-21 N	FEDERAL 2003 2021-04-15 N	FEDERAL 2003 2021-09-29 N	FEDERAL 2016-03 2016-08-24 N	FEDERAL 2016-03 2016-10-03 N	FEDERAL 2016-03 2016-12-01 N	FEDERAL 2016-03 2017-01-31 N	FEDERAL 2016-03 2017-03-27 N	FEDERAL 2016-03 2017-04-27 N
Alkalinity, Total as CaCO3	mg/L	709	680				730	740	750	760	780	770			482	443		
Aluminum	mg/L			61 J	34	27	28										0.03 J	0.05 U
Antimony	mg/L	0.00029	0.0002	0.0014 JB	0.00087 J	0.00074 J	0.00058 J						0.00096	0.00041	0.0004	0.00026	0.002 U	0.002 U
Arsenic	mg/L	0.00826	0.0074	0.03	0.019	0.02	0.021						0.00059	0.00092	0.0007	0.00063	0.00058 J	0.001 J
Barium	mg/L	0.175	0.145	0.41 B	0.39	0.29	0.2						0.0321	0.0383	0.0256	0.0241	0.026 JB	0.024
Beryllium	mg/L	0.000166	0.000162	0.0031	0.0022	0.0016	0.0011						1E-05 J	7.2E-05	1E-05 J	6E-06 J	0.001 U	0.001 U
Bicarbonate Alkalinity as CaCO3	mg/L						710	710	710	730	740	750						
Bicarbonate Alkalinity as HCO3	mg/L																	
Boron	mg/L	0.461	0.462	0.46	0.48	0.51	0.48	0.44	0.41	0.45	0.45	0.44	0.43	0.35	0.361	0.416	0.43	0.44 B
Bromide	mg/L	2.7	2.25	2.6 J	2.4 J	2 J									0.614	3.5	0.4 J	2.5 U
Cadmium	mg/L	8E-05	6E-05	0.001 U	0.001 U	0.001 U	0.001 U						0.00012	0.0001	0.00016	6E-05	0.001 U	0.001 U
Calcium	mg/L	8.98	8.37	12 B	15	12	7.5	5.8	5	5.7	7.5	9	5.8	149	129	128	134	140 B
Carbonate Alkalinity as CaCO3	mg/L						27	21	34	28	34	23						
Chloride	mg/L	643	700	650	690	560	430	390	500	440	440	480	21.7	21.8	22.7	867	22	23
Chromium	mg/L	0.0011	0.0839	0.11 B	0.058	0.055	0.037						0.0002	0.0002	0.000162	0.000852	0.00064 JB	0.002 U
Cobalt	mg/L	0.00251	0.00382	0.023	0.014	0.013	0.0075						0.000403	0.000563	0.0005	0.000246	0.00029 J	0.00055 J
Conductivity, Field	uS/cm	3638	3676						2692	2760	2783	2824	1564	1599	1595	1328		
Copper	mg/L			0.023 B	0.018 B	0.019 B	0.0076										0.0018 JB	0.002 U
Dissolved Oxygen, Field	mg/L	1.03	1.28										4.38	1.15	1.77	2.38		
Dissolved Solids, Total	mg/L	1950	1960	2100 J	2400 J	2100	1800	1600	1400	1600	1800	1700	1090	1080	1020	1990	1100	1100 J
Fluoride	mg/L	2.7	2.36	2.9	2.8	2.7	3.2	3.6	3.4	3.2	3.3	3.5	0.2	0.18	0.16	2.33	0.21 J	0.19 J
Iron	mg/L			67 JB	38	36	19										0.087 JB	0.068 J
Lead	mg/L	0.00144	0.00165	0.031 J	0.019	0.018	0.0097						0.000324	0.000456	0.000213	0.000105	0.00026 J	0.001 U
Lithium	mg/L	0.024	0.019	0.084	0.05	0.051	0.051						0.03	0.03	0.034	0.031	0.029	0.034
Magnesium	mg/L	2.26	2.65	9.6 B	7.3	5.9	4	1.5	1.3	1.6	4.2	1.6			38.6	40.5	40 B	40
Manganese	mg/L			0.21 B	0.17	0.13	0.062										0.051 B	0.1
Mercury	mg/L	1.7E-05	5E-06 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U						1.1E-05	4E-05	3.9E-05	1.8E-05	0.0002 U	0.0002 U
Molybdenum	mg/L	0.105	0.125	0.12	0.1	0.12 J	0.16						0.0154	0.00646	0.00649	0.00523	0.0049 J	0.0043 J
Nickel	mg/L			0.074 B	0.039	0.04	0.025										0.0015 JB	0.002 U
pH, Field	pH units	8.02	7.84	7.94	7.87	7.83	8.06	8.19	8.26	8.21	8.08	8.08	7.07	6.91	6.99	6.93	6.93	6.9
Potassium	mg/L	2.61	3.22	11 B	7.2	6	5.9	1.8	1.5	2	5.1	1.8			4.63	5.03	4.3 JB	4.4
Radium-226	pCi/L	0.555	0.193	0.937	0.45	1.48	0.909						0.306	0.225	0.266	0.854	0.194	0.195
Radium-226/228	pCi/L	0.975	1.483	2.93	0.95	2.05	1.71						0.409	1.295	0.44	1.121	0.456	0.541
Radium-228	pCi/L	0.42	1.29	2 G	0.5 U	0.57 U	0.797						0.103	1.07	0.174	0.267	0.262 U	0.347
Redox Potential, Field	mV	4	-122.2										20.9	48.2	50.5	73.5		
Selenium	mg/L	0.0013	0.0011	0.0068	0.0034 J	0.0046 J	0.0017 J						0.0002	0.0003	0.0001	0.0001	0.005 U	0.005 U
Silver	mg/L			0.00074 J	0.00023 J	0.00061 J	0.0005 J										3E-05 J	0.001 U
Sodium	mg/L	605	628	730 JB	740 B	730	630	620	590	610	630	640			171	156	150 JB	160 B
Strontium	mg/L	0.593	0.567	0.84 B	0.94 B	0.69 B	0.52								2.95	3.25	3.6 JB	3.7
Sulfate	mg/L	77.8	65.3	84 J	84	86	73	74	72	84	76	70	446	445	362	132	390	420
Temperature, Field	deg C	12.5	13.1						14	16	13	14	15.8	15.6	12.8	13		
Thallium	mg/L	4E-05	3E-05 J	0.00031 J	0.001 U	0.001 U	0.0002 J						2E-05 J	3E-05 J	2E-05 J	2E-05 J	0.001 U	0.001 U
Turbidity, Field	NTU	123.9	265.2	530.1	336.7	236.9	1000	60	24.3	43.1	683	19.7	6.4	9	8.1	4.9	2.1	1.3
Vanadium	mg/L																	
Zinc	mg/L			0.11	0.07	0.059	0.041										0.02 U	0.02 U

Notes:
FD = Field duplicate sample
N = Normal environmental sample
deg C = Degree Celcius
mg/L = Milligrams per liter
mV = Milivolts
NTU = Nephelometric Turbidity Unit
uS/cm = Microsiemens per centimeter
pCi/L = Picocuries per liter
B: Compound was found in the blank and sample.
J: Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
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Appendix B
Analytical Data Summary
Fly Ash Reservoir & Residual Waste Landfill
Gavin Power Plant

Analyte	Program Location Date Sample Type Unit	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	
		2016-03 2017-06-07 N	2016-03 2017-07-14 N	2016-03 2018-03-21 N	2016-03 2018-09-25 N	2016-03 2019-03-15 N	2016-03 2019-09-24 N	2016-03 2020-03-25 N	2016-03 2020-09-21 N	2016-03 2021-03-16 N	2016-03 2021-09-24 N	2016-04 2016-08-24 N	2016-04 2017-01-31 N	2016-04 2017-03-27 N	2016-04 2017-04-27 N	2016-04 2017-06-07 N	2016-04 2017-07-14 N	2016-04 2018-03-22 N
Alkalinity, Total as CaCO3	mg/L			430	430	440 B	450	500	340	340	320		50.7					
Aluminum	mg/L	0.05 U	0.045 J										0.39 J	0.05 U	0.058	0.05 U		
Antimony	mg/L	0.002 U	0.002 U									0.00116	0.00033	0.00067 JB	0.00087 J	0.002 U	0.00097 J	
Arsenic	mg/L	0.00082 J	0.00088 J									0.00421	0.00259	0.0054	0.0044 J	0.0019 J	0.0039 J	
Barium	mg/L	0.026	0.025									0.117	0.065	0.14 JB	0.16	0.41	0.24	
Beryllium	mg/L	0.001 U	0.001 U									4E-05 U	2.2E-05	0.001 U	0.001 U	0.001 U	0.00038 J	
Bicarbonate Alkalinity as CaCO3	mg/L			430	430	440 B	450	500	340	340	320							
Bicarbonate Alkalinity as HCO3	mg/L																	
Boron	mg/L	0.45	0.44	0.43	0.43	0.41	0.39	1.6	1.7	1.7	2.1	0.343	0.227	0.27	0.27 B	0.36	0.3	
Bromide	mg/L	2.5 UJ	2.5 U										0.896	4 J	7.4 J	9.3 J	4.8 J	
Cadmium	mg/L	0.001 U	0.001 U									5E-05	7E-05	0.001 U	0.001 U	0.001 U	0.001 U	
Calcium	mg/L	150	140	140	140	120	130	290	330	370	450	9.88	47.6	22 B	18	33	24	
Carbonate Alkalinity as CaCO3	mg/L			5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U							
Chloride	mg/L	22 J	22	24	23	23	24	32	50	38	30	1060	204	820	1700	2100 J	1100	
Chromium	mg/L	0.002 U	0.002 U									0.0305	0.00651	0.0054 JB	0.0027	0.002 U	0.0016 J	
Cobalt	mg/L	0.00019 J	0.00034 J									0.000641	0.000173	0.00026 J	0.001 U	0.001 U	0.00027 J	
Conductivity, Field	uS/cm			1511				2101	2232	2462	2700	6270	1328				2138	
Copper	mg/L	0.002 U	0.002 U											0.0024 B	0.002 U	0.002 U	0.002 U	
Dissolved Oxygen, Field	mg/L			0.26								1.04	2.38				3.92	
Dissolved Solids, Total	mg/L	1000	1000 J	1100	1000	1000	1000	1300	1800	2100	2300	2630	952	1900	3300 J	3600	2400 J	
Fluoride	mg/L	0.21 J	0.19 J	0.24	0.22	0.19	0.23	0.19	0.13	0.18	0.19	1.28	0.5	1.4	1.2	1.2 J	1.1	
Iron	mg/L	0.064 J	0.087 J											0.38 JB	0.1 U	0.1 U	0.1 U	
Lead	mg/L	0.001 U	0.001 U									0.000238	0.000454	0.00043 J	0.001 U	0.001 U	0.00055 J	
Lithium	mg/L	0.029	0.034									0.236	0.035	0.044	0.072	0.066	0.066	
Magnesium	mg/L	46	40	40	41	40	42	81	81	94	110		6.97	3.8 B	4.2	13	5.8	
Manganese	mg/L	0.11	0.061											0.0083 B	0.005	0.022	0.01	
Mercury	mg/L	0.0002 U	0.0002 U									1.3E-05	7E-06	0.0002 U	0.0002 U	0.0002 U	0.0002 U	
Molybdenum	mg/L	0.004 J	0.0038 J									0.0864	0.0728	0.12 J	0.11	0.051	0.093	
Nickel	mg/L	0.002 U	0.002 U											0.0034 B	0.002 U	0.002 U	0.0015 J	
pH, Field	pH units	6.88	6.93	7.03	7	7.13	7.27	6.93	6.82	6.79	6.65	8.4	6.93	7.79	7.82	7.8	8.22	7.75
Potassium	mg/L	4.8	4.6	4.6	4.6	8.4	5.3	6.2	6.3	7.2	6.9		7.01	7.3 JB	13	7.2	9.3	
Radium-226	pCi/L	0.201	0.207									0.656	0.617	0.823	0.651	0.481	0.552 J	
Radium-226/228	pCi/L	0.59	1.02									1.08	1.328	1.51	1.27	1.19	1.21	
Radium-228	pCi/L	0.389	0.816									0.424	0.711	0.689	0.614	0.71	0.663	
Redox Potential, Field	mV											-174.3	73.5					
Selenium	mg/L	0.005 U	0.005 U									0.0021	0.0007	0.0026 J	0.0022 J	0.005 U	0.0032 J	
Silver	mg/L	0.00041 J	0.00044 J											0.00016 J	0.001 U	0.00017 J	7E-05 J	
Sodium	mg/L	150 B	150 B	160	150	190	190	150	110	130	130		219	670 JB	710	1400 B	880 B	
Strontium	mg/L	4.4 B	3.4 J										1.34	0.94 JB	1.3	1.5 B	1.5	
Sulfate	mg/L	440 J	400	400	410	400	360	980	1200	1300	1500	252	326	330	230	190 J	290	
Temperature, Field	deg C			12.6				14	14	14	14	15.2	13				12.3	
Thallium	mg/L	0.001 U	0.001 U									3E-05 J	1E-05 J	0.001 U	0.001 U	0.001 U	0.001 U	
Turbidity, Field	NTU	1.4	6.4	1	1.68		4	1	4	6.5	5.1	9.1	4.9	6.4	2.8	2.8	6.4	3
Vanadium	mg/L																	
Zinc	mg/L	0.02 U	0.02 U											0.02 U	0.02 U	0.02 U	0.02 U	

Notes:
FD = Field duplicate sample
N = Normal environmental sample
deg C = Degree Celcius
mg/L = Milligrams per liter
mV = Millivolts
NTU = Nephelometric Turbidity Unit
uS/cm = Microsiemens per centimeter
pCi/L = Picocuries per liter
B: Compound was found in the blank and sample.
J: Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
U: Indicates the analyte was analyzed for but not detected.
Empty cells = Not analyzed

Appendix B
Analytical Data Summary
Fly Ash Reservoir & Residual Waste Landfill
Gavin Power Plant

Analyte	Program Location Date Sample Type Unit	FEDERAL 2016-04 2018-09-11 N	FEDERAL 2016-04 2019-03-15 N	FEDERAL 2016-04 2019-09-24 N	FEDERAL 2016-04 2020-03-25 N	FEDERAL 2016-04 2020-09-21 N	FEDERAL 2016-04 2021-04-15 N	FEDERAL 2016-04 2021-11-03 N	FEDERAL 2016-05 2016-06-08 N	FEDERAL 2016-05 2016-08-25 N	FEDERAL 2016-05 2016-10-05 N	FEDERAL 2016-05 2016-12-01 N	FEDERAL 2016-05 2017-02-01 N	FEDERAL 2016-05 2017-03-27 N	FEDERAL 2016-05 2017-04-27 N	FEDERAL 2016-05 2017-06-08 N	FEDERAL 2016-05 2017-07-14 N	FEDERAL 2016-06 2016-08-25 N
Alkalinity, Total as CaCO3	mg/L	250	290 B	300	340	280	300	280				229	211					
Aluminum	mg/L													0.3 J	0.05 U	0.5	0.55	
Antimony	mg/L	0.002 U	0.002 U							0.00015	0.0001 J	8E-05	4E-05 J	0.002 U	0.00072 J	0.00067 J	0.002 U	0.00019
Arsenic	mg/L	0.0016 J	0.0015 J							0.00078	0.00074	0.00051	0.00028	0.005 U	0.005 U	0.00088 J	0.00079 J	0.00225
Barium	mg/L	0.091	0.077							0.052	0.0432	0.0382	0.0331	0.049 JB	0.043	0.044 B	0.038	0.0707
Beryllium	mg/L	0.00058 J	0.00085 J							0.000107	6E-05 J	3.4E-05	8E-06 J	0.001 U	0.001 U	0.00067 J	0.001 U	0.000198
Bicarbonate Alkalinity as CaCO3	mg/L	250	290 B	300	340	280	300	280										
Bicarbonate Alkalinity as HCO3	mg/L																	
Boron	mg/L	0.38	0.39	0.39	0.87	0.75	2.3	3.3		0.116	0.088	0.088	0.11	0.1	0.1 JB	0.11	0.1	0.501
Bromide	mg/L		1															
Cadmium	mg/L	0.001 U	0.00021 J							3E-05	2E-05 J	1E-05 J	8E-06 J	0.001 U	0.001 U	0.001 U	0.001 U	1E-05 J
Calcium	mg/L	87	93	96	120	120	520	540		40.2	35.8	45	39.7	66 B	53	40	31	5.87
Carbonate Alkalinity as CaCO3	mg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U										
Chloride	mg/L	240	180	200	380	1000	46	29		16.3	17.2	16.9	11.4	9.2	9.6	14	16	545
Chromium	mg/L	0.002 U	0.002 U							0.0015	0.0012	0.000802	0.000582	0.0017 JB	0.002 U	0.0033	0.0025	0.0092
Cobalt	mg/L	0.001 U	0.00031 J							0.00299	0.00267	0.00158	0.000274	0.00042 J	0.00028 J	0.0011	0.00088 J	0.00208
Conductivity, Field	uS/cm				2822	6404	2948	2831		717	670	694	708					2898
Copper	mg/L													0.00073 JB	0.002 U	0.0039	0.0042 B	
Dissolved Oxygen, Field	mg/L									7.62	8.64	7.9	9.83					0.6
Dissolved Solids, Total	mg/L	1100	1200	920	1500	2400	2600	2700		474	406	430	388	500	460 J	410	400 J	1560
Fluoride	mg/L	0.36	0.29	0.32	0.45	0.73	0.15	0.15		0.19	0.19	0.19	0.18	0.2	0.21	0.22	0.22	5.28
Iron	mg/L													0.45 JB	0.1 U	0.93	0.78	
Lead	mg/L	0.001 U	0.001 U							0.00194	0.00137	0.000848	0.000206	0.00036 J	0.001 U	0.0012	0.00077 J	0.00371
Lithium	mg/L	0.053	0.05							0.019	0.016	0.011	0.012	0.011	0.013	0.012	0.014	0.029
Magnesium	mg/L			38	39	36	110	100				18.1	19.6	22 B	20	19	16	
Manganese	mg/L													0.0099 B	0.005 U	0.022	0.02	
Mercury	mg/L	0.0002 U	0.0002 U							8E-06	1E-05	1.7E-05	5E-06 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	5E-06 J
Molybdenum	mg/L	0.015	0.01							0.00109	0.00115	0.00231	0.00071	0.00064 J	0.01 U	0.0012 J	0.01 U	0.0595
Nickel	mg/L													0.0013 JB	0.002 U	0.0026	0.0027	
pH, Field	pH units	7.62	7.62	7.71	7.76	8.56	6.73	6.61	7.88	7.89	7.93	7.79	7.8	7.48	7.82		8.01	8.51
Potassium	mg/L			8.6	7.4	16	9.3	8.2					2.72	2.35	2.4 JB	2.3	2.5	2.3
Radium-226	pCi/L	0.247	0.307							0.5	0.369	0.299	0.4	0.176	0.14	0.0681 U	0.13	0.325
Radium-226/228	pCi/L	0.512	0.482							1.027	0.703	1.429	0.40713	0.365 U	0.0784 U	0.0846 U	0.575	0.756
Radium-228	pCi/L	0.265 U	0.175 U							0.527	0.334	1.13	0.00713	0.189 U	-0.0618 U	0.0165 U	0.445	0.431
Redox Potential, Field	mV									162.5	206.5	119.4	162.7					72.2
Selenium	mg/L	0.005 U	0.005 U							0.0005	0.0005	0.0002	0.0001	0.005 U	0.005 U	0.005 U	0.005 U	0.0003
Silver	mg/L													0.001 U	0.001 U	0.001 U	0.0013	
Sodium	mg/L			260	380	980	100	77				84.5	69.3	71 JB	74 B	82	74 B	
Strontium	mg/L											0.879	0.89	1.1 JB	1.1	0.87 B	0.81	
Sulfate	mg/L	420	410	390	520	750	1800	1800		138	120	116	132	150	160	140	130	103
Temperature, Field	deg C				13	14	12	14		18.2	16.8	13	11.8					19.1
Thallium	mg/L	0.001 U	0.001 U							2E-05 J	0.0002 U	2E-05 J	3E-05 J	0.001 U	0.001 U	0.001 U	0.001 U	3E-05 J
Turbidity, Field	NTU	1.28		4	60.9		253	143	8.5	280.1	160.9	56.6	9.6	5.4	13.6		7.7	99.6
Vanadium	mg/L																	
Zinc	mg/L													0.02 U	0.02 U	0.02 U	0.02 U	

Notes:
FD = Field duplicate sample
N = Normal environmental sample
deg C = Degree Celcius
mg/L = Milligrams per liter
mV = Millivolts
NTU = Nephelometric Turbidity Unit
uS/cm = Microsiemens per centimeter
pCi/L = Picocuries per liter
B: Compound was found in the blank and sample.
J: Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
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Appendix B
Analytical Data Summary
Fly Ash Reservoir & Residual Waste Landfill
Gavin Power Plant

Analyte	Program Location Date Sample Type Unit	FEDERAL 2016-06 2016-10-03 N	FEDERAL 2016-06 2016-12-01 N	FEDERAL 2016-06 2017-02-01 N	FEDERAL 2016-06 2017-03-27 N	FEDERAL 2016-06 2017-04-27 N	FEDERAL 2016-06 2017-06-08 N	FEDERAL 2016-06 2017-07-14 N	FEDERAL 2016-06 2018-03-22 N	FEDERAL 2016-06 2018-09-25 FD	FEDERAL 2016-06 2018-09-25 N	FEDERAL 2016-06 2019-03-26 N	FEDERAL 2016-06 2019-09-22 N	FEDERAL 2016-06 2020-03-15 FD	FEDERAL 2016-06 2020-03-15 N	FEDERAL 2016-06 2020-09-17 N	FEDERAL 2016-06 2021-03-17 N	FEDERAL 2016-06 2021-09-24 N
Alkalinity, Total as CaCO3	mg/L		490	554						490	490	510	500	510	510	480	490	510
Aluminum	mg/L				3.7 J	0.17	3.6	1.7										
Antimony	mg/L	0.00025	0.00023	0.00026	0.00047 JB	0.00078 J	0.002 U	0.002 U										
Arsenic	mg/L	0.0023	0.00195	0.00214	0.0034 J	0.0017 J	0.0026 J	0.0024 J										
Barium	mg/L	0.0649	0.0525	0.0515	0.068 JB	0.05	0.064 B	0.059										
Beryllium	mg/L	0.000143	3.4E-05	6.8E-05	0.001 U	0.001 U	0.00035 J	0.001 U										
Bicarbonate Alkalinity as CaCO3	mg/L									460	470	460	470	470	470	460	470	470
Bicarbonate Alkalinity as HCO3	mg/L																	
Boron	mg/L	0.424	0.418	0.463	0.5	0.52 B	0.52	0.5		0.48	0.49	0.5	0.45	0.46	0.48	0.46	0.5	0.46
Bromide	mg/L		2.18	1.85	2.4 J	2.1 J	2.3 J	2.1 J										
Cadmium	mg/L	2E-05 J	3E-05	4E-05	0.00061 J	0.001 U	0.001 U	0.001 U										
Calcium	mg/L	5.51	4.6	4.45	5 B	3.5	4.1	4		4.4	4.8	4.9	4.4	4.1	4.2	5.1	5	4.8
Carbonate Alkalinity as CaCO3	mg/L									26	23	41	35	36	36	24	26	47
Chloride	mg/L	560	515	548	550	550	570	540		600	620	580	540	650	660	630	620	630
Chromium	mg/L	0.077	0.0205	0.0625	0.068 JB	0.022	0.058 J	0.062										
Cobalt	mg/L	0.00283	0.00156	0.00106	0.0019	0.00068 J	0.0038	0.0018										
Conductivity, Field	uS/cm	2931	3126	2933					2792					2888	2888	2979	2946	2972
Copper	mg/L				0.005 JB	0.002 U	0.0071	0.007 B										
Dissolved Oxygen, Field	mg/L	0.58	1.02	1.4					0.38									
Dissolved Solids, Total	mg/L	1560	1570	1540	1600	1600 J	1700	1600 J		1400	1400	1600	1500	1600	1600	1400	1700	1400
Fluoride	mg/L	5.09	4.89	5.2	6	5.9	6.3	6.1		5.8	5.7	5.6	5.8	5.5	5.5	5.5	5.1	5.4
Iron	mg/L				3.4 JB	0.24	3.3	1.7										
Lead	mg/L	0.00151	0.00039	0.000607	0.0016 J	0.001 U	0.0013	0.00083 J										
Lithium	mg/L	0.024	0.027	0.034	0.034	0.032	0.031	0.032										
Magnesium	mg/L		1.28	1.4	1.7 B	1	1.8	1.3		1.4	1.4	1.6	1.4	1.3	1.4	1.5	1.4	1.3
Manganese	mg/L				0.022 B	0.0068	0.019	0.018										
Mercury	mg/L	1.1E-05	1.6E-05	3E-06 J	0.0002 U	0.0002 U	0.0002 U	0.0002 U									0.0002 U	
Molybdenum	mg/L	0.0952	0.0674	0.0804	0.091 J	0.076	0.074	0.073										
Nickel	mg/L				0.031 B	0.029	0.13	0.05										
pH, Field	pH units	8.36	8.36	8.45	8.44	8.49	8.39	8.28	8.43		8.24	8.52	8.59	8.47	8.47	8.52	8.3	8.28
Potassium	mg/L		3.45	10.5	7.2 JB	6	5.6	4.8		3	3.4	4.8	3.8	2.7	2.9	2.9	2.1	3.7
Radium-226	pCi/L	0.818	0.392	0.252	0.163	0.163	0.195	0.152										
Radium-226/228	pCi/L	2.268	1.052	0.604	0.381	0.395	0.362 U	0.651										
Radium-228	pCi/L	1.45	0.66	0.352	0.217 U	0.232 U	0.167 U	0.498										
Redox Potential, Field	mV	60.6	79.4	107.6														
Selenium	mg/L	0.0002	0.0003	0.0003	0.005 U	0.005 U	0.005 U	0.001 J										
Silver	mg/L				0.0012	0.001 U	9.1E-05 J	0.00017 J										
Sodium	mg/L		637	499	610 JB	620	590	600 B		600	610	600	590	600	610	610	620	630
Strontium	mg/L		0.274	0.269	0.3 JB	0.29	0.24 B	0.27										
Sulfate	mg/L	96.5	95.1	94.8	110	110	120	110		100	100	110	110	100	100	99	96	99
Temperature, Field	deg C	16	12.9	12					13.3					13	13	14	14	14
Thallium	mg/L	2E-05 J	2E-05 J	2E-05 J	0.001 U	0.001 U	0.001 U	0.001 U										
Turbidity, Field	NTU	45.2	52.9	48.5	43.5	68.6	59.1	30.7	49		43.9		71	37.6	37.6	24.1	26.1	15.2
Vanadium	mg/L																	
Zinc	mg/L				0.0097 J	0.02 U	0.02 U	0.02 U										

Notes:
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mg/L = Milligrams per liter
mV = Millivolts
NTU = Nephelometric Turbidity Unit
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B: Compound was found in the blank and sample.
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Appendix B
Analytical Data Summary
Fly Ash Reservoir & Residual Waste Landfill
Gavin Power Plant

Analyte	Program Location Date Sample Type Unit	FEDERAL 2016-07 2016-08-24 N	FEDERAL 2016-07 2016-10-05 N	FEDERAL 2016-07 2016-11-30 N	FEDERAL 2016-07 2017-01-31 N	FEDERAL 2016-07 2017-03-22 N	FEDERAL 2016-07 2017-04-27 N	FEDERAL 2016-07 2017-08-10 N	FEDERAL 2016-07 2018-04-05 N	FEDERAL 2016-07 2018-10-23 N	FEDERAL 2016-07 2019-03-26 N	FEDERAL 2016-07 2019-09-22 N	FEDERAL 2016-07 2020-03-15 N	FEDERAL 2016-07 2020-03-24 N	FEDERAL 2016-07 2020-09-17 N	FEDERAL 2016-07 2021-03-23 N	FEDERAL 2016-07 2021-09-24 N	FEDERAL 2016-08 2016-08-24 N
Alkalinity, Total as CaCO3	mg/L			514	483				360	300	430	320	360	320	350	350	310	
Aluminum	mg/L					57 J	9.8	40										
Antimony	mg/L	0.00126	0.00091	0.00079	0.00045	0.0015 J	0.0024	0.0017 JB										0.00134
Arsenic	mg/L	0.00772	0.00705	0.00666	0.0042	0.016	0.0034 J	0.016										0.00795
Barium	mg/L	0.107	0.141	0.115	0.188	0.83 JB	0.7	1.3										0.312
Beryllium	mg/L	0.000368	0.00027	0.000183	0.000428	0.0026	0.00091 J	0.0028										4E-05 U
Bicarbonate Alkalinity as CaCO3	mg/L								190	120	72	59	45	5 U	160	31	290	
Bicarbonate Alkalinity as HCO3	mg/L																	
Boron	mg/L	0.313	0.297	0.348	0.365	0.4	0.42 B	0.44	0.45	0.42	0.38	0.39	0.41	0.28	0.41	0.32	0.42	0.318
Bromide	mg/L			5.48	0.308	4.5 J	8 J	5.5										
Cadmium	mg/L	7E-05	8E-05 J	0.0001	8E-05	0.001 U	0.001 U	0.00059 J										2E-05 J
Calcium	mg/L	13.3	11.5	8.2	9.9	15 B	25	41	12	12	6.3	7.8	6	34	9.7	8.2	15	33.8
Carbonate Alkalinity as CaCO3	mg/L								170	180	350	260	310	110	190	310	24	
Chloride	mg/L	421	609	643	23.6	1000	1900	1200	1200	1100	810	1000	1100	970	1100	840	1200	452
Chromium	mg/L	0.0015	0.0022	0.00163	0.00322	0.063 J	0.011	0.059										0.0012
Cobalt	mg/L	0.00105	0.000905	0.000573	0.00167	0.016	0.0028	0.015										0.000353
Conductivity, Field	uS/cm	2883	3250	2246	3388				4913				3442	4166	4034	3449	4555	8521
Copper	mg/L					0.044 JB	0.0079	0.04 B										
Dissolved Oxygen, Field	mg/L	3.47	3.81	3.75	1.94				2.48									10.52
Dissolved Solids, Total	mg/L	1740	1850	1900	1000	2300	3900 J	2500 J	2300	1800	2100	1900	1800 J	1900	1800	2000	2000	2480
Fluoride	mg/L	1.89	2.04	1.94	0.18	2.3	1.6	2.6	2.8	2.9	2.6	3.3	3.1	2.5	3.1	2.2	3.1	1.92
Iron	mg/L					49 JB	8.5	47										
Lead	mg/L	0.00336	0.00292	0.00215	0.00336	0.031 J	0.0054	0.036 B										0.000143
Lithium	mg/L	0.235	0.193	0.202	0.163	0.16	0.062	0.19										0.665
Magnesium	mg/L			1.36	2.83	11 B	8.3	12	3.9	3.4	2.6	2.3	2.3	0.88 J	3.1	1.4	4.1	
Manganese	mg/L					0.24 B	0.075	0.31										
Mercury	mg/L	1.2E-05	1.7E-05	8E-06	5E-05 J	0.0002 U	0.0002 U	0.0002 U										2.4E-05
Molybdenum	mg/L	0.0808	0.0841	0.0953	0.0689	0.092 J	0.056	0.11 B										0.121
Nickel	mg/L					0.043	0.0086	0.051										
pH, Field	pH units	10.86	10.56	10.61	10.01	9.94	9.44	9.1	9.49	9.75	10.41	10.4	9.85	11.98	9.65	10.59	8.44	12.52
Potassium	mg/L			33.9	24.1	23 JB	6.5	19	6.6	6.8	8.4	4.4	4.3	7.4	4.3	9.8	3.3	
Radium-226	pCi/L	0.427	0.977	1.13	1.18	2.63	6.4	3.74 J										0.768
Radium-226/228	pCi/L	0.427	3.077	2.17	2.84	4.35	12.7	8.09 J										1.898
Radium-228	pCi/L		2.1	1.04	1.66	1.72 G	6.29 G	4.34 G										1.13
Redox Potential, Field	mV	6.4	63	20.4	22													-71.6
Selenium	mg/L	0.0008	0.001	0.0007	0.0008	0.004 J	0.0015 J	0.0052										0.0028
Silver	mg/L					0.00078 J	0.00019 J	0.0037										
Sodium	mg/L			562	635	930 JB	1300	1000	920	850	840	760	730	640	790	670	860	
Strontium	mg/L			0.624	0.815	1.3 JB	2.3	2.8 B										
Sulfate	mg/L	229	235	178	371	120	99	77	60	49	46	36	36	30	27	26	25	133
Temperature, Field	deg C	15.6	15.3	14.1	12.8				13.8				13	14	15	14	15	16
Thallium	mg/L	8.4E-05	9E-05 J	4E-05 J	6.1E-05	0.00052 J	0.001 U	0.00066 J										9E-05 J
Turbidity, Field	NTU	213	98.2	88.1	455.1	850	13721	1037	174	81.4		32	9.8	14.1	7.1	12.6	7	871
Vanadium	mg/L					0.066												
Zinc	mg/L					0.12	0.02	0.12										

Notes:
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deg C = Degree Celcius
mg/L = Milligrams per liter
mV = Millivolts
NTU = Nephelometric Turbidity Unit
uS/cm = Microsiemens per centimeter
pCi/L = Picocuries per liter
B: Compound was found in the blank and sample.
J: Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
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Empty cells = Not analyzed

Appendix B
Analytical Data Summary
Fly Ash Reservoir & Residual Waste Landfill
Gavin Power Plant

Analyte	Program Location Date Sample Type Unit	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	
		2016-08 2016-10-05 N	2016-08 2016-11-30 N	2016-08 2017-01-31 N	2016-08 2017-03-22 N	2016-08 2017-04-27 N	2016-08 2017-06-07 N	2016-08 2018-09-25 N	2016-08 2019-03-26 N	2016-08 2019-09-22 N	2016-08 2020-03-15 N	2016-08 2020-03-24 N	2016-08 2020-09-17 N	2016-08 2021-03-23 N	2016-08 2021-09-24 N	2016-09 2016-08-23 N	2016-09 2016-10-03 N	2016-09 2016-11-29 N
Alkalinity, Total as CaCO3	mg/L		1580	1400			1700	2000	1800	1100	1900	620	1900	1000			1250	
Aluminum	mg/L				4.7 J	0.39		8.1										
Antimony	mg/L	0.00083	0.00095	0.00078	0.0012 J	0.0051	0.0013 J								0.00076	0.00087	0.00082	
Arsenic	mg/L	0.00691	0.00652	0.00489	0.0054	0.0075	0.014								0.0117	0.0145	0.0149	
Barium	mg/L	0.279	0.416	0.446	0.97 JB	0.7	0.76								0.684	0.566	0.49	
Beryllium	mg/L	0.000182	0.000123	5.9E-05 J	0.001 U	0.001 U	0.005 U								8.5E-05	3E-05 J	2E-05 J	
Bicarbonate Alkalinity as CaCO3	mg/L							5 U	5 U	5 U	5 U	5 U	5 U	5 U				
Bicarbonate Alkalinity as HCO3	mg/L																	
Boron	mg/L	0.286	0.294	0.279	0.22	0.28 B	0.32	0.1	0.056 J	0.071 J	0.24	0.029 J	0.16	0.1 U	0.17	0.093	0.411	0.126
Bromide	mg/L		5.56	2.93	3.1 J	25 U	5 J											6.45
Cadmium	mg/L	3E-05 J	5E-05	1E-05 J	0.001 U	0.001 U	0.001 U								6E-05 U	6E-05 U	4E-05 J	
Calcium	mg/L	48.9	57	80.6	190 B	140	140	340	450	390	190	510	190	620	240	78.6	202	49.7
Carbonate Alkalinity as CaCO3	mg/L							140	70	100	63	48	100	35	45			
Chloride	mg/L	645	650	879	700	890	1200 J	920	510	610	1500	270	1400	180	860	1500	1520	1490
Chromium	mg/L	0.0033	0.00434	0.00374	0.011 J	0.0027	0.015 J								0.0455	0.0371	0.0299	
Cobalt	mg/L	0.00278	0.00172	0.00095	0.0024	0.00039 J	0.0037								0.00056	0.000324	0.000245	
Conductivity, Field	uS/cm	8800	5904	7708							8027	8693	7699	8172	7178	14047	13957	15285
Copper	mg/L				0.026 JB	0.019	0.043 B											
Dissolved Oxygen, Field	mg/L	5.81	6.2	4.23											5.1	2.86	2.39	
Dissolved Solids, Total	mg/L	2660	2730	2750	2700	2900 J	3000	2400	2900	2700	2300 J	1700	2300	2400	1700	4820	4480	4180
Fluoride	mg/L	1.85	1.56	2.03	2	1.8 J	2.3 J	1.4	0.99	1.1	1.6	0.69	1.4	0.53	0.96	1.67	1.58	1.02
Iron	mg/L				4.5 JB	0.1 U	8.6											
Lead	mg/L	0.00216	0.00207	0.000987	0.0044 J	0.001 U	0.006								0.00215	0.000743	0.000281	
Lithium	mg/L	0.6	0.702	0.652	0.85	0.75	0.64								0.561	0.082	0.392	
Magnesium	mg/L		0.41	0.162	0.75 JB	1 U	1.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		0.058	
Manganese	mg/L				0.031 B	0.005 U	0.051											
Mercury	mg/L	7E-06	3.7E-05	9E-06	0.0002 U	0.0002 U	0.0002 U								1.2E-05	4E-06 J	6E-06	
Molybdenum	mg/L	0.0735	0.0982	0.102	0.094 J	0.12	0.14								0.18	0.155	0.149	
Nickel	mg/L				0.01	0.004	0.013											
pH, Field	pH units	12.41	12.59	12.45	12.65	12.35	12.42	12.45	12.67	12.43	11.89	12.67	12	12.43	11.59	12.49	12.6	12.64
Potassium	mg/L		92.4	99.3	110 JB	77	59	44	48	44	23	36	17	31	15			55
Radium-226	pCi/L	1.06	0.975	1.43	4.8	4.25	2.11									1.06	0.889	1.34
Radium-226/228	pCi/L	2.97	2.005	2.62	6.4	5.53	2.43									1.924	2.559	1.729
Radium-228	pCi/L	1.91	1.03	1.19	1.6	1.27	0.319 U									0.864	1.67	0.389
Redox Potential, Field	mV	-38.5	-81.2	-89.5												-68.6	-135.4	-113.7
Selenium	mg/L	0.0022	0.0019	0.0012	0.002 J	0.0022 J	0.0043 J								0.0042	0.0038	0.0037	
Silver	mg/L				0.001 U	0.001 UJ	0.00026 J											
Sodium	mg/L		704	747	920 JB	1100	1200 B	830	680	740	1100	310	1100	240	990			591
Strontium	mg/L		3.59	4.23	7.2 JB	6.7	5.7 B											2.74
Sulfate	mg/L	126	120	90.4	71	70	89 J	27	14	16	28	12	23	6.4	15	77.1	72.2	73
Temperature, Field	deg C	16.2	13.8	13.1							12	14	15	14	14	15.9	15	13.5
Thallium	mg/L	7E-05 J	5E-05 J	3E-05 J	0.001 U	0.001 U	0.001 U									7E-05 J	4E-05 J	0.0002 U
Turbidity, Field	NTU	253.7	121.7	110.9	108.8	627.3	380.4	17.6		94	6.2	4.2	4.1	0.7	0.5	8.7	8.6	6.8
Vanadium	mg/L				0.017													
Zinc	mg/L				0.1 U	0.02 U	0.03											

Notes:
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NTU = Nephelometric Turbidity Unit
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Appendix B
Analytical Data Summary
Fly Ash Reservoir & Residual Waste Landfill
Gavin Power Plant

Analyte	Program Location Date Sample Type Unit	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	
		2016-09 2017-01-30 N	2016-09 2017-03-21 N	2016-09 2017-04-25 N	2016-09 2017-06-06 N	2016-09 2017-07-12 N	2016-09 2018-03-22 N	2016-09 2018-09-13 N	2016-09 2019-09-24 N	2016-09 2020-03-12 N	2016-09 2020-09-14 N	2016-09 2021-03-19 N	2016-09 2021-09-20 FD	2016-09 2021-09-20 N	2016-10 2016-08-23 N	2016-10 2016-10-03 N	2016-10 2016-11-29 N	2016-10 2017-01-30 N
Alkalinity, Total as CaCO3	mg/L	1830	1400				820	1100	1400	1400	1500	1500	1500			217	199	
Aluminum	mg/L			1.3	3.3	1.9 B												
Antimony	mg/L	0.00078	0.0014 J	0.0012 J	0.02 U	0.001 JB								0.00027	9E-05 J	0.0002 J	0.00023	
Arsenic	mg/L	0.0144	0.026 J	0.016	0.016 J	0.016								0.00323	0.00281	0.00304	0.00443	
Barium	mg/L	0.433	0.42 JB	0.52	0.53	0.52								0.235	0.183	0.162	0.339	
Beryllium	mg/L	2E-05 U	0.001 U	0.001 U	0.001 UJ	0.001 U								8E-05 U	0.0001 U	0.0002 U	1E-05 J	
Bicarbonate Alkalinity as CaCO3	mg/L						5 U	5 U	5 U	5 U	5 U	5 U	5 U					
Bicarbonate Alkalinity as HCO3	mg/L																	
Boron	mg/L	0.131	0.19	0.16 J	0.18 B	0.16 B		0.24	0.21	0.13	0.14	0.13	0.12	0.449	0.386	0.438	0.421	
Bromide	mg/L	5.69	5.8 J	50 U	7.5	5.8 J										30.4	35.8	
Cadmium	mg/L	1E-05 J	0.001 U	0.001 U	0.01 U	0.001 U								4E-05 J	0.0001 U	4E-05 J	0.00026	
Calcium	mg/L	42.3	30 B	35	47	55	16	18	230	79	60	56	52	179	209	254	344	
Carbonate Alkalinity as CaCO3	mg/L						180	120	120	180	150	75	77					
Chloride	mg/L	1520	1600	2000	1700	1600	1800	1200	630	760	750	860	870	3600	5000	6040	7380	
Chromium	mg/L	0.0256	0.027 J	0.025	0.029 J	0.025								0.0007	0.0003	0.00461	0.00983	
Cobalt	mg/L	0.000208	0.00092 J	0.00032 J	0.01 U	0.00071 J								0.000699	0.000869	0.00198	0.00275	
Conductivity, Field	uS/cm	12613					9465		8091	8864	8971	8996	8996	8802	16158	15133	19419	
Copper	mg/L			0.013	0.022 B	0.017												
Dissolved Oxygen, Field	mg/L	2.91					0.32							3.72	2.77	6.96	4.79	
Dissolved Solids, Total	mg/L	3900	4100	4300 J	4300	3900 J		2100	2300	2200	2700	2700	2200	6820	9040	11000	12600	
Fluoride	mg/L	1.39	1.9 J	2.1 J	1.8	1.5 J	2	1.9	1.1	0.92	0.97	1	1.1	0.66	0.5	0.5 J	0.7 J	
Iron	mg/L			0.1 U	1.2	0.55												
Lead	mg/L	0.000118	0.0021 J	0.001 U	0.001	0.00068 J								0.00143	0.000325	0.000492	0.00257	
Lithium	mg/L	0.324	0.23	0.3	0.27	0.25								0.138	0.142	0.189	0.246	
Magnesium	mg/L	0.006 J		1 U	10 U	0.22 J	1 U	1.2	0.75 J	0.33 J	1 U	1 U	1 U			67.4	91.1	
Manganese	mg/L		0.016 B	0.005 U	0.05 U	0.0041 J												
Mercury	mg/L	5E-06 J	0.0002 U	0.0002 U	0.0002 U	0.0002 U								4E-06 J	5E-06 U	2E-06 J	3E-06 J	
Molybdenum	mg/L	0.137	0.19 J	0.17	0.17	0.16								0.0367	0.0128	0.0278	0.0258	
Nickel	mg/L			0.0015 J	0.02 U	0.0031												
pH, Field	pH units	12.66	12.55	12.44	12.46	12.49	12.59	12.07	12.45	12.61	12.6	12.38	12.33	12.33	9.79	7.48	8.29	7.68
Potassium	mg/L	48.8	28 JB	31	29	24	15	13	21	12	9.4	9.6	8.8			30.8	42.9	
Radium-226	pCi/L	1.65	1.95	1.33	1.93	1.83 J								1.31	1.47	1.32	0.874	
Radium-226/228	pCi/L	2.472	2.69	2.29	3.76	2.61 J								2.85	2.5	3.15	2.304	
Radium-228	pCi/L	0.822	0.744 U	0.966	1.83	0.772 J								1.54	1.03	1.83	1.43	
Redox Potential, Field	mV	-112.6												70.1	104.1	122.9	103.2	
Selenium	mg/L	0.0029	0.0051 J	0.0029 J	0.05 U	0.0034 JB								0.001	0.0002 J	0.0005 J	0.0003	
Silver	mg/L			0.001 U	0.00031 J	0.00074 J												
Sodium	mg/L	997	1700 JB	1600	1700 B	1500	1600	1200	870	930	980	1100	1000			1510	1370	
Strontium	mg/L	2.34	1.8 JB	2.6	1.4 B	2.2										12.1	16.2	
Sulfate	mg/L	61.7	64	88 J	65	85	74	56	71	53	44	42	43	874	857	897	834	
Temperature, Field	deg C	9.3					12.8			13	14	13	14	16.8	15.9	15	11.3	
Thallium	mg/L	4E-05 J	0.001 U	0.001 U	0.001 U	0.001 U								7E-05 J	0.0002 U	5E-05 U	8E-05 J	
Turbidity, Field	NTU	2.1	22.3	56.3	35.1	61.3	9	20.8	103	90.4	37.7	21.6	2.3	2.3	30.6	8.7	2.4	21.9
Vanadium	mg/L																	
Zinc	mg/L			0.02 U	0.2 U	0.02 U												

Notes:
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mg/L = Milligrams per liter
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NTU = Nephelometric Turbidity Unit
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Fly Ash Reservoir & Residual Waste Landfill
Gavin Power Plant

Analyte	Program Location Date Sample Type Unit	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL		
		2016-10 2017-03-21 N	2016-10 2017-04-25 N	2016-10 2017-06-06 N	2016-10 2017-07-12 N	2016-10 2018-04-06 N	2016-10 2018-10-01 N	2016-10 2019-03-27 N	2016-10 2019-09-24 N	2016-10 2020-03-30 N	2016-10 2020-09-14 FD	2016-10 2020-09-14 N	2016-10 2021-03-17 N	2016-10 2021-09-20 N	2016-11 2016-08-23 N	2016-11 2016-08-26 N	2016-11 2017-01-30 N	2016-11 2017-03-21 N	
Alkalinity, Total as CaCO3	mg/L	170				180 B	140	150	130	150	120	120	120	110			326	290	
Aluminum	mg/L		0.05 U	0.5 U	0.035 JB														
Antimony	mg/L	0.002 U	0.002 U	0.02 U	0.002 U												0.00533	0.00068	0.002 U
Arsenic	mg/L	0.0037 J	0.0025 J	0.05 U	0.0039 J												0.0038	0.00586	0.0049 J
Barium	mg/L	0.17 JB	0.17	0.25	0.24												0.154	0.681	0.33 JB
Beryllium	mg/L	0.001 U	0.001 U	0.001 UJ	0.001 U												4E-05 U	9.2E-05	0.001 U
Bicarbonate Alkalinity as CaCO3	mg/L					180 B	140	150	130	150	120	120	120	110					
Bicarbonate Alkalinity as HCO3	mg/L																		
Boron	mg/L	0.56	0.49	0.57 B	0.54 B	0.55	0.52	0.51	0.47	0.48	0.5	0.48	0.47	0.43	0.278		0.3	0.36	
Bromide	mg/L	35	53	50	49												10.5	10	
Cadmium	mg/L	0.001 U	0.001 U	0.01 U	0.001 U												0.0002	0.00027	0.00035 J
Calcium	mg/L	380 B	390	440	500	610	650	550	710	730	680	700	680	650	10.3		25	28 B	
Carbonate Alkalinity as CaCO3	mg/L					50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U					
Chloride	mg/L	7800	12000	11000	12000	14000	16000	13000	15000	18000	16000	15000	15000	15000		403	2170	2400	
Chromium	mg/L	0.00071 J	0.002 U	0.02 U	0.0011 J												0.0349	0.00944	0.037 J
Cobalt	mg/L	0.0015	0.0013	0.0069 J	0.0046												0.000731	0.00238	0.00076 J
Conductivity, Field	uS/cm					35660				36786	37634	37634	38220	38449	7110		7954		
Copper	mg/L		0.002 U	0.02 U	0.002 U														
Dissolved Oxygen, Field	mg/L					1.53									7.22		3.52		
Dissolved Solids, Total	mg/L	9600	17000 J	17000	15000 J	20000	23000	16000	24000	37000	26000	26000	23000	22000		3060	4400	5200	
Fluoride	mg/L	2.5 U	5 U	1.3 U	2.5 U	5 U	2.5 U	2.9	2.5 U	2.5 U	0.31 J	0.33 J	1 U	2.5 U		2.21	2.01	2.4	
Iron	mg/L		0.13	2.9	2.8														
Lead	mg/L	0.00056 J	0.001 U	0.001 U	0.001 U												0.00261	0.00424	0.0054 J
Lithium	mg/L	0.21	0.23	0.29	0.29												0.593	0.086	0.08
Magnesium	mg/L		110	160	160	200	210	190	330	220	230	220	220	220			9.05		0.031 B
Manganese	mg/L	0.68 B	0.52	1.8	1.4														
Mercury	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U								0.0002 U		8E-06		8E-06	0.0002 U	
Molybdenum	mg/L	0.011 J	0.015	0.011 J	0.016										0.223		0.248	0.14 J	
Nickel	mg/L		0.0053	0.02 U	0.024														
pH, Field	pH units	7.31	7.21	7.51	7.86	7.1	7.11	7.25	7.27	7.35	7.46	7.46	7.16	7.46	12.23		8.5	8.95	
Potassium	mg/L	26 JB	28	29	29	28	29	31 F1	42	31	32	29	37	60			32.5	21 JB	
Radium-226	pCi/L	0.869	1.05	1.47	1.61 J												1.44	1.07	0.934
Radium-226/228	pCi/L	1.71	2.19	3.93	4.91 J												2.62	2.041	1.81
Radium-228	pCi/L	0.839	1.14	2.45	3.29												1.18	0.971	0.872
Redox Potential, Field	mV																-93.7	40.3	
Selenium	mg/L	0.0015 J	0.005 U	0.05 U	0.0014 JB												0.0054	0.0007	0.003 J
Silver	mg/L		0.001 U	0.0008 J	0.00062 J														
Sodium	mg/L	4700 JB	4400	5900 B	6000	7300	7100 B	6900	7600	7400	7900	8100	7500	8000				911	1800 JB
Strontium	mg/L	20 JB	21	27 B	26													1.72	2.1 JB
Sulfate	mg/L	790	1100	640	670	540	560	550	350	400	320	350	310	300		529	497	560	
Temperature, Field	deg C					13.5				14	15	15	14	15	16.2		12.1		
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U												0.000266	0.000105	0.001 U
Turbidity, Field	NTU	4.1	77.3	10.1	10.3	4	2.62		7	14	1.3	1.4	1.2	1.8	7.1		67.4	22.4	
Vanadium	mg/L																		
Zinc	mg/L		0.02 U	0.2 U	0.02 U														

Notes:
FD = Field duplicate sample
N = Normal environmental sample
deg C = Degree Celcius
mg/L = Milligrams per liter
mV = Millivolts
NTU = Nephelometric Turbidity Unit
uS/cm = Microsiemens per centimeter
pCi/L = Picocuries per liter
B: Compound was found in the blank and sample.
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Appendix B
Analytical Data Summary
Fly Ash Reservoir & Residual Waste Landfill
Gavin Power Plant

Analyte	Program Location Date Sample Type Unit	FEDERAL 2016-11 2017-04-25 N	FEDERAL 2016-11 2021-03-17 N	FEDERAL 2018-01 2019-11-14 N	FEDERAL 2018-01 2020-03-24 N	FEDERAL 2018-01 2020-09-22 N	FEDERAL 2018-01 2021-03-22 N	FEDERAL 2018-01 2021-09-27 N	FEDERAL 2018-02 2019-11-14 N	FEDERAL 2018-02 2020-04-08 N	FEDERAL 2018-02 2020-11-16 N	FEDERAL 2018-02 2021-04-08 N	FEDERAL 2018-02 2021-11-03 N	FEDERAL 2018-03 2019-11-14 N	FEDERAL 2018-03 2020-04-08 N	FEDERAL 2018-03 2020-11-16 N	FEDERAL 2018-03 2021-04-08 N	FEDERAL 2018-03 2021-11-03 N	
Alkalinity, Total as CaCO3	mg/L			800	680	460	380	290		260		270	250				500	530	
Aluminum	mg/L	0.05 U									15						5.8		
Antimony	mg/L	0.00081 J									0.001 J						0.0023		
Arsenic	mg/L	0.0022 J									0.011						0.012		
Barium	mg/L	0.41									1.6						0.48		
Beryllium	mg/L	0.001 U									0.00085 J						0.0004 J		
Bicarbonate Alkalinity as CaCO3	mg/L			5 U	5 U	5 U	5 U	5 U		260		270	250					500	530
Bicarbonate Alkalinity as HCO3	mg/L																		
Boron	mg/L	0.35	0.48	0.9	0.71	0.61	0.56	0.45	0.35	0.32	0.38	0.34	0.37	0.31	0.31	0.32	0.31	0.38	
Bromide	mg/L	11 J									16						5.6		
Cadmium	mg/L	0.001 U									0.001 U						0.00027 J		
Calcium	mg/L	34	120	14 B	13	20	27	37	49 B	54	57	68	56	120 B	34	80	170	140	
Carbonate Alkalinity as CaCO3	mg/L			370	370	340	320	290		5 U		5 U	5 U				5 U	5 U	
Chloride	mg/L	2800	6000	1500	2000	2600	3200	3100	3800	4000	200	4600	4500	5900	1500	52	1200	1800	
Chromium	mg/L	0.002 U									0.22						0.016		
Cobalt	mg/L	0.0013									0.01						0.0033		
Conductivity, Field	uS/cm		16763		7311	8200	8597	8727		11760	10750	11240	12120		6569	4938	5300	6385	
Copper	mg/L	0.003									0.055						0.012		
Dissolved Oxygen, Field	mg/L																		
Dissolved Solids, Total	mg/L	4900 J	9700	3200	4400	4400	5800	4400	4900	5500	6600	7100	6400	7500	3100	2200	3100	3600	
Fluoride	mg/L	2.2 J	0.92	3.3	3.3	3.3	3	2.8	1.8	1.6	0.4 J	1.5	1.5	1.3	1.9	0.87	0.85	1	
Iron	mg/L	0.1 U									58						7.7		
Lead	mg/L	0.001 U									0.0092						0.0033		
Lithium	mg/L	0.074									0.075						0.023		
Magnesium	mg/L	11	41	2.3	0.3 J	0.21 J	1 U	0.47 J	16	18	19	20	18	33	8.7	11	34	30	
Manganese	mg/L	0.039									0.39						0.26		
Mercury	mg/L	0.0002 U	0.0002 U																
Molybdenum	mg/L	0.14									0.16						0.036		
Nickel	mg/L	0.038									0.037						0.017		
pH, Field	pH units	8.35	7.46	12.14	12.09	11.65	11.32	10.78	6.93	7.97	7.96	7.04	7.31	7.29	8.18	8.15	7.45	7.72	
Potassium	mg/L	15	30	3.5	2	2.6	2.8	3.5	8.1	5.6	7.6	6.6	5.2	6.7	3.5	5.1	4.7	5.3	
Radium-226	pCi/L	1																	
Radium-226/228	pCi/L	1.56																	
Radium-228	pCi/L	0.564																	
Redox Potential, Field	mV																		
Selenium	mg/L	0.005 U									0.005 U						0.005 U		
Silver	mg/L	0.0001 J									0.00046 J						0.00033 J		
Sodium	mg/L	1800	3400	1100	1300	1600	1800	1900	2200	2400	2200	2500	2300	2800	1300	870	980	1200	
Strontium	mg/L	2.7									4.9						1.9		
Sulfate	mg/L	750	380	37	39	5 U	35	36	87	65	93	83	61	150	250	230	520	470	
Temperature, Field	deg C		14		14	16	16	16		17	14	19	12	18	15	18	14		
Thallium	mg/L	0.001 U									0.001 U						0.001 U		
Turbidity, Field	NTU	73.2	21.9	42	20.4	16.8	16.9	14.9		305	358	322	101		35.1	159	70.1	65	
Vanadium	mg/L																		
Zinc	mg/L	0.015 J									0.25						0.032		

Notes:
FD = Field duplicate sample
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deg C = Degree Celcius
mg/L = Milligrams per liter
mV = Millivolts
NTU = Nephelometric Turbidity Unit
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pCi/L = Picocuries per liter
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Appendix B
Analytical Data Summary
Fly Ash Reservoir & Residual Waste Landfill
Gavin Power Plant

Program Location Date	FEDERAL 2018-04 2019-11-14	FEDERAL 2018-04 2020-04-08	FEDERAL 2018-04 2020-11-16	FEDERAL 2018-04 2021-04-08	FEDERAL 2019-02 2020-09-15	FEDERAL 2019-02 2021-03-16	FEDERAL 2019-02 2021-03-16	FEDERAL 2019-02 2021-09-25	FEDERAL 2019-06 2020-09-15	FEDERAL 2019-06 2021-03-16	FEDERAL 2019-06 2021-09-25	FEDERAL 2019-07 2021-09-25	FEDERAL 2019-09 2021-09-25	FEDERAL 93100 2016-08-23	FEDERAL 93100 2016-10-05	FEDERAL 93100 2016-12-02	FEDERAL 93100 2017-02-02	
Sample Type	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	
Analyte	Unit																	
Alkalinity, Total as CaCO3	mg/L			340	1800	1700	1700	1600	220	180	310	160	170			393	359	
Aluminum	mg/L		58															
Antimony	mg/L		0.0021											4E-05 J	6E-05 J	5E-05 J	5E-05 J	
Arsenic	mg/L		0.079											0.00164	0.00207	0.00174	0.00156	
Barium	mg/L		0.62											0.602	0.69	0.468	0.521	
Beryllium	mg/L		0.0032											1E-05 J	5.3E-05	1E-05 J	1E-05 J	
Bicarbonate Alkalinity as CaCO3	mg/L			330	5 U	5 U	5 U	5 U	220	180	310	160	170					
Bicarbonate Alkalinity as HCO3	mg/L																	
Boron	mg/L	0.24	0.21	0.19	0.1 U	0.1 U	0.1 U	0.1 U	0.23	0.28	0.25	0.42	0.29	0.432	0.429	0.39	0.415	
Bromide	mg/L		0.3 J													7.81	8.8	
Cadmium	mg/L		0.00034 J											4E-05 U	1E-05 J	4E-05 U	4E-05 U	
Calcium	mg/L	62	74	62	220	250	240	230	27	72	160	740	690	20.3	22.2	14.1	16.8	
Carbonate Alkalinity as CaCO3	mg/L			11	120	52	53	54	5.6	5 U	5 U	5 U	5 U					
Chloride	mg/L	25	26	28	33	190	180	190	180	1900	3800	6500	16000	16000	2180	2310	1770	199
Chromium	mg/L		0.24											0.0022	0.0049	0.00586	0.00582	
Cobalt	mg/L		0.088											0.00062	0.00129	0.00235	0.00195	
Conductivity, Field	uS/cm	1675	1977	2093	8754	8179	8179	7521	7203	11882	18046	36854	39000	6544	7642	5904	7014	
Copper	mg/L		0.11															
Dissolved Oxygen, Field	mg/L													1.22	0.51	0.91	1.18	
Dissolved Solids, Total	mg/L	860	980	1100	1200	1900	1800	1700	1800	2900	7400	9400	2900	5500	3630	3980	3420	3600
Fluoride	mg/L	0.8	0.67	0.5 U	0.74	0.86	0.7	0.73	0.71	1.5	1.3	0.83	2.5 U	2.5 U	2.17	2.05	1.97	2.18
Iron	mg/L		120															
Lead	mg/L		0.06											0.000244	0.00093	0.000135	0.000189	
Lithium	mg/L		0.074											0.048	0.058	0.046	0.04	
Magnesium	mg/L	15	32	17	1 U	1 U	1 U	1 U	7.7	21	52	200	220			4.4	5.37	
Manganese	mg/L		1.7															
Mercury	mg/L													5E-06 U	3E-06 J	5E-06 U	5E-06 U	
Molybdenum	mg/L		0.14											0.087	0.0889	0.125	0.106	
Nickel	mg/L		0.13															
pH, Field	pH units	6.65	7.2	7.68	7.55	12.62	12.47	12.47	12.26	8.46	7.95	7.68	6.93	7.32	7.97	7.85	7.78	7.87
Potassium	mg/L	3.7	12	5.6	33	21	21	16	3.8	7.2	15	21	26			3.87	4.57	
Radium-226	pCi/L													0.637	0.909	0.863	0.544	
Radium-226/228	pCi/L													2.587	1.969	1.538	1.252	
Radium-228	pCi/L													1.95	1.06	0.675	0.708	
Redox Potential, Field	mV													-98.5	788	35.3	-138.6	
Selenium	mg/L		0.0043 J											0.0001 J	0.0002 J	0.0003	0.0002 J	
Silver	mg/L		0.0007 J															
Sodium	mg/L	370	300	300	560	540	530	550	1500	2300	3900	8700	7600			1270	1050	
Strontium	mg/L		0.96													1.18	1.4	
Sulfate	mg/L	490	470	460	510	3.1 J	2.8 J	3 J	2.7 J	750	710	410	530	50 U	11.4	8.4	12.2	9.9
Temperature, Field	deg C	18	16	19	13	12	12	13	14	13	14	14	13	19.02	18.6	14.9	14.1	
Thallium	mg/L		0.0006 J											0.0001 U	3E-05 J	2E-05 J	4E-05 J	
Turbidity, Field	NTU	46	854	617	19.8	0.6	0.6	0.1	13.4	156	146	316	556	7	42.7	7.4	15.3	
Vanadium	mg/L																	
Zinc	mg/L		0.4															

Notes:
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mg/L = Milligrams per liter
mV = Millivolts
NTU = Nephelometric Turbidity Unit
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Appendix B
Analytical Data Summary
Fly Ash Reservoir & Residual Waste Landfill
Gavin Power Plant

Analyte	Program Location Date Sample Type Unit	FEDERAL 93100 2017-03-29 N	FEDERAL 93100 2017-04-28 N	FEDERAL 93100 2017-06-12 N	FEDERAL 93100 2017-07-18 FD	FEDERAL 93100 2017-07-18 N	FEDERAL 93100 2018-03-15 N	FEDERAL 93100 2018-09-24 N	FEDERAL 93100 2019-03-11 FD	FEDERAL 93100 2019-03-11 N	FEDERAL 93100 2019-09-23 N	FEDERAL 93100 2020-03-19 FD	FEDERAL 93100 2020-03-19 N	FEDERAL 93100 2020-09-22 N	FEDERAL 93100 2021-03-25 N	FEDERAL 93100 2021-09-28 N	FEDERAL 93108 2016-08-24 N	FEDERAL 93108 2016-10-06 N
Alkalinity, Total as CaCO3	mg/L						360	320	320	320	330	330	330	320	330	330		
Aluminum	mg/L	1.8 J	0.044 J	3.8 B	1.8	1.7												
Antimony	mg/L	0.0012 J	0.002 U	0.002 U	0.002 U	0.002 U											0.0001	3E-05 J
Arsenic	mg/L	0.002 J	0.0016 J	0.002 J	0.0019 J	0.002 J											0.00196	0.00153
Barium	mg/L	0.64 B	0.65	0.65	0.66	0.66											0.174	0.164
Beryllium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U											4.1E-05	1E-05 J
Bicarbonate Alkalinity as CaCO3	mg/L						360	320				330	330	330	320	320	330	
Bicarbonate Alkalinity as HCO3	mg/L								320	320								
Boron	mg/L	0.45	0.47 B	0.48	0.49 JB	0.5 JB	0.45	0.45	0.48	0.49	0.46	0.47	0.47	0.48	0.44	0.46	0.429	0.404
Bromide	mg/L	8.9 J	8.9 J	10	8.7 J	8.8 J												
Cadmium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U											7E-05	3E-05
Calcium	mg/L	17 B	16	20	17	17	14	18	17	17	18	17	18	19	18	17	6.09	5.87
Carbonate Alkalinity as CaCO3	mg/L						5 U	5 U	5 U	5 U	5 U	4.6 J	5 U	5 U	3 J	5 U		
Chloride	mg/L	2200	2200	2100	2200	2200	1800	2200	2100	2100	2000	2200	2200	2200	2100	2200	745	731
Chromium	mg/L	0.0098	0.002 U	0.04	0.011	0.011											0.0086	0.0062
Cobalt	mg/L	0.0012	0.00027 J	0.0099	0.0033	0.0031											0.00113	0.00039
Conductivity, Field	uS/cm						6107					6772	6772	6702	6959	6635	3490	3589
Copper	mg/L	0.0028 B	0.002 U	0.0051 B	0.002 U	0.002 U												
Dissolved Oxygen, Field	mg/L						0.2										1.67	0.81
Dissolved Solids, Total	mg/L	3900 J	3700 J	3600	3400 J	3600 J	3300	3100	3100	3100	2900	3200	3900	3100	3800	3300	1940	1900
Fluoride	mg/L	2.4	2.2	2.3	2.3	2.3	2.6	2.7	2.2	2.2	2.7	2.6	2.6	2.3	2.5	2.7	4.59	4.46
Iron	mg/L	1.7 JB	0.082 J	1	0.42	0.41												
Lead	mg/L	0.001 J	0.001 U	0.00046 J	0.001 U	0.001 U											0.00206	0.000516
Lithium	mg/L	0.044	0.047	0.043	0.048	0.048											0.027	0.028
Magnesium	mg/L	6.2 B	5.6	6.1	6.2	6.2	4.1	5.4	5.9	6.1	6.3	5.3	5.6	5.8	5.7	5.3		
Manganese	mg/L	0.046	0.032	0.055	0.045	0.044												
Mercury	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U											5E-06	1.5E-05
Molybdenum	mg/L	0.11	0.11	0.11 J	0.097	0.098											0.254	0.267
Nickel	mg/L	0.0065	0.002 U	0.038	0.0096	0.0087												
pH, Field	pH units	7.82	7.86	7.77		7.71	7.93	7.89		8.06	8.04	8.02	8.02	7.94	7.87	7.97	7.59	7.87
Potassium	mg/L	3.1 B	2.6	2.7	2.7	2.7	2.1	2.6	2.6	2.6	2.9	2.5	2.5	2.6	2.5	2.5		
Radium-226	pCi/L	0.538	0.565	0.736	0.691 J	0.758 J											0.74	0.639
Radium-226/228	pCi/L	0.869	1.14	1.19	1.32	1.41											2.68	2.059
Radium-228	pCi/L	0.332 U	0.58	0.458	0.63	0.648											1.94	1.42
Redox Potential, Field	mV																-29.9	-145.3
Selenium	mg/L	0.0007 J	0.005 U	0.005 U	0.005 U	0.005 U											0.0002 J	6E-05 J
Silver	mg/L	0.001 U	0.001 U	0.00036 J	6.9E-05 J	6.3E-05 J												
Sodium	mg/L	1400 JB	1500	1500	1500 JB	1500 JB	1200	1400	1500	1500	1400	1400	1400	1400	1400	1400		
Strontium	mg/L	1.7 B	1.9	1.7 B	1.7	1.7												
Sulfate	mg/L	15 J	13 J	15	14 J	14 J	22	16	17 J	18 J	16	17	17	13	16	16	73.1	66.1
Temperature, Field	deg C						15.2					16	16	17	15	17	18.33	15
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U											0.000125	4E-05 J
Turbidity, Field	NTU	31.1	6.4	2.8		6	4.6	1.18			7	4	4	1.4	2	2.6	28.9	9.7
Vanadium	mg/L				0.005 U	0.005 U												
Zinc	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U												

Notes:
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Analytical Data Summary
Fly Ash Reservoir & Residual Waste Landfill
Gavin Power Plant

Program Location Date	FEDERAL 93108 2016-12-02	FEDERAL 93108 2017-02-02	FEDERAL 93108 2017-03-23	FEDERAL 93108 2017-05-02	FEDERAL 93108 2017-06-12	FEDERAL 93108 2017-07-18	FEDERAL 93108 2018-03-15	FEDERAL 93108 2018-09-14	FEDERAL 93108 2021-09-20	FEDERAL 94136 2016-08-24	FEDERAL 94136 2016-10-06	FEDERAL 94136 2016-12-01	FEDERAL 94136 2017-02-01	FEDERAL 94136 2017-03-23	FEDERAL 94136 2017-04-28	FEDERAL 94136 2017-06-09	FEDERAL 94136 2017-07-17
Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	FD
Analyte	Unit																
Alkalinity, Total as CaCO3	mg/L	720	672					640	640	520			331	323			
Aluminum	mg/L			2.5 J	0.13	0.041 JB	7.1										
Antimony	mg/L	0.00023	0.00016	0.002 U	0.002 U	0.002 U	0.002 U				2E-05 J	3E-05 J	2E-05	1E-05 J	0.0017 J	0.002 U	0.01 U
Arsenic	mg/L	0.0025	0.00166	0.0018 J	0.0013 J	0.0016 J	0.0029 J				0.00037	0.00048	0.00042	0.00039	0.0012 J	0.005 U	0.025 U
Barium	mg/L	0.199	0.157	0.19 B	0.18	0.18	0.22				0.0865	0.0894	0.102	0.0877	0.11 B	0.1	0.099 B
Beryllium	mg/L	0.000162	0.000107	0.001 U	0.001 U	0.001 U	0.00047 J				2E-05 U	1E-05 J	1E-05	5E-06 J	0.001 U	0.001 U	0.001 U
Bicarbonate Alkalinity as CaCO3	mg/L							640	640	520							
Bicarbonate Alkalinity as HCO3	mg/L																
Boron	mg/L	0.391	0.411	0.5	0.48	0.46	0.48 JB	0.45	0.47	0.44	0.405	0.395	0.349	0.362	0.46	0.43 B	0.54
Bromide	mg/L	2.42	2.16	2.4 J	2.7 J	2.8	2.6 J						4.07	3.25	3.7 J	3.7 J	3.8 J
Cadmium	mg/L	0.0003	0.00019	0.001 U	0.001 U	0.0014	0.00024 J				6E-06 J	6E-06 J	6E-06	5E-06 J	0.001 U	0.001 U	0.005 U
Calcium	mg/L	6.55	5.85	6 B	5.9	5.8	6.4	5.6	6.4	15	23.2	22	19.2	17.7	19 B	17	16
Carbonate Alkalinity as CaCO3	mg/L							5 U	5 U	5 U							
Chloride	mg/L	681	688	700	820	790	750	770	720	1500	888	927	887	882	910	900	940
Chromium	mg/L	0.0263	0.025	0.02	0.004	0.002 U	0.067				0.0012	0.002	0.0013	0.00124	0.0019 J	0.002 U	0.005 J
Cobalt	mg/L	0.00393	0.00262	0.002	0.00037 J	0.00025 J	0.0059				0.000107	0.00029	0.00015	0.000122	0.0004 J	0.00079 J	0.0014 J
Conductivity, Field	uS/cm	3580	3545					3606		5299	3541	3581	3578	3558			
Copper	mg/L			0.008 B	0.002 U	0.002 U	0.021									0.00085 JB	0.002 U
Dissolved Oxygen, Field	mg/L	1.01	1.42					0.64			1.08	0.58	0.77	1.7			
Dissolved Solids, Total	mg/L	1950	1900	1800 J	1900 J	2000	1800 J	2100	1700	2800	1850	1820	1840	1750	1800 J	2000 J	2000
Fluoride	mg/L	4.15	4.57	5.4	5.1	5.3	5.5	4.6	4.9	3.2	0.96	0.94	1.03	0.9	1.2	1.2	1.4
Iron	mg/L			2.7 JB	0.25	0.12	8.3								0.067 JB	0.1 U	0.6
Lead	mg/L	0.00639	0.00385	0.0026 J	0.0007 J	0.001 U	0.0074				5.3E-05	0.000164	0.000142	7.9E-05	0.00031 J	0.001 U	0.001 U
Lithium	mg/L	0.033	0.024	0.025	0.025	0.029	0.033				0.028	0.033	0.035	0.029	0.026	0.028	0.025
Magnesium	mg/L	2.33	2.18	2.2 B	2	1.8	2.9	1.7	1.9 J	3.8			4.46	4.13	4.5 B	3.9	4.1 J
Manganese	mg/L			0.051	0.027	0.031	0.092								0.058	0.03	0.079
Mercury	mg/L	1E-05	9E-06	0.0002 U	0.0002 U	0.0002 U	0.0002 U				5E-06 U	5E-06 U	2E-06	5E-06 U	0.0002 U	0.0002 U	0.0002 U
Molybdenum	mg/L	0.237	0.23	0.25	0.24	0.23 J	0.24				0.0135	0.015	0.0137	0.0133	0.02	0.015	0.017 J
Nickel	mg/L			0.014	0.0033	0.0015 J	0.05								0.0015 J	0.004	0.01 U
pH, Field	pH units	7.96	7.9	8.07	7.99	7.87	7.84	7.97	7.7	7.48	7.54	7.69	7.72	7.74	7.81	7.76	7.8
Potassium	mg/L	2.59	2.53	1.8 B	1.4	1.3	2.7	1.3	1.4 J	1.9			2.38	4.27	2.1 B	2	2.1 J
Radium-226	pCi/L	1.02	0.322	0.355	0.289	0.351	0.527				0.312	0.984	0.122	0.304	0.211	0.338	0.191
Radium-226/228	pCi/L	1.229	0.502	0.471	0.919	0.704	2.09				2.592	2.264	1.642	0.665	0.398	0.584	0.528
Radium-228	pCi/L	0.209	0.18	0.116 U	0.63	0.209	1.56				2.28	1.28	1.52	0.361	0.188 U	0.246 U	0.337 U
Redox Potential, Field	mV	-112.7	-121.3								170.7	11.5	-50.1	26.4			
Selenium	mg/L	0.0004	0.0002	0.005 U	0.005 U	0.005 U	0.005 U				4E-05 J	8E-05 J	7E-05	5E-05 J	0.0012 J	0.005 U	0.025 U
Silver	mg/L			0.001 U	0.001 U	0.001 U	6.2E-05 J								0.001 U	0.001 U	0.005 U
Sodium	mg/L	827	595	790 JB	790 B	790	760 JB	810	820	1100			557	496	750 JB	690	750
Strontium	mg/L	0.434	0.41	0.46 B	0.5 B	0.45 B	0.46						0.686	0.616	0.74 B	0.69	0.65 B
Sulfate	mg/L	68.1	72.3	83 J	82	84	90	85	85	39	91.6	75.1	63.8	52.7	78 J	83	99
Temperature, Field	deg C	12.9	12.9					14.8		15	17.44	15.8	15.3	14			
Thallium	mg/L	0.000159	0.000126	0.001 U	0.001 U	0.001 U	0.00021 J				1E-05 J	9.9E-05	1E-05	5E-05 U	0.001 U	0.001 U	0.001 U
Turbidity, Field	NTU	18.3	15.9	50.1	16.4	8.6	287.1	4.8	10.1	7.2	4	8.4	9.2	21.1	6.4	195.4	8.5
Vanadium	mg/L			0.0045 J			0.013								0.00054 J		0.005 U
Zinc	mg/L			0.019 J	0.02 U	0.02 U	0.036							0.02 U	0.02 U	0.1 U	0.02 U

Notes:
FD = Field duplicate sample
N = Normal environmental sample
deg C = Degree Celcius
mg/L = Milligrams per liter
mV = Millivolts
NTU = Nephelometric Turbidity Unit
uS/cm = Microsiemens per centimeter
pCi/L = Picocuries per liter
B: Compound was found in the blank and sample.
J: Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
U: Indicates the analyte was analyzed for but not detected.
Empty cells = Not analyzed

Appendix B
Analytical Data Summary
Fly Ash Reservoir & Residual Waste Landfill
Gavin Power Plant

Program Location Date	FEDERAL 94136 2017-07-17	FEDERAL 94136 2018-03-08	FEDERAL 94136 2018-03-08	FEDERAL 94136 2018-09-12	FEDERAL 94136 2019-03-07	FEDERAL 94136 2019-09-17	FEDERAL 94136 2019-09-17	FEDERAL 94136 2020-03-25	FEDERAL 94136 2020-09-25	FEDERAL 94136 2021-03-22	FEDERAL 94136 2021-09-19	FEDERAL 94137 2016-08-24	FEDERAL 94137 2016-10-06	FEDERAL 94137 2016-12-01	FEDERAL 94137 2017-02-01	FEDERAL 94137 2017-03-23	FEDERAL 94137 2017-04-28	
Sample Type	N	FD	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	
Analyte	Unit																	
Alkalinity, Total as CaCO3	mg/L			310	310	330	340	370	340	360	300			341	360			
Aluminum	mg/L	0.05 U														0.039 J	0.05 U	
Antimony	mg/L	0.002 U										5E-05	3E-05 J	3E-05	4E-05 J	0.00038 J	0.002 U	
Arsenic	mg/L	0.005 U										0.00179	0.00244	0.00211	0.00138	0.0026 J	0.0012 J	
Barium	mg/L	0.1										0.0524	0.0578	0.0553	0.049	0.068 B	0.056	
Beryllium	mg/L	0.001 U										2E-05 U	2E-05 U	5E-06	2E-05 U	0.001 U	0.001 U	
Bicarbonate Alkalinity as CaCO3	mg/L			310		330	330	360	340	350	300							
Bicarbonate Alkalinity as HCO3	mg/L				310													
Boron	mg/L	0.44 JB	0.49	0.54		0.33	0.41	0.44	0.48	0.41	0.46	0.35	0.021	0.017	0.022	0.037	0.04 J	0.028 JB
Bromide	mg/L	4.2 J												0.106	0.085	0.11 J	2.5 U	
Cadmium	mg/L	0.001 U										6E-05	2E-05	7E-05	5E-05	0.001 U	0.001 U	
Calcium	mg/L	17	29	34	17	15	14	14	13	14	14	14	147	163	154	148	160 B	160
Carbonate Alkalinity as CaCO3	mg/L				5 U	5 U	5.9	6	6.1	5.1	7.7	5 U						
Chloride	mg/L	960	940	950	970	900	870	870	960	830	830	930	27.5	27.7	27.8	27.5	29	29
Chromium	mg/L	0.001 J										0.0035	0.0055	0.0014	0.00169	0.0031	0.002 U	
Cobalt	mg/L	0.00065 J										0.0922	0.495	0.0503	0.056	0.12	0.031	
Conductivity, Field	uS/cm			3896					3409	3397	3396	3381	1252	1305	1283	1302		
Copper	mg/L	0.002 U															0.00065 JB	0.002 U
Dissolved Oxygen, Field	mg/L			4.05								1.08	0.73	0.83	1.29			
Dissolved Solids, Total	mg/L	1900 J	1900	1900		1700	2000	1900	1700	1400	1600	1800	958	856	867	883	890 J	920 J
Fluoride	mg/L	1.1	1.1	1.1	1.2	1.1	1.3	1.4	1.4	1.4	1.4	1.3	0.11	0.1 J	0.12	0.11	0.14	0.12 J
Iron	mg/L	0.1 U															0.67 JB	0.19
Lead	mg/L	0.001 U										0.0002	0.000152	0.000156	7E-05	0.00019 J	0.001 U	
Lithium	mg/L	0.029										0.011	0.017	0.015	0.007	0.0078 J	0.0096	
Magnesium	mg/L	4.3	6.5	7.4	3.9	3.8	3.5	3.5	3.5	3.6	3.5	3.5			47.9	47.4	51 B	47
Manganese	mg/L	0.089															0.088	0.06
Mercury	mg/L	0.0002 U										8E-06	3E-06 J	5E-06	2E-06 J	0.0002 U	0.0002 U	
Molybdenum	mg/L	0.015										0.00275	0.00353	0.00287	0.00633	0.0034 J	0.0027 J	
Nickel	mg/L	0.002 U														0.0028	0.0019 J	
pH, Field	pH units	7.89		7.74	7.87	8		8.02	8.06	8.07	7.95	7.87	7.11	6.93	6.98	7.02	7.03	6.96
Potassium	mg/L	2	2.4	2.6	2.1	1.8	1.9	1.9	1.9	1.9	1.9	1.7			1.82	2.18	1.7 B	1.7
Radium-226	pCi/L	0.22											0.171	1.71	0.29	0.257	0.239	0.111
Radium-226/228	pCi/L	0.765											2.681	2.373	1.268	3.127	0.261 U	0.201 U
Radium-228	pCi/L	0.545											2.51	0.663	0.978	2.87	0.0221 U	0.0903 U
Redox Potential, Field	mV																	
Selenium	mg/L	0.005 U										5E-05 J	9E-05 J	5E-05	0.0001 U	0.00056 J	0.005 U	
Silver	mg/L	0.001 U															6E-05 J	0.001 U
Sodium	mg/L	720 JB	790	800	760	710	750	760	690	690	710	650			70.7	65	68 JB	64 B
Strontium	mg/L	0.73												0.298	0.276	0.32 B	0.29	
Sulfate	mg/L	61	150	180	75	60	81	85	73	67	65	59	348	330	349	332	360 J	360
Temperature, Field	deg C			14.7					15	16	16	17	19.28	17	15.7	14		
Thallium	mg/L	0.001 U											4E-05 J	4E-05 J	4E-05	0.000166	0.001 U	0.001 U
Turbidity, Field	NTU	5.9		1.1	2.94			12	7	2.9	2	5.6	5.9	9.7	7.8	7.1	8	13.9
Vanadium	mg/L	0.005 U															0.00076 J	
Zinc	mg/L	0.02 U															0.02 U	0.02 U

Notes:
FD = Field duplicate sample
N = Normal environmental sample
deg C = Degree Celcius
mg/L = Milligrams per liter
mV = Millivolts
NTU = Nephelometric Turbidity Unit
uS/cm = Microsiemens per centimeter
pCi/L = Picocuries per liter
B: Compound was found in the blank and sample.
J: Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
U: Indicates the analyte was analyzed for but not detected.
Empty cells = Not analyzed

Appendix B
Analytical Data Summary
Fly Ash Reservoir & Residual Waste Landfill
Gavin Power Plant

Analyte	Program Location Date Sample Type Unit	FEDERAL 94137 2017-06-09 N	FEDERAL 94137 2017-07-17 N	FEDERAL 94137 2018-03-08 N	FEDERAL 94137 2018-09-12 N	FEDERAL 94137 2019-03-11 N	FEDERAL 94137 2019-09-17 N	FEDERAL 94137 2020-03-25 N	FEDERAL 94137 2020-09-25 N	FEDERAL 94137 2021-03-22 N	FEDERAL 94137 2021-09-19 N	FEDERAL 94139 2016-08-23 N	FEDERAL 94139 2016-10-05 N	FEDERAL 94139 2016-12-02 N	FEDERAL 94139 2017-02-02 N	FEDERAL 94139 2017-03-29 N	FEDERAL 94139 2017-04-28 N	FEDERAL 94139 2017-06-12 FD
Alkalinity, Total as CaCO3	mg/L				330	330	340	350	330	340	310			563	555			
Aluminum	mg/L	0.27	0.05 U													1.1 J	0.092	3.8 B
Antimony	mg/L	0.002 U	0.002 U									4E-05 J	3E-05 J	6E-05	3E-05 J	0.0017 J	0.002 U	0.002 U
Arsenic	mg/L	0.0036 J	0.0028 J									0.00328	0.00322	0.00438	0.00317	0.0031 J	0.0033 J	0.0047 J
Barium	mg/L	0.065 B	0.059									0.0893	0.0852	0.0969	0.081	0.097 B	0.092	0.11
Beryllium	mg/L	0.001 U	0.001 U									6.5E-05	2.7E-05	7.1E-05	2E-05 J	0.001 U	0.001 U	0.001 U
Bicarbonate Alkalinity as CaCO3	mg/L				330		340	350	330	340	310							
Bicarbonate Alkalinity as HCO3	mg/L					330												
Boron	mg/L	0.039 J	0.072 JB	0.035 J^		0.037 J	0.1 U	0.1 U	0.024 J	0.1 U	0.1 U	0.498	0.507	0.458	0.456	0.52	0.54 B	0.53
Bromide	mg/L	0.11 J	0.09 J											1.75	1.57	1.9 J	1.8 J	1.8 J
Cadmium	mg/L	0.001 U	0.001 U									1E-05 J	1E-05 J	2E-05 U	6E-06 J	0.001 U	0.001 U	0.001 U
Calcium	mg/L	160	160	150	160	150	150	150	150	160	140	6.7	5.6	7.99	6.66	5.5 B	7.1	9.6
Carbonate Alkalinity as CaCO3	mg/L				5 U	5 U	5 U	5 U	5 U	5 U	5 U							
Chloride	mg/L	29	28	28	28	28	26	27	28	26	28	487	503	450	500	510	510	480
Chromium	mg/L	0.0049	0.0038									0.0008	0.0017	0.00236	0.000647	0.0017 J	0.002 U	0.0029
Cobalt	mg/L	0.097	0.17									0.000397	0.00031	0.000507	0.000159	0.00037 J	0.001 U	0.00062 J
Conductivity, Field	uS/cm			1281				1221	1213	1212	1210	2454	2630	2608	2726			
Copper	mg/L	0.0045	0.002 U													0.0014 JB	0.002 U	0.007 B
Dissolved Oxygen, Field	mg/L			1.61								1.05	0.41	0.79	1.27			
Dissolved Solids, Total	mg/L	880	920 J	890		870	890	870	830	880	900	1420	1460	1390	1360	1500 J	1500 J	1400
Fluoride	mg/L	0.13 J	0.12	0.12 J	0.11	0.25 U	0.11	0.12	0.12	0.11	0.13	4.22	4.08	4.05	4.11	4.6	4.7	5
Iron	mg/L	1.6	0.83													0.62 JB	0.048 J	1.7
Lead	mg/L	0.00053 J	0.001 U									0.000963	0.00125	0.000921	0.000319	0.001 J	0.001 U	0.0025
Lithium	mg/L	0.0088	0.0088									0.02	0.026	0.026	0.014	0.019	0.019	0.018
Magnesium	mg/L	50	48	51	49	51	48	47	49	48	46			2.44	2	1.9 B	2.1	3.2
Manganese	mg/L	0.13	0.14													0.026	0.017	0.023
Mercury	mg/L	0.0002 U	0.0002 U									5E-06 U	5E-06 U	1E-05	3E-06 J	0.0002 U	0.0002 U	0.0002 U
Molybdenum	mg/L	0.0031 J	0.0026 J									0.2	0.231	0.214	0.195	0.22	0.21	0.19 J
Nickel	mg/L	0.0039	0.003													0.00089 J	0.002 U	0.0025
pH, Field	pH units	7.05	6.96	6.98	7.01	7.13	7.13	7.14	7.2	7.02	7.03	8.19	8.18	8.17	8.13	8.12	8.14	
Potassium	mg/L	1.8	1.7	1.7	1.9	2	1.8	1.6	1.7	1.7	1.6			2.6	1.97	1.4 B	1.4	1.5
Radium-226	pCi/L	0.0957	0.0922									1.34	0.464	0.936	0.454	0.387	0.547	0.559
Radium-226/228	pCi/L	0.331 U	0.3 U									16.81	1.634	1.606	1.196	0.797	0.907	1.12
Radium-228	pCi/L	0.235 U	0.208 U									15.47	1.17	0.67	0.742	0.41 U	0.36 U	0.565
Redox Potential, Field	mV											-51.8	-191.2	-43.3	-102.6			
Selenium	mg/L	0.005 U	0.005 U									0.0002	0.0001	0.0002	3E-05 J	0.00089 J	0.005 U	0.005 U
Silver	mg/L	6.8E-05 J	0.001 U													0.001 U	0.001 U	0.001 U
Sodium	mg/L	68	68 JB	67	64	67	65	61	64	64	59			425	451	580 JB	570	530
Strontium	mg/L	0.28 B	0.29											0.453	0.395	0.4 B	0.46	0.48 B
Sulfate	mg/L	360	370	360	370	370	350	390	330	330	340	56.1	49	52.8	51	62 J	62	70
Temperature, Field	deg C			14.7				14	17	17	17	20.42	17.9	14.8	14.3			
Thallium	mg/L	0.001 U	0.001 U									5E-05 U	5E-05 U	2E-05 J	2E-05 J	0.001 U	0.001 U	0.001 U
Turbidity, Field	NTU	4.5	6.7	2.3	4.31		3	2.5	1.3	8.1	1.6	69.7	8.8	169.8	8.7	5	5.9	
Vanadium	mg/L		0.005 U															
Zinc	mg/L	0.02 U	0.02 U													0.02 U	0.02 U	0.02 U

Notes:
FD = Field duplicate sample
N = Normal environmental sample
deg C = Degree Celcius
mg/L = Milligrams per liter
mV = Millivolts
NTU = Nephelometric Turbidity Unit
uS/cm = Microsiemens per centimeter
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Appendix B
Analytical Data Summary
Fly Ash Reservoir & Residual Waste Landfill
Gavin Power Plant

Program Location Date	FEDERAL 94139 2017-06-12	FEDERAL 94139 2017-07-18	FEDERAL 94139 2018-03-15	FEDERAL 94139 2018-09-24	FEDERAL 94139 2019-03-11	FEDERAL 94139 2019-09-23	FEDERAL 94139 2020-03-19	FEDERAL 94139 2020-09-22	FEDERAL 94139 2021-03-25	FEDERAL 94139 2021-09-28	FEDERAL 96152 2019-03-28	FEDERAL 96152 2019-09-22	FEDERAL 96152 2020-03-26	FEDERAL 96152 2020-09-17	FEDERAL 96152 2021-03-10	FEDERAL 96152 2021-09-29	FEDERAL 96153R 2016-08-23	
Analyte	Unit	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Alkalinity, Total as CaCO3	mg/L			510	500	500	490	520	500	500	500	450	450	470	550	560	590	
Aluminum	mg/L	5.1 B	32															
Antimony	mg/L	0.002 U	0.002 U														0.00059	
Arsenic	mg/L	0.0051	0.008														0.00237	
Barium	mg/L	0.12	0.29														0.0315	
Beryllium	mg/L	0.00038 J	0.0015														0.000515	
Bicarbonate Alkalinity as CaCO3	mg/L			490	490		470	490	470	480	480	450	450	470	550	560	590	
Bicarbonate Alkalinity as HCO3	mg/L					480												
Boron	mg/L	0.54	0.54 JB	0.51	0.5	0.54	0.51	0.51	0.51	0.55	0.53	0.43	0.41	0.43	0.43	0.45	0.48	0.448
Bromide	mg/L	1.8 J	1.8 J															
Cadmium	mg/L	0.001 U	0.00034 J														8E-05	
Calcium	mg/L	10	13	7.1	6.8	6.7	7.5	7.4	8.1	6.9	6.6	85	61	64	50	43	41	189
Carbonate Alkalinity as CaCO3	mg/L			15	13	17	19	27	24	27	22	5 U	5 U	5 U	5 U	5 U	5 U	
Chloride	mg/L	480	520	500	560	500	480	560	560	480	520	4900	4300	4800	3400	3200	3100	34.3
Chromium	mg/L	0.0052	0.014														0.0034	
Cobalt	mg/L	0.00082 J	0.0035														0.0234	
Conductivity, Field	uS/cm			2550				2467	2493	2486	2473			12690	10609	10275	4382	3013
Copper	mg/L	0.0063 B	0.019															
Dissolved Oxygen, Field	mg/L			1.29													4.65	
Dissolved Solids, Total	mg/L	1400	1400 J	1400	1400	1300	1300	1300	1400	1400	1500	6400	6200	6600	4500	5100	5000	2300
Fluoride	mg/L	5	5.1	4.4	4.6	4.4	4.7	4.6	4.6	4.5	4.8	0.84	0.91	0.86	0.97	0.72	1	0.8
Iron	mg/L	2.4	16															
Lead	mg/L	0.004	0.029														0.00648	
Lithium	mg/L	0.019	0.024														0.096	
Magnesium	mg/L	3.4	7.5	2.3	2.1	2.3	2.9	2.3	2.9	2	1.9	28	24	23	17	16	14	
Manganese	mg/L	0.033	0.28															
Mercury	mg/L	0.0002 UJ	0.0002 U														8E-06	
Molybdenum	mg/L	0.2 J	0.19														0.0126	
Nickel	mg/L	0.0027	0.013															
pH, Field	pH units	8.01	7.92	8.19	8.17	8.37	8.36	8.35	8.22	8.22	8.28	7.71	7.55	7.75	7.68	7.56	7.39	7.18
Potassium	mg/L	1.6	2.4	1.4	1.4	1.4	1.6	1.3	1.5	1.4	1.4	14	11	11	9.3	8.9	8.4	
Radium-226	pCi/L	0.61	0.886 J														0.634	
Radium-226/228	pCi/L	0.971	2.21														2.434	
Radium-228	pCi/L	0.361 U	1.32														1.8	
Redox Potential, Field	mV																36.1	
Selenium	mg/L	0.00091 J	0.0029 J														0.0009	
Silver	mg/L	0.001 U	0.00019 J															
Sodium	mg/L	550	560 JB	550	590	560	510	550	520	550	570	2800	2500	2500	2100	2000	2000	
Strontium	mg/L	0.51 B	0.75															
Sulfate	mg/L	69	66	65	74	66	60	62	59	59	61	19	16	20	28	27	66	1290
Temperature, Field	deg C			15.7				16	17	15	18			15	14	13	13	14.3
Thallium	mg/L	0.001 U	0.001 U														5E-05 J	
Turbidity, Field	NTU	90.8	69.3	22	10.8		34	7.4	309	9.8	4.9		252	230	76.1	159	56.6	141.2
Vanadium	mg/L		0.0079															
Zinc	mg/L	0.02 U	0.081															

Notes:
FD = Field duplicate sample
N = Normal environmental sample
deg C = Degree Celcius
mg/L = Milligrams per liter
mV = Millivolts
NTU = Nephelometric Turbidity Unit
uS/cm = Microsiemens per centimeter
pCi/L = Picocuries per liter
B: Compound was found in the blank and sample.
J: Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
U: Indicates the analyte was analyzed for but not detected.
Empty cells = Not analyzed

Appendix B
Analytical Data Summary
Fly Ash Reservoir & Residual Waste Landfill
Gavin Power Plant

Analyte	Program Location Date Sample Type Unit	FEDERAL 96153R 2016-10-03 N	FEDERAL 96153R 2016-11-29 N	FEDERAL 96153R 2017-03-21 N	FEDERAL 96153R 2017-04-25 N	FEDERAL 96153R 2017-06-06 N	FEDERAL 96153R 2017-07-12 N	FEDERAL 96153R 2018-03-22 N	FEDERAL 96153R 2018-09-13 N	FEDERAL 96153R 2019-03-29 N	FEDERAL 96153R 2019-09-19 N	FEDERAL 96153R 2020-03-15 N	FEDERAL 96153R 2020-03-24 N	FEDERAL 96153R 2020-09-15 N	FEDERAL 96153R 2021-03-19 N	FEDERAL 96153R 2021-09-20 N	FEDERAL 96154R 2016-08-23 N	FEDERAL 96154R 2016-10-03 N
Alkalinity, Total as CaCO3	mg/L		262	84					71	140	5 U	280	270	230	260	350		
Aluminum	mg/L				0.56	0.47	0.085 B											
Antimony	mg/L	0.00036	0.00024	0.00085 J	0.002 U	0.00057 J	0.002 U		0.002 U								0.00091	0.00098
Arsenic	mg/L	0.00142	0.0013	0.0044 J	0.005 U	0.005 U	0.005 U		0.005 U								0.00644	0.00668
Barium	mg/L	0.0901	0.136	0.061 JB	0.027	0.037	0.03		0.028								0.13	0.115
Beryllium	mg/L	0.000196	0.00019	0.012	0.0048	0.00038 J	0.001 U		0.0052								0.000546	0.000319
Bicarbonate Alkalinity as CaCO3	mg/L								71	140	5 U	280	270	230	260	120		
Bicarbonate Alkalinity as HCO3	mg/L																	
Boron	mg/L	0.423	0.463	0.23	0.25	0.48 B	0.48 B		0.32	0.39	0.18	0.54	0.51	0.5	0.58	0.51	0.441	0.395
Bromide	mg/L		0.2 U	5 U	5 U	5 U	5 U											
Cadmium	mg/L	0.0001	2E-05 J	0.00036 J	0.00024 J	0.001 U	0.001 U		0.00027 J								5E-05	2E-05
Calcium	mg/L	208	177	210 B	200	72	130			150	160	92	120	140	120	120	9.41	5.34
Carbonate Alkalinity as CaCO3	mg/L								5 U	5 U	5 U	5 U	5 U	5 U	5 U	230		
Chloride	mg/L	16.1	11.6	16	20	35	19		19	21	20	31	14	15	13	11	413	452
Chromium	mg/L	0.0027	0.00261	0.0028 J	0.002 U	0.002 U	0.002 U		0.002 U								0.0022	0.0057
Cobalt	mg/L	0.0266	0.00693	0.3	0.29	0.012	0.0063		0.2								0.00204	0.00176
Conductivity, Field	uS/cm	2934	2473					2256				2396	2274	2131	2165	2104	2462	2602
Copper	mg/L				0.002 U	0.002 U	0.0034											
Dissolved Oxygen, Field	mg/L	3.74	1.71					0.12									0.68	0.59
Dissolved Solids, Total	mg/L	2160	1700	1800	1900 J	1800	1600 J		1600	1500	1600	1500 J	1700	1500	1500	1500	1940	1550
Fluoride	mg/L	0.72	0.67	2.3	2.3	1.4	1.2		1.4	1.1	2.6	1.2	1	0.81	0.87	0.8	3.32	3.36
Iron	mg/L				30	0.94	0.14											
Lead	mg/L	0.00278	0.00277	0.0014 J	0.001 U	0.00045 J	0.001 U		0.001 U								0.00565	0.00371
Lithium	mg/L	0.081	0.053	0.18	0.2	0.069	0.054		0.16								0.08	0.054
Magnesium	mg/L		33.6		73	17	26			53	69	19	23	28	23	23		
Manganese	mg/L			18 B	17	1.6	0.99											
Mercury	mg/L	2E-06 J	1.5E-05	0.0002 U	0.0002 U	0.0002 U	0.0002 U		0.0002 U								2.5E-05	1E-05
Molybdenum	mg/L	0.0114	0.00812	0.0065 J	0.0042 J	0.02	0.0068 J		0.003 J								0.0557	0.102
Nickel	mg/L				0.27	0.018	0.0061											
pH, Field	pH units	6.99	7.35	6.46	6.19	7.2	7.49	7.14	6.04	6.59	5.31	7.42	7.36	7.23	7.4	7.41	9.5	9.36
Potassium	mg/L		6.7	10 JB	11	5.3	5.8			15	11	5.5	5.8	6	5.5	5.8		
Radium-226	pCi/L	0.403	0.968	0.476	0.475	0.335	0.05 U		0.328								1.21	0.53
Radium-226/228	pCi/L	1.963	1.64	0.764	0.926	0.607	0.702		0.72								1.566	1.434
Radium-228	pCi/L	1.56	0.672	0.288 U	0.451	0.272 U	0.652 J		0.393 U								0.356	0.904
Redox Potential, Field	mV	136.7	227.2														97.1	54.8
Selenium	mg/L	0.0005	0.0006	0.0053 J	0.0017 J	0.0014 J	0.001 JB		0.005 U								0.001	0.001
Silver	mg/L				0.001 U	0.001 U	0.001 U											
Sodium	mg/L		287	160 JB	190	490 B	330			280	150	420	350	330	320	320		
Strontium	mg/L		3.22	1.5 JB	1.4	1.3 B	2.6											
Sulfate	mg/L	1320	973	1200	1700	1000	1000		1100	1100	1100	1200	1100	910	900	950	99.2	87.4
Temperature, Field	deg C	14.6	13.3					12.2				13	13	14	12	14	16.5	14.4
Thallium	mg/L	8E-05 J	2E-05 J	0.001 U	0.001 U	0.001 U	0.001 U		0.001 U								6.4E-05	0.000144
Turbidity, Field	NTU	65	49.6	113.6	87.4	19.2	30.7	7	69.4		85	4	10.5	9.8	2.9	7.7	737	209.7
Vanadium	mg/L																	
Zinc	mg/L				0.61	0.018 J	0.02 U											

Notes:
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mg/L = Milligrams per liter
mV = Millivolts
NTU = Nephelometric Turbidity Unit
uS/cm = Microsiemens per centimeter
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B: Compound was found in the blank and sample.
J: Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
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Empty cells = Not analyzed

Appendix B
Analytical Data Summary
Fly Ash Reservoir & Residual Waste Landfill
Gavin Power Plant

Analyte	Program Location Date Sample Type Unit	FEDERAL 96154R 2016-11-29 N	FEDERAL 96154R 2017-01-30 N	FEDERAL 96154R 2017-03-21 N	FEDERAL 96154R 2017-04-25 N	FEDERAL 96154R 2017-06-06 N	FEDERAL 96154R 2017-07-12 N	FEDERAL 96154R 2018-03-22 N	FEDERAL 96154R 2018-09-13 N	FEDERAL 96154R 2019-03-29 FD	FEDERAL 96154R 2019-03-29 N	FEDERAL 96154R 2019-09-19 N	FEDERAL 96154R 2020-03-12 N	FEDERAL 96154R 2020-09-14 N	FEDERAL 96154R 2021-03-19 N	FEDERAL 96154R 2021-09-20 N	FEDERAL 96156 2016-08-23 N	FEDERAL 96156 2016-10-03 N	
Alkalinity, Total as CaCO3	mg/L	558	607	600					460	350	350	280	560	530	570	550 J			
Aluminum	mg/L				0.42	1.4	0.96 B												
Antimony	mg/L	0.00046	0.00078	0.0014 J	0.0014 J	0.002 U	0.0006 JB										0.0001 J	0.00141	
Arsenic	mg/L	0.00409	0.00277	0.0049 J	0.0093	0.0022 J	0.0025 J										0.0141	0.0184	
Barium	mg/L	0.219	0.194	0.28 JB	0.067	0.12	0.11										16.2	17.4	
Beryllium	mg/L	0.000679	0.000166	0.001 U	0.001 U	0.001 UJ	0.001 U										0.0002 U	0.000129	
Bicarbonate Alkalinity as CaCO3	mg/L								110	5 U	5 U	5 U	280	470	410	500 J			
Bicarbonate Alkalinity as HCO3	mg/L																		
Boron	mg/L	0.504	0.454	0.49	0.5	0.53 B	0.53 B			0.38	0.38	0.39	0.43	0.45	0.51	0.53	0.394	0.357	
Bromide	mg/L	1.48	1.36	1.5 J	1.4 J	2.4	1.8 J												
Cadmium	mg/L	4E-05	4E-05	0.001 U	0.001 U	0.001 U	0.001 U										0.00022	0.00221	
Calcium	mg/L	10.5	22.1	31 B	2.1	4.8	4.3		3.2	61	61	26	17	7	8.3	14	409	354	
Carbonate Alkalinity as CaCO3	mg/L								350	130	130	180	280	58	160	48 J			
Chloride	mg/L	410	446	410	410	470	490		410	340	330	350	490	470	370	520	11700		
Chromium	mg/L	0.0121	0.00249	0.0051 J	0.002 U	0.0078 J	0.0013 J										0.0011	0.0195	
Cobalt	mg/L	0.00443	0.000799	0.00095 J	0.00037 J	0.00042 J	0.00022 J										0.00194	0.00371	
Conductivity, Field	uS/cm	2562	2549					2650					2483	2545	2551	2567	30150	32283	
Copper	mg/L				0.002 U	0.0043 B	0.002 U												
Dissolved Oxygen, Field	mg/L	1.16	1.02					0.15									2.61	2.64	
Dissolved Solids, Total	mg/L	1850	1590	1400	1400 J	1500	1500 J			860	850	900	1400	1400	1400	1300	18300		
Fluoride	mg/L	3.4	3.33	4.2	4.5	4.1	4.5		4.4	3.3	3.3	3.9	4	4.2	3.8	4.4	0.33		
Iron	mg/L				0.29	1.4	0.64												
Lead	mg/L	0.00967	0.0031	0.0021 J	0.001 U	0.00077 J	0.00048 J										0.00236	0.0218	
Lithium	mg/L	0.04	0.137	0.24	0.19	0.048	0.049										0.269	0.252	
Magnesium	mg/L	4.24	1.48		0.55 J	1.5	1.4		0.51 J	0.34 J	0.41 J	0.24 J	1.5	1.3	1.2	1.5			
Manganese	mg/L			0.02 B	0.011	0.013	0.0053												
Mercury	mg/L	3E-05	1.8E-05	0.0002 U	0.0002 U	0.0002 U	0.0002 U										5E-06 U	0.0002 U	
Molybdenum	mg/L	0.0724	0.0692	0.09 J	0.093	0.1	0.1										0.00987	0.017	
Nickel	mg/L				0.002 U	0.0028	0.002 U												
pH, Field	pH units	8.67	9.64	10.67	10.32	8.76	8.82	9.85	10.11			12.06	11.7	9.76	8.93	9.18	8.57	7.07	6.83
Potassium	mg/L	7.64	33.8	58 JB	41	6	6.1		12	20	20	10	7.2	3.6	4.4	3.8			
Radium-226	pCi/L	1.68	0.96	0.696	0.664	0.251	0.213										33.8		
Radium-226/228	pCi/L	2.328	1.762	1.21	0.894	0.655	0.577										75.85	41.96	
Radium-228	pCi/L	0.648	0.802	0.51	0.23 U	0.405	0.364 UJ										42.05	41.96	
Redox Potential, Field	mV	175.9	139.8														-82.4	-66.3	
Selenium	mg/L	0.002	0.0006	0.00096 J	0.005 U	0.005 U	0.005 U										0.0006 J	0.0004 J	
Silver	mg/L				0.001 U	0.0017	0.00021 J												
Sodium	mg/L	478	449	540 JB	510	540 B	590		450	340	340	320	520	500	530	570			
Strontium	mg/L	0.425	1.37	2.6 JB	0.57	0.36 B	0.38												
Sulfate	mg/L	125	66.8	64	60	100	100		42	29	29	33	33	36	36	41	1.9		
Temperature, Field	deg C	13.3	11.2					12.6					13	14	13	14	15.2	16.1	
Thallium	mg/L	0.000121	0.000114	0.001 U	0.001 U	0.001 U	0.001 U										0.0005 U	0.0002 J	
Turbidity, Field	NTU	642.7	349.1	98.6	63.9	44.8	16.2	6	6.23			41	140	87.9	53.9	59.9	9	38.2	
Vanadium	mg/L																		
Zinc	mg/L				0.02 U	0.02 U	0.02 U												

Notes:
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mg/L = Milligrams per liter
mV = Millivolts
NTU = Nephelometric Turbidity Unit
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B: Compound was found in the blank and sample.
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Appendix B
Analytical Data Summary
Fly Ash Reservoir & Residual Waste Landfill
Gavin Power Plant

Analyte	Program Location Date Sample Type Unit	FEDERAL 96156 2016-11-29 N	FEDERAL 96156 2017-01-30 N	FEDERAL 96156 2017-03-21 N	FEDERAL 96156 2017-04-25 N	FEDERAL 96156 2017-06-06 N	FEDERAL 96156 2017-07-12 N	FEDERAL 96156 2018-03-26 N	FEDERAL 96157 2021-09-28 N	FEDERAL 96158 2021-09-28 N	FEDERAL 9631 2021-09-27 N	FEDERAL 9801 2016-08-24 N	FEDERAL 9801 2016-10-06 N	FEDERAL 9801 2016-12-02 N	FEDERAL 9801 2017-02-01 N	FEDERAL 9801 2017-03-29 N	FEDERAL 9801 2017-06-09 FD	FEDERAL 9801 2017-06-09 N
Alkalinity, Total as CaCO3	mg/L		165	150					440	330	290			141	160			
Aluminum	mg/L				0.05 U	0.079	0.084 B									0.25 U	1.3 U	1.3 U
Antimony	mg/L	0.00208	0.00022	0.0025	0.002 U	0.0017 J	0.0012 JB					0.0005 U	0.0005 U	5E-05 U	0.0005 U	0.01 U	0.05 U	0.05 U
Arsenic	mg/L	0.0398	0.00202	0.0035 J	0.0042 J	0.0043 J	0.0036 J					0.00075	0.00109	0.00072	0.00056	0.025 U	0.13 U	0.13 U
Barium	mg/L	17.7	14.8	16 JB	16	16	15					5.16	4.84	4.63	4.33	5 B	4.7 B	5 B
Beryllium	mg/L	0.0003 J	2E-05 U	0.00043 J	0.001 U	0.001 UJ	0.001 U					0.0002 U	0.0002 U	2E-05 U	0.0002 U	0.005 U	0.001 U	0.001 U
Bicarbonate Alkalinity as CaCO3	mg/L								440	330	290							
Bicarbonate Alkalinity as HCO3	mg/L																	
Boron	mg/L	0.375	0.379	0.46	0.4	0.43 B	0.4 B		0.15	0.4	0.38	0.378	0.329	0.353	0.404	0.42	0.45	0.45
Bromide	mg/L		58.6	57	73	67	51							34.3	36.2	41	36 J	35 J
Cadmium	mg/L	0.00419	0.0001	0.00043 J	0.00027 J	0.00088 J	0.0015					0.0002 U	0.0002 U	2E-05 U	0.0002 U	0.005 U	0.025 U	0.025 U
Calcium	mg/L	399	346	380 B	380	390	370		55	64	310	202	198	184	180	180 B	170	190
Carbonate Alkalinity as CaCO3	mg/L								5 U	5 U	5 U							
Chloride	mg/L		12000	13000	17000	12000	12000		240	1100	9700	7930	7950	7210	7330	8800	8300	8100
Chromium	mg/L	0.0598	0.000629	0.0011 J	0.002 U	0.0077 J	0.016					0.0045	0.0024	0.00216	0.000768	0.0017 J	0.05 U	0.05 U
Cobalt	mg/L	0.00517	0.00145	0.0021	0.0016	0.0015	0.0017					0.00173	0.00172	0.000975	0.000957	0.0014 J	0.025 U	0.025 U
Conductivity, Field	uS/cm	17682	30266					32509	1358	3724	27285	2129	23618	23470	22980			
Copper	mg/L				0.82	1.3 B	1.3									0.01 U	0.05 U	0.05 U
Dissolved Oxygen, Field	mg/L	5.31	4.89					0.24				3.03	0.71	2.8	1.53			
Dissolved Solids, Total	mg/L		18100	15000	19000 J	21000	15000 J		740	2000	2900	12600	13000	12300	11300	13000 J	14000	14000
Fluoride	mg/L		2 U	2.5 U	5 U	1.3 U	2.5 U		0.93	1.3	2.5 U	0.87	0.61	0.6 J	0.91	1 J	5 U	5 U
Iron	mg/L				4.5	7.7										0.51 JB	2.5 U	2.5 U
Lead	mg/L	0.0455	0.00115	0.0022 J	0.001 U	0.0055	0.0033					0.0001 J	0.0001 J	0.000354	9E-05 J	0.005 U	0.005 U	0.005 U
Lithium	mg/L	0.296	0.294	0.22	0.25	0.25	0.23					0.141	0.142	0.16	0.159	0.12	0.13	0.12
Magnesium	mg/L	117	111		130	140	130		12	13	87			54.6	55.2	63 B	58	63
Manganese	mg/L			0.93 B	0.75	0.79	0.74									0.57	0.44	0.47
Mercury	mg/L	2.1E-05	1.1E-05	0.0002 U	0.0002 U	0.0002 U	0.0002 U					5E-06 U	1.6E-05	1.6E-05	1E-05	0.0002 U	0.0002 U	0.0002 U
Molybdenum	mg/L	0.0225	0.0054	0.0056 J	0.0073 J	0.017	0.0086 J					0.00533	0.00723	0.00651	0.0068	0.0042 J	0.05 U	0.05 U
Nickel	mg/L				0.0045	0.0049	0.055									0.01 U	0.05 U	0.05 U
pH, Field	pH units	7.23	6.77	8.93	8.32	7.26	8.04	7.4	7.6	7.34	7.16	6.95	7.16	6.92	7.03	7.2		7.21
Potassium	mg/L	36.5	47.4	22 JB	22	22	21		1.6	3.3	10			14.4	18.6	9.6 B	8.3 J	9.3 J
Radium-226	pCi/L		51.2	94	86.5	64.4	59.3 J					3.39	6.84	3.47	4.19	4.48	4.49	3.83
Radium-226/228	pCi/L		122.3	189	189	138	119 J					8.15	13.99	7.83	9.95	10.5	10.3	11.3
Radium-228	pCi/L		71.1	95.2	103	73.4	60.2					4.76	7.15	4.36	5.76	5.98	5.8	7.43
Redox Potential, Field	mV	176.5	102.7									124.2	-91.8	85.3	-87.4			
Selenium	mg/L	0.001 J	0.0001	0.0013 J	0.005 U	0.00091 J	0.0011 JB					0.001 U	0.001 U	0.001 U	0.001 U	0.025 U	0.13 U	0.13 U
Silver	mg/L				6.6E-05 J	0.001 U	8.9E-05 J									0.005 U	0.005 U	0.005 U
Sodium	mg/L	2620	1400	6800 JB	6100	1 U	6400		220	700	5900			4310	1650	4400 JB	4200	4700
Strontium	mg/L	30.4	25.3	31 JB	33	31 B	27							16.4	15.6	19 B	13 B	13 B
Sulfate	mg/L		1 J	50 U	100 U	25 U	50 U		4.3	20	34 J	3.4	7.2	6.7	3.4	8.6 J	100 U	100 U
Temperature, Field	deg C	15.7	9.1					12.7	16	16	16	19.72	16.5	14.2	13.5			
Thallium	mg/L	0.0002 J	3E-05 J	0.001 U	0.001 U	0.001 U	0.001 U					0.0002 J	0.0001 J	0.000528	0.0005 U	0.005 U	0.005 U	0.005 U
Turbidity, Field	NTU	123.8	64.8	81.7	72.5	83.2	48	1	2.8	1.5	4.7	4.7	9.7	3	3.9	7.7		3.2
Vanadium	mg/L																	
Zinc	mg/L				0.19	0.18	0.16									0.1 U	0.5 U	0.5 U

Notes:
FD = Field duplicate sample
N = Normal environmental sample
deg C = Degree Celcius
mg/L = Milligrams per liter
mV = Millivolts
NTU = Nephelometric Turbidity Unit
uS/cm = Microsiemens per centimeter
pCi/L = Picocuries per liter
B: Compound was found in the blank and sample.
J: Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
U: Indicates the analyte was analyzed for but not detected.
Empty cells = Not analyzed

Appendix B
Analytical Data Summary
Fly Ash Reservoir & Residual Waste Landfill
Gavin Power Plant

Analyte	Program Location Date Sample Type Unit	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL
		9801 2017-07-17 N	9801 2018-03-16 N	9801 2018-09-12 N	9801 2019-03-12 N	9801 2019-09-24 N	9801 2020-03-24 N	9801 2021-09-27 FD	9801 2021-09-27 N	9802 2016-08-24 N	9802 2016-10-06 N	9802 2016-12-02 N	9802 2017-02-01 N	9802 2017-03-29 N	9802 2017-06-09 N	9802 2017-07-17 N	9802 2018-03-16 N	9802 2018-09-12 N
Alkalinity, Total as CaCO3	mg/L		130	130	140	130	140	150	150			796	645			610	570	
Aluminum	mg/L	0.1 U												0.071 J	0.22	0.05 U		
Antimony	mg/L	0.004 U		0.002 U						3E-05 J	4E-05 J	2E-05 J	3E-05 J	0.00034 J	0.002 U	0.002 U		
Arsenic	mg/L	0.01 U		0.005 U						0.00091	0.00072	0.0012	0.00103	0.00094 J	0.00083 J	0.00089 J		
Barium	mg/L	5.3		4.8						0.0781	0.0711	0.0664	0.069	0.08 B	0.086 B	0.082		
Beryllium	mg/L	0.002 U		0.001 U						5E-06 J	2E-05 U	7E-06 J	6E-06 J	0.001 U	0.00035 J	0.001 U		
Bicarbonate Alkalinity as CaCO3	mg/L		130	130		130	140	150	150								610	570
Bicarbonate Alkalinity as HCO3	mg/L				140													
Boron	mg/L	0.52 JB	0.44	0.44	0.44	0.42	0.38	0.43	0.4	0.172	0.157	0.178	0.242	0.18	0.19	0.27 JB	0.2	
Bromide	mg/L	39 J										0.499	0.157	2.5 U	2.5 U	2.5 U		
Cadmium	mg/L	0.002 U		0.001 U						2E-05	1E-05 J	0.0001	5E-05	0.001 U	0.001 U	0.001 U		
Calcium	mg/L	200	220		180	250	180	200	190	29.3	28.7	24.5	28	29 B	31 J	30	30	36
Carbonate Alkalinity as CaCO3	mg/L		5 U	5 U	5 U	5 U	5 U	5 U	5 U								5 U	5 U
Chloride	mg/L	9000	8300	8400	150	9300	8900	7600	7700	36.1	35.2	39.1	38	39	38	40	39	35
Chromium	mg/L	0.0025 J		0.0018 J						0.0013	0.0028	0.00206	0.000823	0.00081 J	0.0025	0.0011 J		
Cobalt	mg/L	0.0011 J		0.0015						0.000954	0.00112	0.000847	0.00108	0.0011	0.00048 J	0.00041 J		
Conductivity, Field	uS/cm		22901				21314	19963	19963	1311	1361	1354	1366					13.31
Copper	mg/L	0.004 U												0.00056 JB	0.0017 JB	0.002 U		
Dissolved Oxygen, Field	mg/L		0.22							1.81	0.73	2.01	1.68					1.46
Dissolved Solids, Total	mg/L	14000 J	13000	14000	11000 HT	14000	11000	8100	9300	766	784	796	810	820 J	830	810 J	810	
Fluoride	mg/L	5 U	2.5 U	1	0.05 U	1.1	1.1	0.9	0.85	0.88	0.8	0.8	0.84	0.96	0.99	0.95	1	0.94
Iron	mg/L	0.43												0.18 JB	0.27	0.058 J		
Lead	mg/L	0.002 U		0.001 U						4.4E-05	3.1E-05	4.3E-05	6E-05	0.00026 J	0.001 U	0.001 U		
Lithium	mg/L	0.15		0.13						0.015	0.018	0.022	0.012	0.014	0.012	0.014		
Magnesium	mg/L	63	61		69	83 J	54	56	53			6.8	7.8	8.2 B	9	8.6	8.1	9.3
Manganese	mg/L	0.51												0.48	0.1	0.28		
Mercury	mg/L	0.0002 U		0.0002 U						5E-06 U	5E-06 U	1.1E-05	5E-06 U	0.0002 U	0.0002 U	0.0002 U		
Molybdenum	mg/L	0.004 J		0.0039 J						0.0064	0.00563	0.00543	0.00525	0.0051 J	0.0046 J	0.0048 J		
Nickel	mg/L	0.0035 J												0.00079 J	0.0018 J	0.0022		
pH, Field	pH units	7.16	7.32	7.34	7.51	7.49	7.4	7.26	7.26	6.94	7.25	7.3	7.19	7.24	7.2	7.11	7.31	7.59
Potassium	mg/L	9.5	9.2		9.1	12 J	8.7	9.5	8.9			1.66	2.05	1.5 B	1.5	1.6	1.5	1.9
Radium-226	pCi/L	4.35 J		5.31						0.443	0.327	0.603	0.245	0.173	0.181	0.188		
Radium-226/228	pCi/L	11 J		11.5						2.763	0.638	0.832	0.506	0.31 U	0.276 U	0.786		
Radium-228	pCi/L	6.64 J		6.16						2.32	0.311	0.229	0.261	0.136 U	0.0949 U	0.597		
Redox Potential, Field	mV									14.6	-32.9	9	-49.4					
Selenium	mg/L	0.01 U		0.005 U						5E-05 J	4E-05 J	3E-05 J	5E-05 J	0.005 U	0.005 U	0.0012 J		
Silver	mg/L	0.002 U												0.001 U	0.001 U	0.001 U		
Sodium	mg/L	4600 JB	4700		4800	4400	4200	4400	4400			253	270	260 JB	270	290 JB	290	260
Strontium	mg/L	20										0.58	0.601	0.62 B	0.55 B	0.65		
Sulfate	mg/L	100 U	50 U	6.3 J	1 U	5.2 J	8.9 J	5.9 J	5.9 J	65.8	57.5	60.2	58.9	70 J	72	71	68	68
Temperature, Field	deg C		14.9				14	15	15	20.37	18.2	14.3	13.6				16.8	
Thallium	mg/L	0.002 U		0.001 U						5.8E-05	8.4E-05	5.8E-05	5E-05 J	0.001 U	0.001 U	0.001 U		
Turbidity, Field	NTU	3.5	1.5	4.22		6	1.4	5.4	5.4	0.4	2.5	14.4	6.5	6.9	1.6	7.5	2.1	35.3
Vanadium	mg/L	0.01 U														0.005 U		
Zinc	mg/L	0.04 U												0.02 U	0.02 U	0.02 U		

Notes:
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N = Normal environmental sample
deg C = Degree Celcius
mg/L = Milligrams per liter
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NTU = Nephelometric Turbidity Unit
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Appendix B
Analytical Data Summary
Fly Ash Reservoir & Residual Waste Landfill
Gavin Power Plant

Analyte	Program Location Date Sample Type Unit	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL	FEDERAL
		9802 2019-03-12 N	9802 2019-09-24 N	9802 2020-03-24 N	9802 2020-09-22 N	9802 2021-03-25 N	9802 2021-09-28 N	9806 2016-12-02 N	9806 2017-02-08 N	9806 2017-03-27 N	9806 2017-05-01 N	9806 2017-06-27 N	9806 2018-03-20 N	9806 2018-09-11 N	9806 2019-03-14 N	9806 2019-09-26 N	9806 2020-03-25 N	9806 2020-09-17 N
Alkalinity, Total as CaCO3	mg/L	590	590	610	590	600	590	350	346			330	330	390 B	320	370	350	
Aluminum	mg/L									2.4 J	2.8	0.057						
Antimony	mg/L							0.00011	6E-05	0.0003 JB	0.00068 J	0.002 U		0.002 U	0.002 U			
Arsenic	mg/L							0.00207	0.00113	0.0011 J	0.0015 J	0.001 J		0.005 U	0.005 U			
Barium	mg/L							0.0676	0.05	0.057 B	0.058	0.041		0.031	0.033			
Beryllium	mg/L							0.000269	0.000122	0.001 U	0.00038 J	0.001 U		0.00061 JF2F1	0.001 U			
Bicarbonate Alkalinity as CaCO3	mg/L		590	610	590	600	590						300	310	390 B	300	370	340
Bicarbonate Alkalinity as HCO3	mg/L	590																
Boron	mg/L	0.2	0.21	0.22	0.24	0.22	0.2	0.256	25	0.31	0.32	0.35	0.29	0.27	0.23	0.3	0.22	0.21
Bromide	mg/L							0.82	0.65	0.94 J	0.77 J	0.96			0.23 J			
Cadmium	mg/L							0.00037	0.0001	0.001 U	0.001 U	0.001 U		0.001 U	0.001 U			
Calcium	mg/L	31	26	26	26	27	28	5.35	159	4 B	4.2	3.7	3.6	9.6	37	4.1	31	37
Carbonate Alkalinity as CaCO3	mg/L	5 U	5 U	5 U	5 U	5 U	5 U						22	19	5 U	26	5 U	7.3
Chloride	mg/L	39	38	41	47	42	42	187	191	200	200	200	210	94	38	190	53	51
Chromium	mg/L							0.00653	0.00291	0.004 B	0.0054	0.002 U		0.002 U	0.0015 J			
Cobalt	mg/L							0.00516	0.00231	0.0016	0.0017	0.001 U		0.001 U	0.00046 J			
Conductivity, Field	uS/cm			1265	1284	1292	1275	1500	1574				1533				1666	1691
Copper	mg/L									0.0031 B	0.0066 B	0.002 U						
Dissolved Oxygen, Field	mg/L							1.44	1.25				1.78					
Dissolved Solids, Total	mg/L	780	740	780	790	730	780	860	874	890 J	860 J	870	880	850	1000	1900	930	1100
Fluoride	mg/L	0.91	1	1	0.9	1	1.1	1.14	1.08	1.4	1.3	1.3	1.3	0.87	0.34	1.4	0.44	0.39
Iron	mg/L									2 JB	2.2	0.058 J						
Lead	mg/L							0.00481	0.00227	0.0018 J	0.0028	0.001 U		0.001 U	0.001 U			
Lithium	mg/L							0.022	0.249	0.013	0.012	0.012		0.036 F2F1	0.045			
Magnesium	mg/L	8.8	7.8	7.1	7	7.4	7.8	2.21	171	1.4 B	1.5	0.92 J	0.85 J			1.5	13	16
Manganese	mg/L									0.034 B	0.03	0.02 B						
Mercury	mg/L							0.000131	6E-06	0.0002 U	0.0002 U	0.0002 U		0.0002 U	0.0002 U			
Molybdenum	mg/L							0.011	0.0107	0.012	0.011	0.023		0.0061	0.0023 J			
Nickel	mg/L									0.0037 B	0.0036	0.002 U						
pH, Field	pH units	7.51	7.43	7.4	7.32	7.34	7.33	8.61	8.49	8.59	8.4	8.4	8.64	8.5	7.74	8.73	7.86	8.2
Potassium	mg/L	1.7	1.6	1.6	1.5	1.5	1.5	2.09	18.4	1.6 B	1.7	0.84 J	0.96 J			1.1	2.9	3.2
Radium-226	pCi/L							0.658	0.221	0.154	0.149	0.199		0.151	0.0571 U			
Radium-226/228	pCi/L							0.7334	0.711	0.378	0.235 U	0.353		0.257 U	0.0148 U			
Radium-228	pCi/L							0.0754	0.49	0.224 U	0.0855 U	0.154 U		0.106 U	-0.0422 U			
Redox Potential, Field	mV							-14.2	69.1									
Selenium	mg/L							0.0007	0.0003	0.005 U	0.0011 J	0.005 U		0.0015 J	0.00098 J			
Silver	mg/L									0.00084 J	0.0012	0.001 U						
Sodium	mg/L	290	300	280	290	290	280	277	213	320 JB	350 B	350	320			320	310	350
Strontium	mg/L							0.166	1.28	0.15 B	0.16 B	0.13						
Sulfate	mg/L	73	69	70	73	70	71	116	113	130 J	130	130	130	240	450	130	510	490
Temperature, Field	deg C			16	17	16	18	11	12.4				11.8				13	14
Thallium	mg/L							7E-05	4E-05 J	0.001 U	0.001 U	0.001 U		0.001 U	0.001 U			
Turbidity, Field	NTU		5	0.8	1	1.3	0.9	301.9	74.3	110.6	40.6	53.8	13	4.33		32	2.3	0.8
Vanadium	mg/L																	
Zinc	mg/L									0.0093 J	0.02 U	0.02 U						

Notes:
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uS/cm = Microsiemens per centimeter
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Appendix B
Analytical Data Summary
Fly Ash Reservoir & Residual Waste Landfill
Gavin Power Plant

	Program Location Date	FEDERAL 9806 2021-03-20	FEDERAL 9806 2021-09-27	FEDERAL 9910 2016-10-03	FEDERAL 9910 2018-09-25	FEDERAL 9910 2019-03-26	FEDERAL 9910 2019-09-22	FEDERAL 9910 2020-03-15	FEDERAL 9910 2020-09-17	FEDERAL 9910 2021-03-17	FEDERAL 9910 2021-09-24	FEDERAL MW-17 2020-09-11	FEDERAL MW-17 2021-03-20	FEDERAL MW-17 2021-09-19	FEDERAL MW-20 2016-08-23	FEDERAL MW-20 2016-10-05	FEDERAL MW-20 2016-12-01	FEDERAL MW-20 2017-04-25
Analyte	Sample Type Unit	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Alkalinity, Total as CaCO3	mg/L	340	330		830	860	850	870	840	870	870	270	300	270			259	
Aluminum	mg/L																	0.05 U
Antimony	mg/L														4E-05 J	0.0002 U	0.0001 U	0.002 U
Arsenic	mg/L														0.00938	0.01	0.00917	0.0048 J
Barium	mg/L														0.0274	0.0228	0.0233	0.025
Beryllium	mg/L														0.000234	0.000265	0.000276	0.00032 J
Bicarbonate Alkalinity as CaCO3	mg/L	320	300		830	840	840	850	840	870	850	270	300	270				
Bicarbonate Alkalinity as HCO3	mg/L																	
Boron	mg/L	0.29	0.25		0.52	0.52	0.49	0.51	0.51	0.55	0.52	0.39	0.41	0.44	0.126	0.272	0.104	0.15 J
Bromide	mg/L																0.422	5 U
Cadmium	mg/L														8E-05	2E-05 J	4E-05 U	0.001 U
Calcium	mg/L	7.2	8.9		12	13	13	11	14	13	15	94	87	96	495	483	465	500
Carbonate Alkalinity as CaCO3	mg/L	17	25		5 U	23	6.9	19	5 U	5 U	15	5 U	5 U	5 U				
Chloride	mg/L	180	160		840	880	800	850	850	810	870	4500	4200	4500	60.1	25.2	16.4	11
Chromium	mg/L														0.0028	0.0018	0.00121	0.002 U
Cobalt	mg/L														0.128	0.134	0.143	0.13
Conductivity, Field	uS/cm	1464	1497	4918				4626	4577	4584	4732	12829	12407	12893	2819	3042	2935	
Copper	mg/L																	0.002 U
Dissolved Oxygen, Field	mg/L			1.58											2.93	1.5	4.67	
Dissolved Solids, Total	mg/L	890	950		2400	2900	2700	2900	2300	2500	2400	7500	7200	7900	2660	2710	2620	2500 J
Fluoride	mg/L	1.3	1		2	1.9	2	2	2	1.9	1.9	1.4	1.6	1.7	0.95	1	1	1.2
Iron	mg/L																	27
Lead	mg/L														0.000201	0.00013	3E-05 J	0.001 U
Lithium	mg/L														0.174	0.171	0.188	0.16
Magnesium	mg/L	2.2	3.9		4	4.2	4.3	3.9	4.3	4.3	4.7	18	18	18			106	100
Manganese	mg/L																	15
Mercury	mg/L									0.0002 U					5E-06 U	5E-06 U	5E-06 U	0.0002 U
Molybdenum	mg/L														0.0089	0.00543	0.00249	0.0016 J
Nickel	mg/L																	0.1
pH, Field	pH units	8.47	8.59	7.58	7.64	7.76	7.8	7.88	7.8	7.69	7.67	7.29	7.27	7.39	6.88	6.52	6.5	6.51
Potassium	mg/L	1.4	1.7		2.9	3.2	3	3	3	3	2.9	5.3	5.2	5.5			9.01	7.8
Radium-226	pCi/L														0.31	0.344	0.322	0.181
Radium-226/228	pCi/L														0.684	1.494	0.866	0.594
Radium-228	pCi/L														0.374	1.15	0.544	0.413
Redox Potential, Field	mV			208.7											-41	-55.5	-47.5	
Selenium	mg/L														0.0001 J	0.0002 J	0.0001 J	0.005 U
Silver	mg/L																	0.001 U
Sodium	mg/L	290	330		1100	1100	1000	980	980	1000	1100	2400	2500	2600			64.6	52
Strontium	mg/L																3.08	3.6
Sulfate	mg/L	140	230		110	120	100	110	94	92	96	19	43	47	1610	1810	1610	2200
Temperature, Field	deg C	13	13	16.7				13	14	14	16	14	14	15	16.53	15.4	12.1	
Thallium	mg/L														0.000598	0.00033	9E-05 J	0.001 U
Turbidity, Field	NTU	23.3	5.3	184.3	46.5		69	85.3	26	43.6	11.7	1.2	2.7	0	42.4	9.6	9.2	6.1
Vanadium	mg/L																	
Zinc	mg/L																	0.02 U

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Analytical Data Summary
Fly Ash Reservoir & Residual Waste Landfill
Gavin Power Plant

	Program Location Date	FEDERAL MW-20 2017-06-06	FEDERAL MW-20 2017-07-14	FEDERAL MW-20 2018-03-26	FEDERAL MW-20 2019-09-19	FEDERAL MW-20 2020-03-15	FEDERAL MW-20 2020-03-24	FEDERAL MW-20 2020-09-15	FEDERAL MW-20 2021-03-19	FEDERAL MW-20 2021-09-20
Analyte	Sample Type Unit	N	N	N	N	N	N	N	N	N
Alkalinity, Total as CaCO3	mg/L				150	170	170	160	160	170
Aluminum	mg/L	0.043 J	0.15							
Antimony	mg/L	0.002 U	0.002 U							
Arsenic	mg/L	0.0086	0.013							
Barium	mg/L	0.027	0.029							
Beryllium	mg/L	0.00055 J	0.00088 J							
Bicarbonate Alkalinity as CaCO3	mg/L				150	170	170	160	160	170
Bicarbonate Alkalinity as HCO3	mg/L									
Boron	mg/L	0.19 B	0.15		0.12	0.19 U	0.16	0.1	0.23	0.099 J
Bromide	mg/L	0.5 U	5 U							
Cadmium	mg/L	0.001 U	0.001 U							
Calcium	mg/L	500	500		470	470	470	450	420	440
Carbonate Alkalinity as CaCO3	mg/L				5 U	5 U	5 U	5 U	5 U	5 U
Chloride	mg/L	6.5	8.2 J		1.9	2	2.1	1.8	1.8	1.8
Chromium	mg/L	0.0018 J	0.0025							
Cobalt	mg/L	0.13	0.14							
Conductivity, Field	uS/cm			2817		2523	2455	2402	2428	2360
Copper	mg/L	0.002 U	0.002 U							
Dissolved Oxygen, Field	mg/L			1.76						
Dissolved Solids, Total	mg/L	2600	2600 J		2600	2500 J	2100	2100	2300	2100
Fluoride	mg/L	0.93	0.9		1.3	1.3	1.2	1.3	1.3	1.4
Iron	mg/L	32	37							
Lead	mg/L	0.001 U	0.00089 J							
Lithium	mg/L	0.16	0.16							
Magnesium	mg/L	100	110		110	110	110	100	94	100
Manganese	mg/L	15	16							
Mercury	mg/L	0.0002 U	0.0002 U							
Molybdenum	mg/L	0.002 J	0.0027 J							
Nickel	mg/L	0.11	0.12							
pH, Field	pH units	6.52	6.51	6.56	6.35	6.4	6.81	6.36	6.38	6.37
Potassium	mg/L	7.8	8		6.4	6.4	6.4	5.6	5.3	5.4
Radium-226	pCi/L	0.192	0.327							
Radium-226/228	pCi/L	0.425	0.73							
Radium-228	pCi/L	0.234 U	0.404							
Redox Potential, Field	mV									
Selenium	mg/L	0.005 U	0.0015 J							
Silver	mg/L	0.001 U	0.001 U							
Sodium	mg/L	51 B	53 B		26	28	28	27	25	24
Strontium	mg/L	3.3 B	3.2 B							
Sulfate	mg/L	1700	1600		1700	1800	1700	1500	1500	1600
Temperature, Field	deg C			12.4		12	13	14	13	14
Thallium	mg/L	0.001 U	0.001 U							
Turbidity, Field	NTU	1.4	4.8	1	67	456	248	123	75.1	173
Vanadium	mg/L									
Zinc	mg/L	0.02	0.038							

Notes:

FD = Field duplicate sample
N = Normal environmental sample
deg C = Degree Celcius
mg/L = Milligrams per liter
mV = Millivolts
NTU = Nephelometric Turbidity Unit
uS/cm = Microsiemens per centimeter
pCi/L = Picocuries per liter
B: Compound was found in the blank and sample.
J: Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
U: Indicates the analyte was analyzed for but not detected.
Empty cells = Not analyzed

APPENDIX B LABORATORY REPORTS

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-145866-1
Client Project/Site: Gavin CCR

For:

Lightstone Generation Gavin Power LLC
7397 OH-7
Cheshire, Ohio 45620

Attn: Taylor Huffman

Roxanne Cisneros

*Authorized for release by:
3/26/2021 1:13:15 PM*

Roxanne Cisneros, Senior Project Manager
(615)301-5761
roxanne.cisneros@Eurofinset.com

LINKS

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results through
Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-145866-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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

Case Narrative

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-145866-1

Job ID: 240-145866-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative
240-145866-1

Comments

No additional comments.

Receipt

The sample was received on 3/13/2021 8:00 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.1° C.

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.

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Method Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-145866-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL CAN
6020	Metals (ICP/MS)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-145866-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-145866-1	96152	Water	03/10/21 13:28	03/13/21 08:00	

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Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-145866-1

Client Sample ID: 96152

Lab Sample ID: 240-145866-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	450		100	23	ug/L	1		6010B	Total Recoverable
Calcium	43000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	16000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	8900		1000	220	ug/L	1		6020	Total Recoverable
Sodium	2000000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	560		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	560		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	3200		25	7.1	mg/L	25		300.0	Total/NA
Fluoride	0.72		0.25	0.12	mg/L	5		300.0	Total/NA
Sulfate	27		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	5100		50	39	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton



Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-145866-1

Client Sample ID: 96152

Lab Sample ID: 240-145866-1

Date Collected: 03/10/21 13:28

Matrix: Water

Date Received: 03/13/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	450		100	23	ug/L		03/15/21 14:00	03/17/21 20:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	43000		1000	580	ug/L		03/15/21 14:00	03/16/21 13:04	1
Magnesium	16000		1000	200	ug/L		03/15/21 14:00	03/16/21 13:04	1
Potassium	8900		1000	220	ug/L		03/15/21 14:00	03/16/21 13:04	1
Sodium	2000000		1000	330	ug/L		03/15/21 14:00	03/16/21 13:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	560		5.0	2.6	mg/L			03/22/21 19:39	1
Bicarbonate Alkalinity as CaCO3	560		5.0	2.6	mg/L			03/22/21 19:39	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/22/21 19:39	1
Chloride	3200		25	7.1	mg/L			03/17/21 23:04	25
Fluoride	0.72		0.25	0.12	mg/L			03/17/21 22:44	5
Sulfate	27		5.0	1.7	mg/L			03/17/21 22:44	5
Total Dissolved Solids	5100		50	39	mg/L			03/16/21 07:25	1

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-145866-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-476792/1-A
 Matrix: Water
 Analysis Batch: 477269

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 476792

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100	23	ug/L		03/15/21 14:00	03/17/21 19:22	1

Lab Sample ID: LCS 240-476792/2-A
 Matrix: Water
 Analysis Batch: 477269

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 476792

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1000	1060		ug/L		106	80 - 120

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-476792/1-A
 Matrix: Water
 Analysis Batch: 477108

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 476792

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000	580	ug/L		03/15/21 14:00	03/16/21 12:22	1
Magnesium	1000	U	1000	200	ug/L		03/15/21 14:00	03/16/21 12:22	1
Potassium	1000	U	1000	220	ug/L		03/15/21 14:00	03/16/21 12:22	1
Sodium	1000	U	1000	330	ug/L		03/15/21 14:00	03/16/21 12:22	1

Lab Sample ID: LCS 240-476792/3-A
 Matrix: Water
 Analysis Batch: 477108

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 476792

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	25000	25900		ug/L		104	80 - 120
Magnesium	25000	25100		ug/L		100	80 - 120
Potassium	25000	25100		ug/L		100	80 - 120
Sodium	25000	25000		ug/L		100	80 - 120

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-477912/4
 Matrix: Water
 Analysis Batch: 477912

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	5.0	U	5.0	2.6	mg/L			03/22/21 19:19	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/22/21 19:19	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/22/21 19:19	1

Lab Sample ID: LCS 240-477912/3
 Matrix: Water
 Analysis Batch: 477912

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity	246	237		mg/L		96	86 - 123

Eurofins TestAmerica, Canton

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-145866-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-477213/3
 Matrix: Water
 Analysis Batch: 477213

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.28	mg/L			03/17/21 21:03	1
Fluoride	0.050	U	0.050	0.024	mg/L			03/17/21 21:03	1
Sulfate	1.0	U	1.0	0.35	mg/L			03/17/21 21:03	1

Lab Sample ID: LCS 240-477213/4
 Matrix: Water
 Analysis Batch: 477213

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.6		mg/L		99	90 - 110
Fluoride	2.50	2.38		mg/L		95	90 - 110
Sulfate	50.0	49.5		mg/L		99	90 - 110

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

Lab Sample ID: MB 240-476917/1
 Matrix: Water
 Analysis Batch: 476917

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	10	U	10	7.8	mg/L			03/16/21 07:25	1

Lab Sample ID: LCS 240-476917/2
 Matrix: Water
 Analysis Batch: 476917

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	245	238		mg/L		97	80 - 120

QC Association Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-145866-1

Metals

Prep Batch: 476792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-145866-1	96152	Total Recoverable	Water	3005A	
MB 240-476792/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-476792/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-476792/3-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 477108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-145866-1	96152	Total Recoverable	Water	6020	476792
MB 240-476792/1-A	Method Blank	Total Recoverable	Water	6020	476792
LCS 240-476792/3-A	Lab Control Sample	Total Recoverable	Water	6020	476792

Analysis Batch: 477269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-145866-1	96152	Total Recoverable	Water	6010B	476792
MB 240-476792/1-A	Method Blank	Total Recoverable	Water	6010B	476792
LCS 240-476792/2-A	Lab Control Sample	Total Recoverable	Water	6010B	476792

General Chemistry

Analysis Batch: 476917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-145866-1	96152	Total/NA	Water	SM 2540C	
MB 240-476917/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-476917/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 477213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-145866-1	96152	Total/NA	Water	300.0	
240-145866-1	96152	Total/NA	Water	300.0	
MB 240-477213/3	Method Blank	Total/NA	Water	300.0	
LCS 240-477213/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 477912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-145866-1	96152	Total/NA	Water	2320B-1997	
MB 240-477912/4	Method Blank	Total/NA	Water	2320B-1997	
LCS 240-477912/3	Lab Control Sample	Total/NA	Water	2320B-1997	

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-145866-1

Client Sample ID: 96152
Date Collected: 03/10/21 13:28
Date Received: 03/13/21 08:00

Lab Sample ID: 240-145866-1
Matrix: Water

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total Recoverable	Prep	3005A			476792	03/15/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	477269	03/17/21 20:33	DSH	TAL CAN
Total Recoverable	Prep	3005A			476792	03/15/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	477108	03/16/21 13:04	RKT	TAL CAN
Total/NA	Analysis	2320B-1997		1	477912	03/22/21 19:39	AGC	TAL CAN
Total/NA	Analysis	300.0		5	477213	03/17/21 22:44	JWW	TAL CAN
Total/NA	Analysis	300.0		25	477213	03/17/21 23:04	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	476917	03/16/21 07:25	AJ	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-145866-1

Laboratory: Eurofins TestAmerica, Canton

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-21 *
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-21 *
Illinois	NELAP	004498	07-31-21
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21 *
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

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

**Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility**

Login # : _____

Client LightStone GAVIN Site Name _____


Cooler Received on 3-13-21 Opened on 3-13-21

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Cooler unpacked by:
Adam Garrett

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # JA Foam Box Client Cooler Box Other _____
 Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-11 (CF +0.1 °C) Observed Cooler Temp. 10 °C Corrected Cooler Temp. 11 °C
 IR GUN #IR-12 (CF +0.2°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 ea Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
 -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC022887
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials?  ← Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
17. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
 Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19. SAMPLE CONDITION
 Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION
 Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____
 VOA Sample Preservation - Date/Time VOAs Frozen: _____



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- 12
- 13

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>		<u>Preservative</u>	
			<u>pH</u>	<u>Temp</u>	<u>Added (mls)</u>	<u>Lot #</u>
96152	240-145866-C-1	Plastic 500ml - with Nitric Acid	<2			

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-146081-1
Client Project/Site: Gavin CCR

For:
Lightstone Generation Gavin Power LLC
7397 OH-7
Cheshire, Ohio 45620

Attn: Taylor Huffman

Roxanne Cisneros

*Authorized for release by:
3/25/2021 2:17:23 PM*

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Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146081-1

Qualifiers

Metals

Qualifier	Qualifier Description
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.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Case Narrative

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146081-1

Job ID: 240-146081-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

**Job Narrative
240-146081-1**

Comments

No additional comments.

Receipt

The samples were received on 3/18/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 0.2° C, 0.5° C, 0.6° C, 3.6° C, 3.7° C and 5.1° C.

Metals

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

General Chemistry

Method 300.0: The following samples were diluted due to the nature of the sample matrix: 2019-02 (240-146081-4) and DUPLICATE #2 (2019-02) (240-146081-5). 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.

Method Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146081-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL CAN
6020	Metals (ICP/MS)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146081-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-146081-1	BOTTOM ASH	Water	03/15/21 12:55	03/18/21 08:00	
240-146081-2	RECLAIM POND	Water	03/15/21 13:00	03/18/21 08:00	
240-146081-3	RIVER	Water	03/15/21 13:30	03/18/21 08:00	
240-146081-4	2019-02	Water	03/16/21 09:10	03/18/21 08:00	
240-146081-5	DUPLICATE #2 (2019-02)	Water	03/16/21 09:10	03/18/21 08:00	
240-146081-6	2019-06	Water	03/16/21 10:13	03/18/21 08:00	
240-146081-7	2016-03	Water	03/16/21 13:07	03/18/21 08:00	

Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146081-1

Client Sample ID: BOTTOM ASH

Lab Sample ID: 240-146081-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	410	B	100	23	ug/L	1		6010B	Total Recoverable
Calcium	110000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	22000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	7500		1000	220	ug/L	1		6020	Total Recoverable
Sodium	73000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	70		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	70		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	130		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.38		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	300		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	720		10	7.8	mg/L	1		SM 2540C	Total/NA

Client Sample ID: RECLAIM POND

Lab Sample ID: 240-146081-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	370	B	100	23	ug/L	1		6010B	Total Recoverable
Calcium	98000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	22000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	5300		1000	220	ug/L	1		6020	Total Recoverable
Sodium	70000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	68		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	68		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	120		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.38		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	300		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	690		10	7.8	mg/L	1		SM 2540C	Total/NA

Client Sample ID: RIVER

Lab Sample ID: 240-146081-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	39	J B	100	23	ug/L	1		6010B	Total Recoverable
Calcium	28000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	7400		1000	200	ug/L	1		6020	Total Recoverable
Potassium	2100		1000	220	ug/L	1		6020	Total Recoverable
Sodium	18000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	54		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	54		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	27		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.090	F1	0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	45		1.0	0.35	mg/L	1		300.0	Total/NA
Total Dissolved Solids	190		10	7.8	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146081-1

Client Sample ID: 2019-02

Lab Sample ID: 240-146081-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	31	J B	100	23	ug/L	1		6010B	Total Recoverable
Calcium	240000		1000	580	ug/L	1		6020	Total Recoverable
Potassium	21000		1000	220	ug/L	1		6020	Total Recoverable
Sodium	530000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	1700		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	53		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	190		5.0	1.4	mg/L	5		300.0	Total/NA
Fluoride	0.73		0.25	0.12	mg/L	5		300.0	Total/NA
Sulfate	3.0	J	5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	1700		50	39	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUPLICATE #2 (2019-02)

Lab Sample ID: 240-146081-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	31	J B	100	23	ug/L	1		6010B	Total Recoverable
Calcium	250000		1000	580	ug/L	1		6020	Total Recoverable
Potassium	21000		1000	220	ug/L	1		6020	Total Recoverable
Sodium	540000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	1700		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	52		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	180		5.0	1.4	mg/L	5		300.0	Total/NA
Fluoride	0.70		0.25	0.12	mg/L	5		300.0	Total/NA
Sulfate	2.8	J	5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	1800		50	39	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 2019-06

Lab Sample ID: 240-146081-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	280	B	100	23	ug/L	1		6010B	Total Recoverable
Calcium	72000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	21000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	7200		1000	220	ug/L	1		6020	Total Recoverable
Sodium	2300000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	180		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	180		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	3800		50	14	mg/L	50		300.0	Total/NA
Fluoride	1.3		0.25	0.12	mg/L	5		300.0	Total/NA
Sulfate	710		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	7400		100	78	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146081-1

Client Sample ID: 2016-03

Lab Sample ID: 240-146081-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	1700	B	100	23	ug/L	1		6010B	Total Recoverable
Calcium	370000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	94000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	7200		1000	220	ug/L	1		6020	Total Recoverable
Sodium	130000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	340		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	340		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	38		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.18		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	1300		10	3.5	mg/L	10		300.0	Total/NA
Total Dissolved Solids	2100		20	16	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton



Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146081-1

Client Sample ID: BOTTOM ASH

Lab Sample ID: 240-146081-1

Date Collected: 03/15/21 12:55

Matrix: Water

Date Received: 03/18/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	410	B	100	23	ug/L		03/19/21 14:00	03/22/21 14:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	110000		1000	580	ug/L		03/19/21 14:00	03/23/21 16:11	1
Magnesium	22000		1000	200	ug/L		03/19/21 14:00	03/23/21 16:11	1
Potassium	7500		1000	220	ug/L		03/19/21 14:00	03/23/21 16:11	1
Sodium	73000		1000	330	ug/L		03/19/21 14:00	03/23/21 16:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	70		5.0	2.6	mg/L			03/23/21 20:20	1
Bicarbonate Alkalinity as CaCO3	70		5.0	2.6	mg/L			03/23/21 20:20	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/23/21 20:20	1
Chloride	130		1.0	0.28	mg/L			03/24/21 07:35	1
Fluoride	0.38		0.050	0.024	mg/L			03/24/21 07:35	1
Sulfate	300		5.0	1.7	mg/L			03/24/21 07:57	5
Total Dissolved Solids	720		10	7.8	mg/L			03/19/21 09:28	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146081-1

Client Sample ID: RECLAIM POND

Lab Sample ID: 240-146081-2

Date Collected: 03/15/21 13:00

Matrix: Water

Date Received: 03/18/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	370	B	100	23	ug/L		03/19/21 14:00	03/22/21 14:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	98000		1000	580	ug/L		03/19/21 14:00	03/23/21 16:14	1
Magnesium	22000		1000	200	ug/L		03/19/21 14:00	03/23/21 16:14	1
Potassium	5300		1000	220	ug/L		03/19/21 14:00	03/23/21 16:14	1
Sodium	70000		1000	330	ug/L		03/19/21 14:00	03/23/21 16:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	68		5.0	2.6	mg/L			03/23/21 20:26	1
Bicarbonate Alkalinity as CaCO3	68		5.0	2.6	mg/L			03/23/21 20:26	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/23/21 20:26	1
Chloride	120		1.0	0.28	mg/L			03/24/21 08:19	1
Fluoride	0.38		0.050	0.024	mg/L			03/24/21 08:19	1
Sulfate	300		5.0	1.7	mg/L			03/24/21 09:24	5
Total Dissolved Solids	690		10	7.8	mg/L			03/19/21 09:28	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146081-1

Client Sample ID: RIVER

Lab Sample ID: 240-146081-3

Date Collected: 03/15/21 13:30

Matrix: Water

Date Received: 03/18/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	39	J B	100	23	ug/L		03/19/21 14:00	03/22/21 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	28000		1000	580	ug/L		03/19/21 14:00	03/23/21 16:16	1
Magnesium	7400		1000	200	ug/L		03/19/21 14:00	03/23/21 16:16	1
Potassium	2100		1000	220	ug/L		03/19/21 14:00	03/23/21 16:16	1
Sodium	18000		1000	330	ug/L		03/19/21 14:00	03/23/21 16:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	54		5.0	2.6	mg/L			03/23/21 20:30	1
Bicarbonate Alkalinity as CaCO3	54		5.0	2.6	mg/L			03/23/21 20:30	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/23/21 20:30	1
Chloride	27		1.0	0.28	mg/L			03/24/21 09:45	1
Fluoride	0.090	F1	0.050	0.024	mg/L			03/24/21 09:45	1
Sulfate	45		1.0	0.35	mg/L			03/24/21 09:45	1
Total Dissolved Solids	190		10	7.8	mg/L			03/19/21 09:28	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146081-1

Client Sample ID: 2019-02
Date Collected: 03/16/21 09:10
Date Received: 03/18/21 08:00

Lab Sample ID: 240-146081-4
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	31	J B	100	23	ug/L		03/19/21 14:00	03/22/21 15:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	240000		1000	580	ug/L		03/19/21 14:00	03/23/21 16:19	1
Magnesium	1000	U	1000	200	ug/L		03/19/21 14:00	03/23/21 16:19	1
Potassium	21000		1000	220	ug/L		03/19/21 14:00	03/23/21 16:19	1
Sodium	530000		1000	330	ug/L		03/19/21 14:00	03/23/21 16:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	1700		5.0	2.6	mg/L			03/24/21 22:48	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/24/21 22:48	1
Carbonate Alkalinity as CaCO3	53		5.0	2.6	mg/L			03/24/21 22:48	1
Chloride	190		5.0	1.4	mg/L			03/24/21 10:50	5
Fluoride	0.73		0.25	0.12	mg/L			03/24/21 10:50	5
Sulfate	3.0	J	5.0	1.7	mg/L			03/24/21 10:50	5
Total Dissolved Solids	1700		50	39	mg/L			03/22/21 09:01	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146081-1

Client Sample ID: DUPLICATE #2 (2019-02)

Lab Sample ID: 240-146081-5

Date Collected: 03/16/21 09:10

Matrix: Water

Date Received: 03/18/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	31	J B	100	23	ug/L		03/19/21 14:00	03/22/21 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	250000		1000	580	ug/L		03/19/21 14:00	03/23/21 16:21	1
Magnesium	1000	U	1000	200	ug/L		03/19/21 14:00	03/23/21 16:21	1
Potassium	21000		1000	220	ug/L		03/19/21 14:00	03/23/21 16:21	1
Sodium	540000		1000	330	ug/L		03/19/21 14:00	03/23/21 16:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	1700		5.0	2.6	mg/L			03/24/21 22:58	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/24/21 22:58	1
Carbonate Alkalinity as CaCO3	52		5.0	2.6	mg/L			03/24/21 22:58	1
Chloride	180		5.0	1.4	mg/L			03/24/21 11:34	5
Fluoride	0.70		0.25	0.12	mg/L			03/24/21 11:34	5
Sulfate	2.8	J	5.0	1.7	mg/L			03/24/21 11:34	5
Total Dissolved Solids	1800		50	39	mg/L			03/22/21 09:01	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146081-1

Client Sample ID: 2019-06
 Date Collected: 03/16/21 10:13
 Date Received: 03/18/21 08:00

Lab Sample ID: 240-146081-6
 Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	280	B	100	23	ug/L		03/19/21 14:00	03/22/21 15:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	72000		1000	580	ug/L		03/19/21 14:00	03/23/21 16:24	1
Magnesium	21000		1000	200	ug/L		03/19/21 14:00	03/23/21 16:24	1
Potassium	7200		1000	220	ug/L		03/19/21 14:00	03/23/21 16:24	1
Sodium	2300000		1000	330	ug/L		03/19/21 14:00	03/23/21 16:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	180		5.0	2.6	mg/L			03/24/21 23:03	1
Bicarbonate Alkalinity as CaCO3	180		5.0	2.6	mg/L			03/24/21 23:03	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/24/21 23:03	1
Chloride	3800		50	14	mg/L			03/24/21 12:39	50
Fluoride	1.3		0.25	0.12	mg/L			03/24/21 12:17	5
Sulfate	710		5.0	1.7	mg/L			03/24/21 12:17	5
Total Dissolved Solids	7400		100	78	mg/L			03/22/21 09:01	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146081-1

Client Sample ID: 2016-03

Lab Sample ID: 240-146081-7

Date Collected: 03/16/21 13:07

Matrix: Water

Date Received: 03/18/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1700	B	100	23	ug/L		03/19/21 14:00	03/22/21 15:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	370000		1000	580	ug/L		03/19/21 14:00	03/23/21 16:26	1
Magnesium	94000		1000	200	ug/L		03/19/21 14:00	03/23/21 16:26	1
Potassium	7200		1000	220	ug/L		03/19/21 14:00	03/23/21 16:26	1
Sodium	130000		1000	330	ug/L		03/19/21 14:00	03/23/21 16:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	340		5.0	2.6	mg/L			03/24/21 23:08	1
Bicarbonate Alkalinity as CaCO3	340		5.0	2.6	mg/L			03/24/21 23:08	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/24/21 23:08	1
Chloride	38		1.0	0.28	mg/L			03/24/21 13:44	1
Fluoride	0.18		0.050	0.024	mg/L			03/24/21 13:44	1
Sulfate	1300		10	3.5	mg/L			03/24/21 14:06	10
Total Dissolved Solids	2100		20	16	mg/L			03/22/21 09:01	1

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146081-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-477468/1-A
 Matrix: Water
 Analysis Batch: 477805

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 477468

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	25.6	J	100	23	ug/L		03/19/21 14:00	03/22/21 13:24	1

Lab Sample ID: LCS 240-477468/2-A
 Matrix: Water
 Analysis Batch: 477805

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 477468

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1000	1040		ug/L		104	80 - 120

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-477468/1-A
 Matrix: Water
 Analysis Batch: 477800

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 477468

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000	580	ug/L		03/19/21 14:00	03/22/21 14:57	1
Magnesium	1000	U	1000	200	ug/L		03/19/21 14:00	03/22/21 14:57	1
Potassium	1000	U	1000	220	ug/L		03/19/21 14:00	03/22/21 14:57	1
Sodium	1000	U	1000	330	ug/L		03/19/21 14:00	03/22/21 14:57	1

Lab Sample ID: LCS 240-477468/3-A
 Matrix: Water
 Analysis Batch: 477800

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 477468

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	25000	25000		ug/L		100	80 - 120
Magnesium	25000	24700		ug/L		99	80 - 120
Potassium	25000	24500		ug/L		98	80 - 120
Sodium	25000	24700		ug/L		99	80 - 120

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-477921/4
 Matrix: Water
 Analysis Batch: 477921

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	5.0	U	5.0	2.6	mg/L			03/23/21 19:00	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/23/21 19:00	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/23/21 19:00	1

Lab Sample ID: LCS 240-477921/3
 Matrix: Water
 Analysis Batch: 477921

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity	246	239		mg/L		97	86 - 123

Eurofins TestAmerica, Canton

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146081-1

Method: 2320B-1997 - Alkalinity, Total (Continued)

Lab Sample ID: MB 240-478279/4
 Matrix: Water
 Analysis Batch: 478279

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Alkalinity	5.0	U	5.0	2.6	mg/L			03/24/21 22:25	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/24/21 22:25	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/24/21 22:25	1

Lab Sample ID: LCS 240-478279/3
 Matrix: Water
 Analysis Batch: 478279

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-477918/3
 Matrix: Water
 Analysis Batch: 477918

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	1.0	U	1.0	0.28	mg/L			03/24/21 00:43	1
Fluoride	0.050	U	0.050	0.024	mg/L			03/24/21 00:43	1
Sulfate	1.0	U	1.0	0.35	mg/L			03/24/21 00:43	1

Lab Sample ID: LCS 240-477918/4
 Matrix: Water
 Analysis Batch: 477918

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	2.50	2.66		mg/L		106	90 - 110
Sulfate	50.0	50.4		mg/L		101	90 - 110

Lab Sample ID: 240-146081-3 MS
 Matrix: Water
 Analysis Batch: 477918

Client Sample ID: RIVER
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.090	F1	2.50	3.02		mg/L		117	80 - 120
Sulfate	45		50.0	97.3		mg/L		105	80 - 120

Lab Sample ID: 240-146081-3 MSD
 Matrix: Water
 Analysis Batch: 477918

Client Sample ID: RIVER
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.090	F1	2.50	3.10	F1	mg/L		121	80 - 120	3	15
Sulfate	45		50.0	99.2		mg/L		109	80 - 120	2	15

Eurofins TestAmerica, Canton

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146081-1

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

Lab Sample ID: MB 240-477474/1
Matrix: Water
Analysis Batch: 477474

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	10	U	10	7.8	mg/L			03/19/21 09:28	1

Lab Sample ID: LCS 240-477474/2
Matrix: Water
Analysis Batch: 477474

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	245	256		mg/L		104	80 - 120

Lab Sample ID: MB 240-477648/1
Matrix: Water
Analysis Batch: 477648

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	10	U	10	7.8	mg/L			03/22/21 09:01	1

Lab Sample ID: LCS 240-477648/2
Matrix: Water
Analysis Batch: 477648

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	245	251		mg/L		102	80 - 120

QC Association Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146081-1

Metals

Prep Batch: 477468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146081-1	BOTTOM ASH	Total Recoverable	Water	3005A	
240-146081-2	RECLAIM POND	Total Recoverable	Water	3005A	
240-146081-3	RIVER	Total Recoverable	Water	3005A	
240-146081-4	2019-02	Total Recoverable	Water	3005A	
240-146081-5	DUPLICATE #2 (2019-02)	Total Recoverable	Water	3005A	
240-146081-6	2019-06	Total Recoverable	Water	3005A	
240-146081-7	2016-03	Total Recoverable	Water	3005A	
MB 240-477468/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-477468/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-477468/3-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 477800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-477468/1-A	Method Blank	Total Recoverable	Water	6020	477468
LCS 240-477468/3-A	Lab Control Sample	Total Recoverable	Water	6020	477468

Analysis Batch: 477805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146081-1	BOTTOM ASH	Total Recoverable	Water	6010B	477468
240-146081-2	RECLAIM POND	Total Recoverable	Water	6010B	477468
240-146081-3	RIVER	Total Recoverable	Water	6010B	477468
240-146081-4	2019-02	Total Recoverable	Water	6010B	477468
240-146081-5	DUPLICATE #2 (2019-02)	Total Recoverable	Water	6010B	477468
240-146081-6	2019-06	Total Recoverable	Water	6010B	477468
240-146081-7	2016-03	Total Recoverable	Water	6010B	477468
MB 240-477468/1-A	Method Blank	Total Recoverable	Water	6010B	477468
LCS 240-477468/2-A	Lab Control Sample	Total Recoverable	Water	6010B	477468

Analysis Batch: 477974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146081-1	BOTTOM ASH	Total Recoverable	Water	6020	477468
240-146081-2	RECLAIM POND	Total Recoverable	Water	6020	477468
240-146081-3	RIVER	Total Recoverable	Water	6020	477468
240-146081-4	2019-02	Total Recoverable	Water	6020	477468
240-146081-5	DUPLICATE #2 (2019-02)	Total Recoverable	Water	6020	477468
240-146081-6	2019-06	Total Recoverable	Water	6020	477468
240-146081-7	2016-03	Total Recoverable	Water	6020	477468

General Chemistry

Analysis Batch: 477474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146081-1	BOTTOM ASH	Total/NA	Water	SM 2540C	
240-146081-2	RECLAIM POND	Total/NA	Water	SM 2540C	
240-146081-3	RIVER	Total/NA	Water	SM 2540C	
MB 240-477474/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-477474/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 477648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146081-4	2019-02	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146081-1

General Chemistry (Continued)

Analysis Batch: 477648 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146081-5	DUPLICATE #2 (2019-02)	Total/NA	Water	SM 2540C	
240-146081-6	2019-06	Total/NA	Water	SM 2540C	
240-146081-7	2016-03	Total/NA	Water	SM 2540C	
MB 240-477648/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-477648/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 477918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146081-1	BOTTOM ASH	Total/NA	Water	300.0	
240-146081-1	BOTTOM ASH	Total/NA	Water	300.0	
240-146081-2	RECLAIM POND	Total/NA	Water	300.0	
240-146081-2	RECLAIM POND	Total/NA	Water	300.0	
240-146081-3	RIVER	Total/NA	Water	300.0	
240-146081-4	2019-02	Total/NA	Water	300.0	
240-146081-5	DUPLICATE #2 (2019-02)	Total/NA	Water	300.0	
240-146081-6	2019-06	Total/NA	Water	300.0	
240-146081-6	2019-06	Total/NA	Water	300.0	
240-146081-7	2016-03	Total/NA	Water	300.0	
240-146081-7	2016-03	Total/NA	Water	300.0	
MB 240-477918/3	Method Blank	Total/NA	Water	300.0	
LCS 240-477918/4	Lab Control Sample	Total/NA	Water	300.0	
240-146081-3 MS	RIVER	Total/NA	Water	300.0	
240-146081-3 MSD	RIVER	Total/NA	Water	300.0	

Analysis Batch: 477921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146081-1	BOTTOM ASH	Total/NA	Water	2320B-1997	
240-146081-2	RECLAIM POND	Total/NA	Water	2320B-1997	
240-146081-3	RIVER	Total/NA	Water	2320B-1997	
MB 240-477921/4	Method Blank	Total/NA	Water	2320B-1997	
LCS 240-477921/3	Lab Control Sample	Total/NA	Water	2320B-1997	

Analysis Batch: 478279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146081-4	2019-02	Total/NA	Water	2320B-1997	
240-146081-5	DUPLICATE #2 (2019-02)	Total/NA	Water	2320B-1997	
240-146081-6	2019-06	Total/NA	Water	2320B-1997	
240-146081-7	2016-03	Total/NA	Water	2320B-1997	
MB 240-478279/4	Method Blank	Total/NA	Water	2320B-1997	
LCS 240-478279/3	Lab Control Sample	Total/NA	Water	2320B-1997	

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146081-1

Client Sample ID: BOTTOM ASH

Lab Sample ID: 240-146081-1

Date Collected: 03/15/21 12:55

Matrix: Water

Date Received: 03/18/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			477468	03/19/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	477805	03/22/21 14:44	KLC	TAL CAN
Total Recoverable	Prep	3005A			477468	03/19/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	477974	03/23/21 16:11	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	477921	03/23/21 20:20	AGC	TAL CAN
Total/NA	Analysis	300.0		1	477918	03/24/21 07:35	JWW	TAL CAN
Total/NA	Analysis	300.0		5	477918	03/24/21 07:57	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	477474	03/19/21 09:28	AJ	TAL CAN

Client Sample ID: RECLAIM POND

Lab Sample ID: 240-146081-2

Date Collected: 03/15/21 13:00

Matrix: Water

Date Received: 03/18/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			477468	03/19/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	477805	03/22/21 14:49	KLC	TAL CAN
Total Recoverable	Prep	3005A			477468	03/19/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	477974	03/23/21 16:14	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	477921	03/23/21 20:26	AGC	TAL CAN
Total/NA	Analysis	300.0		1	477918	03/24/21 08:19	JWW	TAL CAN
Total/NA	Analysis	300.0		5	477918	03/24/21 09:24	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	477474	03/19/21 09:28	AJ	TAL CAN

Client Sample ID: RIVER

Lab Sample ID: 240-146081-3

Date Collected: 03/15/21 13:30

Matrix: Water

Date Received: 03/18/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			477468	03/19/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	477805	03/22/21 14:53	KLC	TAL CAN
Total Recoverable	Prep	3005A			477468	03/19/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	477974	03/23/21 16:16	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	477921	03/23/21 20:30	AGC	TAL CAN
Total/NA	Analysis	300.0		1	477918	03/24/21 09:45	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	477474	03/19/21 09:28	AJ	TAL CAN

Client Sample ID: 2019-02

Lab Sample ID: 240-146081-4

Date Collected: 03/16/21 09:10

Matrix: Water

Date Received: 03/18/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			477468	03/19/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	477805	03/22/21 15:05	KLC	TAL CAN

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146081-1

Client Sample ID: 2019-02

Lab Sample ID: 240-146081-4

Date Collected: 03/16/21 09:10

Matrix: Water

Date Received: 03/18/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			477468	03/19/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	477974	03/23/21 16:19	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	478279	03/24/21 22:48	JMB	TAL CAN
Total/NA	Analysis	300.0		5	477918	03/24/21 10:50	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	477648	03/22/21 09:01	AJ	TAL CAN

Client Sample ID: DUPLICATE #2 (2019-02)

Lab Sample ID: 240-146081-5

Date Collected: 03/16/21 09:10

Matrix: Water

Date Received: 03/18/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			477468	03/19/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	477805	03/22/21 15:10	KLC	TAL CAN
Total Recoverable	Prep	3005A			477468	03/19/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	477974	03/23/21 16:21	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	478279	03/24/21 22:58	JMB	TAL CAN
Total/NA	Analysis	300.0		5	477918	03/24/21 11:34	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	477648	03/22/21 09:01	AJ	TAL CAN

Client Sample ID: 2019-06

Lab Sample ID: 240-146081-6

Date Collected: 03/16/21 10:13

Matrix: Water

Date Received: 03/18/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			477468	03/19/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	477805	03/22/21 15:15	KLC	TAL CAN
Total Recoverable	Prep	3005A			477468	03/19/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	477974	03/23/21 16:24	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	478279	03/24/21 23:03	JMB	TAL CAN
Total/NA	Analysis	300.0		5	477918	03/24/21 12:17	JWW	TAL CAN
Total/NA	Analysis	300.0		50	477918	03/24/21 12:39	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	477648	03/22/21 09:01	AJ	TAL CAN

Client Sample ID: 2016-03

Lab Sample ID: 240-146081-7

Date Collected: 03/16/21 13:07

Matrix: Water

Date Received: 03/18/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			477468	03/19/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	477805	03/22/21 15:19	KLC	TAL CAN
Total Recoverable	Prep	3005A			477468	03/19/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	477974	03/23/21 16:26	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	478279	03/24/21 23:08	JMB	TAL CAN
Total/NA	Analysis	300.0		1	477918	03/24/21 13:44	JWW	TAL CAN

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Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146081-1

Client Sample ID: 2016-03

Lab Sample ID: 240-146081-7

Date Collected: 03/16/21 13:07

Matrix: Water

Date Received: 03/18/21 08:00

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Analysis	300.0		10	477918	03/24/21 14:06	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	477648	03/22/21 09:01	AJ	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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Accreditation/Certification Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146081-1

Laboratory: Eurofins TestAmerica, Canton

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-21 *
Illinois	NELAP	004498	07-31-21
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21 *
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

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

Eurofins TestAmerica, Canton


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Eurofins TestAmerica Canton Sample Receipt Form/Narrative Login # : 240-146681
Canton Facility

Client Lightstone Generation Co. Site Name _____ Cooler unpacked by: **MJS ETA CANTON**
 Cooler Received on **MAR 18 2021** Opened on **MAR 18 2021**
 FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # 14 Foam Box Client Cooler Box Other _____
 Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-11 (CF +0.1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN #IR-12 (CF +0.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 6 Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
 -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
 If yes, Questions 13-17 have been checked at the originating laboratory.
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC022887
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials?  ← Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
17. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Tests that are not checked for pH by Receiving:
 VOAs
 Oil and Grease
 TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other
 Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19. SAMPLE CONDITION
 Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION
 Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____
 VOA Sample Preservation - Date/Time VOAs Frozen: _____

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>		<u>Preservative</u>	
			<u>pH</u>	<u>Temp</u>	<u>Added (mls)</u>	<u>Lot #</u>
BOTTOM ASH	240-146081-C-1	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
RECLAIM POND	240-146081-C-2	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
RIVER	240-146081-C-3	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2019-02	240-146081-C-4	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
DUPLICATE #2 (2019-02)	240-146081-C-5	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2019-06	240-146081-C-6	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2019-03	240-146081-C-7	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-146232-1
Client Project/Site: Gavin CCR

For:

Lightstone Generation Gavin Power LLC
7397 OH-7
Cheshire, Ohio 45620

Attn: Taylor Huffman

Roxanne Cisneros

*Authorized for release by:
3/30/2021 4:15:09 PM*

Roxanne Cisneros, Senior Project Manager
(615)301-5761
roxanne.cisneros@Eurofinset.com

LINKS

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146232-1

Qualifiers

Metals

Qualifier	Qualifier Description
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.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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

Case Narrative

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146232-1

Job ID: 240-146232-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

**Job Narrative
240-146232-1**

Comments

No additional comments.

Receipt

The samples were received on 3/20/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4° C.

Metals

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

General Chemistry

Method 300.0: The following sample was diluted due to the nature of the sample matrix: 2016-10 (240-146232-3). 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.



Method Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146232-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL CAN
6020	Metals (ICP/MS)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CAN
7470A	Preparation, Mercury	SW846	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146232-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-146232-1	2016-06	Water	03/17/21 09:39	03/20/21 08:00	
240-146232-2	9910	Water	03/17/21 10:14	03/20/21 08:00	
240-146232-3	2016-10	Water	03/17/21 13:02	03/20/21 08:00	
240-146232-4	2016-11	Water	03/17/21 13:42	03/20/21 08:00	

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Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146232-1

Client Sample ID: 2016-06

Lab Sample ID: 240-146232-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	500	B	100	23	ug/L	1		6010B	Total Recoverable
Calcium	5000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	1400		1000	200	ug/L	1		6020	Total Recoverable
Potassium	2100		1000	220	ug/L	1		6020	Total Recoverable
Sodium	620000	B	1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	490		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	470		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	26		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	620		10	2.8	mg/L	10		300.0	Total/NA
Fluoride	5.1		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	96		1.0	0.35	mg/L	1		300.0	Total/NA
Total Dissolved Solids	1700		20	16	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 9910

Lab Sample ID: 240-146232-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	550	B	100	23	ug/L	1		6010B	Total Recoverable
Calcium	13000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	4300		1000	200	ug/L	1		6020	Total Recoverable
Potassium	3000		1000	220	ug/L	1		6020	Total Recoverable
Sodium	1000000	B	1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	870		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	870		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	810		5.0	1.4	mg/L	5		300.0	Total/NA
Fluoride	1.9		0.25	0.12	mg/L	5		300.0	Total/NA
Sulfate	92		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	2500		50	39	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 2016-10

Lab Sample ID: 240-146232-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	470	B	100	23	ug/L	1		6010B	Total Recoverable
Calcium	680000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	220000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	37000		1000	220	ug/L	1		6020	Total Recoverable
Sodium	7500000	B	5000	1600	ug/L	5		6020	Total Recoverable
Total Alkalinity	120		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	120		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	15000		100	28	mg/L	100		300.0	Total/NA
Sulfate	310		20	7.0	mg/L	20		300.0	Total/NA
Total Dissolved Solids	23000		1000	780	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146232-1

Client Sample ID: 2016-11

Lab Sample ID: 240-146232-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	480	B	100	23	ug/L	1		6010B	Total
									Recoverable
Calcium	120000		1000	580	ug/L	1		6020	Total
									Recoverable
Magnesium	41000		1000	200	ug/L	1		6020	Total
									Recoverable
Potassium	30000		1000	220	ug/L	1		6020	Total
									Recoverable
Sodium	3400000	B	5000	1600	ug/L	5		6020	Total
									Recoverable
Chloride	6000		50	14	mg/L	50		300.0	Total/NA
Fluoride	0.92		0.50	0.24	mg/L	10		300.0	Total/NA
Sulfate	380		10	3.5	mg/L	10		300.0	Total/NA
Total Dissolved Solids	9700		100	78	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton



Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146232-1

Client Sample ID: 2016-06

Lab Sample ID: 240-146232-1

Date Collected: 03/17/21 09:39

Matrix: Water

Date Received: 03/20/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	500	B	100	23	ug/L		03/22/21 14:00	03/23/21 18:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	5000		1000	580	ug/L		03/22/21 14:00	03/23/21 12:44	1
Magnesium	1400		1000	200	ug/L		03/22/21 14:00	03/23/21 12:44	1
Potassium	2100		1000	220	ug/L		03/22/21 14:00	03/23/21 12:44	1
Sodium	620000	B	1000	330	ug/L		03/22/21 14:00	03/23/21 13:15	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.13	ug/L		03/22/21 14:00	03/23/21 09:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	490		5.0	2.6	mg/L			03/26/21 13:06	1
Bicarbonate Alkalinity as CaCO3	470		5.0	2.6	mg/L			03/26/21 13:06	1
Carbonate Alkalinity as CaCO3	26		5.0	2.6	mg/L			03/26/21 13:06	1
Chloride	620		10	2.8	mg/L			03/27/21 03:46	10
Fluoride	5.1		0.050	0.024	mg/L			03/27/21 02:45	1
Sulfate	96		1.0	0.35	mg/L			03/27/21 02:45	1
Total Dissolved Solids	1700		20	16	mg/L			03/23/21 09:03	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146232-1

Client Sample ID: 9910

Lab Sample ID: 240-146232-2

Date Collected: 03/17/21 10:14

Matrix: Water

Date Received: 03/20/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	550	B	100	23	ug/L		03/22/21 14:00	03/23/21 18:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	13000		1000	580	ug/L		03/22/21 14:00	03/23/21 12:46	1
Magnesium	4300		1000	200	ug/L		03/22/21 14:00	03/23/21 12:46	1
Potassium	3000		1000	220	ug/L		03/22/21 14:00	03/23/21 12:46	1
Sodium	1000000	B	1000	330	ug/L		03/22/21 14:00	03/23/21 13:17	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.13	ug/L		03/22/21 14:00	03/23/21 09:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	870		5.0	2.6	mg/L			03/26/21 13:12	1
Bicarbonate Alkalinity as CaCO3	870		5.0	2.6	mg/L			03/26/21 13:12	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/26/21 13:12	1
Chloride	810		5.0	1.4	mg/L			03/27/21 04:06	5
Fluoride	1.9		0.25	0.12	mg/L			03/27/21 04:06	5
Sulfate	92		5.0	1.7	mg/L			03/27/21 04:06	5
Total Dissolved Solids	2500		50	39	mg/L			03/23/21 09:03	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146232-1

Client Sample ID: 2016-10

Lab Sample ID: 240-146232-3

Date Collected: 03/17/21 13:02

Matrix: Water

Date Received: 03/20/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	470	B	100	23	ug/L		03/22/21 14:00	03/23/21 19:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	680000		1000	580	ug/L		03/22/21 14:00	03/23/21 12:49	1
Magnesium	220000		1000	200	ug/L		03/22/21 14:00	03/23/21 12:49	1
Potassium	37000		1000	220	ug/L		03/22/21 14:00	03/23/21 12:49	1
Sodium	7500000	B	5000	1600	ug/L		03/22/21 14:00	03/23/21 13:24	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.13	ug/L		03/22/21 14:00	03/23/21 09:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	120		5.0	2.6	mg/L			03/26/21 13:17	1
Bicarbonate Alkalinity as CaCO3	120		5.0	2.6	mg/L			03/26/21 13:17	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/26/21 13:17	1
Chloride	15000		100	28	mg/L			03/27/21 05:46	100
Fluoride	1.0	U	1.0	0.48	mg/L			03/27/21 04:46	20
Sulfate	310		20	7.0	mg/L			03/27/21 04:46	20
Total Dissolved Solids	23000		1000	780	mg/L			03/23/21 09:03	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146232-1

Client Sample ID: 2016-11
Date Collected: 03/17/21 13:42
Date Received: 03/20/21 08:00

Lab Sample ID: 240-146232-4
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	480	B	100	23	ug/L		03/22/21 14:00	03/23/21 19:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	120000		1000	580	ug/L		03/22/21 14:00	03/23/21 12:51	1
Magnesium	41000		1000	200	ug/L		03/22/21 14:00	03/23/21 12:51	1
Potassium	30000		1000	220	ug/L		03/22/21 14:00	03/23/21 12:51	1
Sodium	3400000	B	5000	1600	ug/L		03/22/21 14:00	03/23/21 13:12	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.13	ug/L		03/22/21 14:00	03/23/21 09:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6000		50	14	mg/L			03/27/21 06:27	50
Fluoride	0.92		0.50	0.24	mg/L			03/27/21 06:06	10
Sulfate	380		10	3.5	mg/L			03/27/21 06:06	10
Total Dissolved Solids	9700		100	78	mg/L			03/23/21 09:03	1

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146232-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-477688/1-A
 Matrix: Water
 Analysis Batch: 477970

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 477688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	26.9	J	100	23	ug/L		03/22/21 14:00	03/23/21 18:44	1

Lab Sample ID: LCS 240-477688/2-A
 Matrix: Water
 Analysis Batch: 477970

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 477688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1000	1060		ug/L		106	80 - 120

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-477688/1-A
 Matrix: Water
 Analysis Batch: 477974

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 477688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000	580	ug/L		03/22/21 14:00	03/23/21 12:33	1
Magnesium	1000	U	1000	200	ug/L		03/22/21 14:00	03/23/21 12:33	1
Potassium	1000	U	1000	220	ug/L		03/22/21 14:00	03/23/21 12:33	1

Lab Sample ID: MB 240-477688/1-A
 Matrix: Water
 Analysis Batch: 477974

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 477688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	414	J	1000	330	ug/L		03/22/21 14:00	03/23/21 13:08	1

Lab Sample ID: LCS 240-477688/3-A
 Matrix: Water
 Analysis Batch: 477974

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 477688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	25000	22200		ug/L		89	80 - 120
Magnesium	25000	21500		ug/L		86	80 - 120
Potassium	25000	21000		ug/L		84	80 - 120

Lab Sample ID: LCS 240-477688/3-A
 Matrix: Water
 Analysis Batch: 477974

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 477688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	25000	22000		ug/L		88	80 - 120

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146232-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-477689/1-A
 Matrix: Water
 Analysis Batch: 477825

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 477689

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.13	ug/L		03/22/21 14:00	03/23/21 09:31	1

Lab Sample ID: LCS 240-477689/2-A
 Matrix: Water
 Analysis Batch: 477825

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 477689

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.19		ug/L		104	80 - 120

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-478678/4
 Matrix: Water
 Analysis Batch: 478678

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	5.0	U	5.0	2.6	mg/L			03/26/21 12:11	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/26/21 12:11	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/26/21 12:11	1

Lab Sample ID: LCS 240-478678/3
 Matrix: Water
 Analysis Batch: 478678

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity	246	243		mg/L		99	86 - 123

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-478522/3
 Matrix: Water
 Analysis Batch: 478522

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.28	mg/L			03/26/21 16:58	1
Fluoride	0.050	U	0.050	0.024	mg/L			03/26/21 16:58	1
Sulfate	1.0	U	1.0	0.35	mg/L			03/26/21 16:58	1

Lab Sample ID: LCS 240-478522/4
 Matrix: Water
 Analysis Batch: 478522

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.2		mg/L		100	90 - 110
Fluoride	2.50	2.51		mg/L		100	90 - 110
Sulfate	50.0	50.9		mg/L		102	90 - 110

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146232-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 240-146232-1 MS
Matrix: Water
Analysis Batch: 478522

Client Sample ID: 2016-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.1		2.50	7.45		mg/L		93	80 - 120
Sulfate	96		50.0	148		mg/L		104	80 - 120

Lab Sample ID: 240-146232-1 MSD
Matrix: Water
Analysis Batch: 478522

Client Sample ID: 2016-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	5.1		2.50	7.36		mg/L		90	80 - 120	1	15
Sulfate	96		50.0	143		mg/L		94	80 - 120	3	15

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

Lab Sample ID: MB 240-477814/1
Matrix: Water
Analysis Batch: 477814

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	10	U	10	7.8	mg/L			03/23/21 09:03	1

Lab Sample ID: LCS 240-477814/2
Matrix: Water
Analysis Batch: 477814

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	245	255		mg/L		104	80 - 120

QC Association Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146232-1

Metals

Prep Batch: 477688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146232-1	2016-06	Total Recoverable	Water	3005A	
240-146232-2	9910	Total Recoverable	Water	3005A	
240-146232-3	2016-10	Total Recoverable	Water	3005A	
240-146232-4	2016-11	Total Recoverable	Water	3005A	
MB 240-477688/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-477688/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-477688/3-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 477689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146232-1	2016-06	Total/NA	Water	7470A	
240-146232-2	9910	Total/NA	Water	7470A	
240-146232-3	2016-10	Total/NA	Water	7470A	
240-146232-4	2016-11	Total/NA	Water	7470A	
MB 240-477689/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-477689/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 477825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146232-1	2016-06	Total/NA	Water	7470A	477689
240-146232-2	9910	Total/NA	Water	7470A	477689
240-146232-3	2016-10	Total/NA	Water	7470A	477689
240-146232-4	2016-11	Total/NA	Water	7470A	477689
MB 240-477689/1-A	Method Blank	Total/NA	Water	7470A	477689
LCS 240-477689/2-A	Lab Control Sample	Total/NA	Water	7470A	477689

Analysis Batch: 477970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146232-1	2016-06	Total Recoverable	Water	6010B	477688
240-146232-2	9910	Total Recoverable	Water	6010B	477688
240-146232-3	2016-10	Total Recoverable	Water	6010B	477688
240-146232-4	2016-11	Total Recoverable	Water	6010B	477688
MB 240-477688/1-A	Method Blank	Total Recoverable	Water	6010B	477688
LCS 240-477688/2-A	Lab Control Sample	Total Recoverable	Water	6010B	477688

Analysis Batch: 477974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146232-1	2016-06	Total Recoverable	Water	6020	477688
240-146232-1	2016-06	Total Recoverable	Water	6020	477688
240-146232-2	9910	Total Recoverable	Water	6020	477688
240-146232-2	9910	Total Recoverable	Water	6020	477688
240-146232-3	2016-10	Total Recoverable	Water	6020	477688
240-146232-3	2016-10	Total Recoverable	Water	6020	477688
240-146232-4	2016-11	Total Recoverable	Water	6020	477688
240-146232-4	2016-11	Total Recoverable	Water	6020	477688
MB 240-477688/1-A	Method Blank	Total Recoverable	Water	6020	477688
MB 240-477688/1-A	Method Blank	Total Recoverable	Water	6020	477688
LCS 240-477688/3-A	Lab Control Sample	Total Recoverable	Water	6020	477688
LCS 240-477688/3-A	Lab Control Sample	Total Recoverable	Water	6020	477688

QC Association Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146232-1

General Chemistry

Analysis Batch: 477814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146232-1	2016-06	Total/NA	Water	SM 2540C	
240-146232-2	9910	Total/NA	Water	SM 2540C	
240-146232-3	2016-10	Total/NA	Water	SM 2540C	
240-146232-4	2016-11	Total/NA	Water	SM 2540C	
MB 240-477814/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-477814/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 478522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146232-1	2016-06	Total/NA	Water	300.0	
240-146232-1	2016-06	Total/NA	Water	300.0	
240-146232-2	9910	Total/NA	Water	300.0	
240-146232-3	2016-10	Total/NA	Water	300.0	
240-146232-3	2016-10	Total/NA	Water	300.0	
240-146232-4	2016-11	Total/NA	Water	300.0	
240-146232-4	2016-11	Total/NA	Water	300.0	
MB 240-478522/3	Method Blank	Total/NA	Water	300.0	
LCS 240-478522/4	Lab Control Sample	Total/NA	Water	300.0	
240-146232-1 MS	2016-06	Total/NA	Water	300.0	
240-146232-1 MSD	2016-06	Total/NA	Water	300.0	

Analysis Batch: 478678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146232-1	2016-06	Total/NA	Water	2320B-1997	
240-146232-2	9910	Total/NA	Water	2320B-1997	
240-146232-3	2016-10	Total/NA	Water	2320B-1997	
MB 240-478678/4	Method Blank	Total/NA	Water	2320B-1997	
LCS 240-478678/3	Lab Control Sample	Total/NA	Water	2320B-1997	

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146232-1

Client Sample ID: 2016-06
Date Collected: 03/17/21 09:39
Date Received: 03/20/21 08:00

Lab Sample ID: 240-146232-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			477688	03/22/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	477970	03/23/21 18:52	DSH	TAL CAN
Total Recoverable	Prep	3005A			477688	03/22/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	477974	03/23/21 12:44	DTN	TAL CAN
Total Recoverable	Prep	3005A			477688	03/22/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	477974	03/23/21 13:15	DTN	TAL CAN
Total/NA	Prep	7470A			477689	03/22/21 14:00	MRL	TAL CAN
Total/NA	Analysis	7470A		1	477825	03/23/21 09:48	SLD	TAL CAN
Total/NA	Analysis	2320B-1997		1	478678	03/26/21 13:06	JMB	TAL CAN
Total/NA	Analysis	300.0		1	478522	03/27/21 02:45	JWW	TAL CAN
Total/NA	Analysis	300.0		10	478522	03/27/21 03:46	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	477814	03/23/21 09:03	AJ	TAL CAN

Client Sample ID: 9910
Date Collected: 03/17/21 10:14
Date Received: 03/20/21 08:00

Lab Sample ID: 240-146232-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			477688	03/22/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	477970	03/23/21 18:57	DSH	TAL CAN
Total Recoverable	Prep	3005A			477688	03/22/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	477974	03/23/21 12:46	DTN	TAL CAN
Total Recoverable	Prep	3005A			477688	03/22/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	477974	03/23/21 13:17	DTN	TAL CAN
Total/NA	Prep	7470A			477689	03/22/21 14:00	MRL	TAL CAN
Total/NA	Analysis	7470A		1	477825	03/23/21 09:50	SLD	TAL CAN
Total/NA	Analysis	2320B-1997		1	478678	03/26/21 13:12	JMB	TAL CAN
Total/NA	Analysis	300.0		5	478522	03/27/21 04:06	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	477814	03/23/21 09:03	AJ	TAL CAN

Client Sample ID: 2016-10
Date Collected: 03/17/21 13:02
Date Received: 03/20/21 08:00

Lab Sample ID: 240-146232-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			477688	03/22/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	477970	03/23/21 19:10	DSH	TAL CAN
Total Recoverable	Prep	3005A			477688	03/22/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	477974	03/23/21 12:49	DTN	TAL CAN
Total Recoverable	Prep	3005A			477688	03/22/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		5	477974	03/23/21 13:24	DTN	TAL CAN
Total/NA	Prep	7470A			477689	03/22/21 14:00	MRL	TAL CAN
Total/NA	Analysis	7470A		1	477825	03/23/21 09:52	SLD	TAL CAN
Total/NA	Analysis	2320B-1997		1	478678	03/26/21 13:17	JMB	TAL CAN

Eurofins TestAmerica, Canton

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146232-1

Client Sample ID: 2016-10

Lab Sample ID: 240-146232-3

Date Collected: 03/17/21 13:02

Matrix: Water

Date Received: 03/20/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		20	478522	03/27/21 04:46	JWW	TAL CAN
Total/NA	Analysis	300.0		100	478522	03/27/21 05:46	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	477814	03/23/21 09:03	AJ	TAL CAN

Client Sample ID: 2016-11

Lab Sample ID: 240-146232-4

Date Collected: 03/17/21 13:42

Matrix: Water

Date Received: 03/20/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			477688	03/22/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	477970	03/23/21 19:15	DSH	TAL CAN
Total Recoverable	Prep	3005A			477688	03/22/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	477974	03/23/21 12:51	DTN	TAL CAN
Total Recoverable	Prep	3005A			477688	03/22/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		5	477974	03/23/21 13:12	DTN	TAL CAN
Total/NA	Prep	7470A			477689	03/22/21 14:00	MRL	TAL CAN
Total/NA	Analysis	7470A		1	477825	03/23/21 09:54	SLD	TAL CAN
Total/NA	Analysis	300.0		10	478522	03/27/21 06:06	JWW	TAL CAN
Total/NA	Analysis	300.0		50	478522	03/27/21 06:27	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	477814	03/23/21 09:03	AJ	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146232-1

Laboratory: Eurofins TestAmerica, Canton


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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-21 *
Illinois	NELAP	004498	07-31-21
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21 *
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

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

Eurofins TestAmerica, Canton

2.3/2.4 10-2/10-3 AS9 20-21

Client Information		Sampler: <i>Shawn</i>	Lab PM: Cisneros, Roxanne	Carrier Tracking No(s): 208	COC No: 240-74320-29945.4
Client Contact: Taylor Huffman		Phone:	E-Mail: roxanne.cisneros@Eurofins.com	Page: Page 4 of 5	Job #:
Company: Lightstone Generation Gavin Power LLC					
Address: 7397 OH-7					
City: Cheshire					
State, Zip: OH, 45620					
Phone:					
PO #: 2928210					
WO #:					
Email: taylor.huffman@lightstonegen.com					
Project #: 24019633					
Gavin CCR					
Site:					
Due Date Requested:		Analysis Requested			
TAT Requested (days):		Total Number of Containers			
Perform MS/MSD (Yes or No)		2320B - Alkalinity			
Field Filtered Sample (Yes or No)		2540C - Calcd, 300.0_28D			
6010B, 6020		D N N			
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewat, BT=tissue, AA=air)
2016-06-09	0839	G	Water		
2016-10-10	1014	G	Water		
2016-11-11	1302	G	Water		
	1342	G	Water		
Special Instructions/Note: 240-146232 Chain of Custody					
Barcode: 					
Preservation Codes: A-HCL, B-NaOH, C-Zn Acetate, D-Nitric Acid, E-NaHSO4, F-MeOH, G-Amchlor, H-Ascorbic Acid, I-Ice, J-DI Water, K-EDTA, L-EDA, Other: M-Hexane, N-None, O-AsNaO2, P-Na2O4S, Q-Na2SO3, R-Na2SO4, S-H2SO4, T-TSP Dodecahydrate, U-Acetone, V-MCAA, W-pH 4-5, Z-other (specify)					
Possible Hazard Identification <input checked="" 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: <i>Shawn</i> Date: 3-19-21 0830					
Relinquished by: <i>Shawn</i> Date: 3-19-21 0830					
Relinquished by: <i>Shawn</i> Date: 3-19-21 1730					
Custody Seal No.: <i>208</i>					
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Cooler Temperature(s) °C and Other Remarks:					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements:					
Method of Shipment: <i>208</i>					
Received by: <i>Shawn</i> Date/Time: 3-19-21 1320					
Received by: <i>Shawn</i> Date/Time: 3-19-21 0801					
Received by: <i>Shawn</i> Date/Time: 3-19-21 0801					
Company: <i>ETA</i>					
Company: <i>ETA</i>					
Company: <i>ETA</i>					



Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 146232

Client Lightstone Gavin Site Name _____
 Cooler Received on 3-20-21 Opened on 3-20-21
 FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Cooler unpacked by:
Adam Jones


Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # TA Foam Box Client Cooler Box Other _____
 Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-11 (CF +0.1 °C) Observed Cooler Temp. 23 °C Corrected Cooler Temp. 24 °C
 IR GUN #IR-12 (CF +0.2°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

- 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
 -Were tamper/custody seals intact and uncompromised? Yes No NA
- 3. Shippers' packing slip attached to the cooler(s)? Yes No
- 4. Did custody papers accompany the sample(s)? Yes No
- 5. Were the custody papers relinquished & signed in the appropriate place? Yes No
- 6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
- 7. Did all bottles arrive in good condition (Unbroken)? Yes No
- 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
- 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?
- 10. Were correct bottle(s) used for the test(s) indicated? Yes No
- 11. Sufficient quantity received to perform indicated analyses? Yes No
- 12. Are these work share samples and all listed on the COC? Yes No

Tests that are not checked for pH by Receiving:
 VOAs
 Oil and Grease
 TOC

- If yes, Questions 13-17 have been checked at the originating laboratory.
- 13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC022887
- 14. Were VOAs on the COC? Yes No
- 15. Were air bubbles >6 mm in any VOA vials?  ← Larger than this. Yes No NA
- 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
- 17. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
 Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page

Samples processed by Ryan

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>		<u>Preservative</u>	
			<u>pH</u>	<u>Temp</u>	<u>Added (mls)</u>	<u>Lot #</u>
2016-06	240-146232-C-1	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
9910	240-146232-C-2	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2016-10	240-146232-C-3	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2016-11	240-146232-B-4	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____

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ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-146271-1
Client Project/Site: Gavin CCR

For:

Lightstone Generation Gavin Power LLC
7397 OH-7
Cheshire, Ohio 45620

Attn: Taylor Huffman

Roxanne Cisneros

*Authorized for release by:
3/31/2021 1:30:47 PM*

Roxanne Cisneros, Senior Project Manager
(615)301-5761
roxanne.cisneros@Eurofinset.com

LINKS

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results through
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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146271-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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

Case Narrative

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146271-1

Job ID: 240-146271-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative
240-146271-1

Comments

No additional comments.

Receipt

The samples were received on 3/22/2021 1:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.9° C and 1.6° C.

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.

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Method Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146271-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL CAN
6020	Metals (ICP/MS)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146271-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-146271-1	2016-09	Water	03/19/21 09:40	03/22/21 13:00	
240-146271-2	96154R	Water	03/19/21 10:02	03/22/21 13:00	
240-146271-3	96153R	Water	03/19/21 10:45	03/22/21 13:00	
240-146271-4	MW-20	Water	03/19/21 11:17	03/22/21 13:00	
240-146271-5	MW-15	Water	03/20/21 09:54	03/22/21 13:00	
240-146271-6	MW-17	Water	03/20/21 10:25	03/22/21 13:00	
240-146271-7	9806	Water	03/20/21 12:26	03/22/21 13:00	

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Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146271-1

Client Sample ID: 2016-09

Lab Sample ID: 240-146271-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	140		100	23	ug/L	1		6010B	Total Recoverable
Calcium	60000		1000	580	ug/L	1		6020	Total Recoverable
Potassium	9400		1000	220	ug/L	1		6020	Total Recoverable
Sodium	980000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	1500		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	150		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	750		5.0	1.4	mg/L	5		300.0	Total/NA
Fluoride	0.97		0.25	0.12	mg/L	5		300.0	Total/NA
Sulfate	44		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	2700		50	39	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 96154R

Lab Sample ID: 240-146271-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	510		100	23	ug/L	1		6010B	Total Recoverable
Calcium	8300		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	1200		1000	200	ug/L	1		6020	Total Recoverable
Potassium	4400		1000	220	ug/L	1		6020	Total Recoverable
Sodium	530000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	570		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	410		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	160		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	370		10	2.8	mg/L	10		300.0	Total/NA
Fluoride	3.8		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	36		1.0	0.35	mg/L	1		300.0	Total/NA
Total Dissolved Solids	1400		20	16	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 96153R

Lab Sample ID: 240-146271-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	580		100	23	ug/L	1		6010B	Total Recoverable
Calcium	120000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	23000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	5500		1000	220	ug/L	1		6020	Total Recoverable
Sodium	320000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	260		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	260		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	13		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.87		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	900		10	3.5	mg/L	10		300.0	Total/NA
Total Dissolved Solids	1500		20	16	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146271-1

Client Sample ID: MW-20

Lab Sample ID: 240-146271-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	230		100	23	ug/L	1		6010B	Total Recoverable
Calcium	420000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	94000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	5300		1000	220	ug/L	1		6020	Total Recoverable
Sodium	25000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	160		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	160		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	1.8		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	1.3		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	1500		10	3.5	mg/L	10		300.0	Total/NA
Total Dissolved Solids	2300		20	16	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-15

Lab Sample ID: 240-146271-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	310		100	23	ug/L	1		6010B	Total Recoverable
Calcium	340000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	110000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	3800		1000	220	ug/L	1		6020	Total Recoverable
Sodium	190000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	410		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	410		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	17		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.19		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	1400		10	3.5	mg/L	10		300.0	Total/NA
Total Dissolved Solids	2500		20	16	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-17

Lab Sample ID: 240-146271-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	410		100	23	ug/L	1		6010B	Total Recoverable
Calcium	87000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	18000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	5200		1000	220	ug/L	1		6020	Total Recoverable
Sodium	2500000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	300		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	300		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	4200		50	14	mg/L	50		300.0	Total/NA
Fluoride	1.6		0.25	0.12	mg/L	5		300.0	Total/NA
Sulfate	43		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	7200		100	78	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146271-1

Client Sample ID: 9806

Lab Sample ID: 240-146271-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	290		100	23	ug/L	1		6010B	Total Recoverable
Calcium	7200		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	2200		1000	200	ug/L	1		6020	Total Recoverable
Potassium	1400		1000	220	ug/L	1		6020	Total Recoverable
Sodium	290000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	340		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	320		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	17		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	180		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	1.3		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	140		1.0	0.35	mg/L	1		300.0	Total/NA
Total Dissolved Solids	890		20	16	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton



Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146271-1

Client Sample ID: 2016-09

Lab Sample ID: 240-146271-1

Date Collected: 03/19/21 09:40

Matrix: Water

Date Received: 03/22/21 13:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	140		100	23	ug/L		03/23/21 14:00	03/24/21 23:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	60000		1000	580	ug/L		03/23/21 14:00	03/24/21 11:09	1
Magnesium	1000	U	1000	200	ug/L		03/23/21 14:00	03/24/21 11:09	1
Potassium	9400		1000	220	ug/L		03/23/21 14:00	03/24/21 11:09	1
Sodium	980000		1000	330	ug/L		03/23/21 14:00	03/24/21 11:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	1500		5.0	2.6	mg/L			03/26/21 13:52	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/26/21 13:52	1
Carbonate Alkalinity as CaCO3	150		5.0	2.6	mg/L			03/26/21 13:52	1
Chloride	750		5.0	1.4	mg/L			03/29/21 22:51	5
Fluoride	0.97		0.25	0.12	mg/L			03/29/21 22:51	5
Sulfate	44		5.0	1.7	mg/L			03/29/21 22:51	5
Total Dissolved Solids	2700		50	39	mg/L			03/24/21 09:05	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146271-1

Client Sample ID: 96154R
 Date Collected: 03/19/21 10:02
 Date Received: 03/22/21 13:00

Lab Sample ID: 240-146271-2
 Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	510		100	23	ug/L		03/23/21 14:00	03/24/21 23:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	8300		1000	580	ug/L		03/23/21 14:00	03/24/21 11:11	1
Magnesium	1200		1000	200	ug/L		03/23/21 14:00	03/24/21 11:11	1
Potassium	4400		1000	220	ug/L		03/23/21 14:00	03/24/21 11:11	1
Sodium	530000		1000	330	ug/L		03/23/21 14:00	03/24/21 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	570		5.0	2.6	mg/L			03/26/21 12:35	1
Bicarbonate Alkalinity as CaCO3	410		5.0	2.6	mg/L			03/26/21 12:35	1
Carbonate Alkalinity as CaCO3	160		5.0	2.6	mg/L			03/26/21 12:35	1
Chloride	370		10	2.8	mg/L			03/29/21 23:52	10
Fluoride	3.8		0.050	0.024	mg/L			03/29/21 23:32	1
Sulfate	36		1.0	0.35	mg/L			03/29/21 23:32	1
Total Dissolved Solids	1400		20	16	mg/L			03/24/21 09:05	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146271-1

Client Sample ID: 96153R
 Date Collected: 03/19/21 10:45
 Date Received: 03/22/21 13:00

Lab Sample ID: 240-146271-3
 Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	580		100	23	ug/L		03/23/21 14:00	03/24/21 23:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	120000		1000	580	ug/L		03/23/21 14:00	03/24/21 11:14	1
Magnesium	23000		1000	200	ug/L		03/23/21 14:00	03/24/21 11:14	1
Potassium	5500		1000	220	ug/L		03/23/21 14:00	03/24/21 11:14	1
Sodium	320000		1000	330	ug/L		03/23/21 14:00	03/24/21 11:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	260		5.0	2.6	mg/L			03/26/21 12:40	1
Bicarbonate Alkalinity as CaCO3	260		5.0	2.6	mg/L			03/26/21 12:40	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/26/21 12:40	1
Chloride	13		1.0	0.28	mg/L			03/30/21 00:12	1
Fluoride	0.87		0.050	0.024	mg/L			03/30/21 00:12	1
Sulfate	900		10	3.5	mg/L			03/30/21 00:32	10
Total Dissolved Solids	1500		20	16	mg/L			03/24/21 09:05	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146271-1

Client Sample ID: MW-20
Date Collected: 03/19/21 11:17
Date Received: 03/22/21 13:00

Lab Sample ID: 240-146271-4
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	230		100	23	ug/L		03/23/21 14:00	03/24/21 23:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	420000		1000	580	ug/L		03/23/21 14:00	03/24/21 11:21	1
Magnesium	94000		1000	200	ug/L		03/23/21 14:00	03/24/21 11:21	1
Potassium	5300		1000	220	ug/L		03/23/21 14:00	03/24/21 11:21	1
Sodium	25000		1000	330	ug/L		03/23/21 14:00	03/24/21 11:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	160		5.0	2.6	mg/L			03/26/21 12:44	1
Bicarbonate Alkalinity as CaCO3	160		5.0	2.6	mg/L			03/26/21 12:44	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/26/21 12:44	1
Chloride	1.8		1.0	0.28	mg/L			03/30/21 00:52	1
Fluoride	1.3		0.050	0.024	mg/L			03/30/21 00:52	1
Sulfate	1500		10	3.5	mg/L			03/30/21 01:12	10
Total Dissolved Solids	2300		20	16	mg/L			03/24/21 09:05	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146271-1

Client Sample ID: MW-15
 Date Collected: 03/20/21 09:54
 Date Received: 03/22/21 13:00

Lab Sample ID: 240-146271-5
 Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	310		100	23	ug/L		03/23/21 14:00	03/24/21 23:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	340000		1000	580	ug/L		03/23/21 14:00	03/24/21 11:24	1
Magnesium	110000		1000	200	ug/L		03/23/21 14:00	03/24/21 11:24	1
Potassium	3800		1000	220	ug/L		03/23/21 14:00	03/24/21 11:24	1
Sodium	190000		1000	330	ug/L		03/23/21 14:00	03/24/21 11:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	410		5.0	2.6	mg/L			03/26/21 12:49	1
Bicarbonate Alkalinity as CaCO3	410		5.0	2.6	mg/L			03/26/21 12:49	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/26/21 12:49	1
Chloride	17		1.0	0.28	mg/L			03/30/21 01:32	1
Fluoride	0.19		0.050	0.024	mg/L			03/30/21 01:32	1
Sulfate	1400		10	3.5	mg/L			03/30/21 02:33	10
Total Dissolved Solids	2500		20	16	mg/L			03/25/21 09:09	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146271-1

Client Sample ID: MW-17

Lab Sample ID: 240-146271-6

Date Collected: 03/20/21 10:25

Matrix: Water

Date Received: 03/22/21 13:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	410		100	23	ug/L		03/23/21 14:00	03/25/21 00:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	87000		1000	580	ug/L		03/23/21 14:00	03/24/21 11:26	1
Magnesium	18000		1000	200	ug/L		03/23/21 14:00	03/24/21 11:26	1
Potassium	5200		1000	220	ug/L		03/23/21 14:00	03/24/21 11:26	1
Sodium	2500000		1000	330	ug/L		03/23/21 14:00	03/24/21 11:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	300		5.0	2.6	mg/L			03/26/21 12:56	1
Bicarbonate Alkalinity as CaCO3	300		5.0	2.6	mg/L			03/26/21 12:56	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/26/21 12:56	1
Chloride	4200		50	14	mg/L			03/30/21 03:13	50
Fluoride	1.6		0.25	0.12	mg/L			03/30/21 02:53	5
Sulfate	43		5.0	1.7	mg/L			03/30/21 02:53	5
Total Dissolved Solids	7200		100	78	mg/L			03/25/21 09:09	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146271-1

Client Sample ID: 9806

Lab Sample ID: 240-146271-7

Date Collected: 03/20/21 12:26

Matrix: Water

Date Received: 03/22/21 13:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	290		100	23	ug/L		03/23/21 14:00	03/25/21 00:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	7200		1000	580	ug/L		03/23/21 14:00	03/24/21 11:29	1
Magnesium	2200		1000	200	ug/L		03/23/21 14:00	03/24/21 11:29	1
Potassium	1400		1000	220	ug/L		03/23/21 14:00	03/24/21 11:29	1
Sodium	290000		1000	330	ug/L		03/23/21 14:00	03/24/21 11:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	340		5.0	2.6	mg/L			03/26/21 13:01	1
Bicarbonate Alkalinity as CaCO3	320		5.0	2.6	mg/L			03/26/21 13:01	1
Carbonate Alkalinity as CaCO3	17		5.0	2.6	mg/L			03/26/21 13:01	1
Chloride	180		1.0	0.28	mg/L			03/30/21 08:15	1
Fluoride	1.3		0.050	0.024	mg/L			03/30/21 08:15	1
Sulfate	140		1.0	0.35	mg/L			03/30/21 08:15	1
Total Dissolved Solids	890		20	16	mg/L			03/25/21 09:09	1

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146271-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-477838/1-A
 Matrix: Water
 Analysis Batch: 478056

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 477838

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100	23	ug/L		03/23/21 14:00	03/24/21 22:38	1

Lab Sample ID: LCS 240-477838/2-A
 Matrix: Water
 Analysis Batch: 478056

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 477838

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1000	1020		ug/L		102	80 - 120

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-477838/1-A
 Matrix: Water
 Analysis Batch: 478059

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 477838

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000	580	ug/L		03/23/21 14:00	03/24/21 10:52	1
Magnesium	1000	U	1000	200	ug/L		03/23/21 14:00	03/24/21 10:52	1
Potassium	1000	U	1000	220	ug/L		03/23/21 14:00	03/24/21 10:52	1
Sodium	1000	U	1000	330	ug/L		03/23/21 14:00	03/24/21 10:52	1

Lab Sample ID: LCS 240-477838/3-A
 Matrix: Water
 Analysis Batch: 478059

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 477838

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	25000	24100		ug/L		97	80 - 120
Magnesium	25000	23900		ug/L		95	80 - 120
Potassium	25000	23200		ug/L		93	80 - 120
Sodium	25000	23400		ug/L		93	80 - 120

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-478678/4
 Matrix: Water
 Analysis Batch: 478678

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	5.0	U	5.0	2.6	mg/L			03/26/21 12:11	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/26/21 12:11	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/26/21 12:11	1

Lab Sample ID: LCS 240-478678/3
 Matrix: Water
 Analysis Batch: 478678

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity	246	243		mg/L		99	86 - 123

Eurofins TestAmerica, Canton

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146271-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-478746/3
Matrix: Water
Analysis Batch: 478746

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	1.0	U	1.0	0.28	mg/L			03/29/21 18:30	1
Fluoride	0.050	U	0.050	0.024	mg/L			03/29/21 18:30	1
Sulfate	1.0	U	1.0	0.35	mg/L			03/29/21 18:30	1

Lab Sample ID: LCS 240-478746/4
Matrix: Water
Analysis Batch: 478746

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	2.50	2.48		mg/L		99	90 - 110
Sulfate	50.0	48.9		mg/L		98	90 - 110

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

Lab Sample ID: MB 240-477991/1
Matrix: Water
Analysis Batch: 477991

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	10	U	10	7.8	mg/L			03/24/21 09:05	1

Lab Sample ID: LCS 240-477991/2
Matrix: Water
Analysis Batch: 477991

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: MB 240-478206/1
Matrix: Water
Analysis Batch: 478206

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	10	U	10	7.8	mg/L			03/25/21 09:09	1

Lab Sample ID: LCS 240-478206/2
Matrix: Water
Analysis Batch: 478206

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

QC Association Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146271-1

Metals

Prep Batch: 477838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146271-1	2016-09	Total Recoverable	Water	3005A	
240-146271-2	96154R	Total Recoverable	Water	3005A	
240-146271-3	96153R	Total Recoverable	Water	3005A	
240-146271-4	MW-20	Total Recoverable	Water	3005A	
240-146271-5	MW-15	Total Recoverable	Water	3005A	
240-146271-6	MW-17	Total Recoverable	Water	3005A	
240-146271-7	9806	Total Recoverable	Water	3005A	
MB 240-477838/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-477838/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-477838/3-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 478056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146271-1	2016-09	Total Recoverable	Water	6010B	477838
240-146271-2	96154R	Total Recoverable	Water	6010B	477838
240-146271-3	96153R	Total Recoverable	Water	6010B	477838
240-146271-4	MW-20	Total Recoverable	Water	6010B	477838
240-146271-5	MW-15	Total Recoverable	Water	6010B	477838
240-146271-6	MW-17	Total Recoverable	Water	6010B	477838
240-146271-7	9806	Total Recoverable	Water	6010B	477838
MB 240-477838/1-A	Method Blank	Total Recoverable	Water	6010B	477838
LCS 240-477838/2-A	Lab Control Sample	Total Recoverable	Water	6010B	477838

Analysis Batch: 478059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146271-1	2016-09	Total Recoverable	Water	6020	477838
240-146271-2	96154R	Total Recoverable	Water	6020	477838
240-146271-3	96153R	Total Recoverable	Water	6020	477838
240-146271-4	MW-20	Total Recoverable	Water	6020	477838
240-146271-5	MW-15	Total Recoverable	Water	6020	477838
240-146271-6	MW-17	Total Recoverable	Water	6020	477838
240-146271-7	9806	Total Recoverable	Water	6020	477838
MB 240-477838/1-A	Method Blank	Total Recoverable	Water	6020	477838
LCS 240-477838/3-A	Lab Control Sample	Total Recoverable	Water	6020	477838

General Chemistry

Analysis Batch: 477991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146271-1	2016-09	Total/NA	Water	SM 2540C	
240-146271-2	96154R	Total/NA	Water	SM 2540C	
240-146271-3	96153R	Total/NA	Water	SM 2540C	
240-146271-4	MW-20	Total/NA	Water	SM 2540C	
MB 240-477991/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-477991/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 478206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146271-5	MW-15	Total/NA	Water	SM 2540C	
240-146271-6	MW-17	Total/NA	Water	SM 2540C	
240-146271-7	9806	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146271-1

General Chemistry (Continued)

Analysis Batch: 478206 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-478206/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-478206/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 478678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146271-1	2016-09	Total/NA	Water	2320B-1997	
240-146271-2	96154R	Total/NA	Water	2320B-1997	
240-146271-3	96153R	Total/NA	Water	2320B-1997	
240-146271-4	MW-20	Total/NA	Water	2320B-1997	
240-146271-5	MW-15	Total/NA	Water	2320B-1997	
240-146271-6	MW-17	Total/NA	Water	2320B-1997	
240-146271-7	9806	Total/NA	Water	2320B-1997	
MB 240-478678/4	Method Blank	Total/NA	Water	2320B-1997	
LCS 240-478678/3	Lab Control Sample	Total/NA	Water	2320B-1997	

Analysis Batch: 478746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146271-1	2016-09	Total/NA	Water	300.0	
240-146271-2	96154R	Total/NA	Water	300.0	
240-146271-2	96154R	Total/NA	Water	300.0	
240-146271-3	96153R	Total/NA	Water	300.0	
240-146271-3	96153R	Total/NA	Water	300.0	
240-146271-4	MW-20	Total/NA	Water	300.0	
240-146271-4	MW-20	Total/NA	Water	300.0	
240-146271-5	MW-15	Total/NA	Water	300.0	
240-146271-5	MW-15	Total/NA	Water	300.0	
240-146271-6	MW-17	Total/NA	Water	300.0	
240-146271-6	MW-17	Total/NA	Water	300.0	
240-146271-7	9806	Total/NA	Water	300.0	
MB 240-478746/3	Method Blank	Total/NA	Water	300.0	
LCS 240-478746/4	Lab Control Sample	Total/NA	Water	300.0	

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146271-1

Client Sample ID: 2016-09

Lab Sample ID: 240-146271-1

Date Collected: 03/19/21 09:40

Matrix: Water

Date Received: 03/22/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			477838	03/23/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	478056	03/24/21 23:33	RKT	TAL CAN
Total Recoverable	Prep	3005A			477838	03/23/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	478059	03/24/21 11:09	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	478678	03/26/21 13:52	JMB	TAL CAN
Total/NA	Analysis	300.0		5	478746	03/29/21 22:51	JMB	TAL CAN
Total/NA	Analysis	SM 2540C		1	477991	03/24/21 09:05	AJ	TAL CAN

Client Sample ID: 96154R

Lab Sample ID: 240-146271-2

Date Collected: 03/19/21 10:02

Matrix: Water

Date Received: 03/22/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			477838	03/23/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	478056	03/24/21 23:37	RKT	TAL CAN
Total Recoverable	Prep	3005A			477838	03/23/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	478059	03/24/21 11:11	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	478678	03/26/21 12:35	JMB	TAL CAN
Total/NA	Analysis	300.0		1	478746	03/29/21 23:32	JMB	TAL CAN
Total/NA	Analysis	300.0		10	478746	03/29/21 23:52	JMB	TAL CAN
Total/NA	Analysis	SM 2540C		1	477991	03/24/21 09:05	AJ	TAL CAN

Client Sample ID: 96153R

Lab Sample ID: 240-146271-3

Date Collected: 03/19/21 10:45

Matrix: Water

Date Received: 03/22/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			477838	03/23/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	478056	03/24/21 23:41	RKT	TAL CAN
Total Recoverable	Prep	3005A			477838	03/23/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	478059	03/24/21 11:14	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	478678	03/26/21 12:40	JMB	TAL CAN
Total/NA	Analysis	300.0		1	478746	03/30/21 00:12	JMB	TAL CAN
Total/NA	Analysis	300.0		10	478746	03/30/21 00:32	JMB	TAL CAN
Total/NA	Analysis	SM 2540C		1	477991	03/24/21 09:05	AJ	TAL CAN

Client Sample ID: MW-20

Lab Sample ID: 240-146271-4

Date Collected: 03/19/21 11:17

Matrix: Water

Date Received: 03/22/21 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			477838	03/23/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	478056	03/24/21 23:46	RKT	TAL CAN

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146271-1

Client Sample ID: MW-20
Date Collected: 03/19/21 11:17
Date Received: 03/22/21 13:00

Lab Sample ID: 240-146271-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			477838	03/23/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	478059	03/24/21 11:21	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	478678	03/26/21 12:44	JMB	TAL CAN
Total/NA	Analysis	300.0		1	478746	03/30/21 00:52	JMB	TAL CAN
Total/NA	Analysis	300.0		10	478746	03/30/21 01:12	JMB	TAL CAN
Total/NA	Analysis	SM 2540C		1	477991	03/24/21 09:05	AJ	TAL CAN

Client Sample ID: MW-15
Date Collected: 03/20/21 09:54
Date Received: 03/22/21 13:00

Lab Sample ID: 240-146271-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			477838	03/23/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	478056	03/24/21 23:59	RKT	TAL CAN
Total Recoverable	Prep	3005A			477838	03/23/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	478059	03/24/21 11:24	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	478678	03/26/21 12:49	JMB	TAL CAN
Total/NA	Analysis	300.0		1	478746	03/30/21 01:32	JMB	TAL CAN
Total/NA	Analysis	300.0		10	478746	03/30/21 02:33	JMB	TAL CAN
Total/NA	Analysis	SM 2540C		1	478206	03/25/21 09:09	AJ	TAL CAN

Client Sample ID: MW-17
Date Collected: 03/20/21 10:25
Date Received: 03/22/21 13:00

Lab Sample ID: 240-146271-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			477838	03/23/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	478056	03/25/21 00:03	RKT	TAL CAN
Total Recoverable	Prep	3005A			477838	03/23/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	478059	03/24/21 11:26	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	478678	03/26/21 12:56	JMB	TAL CAN
Total/NA	Analysis	300.0		5	478746	03/30/21 02:53	JMB	TAL CAN
Total/NA	Analysis	300.0		50	478746	03/30/21 03:13	JMB	TAL CAN
Total/NA	Analysis	SM 2540C		1	478206	03/25/21 09:09	AJ	TAL CAN

Client Sample ID: 9806
Date Collected: 03/20/21 12:26
Date Received: 03/22/21 13:00

Lab Sample ID: 240-146271-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			477838	03/23/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	478056	03/25/21 00:08	RKT	TAL CAN
Total Recoverable	Prep	3005A			477838	03/23/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	478059	03/24/21 11:29	DTN	TAL CAN

Eurofins TestAmerica, Canton

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146271-1

Client Sample ID: 9806

Lab Sample ID: 240-146271-7

Date Collected: 03/20/21 12:26

Matrix: Water

Date Received: 03/22/21 13:00

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Analysis	2320B-1997		1	478678	03/26/21 13:01	JMB	TAL CAN
Total/NA	Analysis	300.0		1	478746	03/30/21 08:15	JMB	TAL CAN
Total/NA	Analysis	SM 2540C		1	478206	03/25/21 09:09	AJ	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396



Accreditation/Certification Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146271-1

Laboratory: Eurofins TestAmerica, Canton

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-21 *
Illinois	NELAP	004498	07-31-21
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21 *
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

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

Eurofins TestAmerica, Canton

**Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility**

Login # : 146271

Client Liquidstone Gwin Site Name _____

Cooler unpacked by: _____

Cooler Received on 3-22-21 Opened on 3-22-21


FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # TA Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-11 (CF +0.1 °C) Observed Cooler Temp. 1.8 °C Corrected Cooler Temp. _____ °C
 IR GUN #IR-12 (CF +0.2°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
 -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
 If yes, Questions 13-17 have been checked at the originating laboratory.
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC022887
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials? Yes No NA  ← Larger than this.
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
17. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page

Samples processed by: _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____



Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>		<u>Preservative</u>	
			<u>pH</u>	<u>Temp</u>	<u>Added (mls)</u>	<u>Lot #</u>
2016-09	240-146271-C-1	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
96154R	240-146271-C-2	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
96153R	240-146271-C-3	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
MW-20	240-146271-C-4	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
MW-15	240-146271-C-5	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
MW-17	240-146271-C-6	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
9806	240-146271-C-7	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-146417-1
Client Project/Site: Gavin CCR

For:
Lightstone Generation Gavin Power LLC
7397 OH-7
Cheshire, Ohio 45620

Attn: Taylor Huffman

Roxanne Cisneros

Authorized for release by:
4/7/2021 4:07:22 PM

Roxanne Cisneros, Senior Project Manager
(615)301-5761
roxanne.cisneros@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146417-1

Qualifiers

Metals

Qualifier	Qualifier Description
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.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Case Narrative

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146417-1

Job ID: 240-146417-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative
240-146417-1

Comments

No additional comments.

Receipt

The samples were received on 3/25/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.2° C, 0.4° C, 1.0° C, 1.0° C and 1.1° C.

Metals

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

General Chemistry

Method 300.0: The following sample was diluted due to the nature of the sample matrix: 96149 (240-146417-8). 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.

Method Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146417-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL CAN
6020	Metals (ICP/MS)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146417-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-146417-1	2000	Water	03/22/21 10:35	03/25/21 08:00	
240-146417-2	DUP #3 (2000)	Water	03/22/21 10:35	03/25/21 08:00	
240-146417-3	TRIP BLANK	Water	03/22/21 11:10	03/25/21 08:00	
240-146417-4	FIELD BLANK	Water	03/22/21 11:15	03/25/21 08:00	
240-146417-5	94136	Water	03/22/21 12:52	03/25/21 08:00	
240-146417-6	94137	Water	03/22/21 13:15	03/25/21 08:00	
240-146417-7	2018-01	Water	03/22/21 13:56	03/25/21 08:00	
240-146417-8	96149	Water	03/23/21 09:33	03/25/21 08:00	
240-146417-9	96147	Water	03/23/21 10:12	03/25/21 08:00	
240-146417-10	2016-07	Water	03/23/21 12:44	03/25/21 08:00	
240-146417-11	2016-08	Water	03/23/21 13:13	03/25/21 08:00	

Detection Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146417-1

Client Sample ID: 2000

Lab Sample ID: 240-146417-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	370	B	100	23	ug/L	1		6010B	Total Recoverable
Calcium	3000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	760	J	1000	200	ug/L	1		6020	Total Recoverable
Potassium	980	J	1000	220	ug/L	1		6020	Total Recoverable
Sodium	470000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	390		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	350		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	41		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	87		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	2.1		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	490		10	3.5	mg/L	10		300.0	Total/NA
Total Dissolved Solids	1300		20	16	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP #3 (2000)

Lab Sample ID: 240-146417-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	370	B	100	23	ug/L	1		6010B	Total Recoverable
Calcium	3100		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	820	J	1000	200	ug/L	1		6020	Total Recoverable
Potassium	1100		1000	220	ug/L	1		6020	Total Recoverable
Sodium	470000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	390		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	350		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	39		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	90		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	2.2		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	430		10	3.5	mg/L	10		300.0	Total/NA
Total Dissolved Solids	1300		20	16	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-146417-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	8.0	J	10	7.8	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FIELD BLANK

Lab Sample ID: 240-146417-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	14		10	7.8	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 94136

Lab Sample ID: 240-146417-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	460	B	100	23	ug/L	1		6010B	Total Recoverable
Calcium	14000		1000	580	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146417-1

Client Sample ID: 94136 (Continued)

Lab Sample ID: 240-146417-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	3500		1000	200	ug/L	1		6020	Total Recoverable
Potassium	1900		1000	220	ug/L	1		6020	Total Recoverable
Sodium	710000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	360		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	350		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	7.7		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	830		10	2.8	mg/L	10		300.0	Total/NA
Fluoride	1.4		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	65		1.0	0.35	mg/L	1		300.0	Total/NA
Total Dissolved Solids	1600		40	31	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 94137

Lab Sample ID: 240-146417-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	60	J B	100	23	ug/L	1		6010B	Total Recoverable
Calcium	160000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	48000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	1700		1000	220	ug/L	1		6020	Total Recoverable
Sodium	64000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	340		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	340		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	26		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.11		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	330		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	880		10	7.8	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 2018-01

Lab Sample ID: 240-146417-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	560	B	100	23	ug/L	1		6010B	Total Recoverable
Calcium	27000		1000	580	ug/L	1		6020	Total Recoverable
Potassium	2800		1000	220	ug/L	1		6020	Total Recoverable
Sodium	1800000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	380		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	320		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	3200		25	7.1	mg/L	25		300.0	Total/NA
Fluoride	3.0		0.25	0.12	mg/L	5		300.0	Total/NA
Sulfate	35		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	5800		50	39	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146417-1

Client Sample ID: 96149

Lab Sample ID: 240-146417-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	450	B	100	23	ug/L	1		6010B	Total Recoverable
Calcium	800000		50000	29000	ug/L	50		6020	Total Recoverable
Magnesium	230000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	22000		1000	220	ug/L	1		6020	Total Recoverable
Sodium	8800000		50000	16000	ug/L	50		6020	Total Recoverable
Total Alkalinity	83		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	83		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	16000		1000	280	mg/L	1000		300.0	Total/NA
Total Dissolved Solids	28000		1000	780	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 96147

Lab Sample ID: 240-146417-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	460	B	100	23	ug/L	1		6010B	Total Recoverable
Calcium	25000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	6800		1000	200	ug/L	1		6020	Total Recoverable
Potassium	3500		1000	220	ug/L	1		6020	Total Recoverable
Sodium	1300000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	830		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	830		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	1100		20	5.7	mg/L	20		300.0	Total/NA
Fluoride	4.2		0.25	0.12	mg/L	5		300.0	Total/NA
Sulfate	200		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	3500		50	39	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 2016-07

Lab Sample ID: 240-146417-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	320	B	100	23	ug/L	1		6010B	Total Recoverable
Calcium	8200		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	1400		1000	200	ug/L	1		6020	Total Recoverable
Potassium	9800		1000	220	ug/L	1		6020	Total Recoverable
Sodium	670000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	350		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	31		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	310		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	840		10	2.8	mg/L	10		300.0	Total/NA
Fluoride	2.2		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	26		1.0	0.35	mg/L	1		300.0	Total/NA
Total Dissolved Solids	2000		40	31	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146417-1

Client Sample ID: 2016-08

Lab Sample ID: 240-146417-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	48	J B	100	23	ug/L	1		6010B	Total Recoverable
Calcium	620000		1000	580	ug/L	1		6020	Total Recoverable
Potassium	31000		1000	220	ug/L	1		6020	Total Recoverable
Sodium	240000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	1900		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	35		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	180		5.0	1.4	mg/L	5		300.0	Total/NA
Fluoride	0.53		0.25	0.12	mg/L	5		300.0	Total/NA
Sulfate	6.4		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	2400		50	39	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton



Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146417-1

Client Sample ID: 2000

Lab Sample ID: 240-146417-1

Date Collected: 03/22/21 10:35

Matrix: Water

Date Received: 03/25/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	370	B	100	23	ug/L		03/26/21 14:00	03/29/21 21:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	3000		1000	580	ug/L		03/26/21 14:00	03/31/21 16:50	1
Magnesium	760	J	1000	200	ug/L		03/26/21 14:00	03/30/21 20:03	1
Potassium	980	J	1000	220	ug/L		03/26/21 14:00	03/30/21 20:03	1
Sodium	470000		1000	330	ug/L		03/26/21 14:00	03/30/21 20:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	390		5.0	2.6	mg/L			03/26/21 15:10	1
Bicarbonate Alkalinity as CaCO3	350		5.0	2.6	mg/L			03/26/21 15:10	1
Carbonate Alkalinity as CaCO3	41		5.0	2.6	mg/L			03/26/21 15:10	1
Chloride	87		1.0	0.28	mg/L			03/31/21 18:12	1
Fluoride	2.1		0.050	0.024	mg/L			03/31/21 18:12	1
Sulfate	490		10	3.5	mg/L			03/31/21 19:12	10
Total Dissolved Solids	1300		20	16	mg/L			03/26/21 08:45	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146417-1

Client Sample ID: DUP #3 (2000)

Lab Sample ID: 240-146417-2

Date Collected: 03/22/21 10:35

Matrix: Water

Date Received: 03/25/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	370	B	100	23	ug/L		03/26/21 14:00	03/29/21 21:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	3100		1000	580	ug/L		03/26/21 14:00	03/31/21 16:54	1
Magnesium	820	J	1000	200	ug/L		03/26/21 14:00	03/30/21 20:06	1
Potassium	1100		1000	220	ug/L		03/26/21 14:00	03/30/21 20:06	1
Sodium	470000		1000	330	ug/L		03/26/21 14:00	03/30/21 20:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	390		5.0	2.6	mg/L			03/26/21 15:14	1
Bicarbonate Alkalinity as CaCO3	350		5.0	2.6	mg/L			03/26/21 15:14	1
Carbonate Alkalinity as CaCO3	39		5.0	2.6	mg/L			03/26/21 15:14	1
Chloride	90		1.0	0.28	mg/L			03/31/21 19:32	1
Fluoride	2.2		0.050	0.024	mg/L			03/31/21 19:32	1
Sulfate	430		10	3.5	mg/L			03/31/21 19:52	10
Total Dissolved Solids	1300		20	16	mg/L			03/26/21 08:45	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146417-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-146417-3

Date Collected: 03/22/21 11:10

Matrix: Water

Date Received: 03/25/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100	23	ug/L		03/26/21 14:00	03/29/21 21:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000	580	ug/L		03/26/21 14:00	03/31/21 16:59	1
Magnesium	1000	U	1000	200	ug/L		03/26/21 14:00	03/30/21 20:13	1
Potassium	1000	U	1000	220	ug/L		03/26/21 14:00	03/30/21 20:13	1
Sodium	1000	U	1000	330	ug/L		03/26/21 14:00	03/30/21 20:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	5.0	U	5.0	2.6	mg/L			03/26/21 15:18	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/26/21 15:18	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/26/21 15:18	1
Chloride	1.0	U	1.0	0.28	mg/L			03/31/21 20:12	1
Fluoride	0.050	U	0.050	0.024	mg/L			03/31/21 20:12	1
Sulfate	1.0	U	1.0	0.35	mg/L			03/31/21 20:12	1
Total Dissolved Solids	8.0	J	10	7.8	mg/L			03/26/21 08:45	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146417-1

Client Sample ID: FIELD BLANK

Lab Sample ID: 240-146417-4

Date Collected: 03/22/21 11:15

Matrix: Water

Date Received: 03/25/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100	23	ug/L		03/26/21 14:00	03/29/21 21:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000	580	ug/L		03/26/21 14:00	03/31/21 17:03	1
Magnesium	1000	U	1000	200	ug/L		03/26/21 14:00	03/30/21 20:16	1
Potassium	1000	U	1000	220	ug/L		03/26/21 14:00	03/30/21 20:16	1
Sodium	1000	U	1000	330	ug/L		03/26/21 14:00	03/30/21 20:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	5.0	U	5.0	2.6	mg/L			03/26/21 15:27	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/26/21 15:27	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/26/21 15:27	1
Chloride	1.0	U	1.0	0.28	mg/L			03/31/21 20:33	1
Fluoride	0.050	U	0.050	0.024	mg/L			03/31/21 20:33	1
Sulfate	1.0	U	1.0	0.35	mg/L			03/31/21 20:33	1
Total Dissolved Solids	14		10	7.8	mg/L			03/26/21 08:45	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146417-1

Client Sample ID: 94136

Lab Sample ID: 240-146417-5

Date Collected: 03/22/21 12:52

Matrix: Water

Date Received: 03/25/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	460	B	100	23	ug/L		03/26/21 14:00	03/29/21 21:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	14000		1000	580	ug/L		03/26/21 14:00	03/31/21 17:07	1
Magnesium	3500		1000	200	ug/L		03/26/21 14:00	03/30/21 20:18	1
Potassium	1900		1000	220	ug/L		03/26/21 14:00	03/30/21 20:18	1
Sodium	710000		1000	330	ug/L		03/26/21 14:00	03/30/21 20:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	360		5.0	2.6	mg/L			03/26/21 15:32	1
Bicarbonate Alkalinity as CaCO3	350		5.0	2.6	mg/L			03/26/21 15:32	1
Carbonate Alkalinity as CaCO3	7.7		5.0	2.6	mg/L			03/26/21 15:32	1
Chloride	830		10	2.8	mg/L			03/31/21 21:13	10
Fluoride	1.4		0.050	0.024	mg/L			03/31/21 20:53	1
Sulfate	65		1.0	0.35	mg/L			03/31/21 20:53	1
Total Dissolved Solids	1600		40	31	mg/L			03/26/21 08:45	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146417-1

Client Sample ID: 94137

Lab Sample ID: 240-146417-6

Date Collected: 03/22/21 13:15

Matrix: Water

Date Received: 03/25/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	60	J B	100	23	ug/L		03/26/21 14:00	03/29/21 21:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	160000		1000	580	ug/L		03/26/21 14:00	03/31/21 17:12	1
Magnesium	48000		1000	200	ug/L		03/26/21 14:00	03/30/21 20:21	1
Potassium	1700		1000	220	ug/L		03/26/21 14:00	03/30/21 20:21	1
Sodium	64000		1000	330	ug/L		03/26/21 14:00	03/30/21 20:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	340		5.0	2.6	mg/L			03/26/21 15:37	1
Bicarbonate Alkalinity as CaCO3	340		5.0	2.6	mg/L			03/26/21 15:37	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/26/21 15:37	1
Chloride	26		1.0	0.28	mg/L			03/31/21 21:33	1
Fluoride	0.11		0.050	0.024	mg/L			03/31/21 21:33	1
Sulfate	330		5.0	1.7	mg/L			03/31/21 23:13	5
Total Dissolved Solids	880		10	7.8	mg/L			03/26/21 08:45	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146417-1

Client Sample ID: 2018-01
Date Collected: 03/22/21 13:56
Date Received: 03/25/21 08:00

Lab Sample ID: 240-146417-7
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	560	B	100	23	ug/L		03/26/21 14:00	03/29/21 22:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	27000		1000	580	ug/L		03/26/21 14:00	03/31/21 17:16	1
Magnesium	1000	U	1000	200	ug/L		03/26/21 14:00	03/30/21 20:23	1
Potassium	2800		1000	220	ug/L		03/26/21 14:00	03/30/21 20:23	1
Sodium	1800000		1000	330	ug/L		03/26/21 14:00	03/30/21 20:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	380		5.0	2.6	mg/L			03/26/21 15:43	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/26/21 15:43	1
Carbonate Alkalinity as CaCO3	320		5.0	2.6	mg/L			03/26/21 15:43	1
Chloride	3200		25	7.1	mg/L			04/01/21 00:34	25
Fluoride	3.0		0.25	0.12	mg/L			04/01/21 00:14	5
Sulfate	35		5.0	1.7	mg/L			04/01/21 00:14	5
Total Dissolved Solids	5800		50	39	mg/L			03/26/21 08:45	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146417-1

Client Sample ID: 96149

Lab Sample ID: 240-146417-8

Date Collected: 03/23/21 09:33

Matrix: Water

Date Received: 03/25/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	450	B	100	23	ug/L		03/26/21 14:00	03/29/21 22:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	800000		50000	29000	ug/L		03/26/21 14:00	03/31/21 17:23	50
Magnesium	230000		1000	200	ug/L		03/26/21 14:00	03/30/21 20:26	1
Potassium	22000		1000	220	ug/L		03/26/21 14:00	03/30/21 20:26	1
Sodium	8800000		50000	16000	ug/L		03/26/21 14:00	03/31/21 17:23	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	83		5.0	2.6	mg/L			03/26/21 15:47	1
Bicarbonate Alkalinity as CaCO3	83		5.0	2.6	mg/L			03/26/21 15:47	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/26/21 15:47	1
Chloride	16000		1000	280	mg/L			04/01/21 01:14	1000
Fluoride	2.5	U	2.5	1.2	mg/L			04/01/21 00:54	50
Sulfate	50	U	50	17	mg/L			04/01/21 00:54	50
Total Dissolved Solids	28000		1000	780	mg/L			03/30/21 09:37	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146417-1

Client Sample ID: 96147

Lab Sample ID: 240-146417-9

Date Collected: 03/23/21 10:12

Matrix: Water

Date Received: 03/25/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	460	B	100	23	ug/L		03/26/21 14:00	03/29/21 22:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	25000		1000	580	ug/L		03/26/21 14:00	03/31/21 17:41	1
Magnesium	6800		1000	200	ug/L		03/26/21 14:00	03/30/21 20:28	1
Potassium	3500		1000	220	ug/L		03/26/21 14:00	03/30/21 20:28	1
Sodium	1300000		1000	330	ug/L		03/26/21 14:00	03/30/21 20:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	830		5.0	2.6	mg/L			03/26/21 15:53	1
Bicarbonate Alkalinity as CaCO3	830		5.0	2.6	mg/L			03/26/21 15:53	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/26/21 15:53	1
Chloride	1100		20	5.7	mg/L			04/01/21 01:54	20
Fluoride	4.2		0.25	0.12	mg/L			04/01/21 01:34	5
Sulfate	200		5.0	1.7	mg/L			04/01/21 01:34	5
Total Dissolved Solids	3500		50	39	mg/L			03/30/21 09:37	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146417-1

Client Sample ID: 2016-07

Lab Sample ID: 240-146417-10

Date Collected: 03/23/21 12:44

Matrix: Water

Date Received: 03/25/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	320	B	100	23	ug/L		03/26/21 14:00	03/29/21 22:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	8200		1000	580	ug/L		03/26/21 14:00	03/31/21 17:45	1
Magnesium	1400		1000	200	ug/L		03/26/21 14:00	03/30/21 20:31	1
Potassium	9800		1000	220	ug/L		03/26/21 14:00	03/30/21 20:31	1
Sodium	670000		1000	330	ug/L		03/26/21 14:00	03/30/21 20:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	350		5.0	2.6	mg/L			03/26/21 15:59	1
Bicarbonate Alkalinity as CaCO3	31		5.0	2.6	mg/L			03/26/21 15:59	1
Carbonate Alkalinity as CaCO3	310		5.0	2.6	mg/L			03/26/21 15:59	1
Chloride	840		10	2.8	mg/L			04/02/21 06:34	10
Fluoride	2.2		0.050	0.024	mg/L			04/01/21 02:14	1
Sulfate	26		1.0	0.35	mg/L			04/01/21 02:14	1
Total Dissolved Solids	2000		40	31	mg/L			03/30/21 09:37	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146417-1

Client Sample ID: 2016-08
Date Collected: 03/23/21 13:13
Date Received: 03/25/21 08:00

Lab Sample ID: 240-146417-11
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	48	J B	100	23	ug/L		03/26/21 14:00	03/29/21 22:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	620000		1000	580	ug/L		03/26/21 14:00	04/01/21 14:15	1
Magnesium	1000	U	1000	200	ug/L		03/26/21 14:00	03/30/21 20:33	1
Potassium	31000		1000	220	ug/L		03/26/21 14:00	03/30/21 20:33	1
Sodium	240000		1000	330	ug/L		03/26/21 14:00	03/30/21 20:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	1900		5.0	2.6	mg/L			03/26/21 16:09	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/26/21 16:09	1
Carbonate Alkalinity as CaCO3	35		5.0	2.6	mg/L			03/26/21 16:09	1
Chloride	180		5.0	1.4	mg/L			04/02/21 06:56	5
Fluoride	0.53		0.25	0.12	mg/L			04/02/21 06:56	5
Sulfate	6.4		5.0	1.7	mg/L			04/02/21 06:56	5
Total Dissolved Solids	2400		50	39	mg/L			03/30/21 09:37	1

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146417-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-478444/1-A
 Matrix: Water
 Analysis Batch: 478820

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 478444

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	60.9	J	100	23	ug/L		03/26/21 14:00	03/29/21 20:46	1

Lab Sample ID: LCS 240-478444/2-A
 Matrix: Water
 Analysis Batch: 478820

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 478444

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1000	1070		ug/L		107	80 - 120

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-478444/1-A
 Matrix: Water
 Analysis Batch: 479012

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 478444

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	1000	U	1000	200	ug/L		03/26/21 14:00	03/30/21 19:44	1
Potassium	1000	U	1000	220	ug/L		03/26/21 14:00	03/30/21 19:44	1
Sodium	1000	U	1000	330	ug/L		03/26/21 14:00	03/30/21 19:44	1

Lab Sample ID: MB 240-478444/1-A
 Matrix: Water
 Analysis Batch: 479195

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 478444

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000	580	ug/L		03/26/21 14:00	03/31/21 15:59	1

Lab Sample ID: LCS 240-478444/3-A
 Matrix: Water
 Analysis Batch: 479012

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 478444

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Magnesium	25000	24500		ug/L		98	80 - 120
Potassium	25000	24400		ug/L		98	80 - 120
Sodium	25000	24500		ug/L		98	80 - 120

Lab Sample ID: LCS 240-478444/3-A
 Matrix: Water
 Analysis Batch: 479195

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 478444

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	25000	25900		ug/L		104	80 - 120

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146417-1

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-478678/30
 Matrix: Water
 Analysis Batch: 478678

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	5.0	U	5.0	2.6	mg/L			03/26/21 14:14	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/26/21 14:14	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/26/21 14:14	1

Lab Sample ID: LCS 240-478678/29
 Matrix: Water
 Analysis Batch: 478678

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity	246	242		mg/L		98	86 - 123

Lab Sample ID: 240-146417-3 DU
 Matrix: Water
 Analysis Batch: 478678

Client Sample ID: TRIP BLANK
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Alkalinity	5.0	U	5.0	U	mg/L		NC	20
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	U	mg/L		NC	20
Carbonate Alkalinity as CaCO3	5.0	U	5.0	U	mg/L		NC	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-478943/3
 Matrix: Water
 Analysis Batch: 478943

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.28	mg/L			03/31/21 15:11	1
Fluoride	0.050	U	0.050	0.024	mg/L			03/31/21 15:11	1
Sulfate	1.0	U	1.0	0.35	mg/L			03/31/21 15:11	1

Lab Sample ID: LCS 240-478943/4
 Matrix: Water
 Analysis Batch: 478943

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	47.9		mg/L		96	90 - 110
Fluoride	2.50	2.45		mg/L		98	90 - 110
Sulfate	50.0	48.6		mg/L		97	90 - 110

Lab Sample ID: 240-146417-6 MS
 Matrix: Water
 Analysis Batch: 478943

Client Sample ID: 94137
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	26		50.0	73.9		mg/L		96	80 - 120
Fluoride	0.11		2.50	2.59		mg/L		99	80 - 120

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146417-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 240-146417-6 MS
Matrix: Water
Analysis Batch: 478943

Client Sample ID: 94137
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	330		250	545		mg/L		88	80 - 120

Lab Sample ID: 240-146417-6 MSD
Matrix: Water
Analysis Batch: 478943

Client Sample ID: 94137
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	26		50.0	74.8		mg/L		98	80 - 120	1	15
Fluoride	0.11		2.50	2.65		mg/L		101	80 - 120	2	15

Lab Sample ID: 240-146417-6 MSD
Matrix: Water
Analysis Batch: 478943

Client Sample ID: 94137
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	330		250	549		mg/L		89	80 - 120	1	15

Lab Sample ID: MB 240-479346/3
Matrix: Water
Analysis Batch: 479346

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.28	mg/L			04/02/21 03:40	1
Fluoride	0.050	U	0.050	0.024	mg/L			04/02/21 03:40	1
Sulfate	1.0	U	1.0	0.35	mg/L			04/02/21 03:40	1

Lab Sample ID: LCS 240-479346/4
Matrix: Water
Analysis Batch: 479346

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.3		mg/L		101	90 - 110
Fluoride	2.50	2.65		mg/L		106	90 - 110
Sulfate	50.0	50.8		mg/L		102	90 - 110

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

Lab Sample ID: MB 240-478407/1
Matrix: Water
Analysis Batch: 478407

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	10	U	10	7.8	mg/L			03/26/21 08:45	1

Lab Sample ID: LCS 240-478407/2
Matrix: Water
Analysis Batch: 478407

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	245	252		mg/L		103	80 - 120

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QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146417-1

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

Lab Sample ID: MB 240-478829/1
Matrix: Water
Analysis Batch: 478829

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	10	U	10	7.8	mg/L			03/30/21 09:37	1

Lab Sample ID: LCS 240-478829/2
Matrix: Water
Analysis Batch: 478829

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	245	272		mg/L		111	80 - 120

Lab Sample ID: 240-146417-8 DU
Matrix: Water
Analysis Batch: 478829

Client Sample ID: 96149
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	28000		26200		mg/L		8	20

QC Association Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146417-1

Metals

Prep Batch: 478444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146417-1	2000	Total Recoverable	Water	3005A	
240-146417-2	DUP #3 (2000)	Total Recoverable	Water	3005A	
240-146417-3	TRIP BLANK	Total Recoverable	Water	3005A	
240-146417-4	FIELD BLANK	Total Recoverable	Water	3005A	
240-146417-5	94136	Total Recoverable	Water	3005A	
240-146417-6	94137	Total Recoverable	Water	3005A	
240-146417-7	2018-01	Total Recoverable	Water	3005A	
240-146417-8	96149	Total Recoverable	Water	3005A	
240-146417-9	96147	Total Recoverable	Water	3005A	
240-146417-10	2016-07	Total Recoverable	Water	3005A	
240-146417-11	2016-08	Total Recoverable	Water	3005A	
MB 240-478444/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-478444/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-478444/3-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 478820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146417-1	2000	Total Recoverable	Water	6010B	478444
240-146417-2	DUP #3 (2000)	Total Recoverable	Water	6010B	478444
240-146417-3	TRIP BLANK	Total Recoverable	Water	6010B	478444
240-146417-4	FIELD BLANK	Total Recoverable	Water	6010B	478444
240-146417-5	94136	Total Recoverable	Water	6010B	478444
240-146417-6	94137	Total Recoverable	Water	6010B	478444
240-146417-7	2018-01	Total Recoverable	Water	6010B	478444
240-146417-8	96149	Total Recoverable	Water	6010B	478444
240-146417-9	96147	Total Recoverable	Water	6010B	478444
240-146417-10	2016-07	Total Recoverable	Water	6010B	478444
240-146417-11	2016-08	Total Recoverable	Water	6010B	478444
MB 240-478444/1-A	Method Blank	Total Recoverable	Water	6010B	478444
LCS 240-478444/2-A	Lab Control Sample	Total Recoverable	Water	6010B	478444

Analysis Batch: 479012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146417-1	2000	Total Recoverable	Water	6020	478444
240-146417-2	DUP #3 (2000)	Total Recoverable	Water	6020	478444
240-146417-3	TRIP BLANK	Total Recoverable	Water	6020	478444
240-146417-4	FIELD BLANK	Total Recoverable	Water	6020	478444
240-146417-5	94136	Total Recoverable	Water	6020	478444
240-146417-6	94137	Total Recoverable	Water	6020	478444
240-146417-7	2018-01	Total Recoverable	Water	6020	478444
240-146417-8	96149	Total Recoverable	Water	6020	478444
240-146417-9	96147	Total Recoverable	Water	6020	478444
240-146417-10	2016-07	Total Recoverable	Water	6020	478444
240-146417-11	2016-08	Total Recoverable	Water	6020	478444
MB 240-478444/1-A	Method Blank	Total Recoverable	Water	6020	478444
LCS 240-478444/3-A	Lab Control Sample	Total Recoverable	Water	6020	478444

Analysis Batch: 479195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146417-1	2000	Total Recoverable	Water	6020	478444
240-146417-2	DUP #3 (2000)	Total Recoverable	Water	6020	478444

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QC Association Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146417-1

Metals (Continued)

Analysis Batch: 479195 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146417-3	TRIP BLANK	Total Recoverable	Water	6020	478444
240-146417-4	FIELD BLANK	Total Recoverable	Water	6020	478444
240-146417-5	94136	Total Recoverable	Water	6020	478444
240-146417-6	94137	Total Recoverable	Water	6020	478444
240-146417-7	2018-01	Total Recoverable	Water	6020	478444
240-146417-8	96149	Total Recoverable	Water	6020	478444
240-146417-9	96147	Total Recoverable	Water	6020	478444
240-146417-10	2016-07	Total Recoverable	Water	6020	478444
MB 240-478444/1-A	Method Blank	Total Recoverable	Water	6020	478444
LCS 240-478444/3-A	Lab Control Sample	Total Recoverable	Water	6020	478444

Analysis Batch: 479395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146417-11	2016-08	Total Recoverable	Water	6020	478444

General Chemistry

Analysis Batch: 478407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146417-1	2000	Total/NA	Water	SM 2540C	
240-146417-2	DUP #3 (2000)	Total/NA	Water	SM 2540C	
240-146417-3	TRIP BLANK	Total/NA	Water	SM 2540C	
240-146417-4	FIELD BLANK	Total/NA	Water	SM 2540C	
240-146417-5	94136	Total/NA	Water	SM 2540C	
240-146417-6	94137	Total/NA	Water	SM 2540C	
240-146417-7	2018-01	Total/NA	Water	SM 2540C	
MB 240-478407/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-478407/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 478678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146417-1	2000	Total/NA	Water	2320B-1997	
240-146417-2	DUP #3 (2000)	Total/NA	Water	2320B-1997	
240-146417-3	TRIP BLANK	Total/NA	Water	2320B-1997	
240-146417-4	FIELD BLANK	Total/NA	Water	2320B-1997	
240-146417-5	94136	Total/NA	Water	2320B-1997	
240-146417-6	94137	Total/NA	Water	2320B-1997	
240-146417-7	2018-01	Total/NA	Water	2320B-1997	
240-146417-8	96149	Total/NA	Water	2320B-1997	
240-146417-9	96147	Total/NA	Water	2320B-1997	
240-146417-10	2016-07	Total/NA	Water	2320B-1997	
240-146417-11	2016-08	Total/NA	Water	2320B-1997	
MB 240-478678/30	Method Blank	Total/NA	Water	2320B-1997	
LCS 240-478678/29	Lab Control Sample	Total/NA	Water	2320B-1997	
240-146417-3 DU	TRIP BLANK	Total/NA	Water	2320B-1997	

Analysis Batch: 478829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146417-8	96149	Total/NA	Water	SM 2540C	
240-146417-9	96147	Total/NA	Water	SM 2540C	
240-146417-10	2016-07	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146417-1

General Chemistry (Continued)

Analysis Batch: 478829 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146417-11	2016-08	Total/NA	Water	SM 2540C	
MB 240-478829/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-478829/2	Lab Control Sample	Total/NA	Water	SM 2540C	
240-146417-8 DU	96149	Total/NA	Water	SM 2540C	

Analysis Batch: 478943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146417-1	2000	Total/NA	Water	300.0	
240-146417-1	2000	Total/NA	Water	300.0	
240-146417-2	DUP #3 (2000)	Total/NA	Water	300.0	
240-146417-2	DUP #3 (2000)	Total/NA	Water	300.0	
240-146417-3	TRIP BLANK	Total/NA	Water	300.0	
240-146417-4	FIELD BLANK	Total/NA	Water	300.0	
240-146417-5	94136	Total/NA	Water	300.0	
240-146417-5	94136	Total/NA	Water	300.0	
240-146417-6	94137	Total/NA	Water	300.0	
240-146417-6	94137	Total/NA	Water	300.0	
240-146417-7	2018-01	Total/NA	Water	300.0	
240-146417-7	2018-01	Total/NA	Water	300.0	
240-146417-8	96149	Total/NA	Water	300.0	
240-146417-8	96149	Total/NA	Water	300.0	
240-146417-9	96147	Total/NA	Water	300.0	
240-146417-9	96147	Total/NA	Water	300.0	
240-146417-10	2016-07	Total/NA	Water	300.0	
MB 240-478943/3	Method Blank	Total/NA	Water	300.0	
LCS 240-478943/4	Lab Control Sample	Total/NA	Water	300.0	
240-146417-6 MS	94137	Total/NA	Water	300.0	
240-146417-6 MS	94137	Total/NA	Water	300.0	
240-146417-6 MSD	94137	Total/NA	Water	300.0	
240-146417-6 MSD	94137	Total/NA	Water	300.0	

Analysis Batch: 479346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146417-10	2016-07	Total/NA	Water	300.0	
240-146417-11	2016-08	Total/NA	Water	300.0	
MB 240-479346/3	Method Blank	Total/NA	Water	300.0	
LCS 240-479346/4	Lab Control Sample	Total/NA	Water	300.0	

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146417-1

Client Sample ID: 2000

Lab Sample ID: 240-146417-1

Date Collected: 03/22/21 10:35

Matrix: Water

Date Received: 03/25/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	478820	03/29/21 21:28	DSH	TAL CAN
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	479195	03/31/21 16:50	DTN	TAL CAN
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	479012	03/30/21 20:03	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	478678	03/26/21 15:10	JMB	TAL CAN
Total/NA	Analysis	300.0		1	478943	03/31/21 18:12	JWW	TAL CAN
Total/NA	Analysis	300.0		10	478943	03/31/21 19:12	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	478407	03/26/21 08:45	AJ	TAL CAN

Client Sample ID: DUP #3 (2000)

Lab Sample ID: 240-146417-2

Date Collected: 03/22/21 10:35

Matrix: Water

Date Received: 03/25/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	478820	03/29/21 21:32	DSH	TAL CAN
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	479195	03/31/21 16:54	DTN	TAL CAN
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	479012	03/30/21 20:06	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	478678	03/26/21 15:14	JMB	TAL CAN
Total/NA	Analysis	300.0		1	478943	03/31/21 19:32	JWW	TAL CAN
Total/NA	Analysis	300.0		10	478943	03/31/21 19:52	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	478407	03/26/21 08:45	AJ	TAL CAN

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-146417-3

Date Collected: 03/22/21 11:10

Matrix: Water

Date Received: 03/25/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	478820	03/29/21 21:36	DSH	TAL CAN
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	479195	03/31/21 16:59	DTN	TAL CAN
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	479012	03/30/21 20:13	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	478678	03/26/21 15:18	JMB	TAL CAN
Total/NA	Analysis	300.0		1	478943	03/31/21 20:12	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	478407	03/26/21 08:45	AJ	TAL CAN

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146417-1

Client Sample ID: FIELD BLANK

Lab Sample ID: 240-146417-4

Date Collected: 03/22/21 11:15

Matrix: Water

Date Received: 03/25/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	478820	03/29/21 21:49	DSH	TAL CAN
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	479195	03/31/21 17:03	DTN	TAL CAN
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	479012	03/30/21 20:16	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	478678	03/26/21 15:27	JMB	TAL CAN
Total/NA	Analysis	300.0		1	478943	03/31/21 20:33	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	478407	03/26/21 08:45	AJ	TAL CAN

Client Sample ID: 94136

Lab Sample ID: 240-146417-5

Date Collected: 03/22/21 12:52

Matrix: Water

Date Received: 03/25/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	478820	03/29/21 21:53	DSH	TAL CAN
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	479195	03/31/21 17:07	DTN	TAL CAN
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	479012	03/30/21 20:18	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	478678	03/26/21 15:32	JMB	TAL CAN
Total/NA	Analysis	300.0		1	478943	03/31/21 20:53	JWW	TAL CAN
Total/NA	Analysis	300.0		10	478943	03/31/21 21:13	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	478407	03/26/21 08:45	AJ	TAL CAN

Client Sample ID: 94137

Lab Sample ID: 240-146417-6

Date Collected: 03/22/21 13:15

Matrix: Water

Date Received: 03/25/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	478820	03/29/21 21:58	DSH	TAL CAN
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	479195	03/31/21 17:12	DTN	TAL CAN
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	479012	03/30/21 20:21	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	478678	03/26/21 15:37	JMB	TAL CAN
Total/NA	Analysis	300.0		1	478943	03/31/21 21:33	JWW	TAL CAN
Total/NA	Analysis	300.0		5	478943	03/31/21 23:13	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	478407	03/26/21 08:45	AJ	TAL CAN

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146417-1

Client Sample ID: 2018-01
Date Collected: 03/22/21 13:56
Date Received: 03/25/21 08:00

Lab Sample ID: 240-146417-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	478820	03/29/21 22:02	DSH	TAL CAN
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	479195	03/31/21 17:16	DTN	TAL CAN
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	479012	03/30/21 20:23	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	478678	03/26/21 15:43	JMB	TAL CAN
Total/NA	Analysis	300.0		5	478943	04/01/21 00:14	JWW	TAL CAN
Total/NA	Analysis	300.0		25	478943	04/01/21 00:34	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	478407	03/26/21 08:45	AJ	TAL CAN

Client Sample ID: 96149
Date Collected: 03/23/21 09:33
Date Received: 03/25/21 08:00

Lab Sample ID: 240-146417-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	478820	03/29/21 22:06	DSH	TAL CAN
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		50	479195	03/31/21 17:23	DTN	TAL CAN
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	479012	03/30/21 20:26	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	478678	03/26/21 15:47	JMB	TAL CAN
Total/NA	Analysis	300.0		50	478943	04/01/21 00:54	JWW	TAL CAN
Total/NA	Analysis	300.0		1000	478943	04/01/21 01:14	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	478829	03/30/21 09:37	AJ	TAL CAN

Client Sample ID: 96147
Date Collected: 03/23/21 10:12
Date Received: 03/25/21 08:00

Lab Sample ID: 240-146417-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	478820	03/29/21 22:11	DSH	TAL CAN
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	479195	03/31/21 17:41	DTN	TAL CAN
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	479012	03/30/21 20:28	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	478678	03/26/21 15:53	JMB	TAL CAN
Total/NA	Analysis	300.0		5	478943	04/01/21 01:34	JWW	TAL CAN
Total/NA	Analysis	300.0		20	478943	04/01/21 01:54	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	478829	03/30/21 09:37	AJ	TAL CAN

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146417-1

Client Sample ID: 2016-07
Date Collected: 03/23/21 12:44
Date Received: 03/25/21 08:00

Lab Sample ID: 240-146417-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	478820	03/29/21 22:15	DSH	TAL CAN
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	479195	03/31/21 17:45	DTN	TAL CAN
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	479012	03/30/21 20:31	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	478678	03/26/21 15:59	JMB	TAL CAN
Total/NA	Analysis	300.0		10	479346	04/02/21 06:34	JMB	TAL CAN
Total/NA	Analysis	300.0		1	478943	04/01/21 02:14	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	478829	03/30/21 09:37	AJ	TAL CAN

Client Sample ID: 2016-08
Date Collected: 03/23/21 13:13
Date Received: 03/25/21 08:00

Lab Sample ID: 240-146417-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	478820	03/29/21 22:20	DSH	TAL CAN
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	479012	03/30/21 20:33	DTN	TAL CAN
Total Recoverable	Prep	3005A			478444	03/26/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	479395	04/01/21 14:15	RKT	TAL CAN
Total/NA	Analysis	2320B-1997		1	478678	03/26/21 16:09	JMB	TAL CAN
Total/NA	Analysis	300.0		5	479346	04/02/21 06:56	JMB	TAL CAN
Total/NA	Analysis	SM 2540C		1	478829	03/30/21 09:37	AJ	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146417-1

Laboratory: Eurofins TestAmerica, Canton

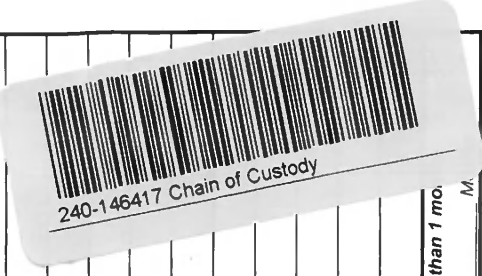
All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-21 *
Illinois	NELAP	004498	07-31-21
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21 *
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-21 *
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

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

Eurofins TestAmerica, Canton

Client Information		Sampler: <i>Shair</i>		Lab PM: Cisneros, Roxanne		COC No: 240-74320-29945-1	
Client Contact: Taylor Huffman		Phone: _____		E-Mail: roxanne.cisneros@Eurofinset.com		Page: 1 of 5	
Company: Lightstone Generation Gavin Power LLC		Address: 7397 OH-7		City: Cheshire		State: OH, Zip: 45620	
Phone: _____		PO #: 2928210		WO #: _____		Project #: 24019633	
Email: taylor.huffman@lightstonegen.com		SSOW#: _____		Due Date Requested: _____		TAT Requested (days): _____	
Project Name: Gavin CCR		Site: _____		Field Filtered Sample (Yes or No)		Performance MS/MSD (Yes or No)	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
2000		3/22/21		1035		G- Water	
Duplicate #3 (2000)		3/22/21		1035		G- Water	
TRIP Blank		3/22/21		1110		G- Water	
Field Blank		3/22/21		1115		G- Water	
94136		3/22/21		1252		G- Water	
94137		3/22/21		1315		G- Water	
2018-01		3/22/21		1356		G- Water	
96149		3/23/21		0933		G- Water	
96147		3/23/21		1012		G- Water	
2016-07		3/23/21		1244		G- Water	
2016-08		3/23/21		1313		G- Water	
Possible Hazard Identification		<input checked="" 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)		Date: _____		Time: _____		Method of Shipment: _____	
Empty Kit Relinquished by: <i>B. B. Swidwell</i>		Date/Time: 3/24/21 0830		Company: <i>ETA</i>		Date/Time: 3/24/21 1300	
Relinquished by: <i>B. B. Swidwell</i>		Date/Time: 3/24/21 1800		Company: <i>ETA</i>		Date/Time: MAR 25 2021	
Relinquished by: _____		Date/Time: _____		Company: _____		Date/Time: _____	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: _____		Cooler Temperature(s) °C and Other Remarks: _____		Special Instructions/Note: _____	



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Eurofins TestAmerica Canton Sample Receipt Form/Narrative Login # : 240-146417
Canton Facility

Client Lightstone Site Name _____ Cooler unpacked by: **MJS ETA CANTON**
Cooler Received on MAR 25 2021 Opened on MAR 25 2021
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____


Receipt After-hours: Drop-off Date/Time _____ **Storage Location** _____

TestAmerica Cooler # 14 Foam Box Client Cooler Box Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
IR GUN# IR-11 (CF +0.1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
IR GUN #IR-12 (CF +0.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 5 Yes No
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
-Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC022887
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials?  ← Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
17. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
Concerning _____

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____
did

19. SAMPLE CONDITION
Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION
Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____
VOA Sample Preservation - Date/Time VOAs Frozen: _____



Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>		<u>Preservative</u>	
			<u>pH</u>	<u>Temp</u>	<u>Added (mls)</u>	<u>Lot #</u>
2000	240-146417-C-1	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
DUP #3 (2000)	240-146417-C-2	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
TRIP BLANK	240-146417-C-3	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
FIELD BLANK	240-146417-C-4	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
94136	240-146417-C-5	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
94137	240-146417-C-6	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2018-01	240-146417-C-7	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
96149	240-146417-C-8	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
96147	240-146417-C-9	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2016-07	240-146417-C-10	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2016-08	240-146417-C-11	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-146656-1
Client Project/Site: Gavin CCR

For:

Lightstone Generation Gavin Power LLC
7397 OH-7
Cheshire, Ohio 45620

Attn: Taylor Huffman

Roxanne Cisneros

*Authorized for release by:
4/9/2021 3:33:01 PM*

Roxanne Cisneros, Senior Project Manager
(615)301-5761
roxanne.cisneros@Eurofinset.com

LINKS

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results through
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146656-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

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

Case Narrative

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146656-1

Job ID: 240-146656-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative
240-146656-1

Comments

No additional comments.

Receipt

The samples were received on 3/27/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6° C.

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.

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Method Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146656-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL CAN
6020	Metals (ICP/MS)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146656-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-146656-1	94139	Water	03/25/21 08:40	03/27/21 08:00	
240-146656-2	93100	Water	03/25/21 09:03	03/27/21 08:00	
240-146656-3	9802	Water	03/25/21 09:43	03/27/21 08:00	

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Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146656-1

Client Sample ID: 94139

Lab Sample ID: 240-146656-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	550		100	23	ug/L	1		6010B	Total Recoverable
Calcium	6900		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	2000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	1400		1000	220	ug/L	1		6020	Total Recoverable
Sodium	550000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	500		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	480		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	27		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	480		10	2.8	mg/L	10		300.0	Total/NA
Fluoride	4.5		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	59		1.0	0.35	mg/L	1		300.0	Total/NA
Total Dissolved Solids	1400		20	16	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 93100

Lab Sample ID: 240-146656-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	440		100	23	ug/L	1		6010B	Total Recoverable
Calcium	18000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	5700		1000	200	ug/L	1		6020	Total Recoverable
Potassium	2500		1000	220	ug/L	1		6020	Total Recoverable
Sodium	1400000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	330		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	320		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	3.0	J	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	2100		20	5.7	mg/L	20		300.0	Total/NA
Fluoride	2.5		0.25	0.12	mg/L	5		300.0	Total/NA
Sulfate	16		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	3800		50	39	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 9802

Lab Sample ID: 240-146656-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	220		100	23	ug/L	1		6010B	Total Recoverable
Calcium	27000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	7400		1000	200	ug/L	1		6020	Total Recoverable
Potassium	1500		1000	220	ug/L	1		6020	Total Recoverable
Sodium	290000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	600		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	600		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	42		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	1.0		0.050	0.024	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Detection Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146656-1

Client Sample ID: 9802 (Continued)

Lab Sample ID: 240-146656-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	70		1.0	0.35	mg/L	1		300.0	Total/NA
Total Dissolved Solids	730		20	16	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton



Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146656-1

Client Sample ID: 94139

Lab Sample ID: 240-146656-1

Date Collected: 03/25/21 08:40

Matrix: Water

Date Received: 03/27/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	550		100	23	ug/L		03/30/21 14:00	03/31/21 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	6900		1000	580	ug/L		03/30/21 14:00	03/31/21 22:40	1
Magnesium	2000		1000	200	ug/L		03/30/21 14:00	04/08/21 15:49	1
Potassium	1400		1000	220	ug/L		03/30/21 14:00	03/31/21 22:40	1
Sodium	550000		1000	330	ug/L		03/30/21 14:00	04/08/21 15:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	500		5.0	2.6	mg/L			03/31/21 04:10	1
Bicarbonate Alkalinity as CaCO3	480		5.0	2.6	mg/L			03/31/21 04:10	1
Carbonate Alkalinity as CaCO3	27		5.0	2.6	mg/L			03/31/21 04:10	1
Chloride	480		10	2.8	mg/L			04/07/21 07:50	10
Fluoride	4.5		0.050	0.024	mg/L			04/07/21 07:30	1
Sulfate	59		1.0	0.35	mg/L			04/07/21 07:30	1
Total Dissolved Solids	1400		20	16	mg/L			04/01/21 08:59	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146656-1

Client Sample ID: 93100

Lab Sample ID: 240-146656-2

Date Collected: 03/25/21 09:03

Matrix: Water

Date Received: 03/27/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	440		100	23	ug/L		03/30/21 14:00	03/31/21 19:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	18000		1000	580	ug/L		03/30/21 14:00	03/31/21 22:42	1
Magnesium	5700		1000	200	ug/L		03/30/21 14:00	04/08/21 15:52	1
Potassium	2500		1000	220	ug/L		03/30/21 14:00	03/31/21 22:42	1
Sodium	1400000		1000	330	ug/L		03/30/21 14:00	04/08/21 15:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	330		5.0	2.6	mg/L			03/31/21 04:15	1
Bicarbonate Alkalinity as CaCO3	320		5.0	2.6	mg/L			03/31/21 04:15	1
Carbonate Alkalinity as CaCO3	3.0	J	5.0	2.6	mg/L			03/31/21 04:15	1
Chloride	2100		20	5.7	mg/L			04/07/21 08:30	20
Fluoride	2.5		0.25	0.12	mg/L			04/07/21 08:10	5
Sulfate	16		5.0	1.7	mg/L			04/07/21 08:10	5
Total Dissolved Solids	3800		50	39	mg/L			04/01/21 08:59	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146656-1

Client Sample ID: 9802

Lab Sample ID: 240-146656-3

Date Collected: 03/25/21 09:43

Matrix: Water

Date Received: 03/27/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	220		100	23	ug/L		03/30/21 14:00	03/31/21 19:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	27000		1000	580	ug/L		03/30/21 14:00	03/31/21 22:45	1
Magnesium	7400		1000	200	ug/L		03/30/21 14:00	04/08/21 15:54	1
Potassium	1500		1000	220	ug/L		03/30/21 14:00	03/31/21 22:45	1
Sodium	290000		1000	330	ug/L		03/30/21 14:00	04/08/21 15:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	600		5.0	2.6	mg/L			03/31/21 04:20	1
Bicarbonate Alkalinity as CaCO3	600		5.0	2.6	mg/L			03/31/21 04:20	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/31/21 04:20	1
Chloride	42		1.0	0.28	mg/L			04/07/21 08:50	1
Fluoride	1.0		0.050	0.024	mg/L			04/07/21 08:50	1
Sulfate	70		1.0	0.35	mg/L			04/07/21 08:50	1
Total Dissolved Solids	730		20	16	mg/L			04/01/21 08:59	1

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146656-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-478847/1-A
 Matrix: Water
 Analysis Batch: 479082

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 478847

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100	23	ug/L		03/30/21 14:00	03/31/21 17:36	1

Lab Sample ID: LCS 240-478847/2-A
 Matrix: Water
 Analysis Batch: 479082

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 478847

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1000	987		ug/L		99	80 - 120

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-478847/1-A
 Matrix: Water
 Analysis Batch: 479210

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 478847

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000	580	ug/L		03/30/21 14:00	03/31/21 21:50	1
Magnesium	1000	U	1000	200	ug/L		03/30/21 14:00	03/31/21 21:50	1
Potassium	1000	U	1000	220	ug/L		03/30/21 14:00	03/31/21 21:50	1
Sodium	1000	U	1000	330	ug/L		03/30/21 14:00	03/31/21 21:50	1

Lab Sample ID: LCS 240-478847/3-A
 Matrix: Water
 Analysis Batch: 479210

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 478847

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	25000	25100		ug/L		100	80 - 120
Magnesium	25000	25600		ug/L		102	80 - 120
Potassium	25000	25100		ug/L		100	80 - 120
Sodium	25000	25100		ug/L		101	80 - 120

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-479135/30
 Matrix: Water
 Analysis Batch: 479135

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	5.0	U	5.0	2.6	mg/L			03/31/21 03:34	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/31/21 03:34	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			03/31/21 03:34	1

Lab Sample ID: LCS 240-479135/29
 Matrix: Water
 Analysis Batch: 479135

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity	246	238		mg/L		97	86 - 123

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146656-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-479959/3
 Matrix: Water
 Analysis Batch: 479959

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.28	mg/L			04/06/21 18:25	1
Fluoride	0.050	U	0.050	0.024	mg/L			04/06/21 18:25	1
Sulfate	1.0	U	1.0	0.35	mg/L			04/06/21 18:25	1

Lab Sample ID: LCS 240-479959/4
 Matrix: Water
 Analysis Batch: 479959

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.3		mg/L		99	90 - 110
Fluoride	2.50	2.52		mg/L		101	90 - 110
Sulfate	50.0	50.2		mg/L		100	90 - 110

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

Lab Sample ID: MB 240-479220/1
 Matrix: Water
 Analysis Batch: 479220

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	10	U	10	7.8	mg/L			04/01/21 08:59	1

Lab Sample ID: LCS 240-479220/2
 Matrix: Water
 Analysis Batch: 479220

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	245	242		mg/L		99	80 - 120

QC Association Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146656-1

Metals

Prep Batch: 478847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146656-1	94139	Total Recoverable	Water	3005A	
240-146656-2	93100	Total Recoverable	Water	3005A	
240-146656-3	9802	Total Recoverable	Water	3005A	
MB 240-478847/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-478847/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-478847/3-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 479082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146656-1	94139	Total Recoverable	Water	6010B	478847
240-146656-2	93100	Total Recoverable	Water	6010B	478847
240-146656-3	9802	Total Recoverable	Water	6010B	478847
MB 240-478847/1-A	Method Blank	Total Recoverable	Water	6010B	478847
LCS 240-478847/2-A	Lab Control Sample	Total Recoverable	Water	6010B	478847

Analysis Batch: 479210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146656-1	94139	Total Recoverable	Water	6020	478847
240-146656-2	93100	Total Recoverable	Water	6020	478847
240-146656-3	9802	Total Recoverable	Water	6020	478847
MB 240-478847/1-A	Method Blank	Total Recoverable	Water	6020	478847
LCS 240-478847/3-A	Lab Control Sample	Total Recoverable	Water	6020	478847

Analysis Batch: 480465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146656-1	94139	Total Recoverable	Water	6020	478847
240-146656-2	93100	Total Recoverable	Water	6020	478847
240-146656-3	9802	Total Recoverable	Water	6020	478847

General Chemistry

Analysis Batch: 479135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146656-1	94139	Total/NA	Water	2320B-1997	
240-146656-2	93100	Total/NA	Water	2320B-1997	
240-146656-3	9802	Total/NA	Water	2320B-1997	
MB 240-479135/30	Method Blank	Total/NA	Water	2320B-1997	
LCS 240-479135/29	Lab Control Sample	Total/NA	Water	2320B-1997	

Analysis Batch: 479220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146656-1	94139	Total/NA	Water	SM 2540C	
240-146656-2	93100	Total/NA	Water	SM 2540C	
240-146656-3	9802	Total/NA	Water	SM 2540C	
MB 240-479220/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-479220/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 479959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146656-1	94139	Total/NA	Water	300.0	
240-146656-1	94139	Total/NA	Water	300.0	

Eurofins TestAmerica, Canton

QC Association Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146656-1

General Chemistry (Continued)

Analysis Batch: 479959 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-146656-2	93100	Total/NA	Water	300.0	
240-146656-2	93100	Total/NA	Water	300.0	
240-146656-3	9802	Total/NA	Water	300.0	
MB 240-479959/3	Method Blank	Total/NA	Water	300.0	
LCS 240-479959/4	Lab Control Sample	Total/NA	Water	300.0	

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Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-146656-1

Client Sample ID: 94139

Lab Sample ID: 240-146656-1

Date Collected: 03/25/21 08:40

Matrix: Water

Date Received: 03/27/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			478847	03/30/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	479082	03/31/21 19:31	KLC	TAL CAN
Total Recoverable	Prep	3005A			478847	03/30/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	479210	03/31/21 22:40	RKT	TAL CAN
Total Recoverable	Prep	3005A			478847	03/30/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	480465	04/08/21 15:49	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	479135	03/31/21 04:10	AGC	TAL CAN
Total/NA	Analysis	300.0		1	479959	04/07/21 07:30	JWW	TAL CAN
Total/NA	Analysis	300.0		10	479959	04/07/21 07:50	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	479220	04/01/21 08:59	KLR	TAL CAN

Client Sample ID: 93100

Lab Sample ID: 240-146656-2

Date Collected: 03/25/21 09:03

Matrix: Water

Date Received: 03/27/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			478847	03/30/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	479082	03/31/21 19:44	KLC	TAL CAN
Total Recoverable	Prep	3005A			478847	03/30/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	479210	03/31/21 22:42	RKT	TAL CAN
Total Recoverable	Prep	3005A			478847	03/30/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	480465	04/08/21 15:52	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	479135	03/31/21 04:15	AGC	TAL CAN
Total/NA	Analysis	300.0		5	479959	04/07/21 08:10	JWW	TAL CAN
Total/NA	Analysis	300.0		20	479959	04/07/21 08:30	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	479220	04/01/21 08:59	KLR	TAL CAN

Client Sample ID: 9802

Lab Sample ID: 240-146656-3

Date Collected: 03/25/21 09:43

Matrix: Water

Date Received: 03/27/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			478847	03/30/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	479082	03/31/21 19:48	KLC	TAL CAN
Total Recoverable	Prep	3005A			478847	03/30/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	479210	03/31/21 22:45	RKT	TAL CAN
Total Recoverable	Prep	3005A			478847	03/30/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	480465	04/08/21 15:54	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	479135	03/31/21 04:20	AGC	TAL CAN
Total/NA	Analysis	300.0		1	479959	04/07/21 08:50	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	479220	04/01/21 08:59	KLR	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Eurofins TestAmerica, Canton

Accreditation/Certification Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-146656-1

Laboratory: Eurofins TestAmerica, Canton

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-21 *
Illinois	NELAP	004498	07-31-21
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21 *
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

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

Eurofins TestAmerica, Canton

Eurofins TestAmerica Canton Sample Receipt Form/Narrative		Login # : <u>146656</u>
Canton Facility		
Client <u>Lightstone</u>	Site Name _____	Cooler unpacked by: _____
Cooler Received on <u>3-27-21</u>	Opened on <u>3-28-21</u>	_____
FedEx: 1 st Grd Exp <u>UPS FAS Clipper</u> Client Drop Off <u>TestAmerica Courier</u> Other _____		
Receipt After-hours: Drop-off Date/Time		Storage Location
TestAmerica Cooler # <u>71A</u>	Foam Box <input type="checkbox"/>	Client Cooler <input type="checkbox"/>
	Box <input type="checkbox"/>	Other <input type="checkbox"/>
Packing material used: <u>Bubble</u> Wrap <input type="checkbox"/> Foam <input type="checkbox"/> Plastic Bag <input type="checkbox"/> None <input type="checkbox"/> Other _____		
COOLANT: <u>Wet Ice</u> <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> Water <input type="checkbox"/> None <input type="checkbox"/>		
1. Cooler temperature upon receipt <input checked="" type="checkbox"/> See Multiple Cooler Form		
IR GUN# IR-11 (CF +0.1 °C) Observed Cooler Temp. <u>3.5</u> °C Corrected Cooler Temp. <u>3.6</u> °C		
IR GUN #IR-12 (CF +0.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C		
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>2</u> Yes No		
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA		
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No		
-Were tamper/custody seals intact and uncompromised? Yes No NA		
3. Shippers' packing slip attached to the cooler(s)? Yes No		
4. Did custody papers accompany the sample(s)? Yes No		
5. Were the custody papers relinquished & signed in the appropriate place? Yes No		
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No		
7. Did all bottles arrive in good condition (Unbroken)? Yes No		
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No		
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N)?		
10. Were correct bottle(s) used for the test(s) indicated? Yes No		
11. Sufficient quantity received to perform indicated analyses? Yes No		
12. Are these work share samples and all listed on the COC? Yes No		
If yes, Questions 13-17 have been checked at the originating laboratory.		
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# <u>HC022887</u>		
14. Were VOAs on the COC? Yes No		
15. Were air bubbles >6 mm in any VOA vials? <input checked="" type="checkbox"/> Larger than this. Yes No NA		
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No		
17. Was a LL Hg or Me Hg trip blank present? Yes No		
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____		
Concerning _____		

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES <input type="checkbox"/> additional next page	Samples processed by: _____
_____ _____ _____	

19. SAMPLE CONDITION
Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION
Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____
VOA Sample Preservation - Date/Time VOAs Frozen: _____

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Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>		<u>Preservative</u>	
			<u>pH</u>	<u>Temp</u>	<u>Added (mls)</u>	<u>Lot #</u>
94139	240-146656-C-1	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
93100	240-146656-C-2	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
9802	240-146656-C-3	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-147310-1
Client Project/Site: Gavin CCR Wells

For:
Lightstone Generation Gavin Power LLC
7397 OH-7
Cheshire, Ohio 45620

Attn: Taylor Huffman

Roxanne Cisneros

*Authorized for release by:
4/22/2021 1:43:38 PM*

Roxanne Cisneros, Senior Project Manager
(615)301-5761
roxanne.cisneros@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR Wells

Job ID: 240-147310-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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

Case Narrative

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR Wells

Job ID: 240-147310-1

Job ID: 240-147310-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative
240-147310-1

Comments

No additional comments.

Receipt

The samples were received on 4/9/2021 1:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.7° C.

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.

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Method Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR Wells

Job ID: 240-147310-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL CAN
6020	Metals (ICP/MS)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR Wells

Job ID: 240-147310-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-147310-1	2018-02	Water	04/08/21 09:40	04/09/21 13:15	
240-147310-2	2018-03	Water	04/08/21 11:00	04/09/21 13:15	
240-147310-3	2018-04	Water	04/08/21 11:15	04/09/21 13:15	

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Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR Wells

Job ID: 240-147310-1

Client Sample ID: 2018-02

Lab Sample ID: 240-147310-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	340		100	23	ug/L	1		6010B	Total Recoverable
Calcium	68000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	20000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	6600		1000	220	ug/L	1		6020	Total Recoverable
Sodium	2500000		10000	3300	ug/L	10		6020	Total Recoverable
Total Alkalinity	270		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	270		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	4600		50	14	mg/L	50		300.0	Total/NA
Fluoride	1.5		0.25	0.12	mg/L	5		300.0	Total/NA
Sulfate	83		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	7100		100	78	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 2018-03

Lab Sample ID: 240-147310-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	310		100	23	ug/L	1		6010B	Total Recoverable
Calcium	170000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	34000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	4700		1000	220	ug/L	1		6020	Total Recoverable
Sodium	980000		5000	1600	ug/L	5		6020	Total Recoverable
Total Alkalinity	500		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	500		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	1200		20	5.7	mg/L	20		300.0	Total/NA
Fluoride	0.85		0.10	0.048	mg/L	2		300.0	Total/NA
Sulfate	520		20	7.0	mg/L	20		300.0	Total/NA
Total Dissolved Solids	3100		50	39	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 2018-04

Lab Sample ID: 240-147310-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	190		100	23	ug/L	1		6010B	Total Recoverable
Calcium	62000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	17000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	5600		1000	220	ug/L	1		6020	Total Recoverable
Sodium	300000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	340		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	330		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	11		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	33		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.74		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	510		10	3.5	mg/L	10		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Detection Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR Wells

Job ID: 240-147310-1

Client Sample ID: 2018-04 (Continued)

Lab Sample ID: 240-147310-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	1200		20	16	mg/L	1		SM 2540C	Total/NA

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This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR Wells

Job ID: 240-147310-1

Client Sample ID: 2018-02
 Date Collected: 04/08/21 09:40
 Date Received: 04/09/21 13:15

Lab Sample ID: 240-147310-1
 Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	340		100	23	ug/L		04/12/21 14:00	04/14/21 01:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	68000		1000	580	ug/L		04/12/21 14:00	04/13/21 16:00	1
Magnesium	20000		1000	200	ug/L		04/12/21 14:00	04/13/21 16:00	1
Potassium	6600		1000	220	ug/L		04/12/21 14:00	04/13/21 16:00	1
Sodium	2500000		10000	3300	ug/L		04/12/21 14:00	04/14/21 19:48	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	270		5.0	2.6	mg/L			04/15/21 19:21	1
Bicarbonate Alkalinity as CaCO3	270		5.0	2.6	mg/L			04/15/21 19:21	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			04/15/21 19:21	1
Chloride	4600		50	14	mg/L			04/20/21 15:05	50
Fluoride	1.5		0.25	0.12	mg/L			04/20/21 14:45	5
Sulfate	83		5.0	1.7	mg/L			04/20/21 14:45	5
Total Dissolved Solids	7100		100	78	mg/L			04/14/21 09:37	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR Wells

Job ID: 240-147310-1

Client Sample ID: 2018-03
 Date Collected: 04/08/21 11:00
 Date Received: 04/09/21 13:15

Lab Sample ID: 240-147310-2
 Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	310		100	23	ug/L		04/12/21 14:00	04/14/21 01:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	170000		1000	580	ug/L		04/12/21 14:00	04/13/21 16:04	1
Magnesium	34000		1000	200	ug/L		04/12/21 14:00	04/13/21 16:04	1
Potassium	4700		1000	220	ug/L		04/12/21 14:00	04/13/21 16:04	1
Sodium	980000		5000	1600	ug/L		04/12/21 14:00	04/14/21 19:51	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	500		5.0	2.6	mg/L			04/15/21 19:27	1
Bicarbonate Alkalinity as CaCO3	500		5.0	2.6	mg/L			04/15/21 19:27	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			04/15/21 19:27	1
Chloride	1200		20	5.7	mg/L			04/20/21 16:25	20
Fluoride	0.85		0.10	0.048	mg/L			04/20/21 15:25	2
Sulfate	520		20	7.0	mg/L			04/20/21 16:25	20
Total Dissolved Solids	3100		50	39	mg/L			04/14/21 09:37	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR Wells

Job ID: 240-147310-1

Client Sample ID: 2018-04
 Date Collected: 04/08/21 11:15
 Date Received: 04/09/21 13:15

Lab Sample ID: 240-147310-3
 Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	190		100	23	ug/L		04/12/21 14:00	04/14/21 01:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	62000		1000	580	ug/L		04/12/21 14:00	04/13/21 16:09	1
Magnesium	17000		1000	200	ug/L		04/12/21 14:00	04/13/21 16:09	1
Potassium	5600		1000	220	ug/L		04/12/21 14:00	04/13/21 16:09	1
Sodium	300000		1000	330	ug/L		04/12/21 14:00	04/13/21 16:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	340		5.0	2.6	mg/L			04/15/21 19:31	1
Bicarbonate Alkalinity as CaCO3	330		5.0	2.6	mg/L			04/15/21 19:31	1
Carbonate Alkalinity as CaCO3	11		5.0	2.6	mg/L			04/15/21 19:31	1
Chloride	33		1.0	0.28	mg/L			04/20/21 16:45	1
Fluoride	0.74		0.050	0.024	mg/L			04/20/21 16:45	1
Sulfate	510		10	3.5	mg/L			04/20/21 17:05	10
Total Dissolved Solids	1200		20	16	mg/L			04/14/21 09:37	1

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR Wells

Job ID: 240-147310-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-480735/1-A
 Matrix: Water
 Analysis Batch: 481083

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 480735

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100	23	ug/L		04/12/21 14:00	04/13/21 23:34	1

Lab Sample ID: LCS 240-480735/2-A
 Matrix: Water
 Analysis Batch: 481083

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 480735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1000	1010		ug/L		101	80 - 120

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-480735/1-A
 Matrix: Water
 Analysis Batch: 481069

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 480735

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000	580	ug/L		04/12/21 14:00	04/13/21 14:04	1
Magnesium	1000	U	1000	200	ug/L		04/12/21 14:00	04/13/21 14:04	1
Potassium	1000	U	1000	220	ug/L		04/12/21 14:00	04/13/21 14:04	1
Sodium	1000	U	1000	330	ug/L		04/12/21 14:00	04/13/21 14:04	1

Lab Sample ID: LCS 240-480735/3-A
 Matrix: Water
 Analysis Batch: 481069

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 480735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	25000	24700		ug/L		99	80 - 120
Magnesium	25000	24200		ug/L		97	80 - 120
Potassium	25000	24000		ug/L		96	80 - 120
Sodium	25000	23800		ug/L		95	80 - 120

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-481531/56
 Matrix: Water
 Analysis Batch: 481531

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	5.0	U	5.0	2.6	mg/L			04/15/21 18:57	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			04/15/21 18:57	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			04/15/21 18:57	1

Lab Sample ID: LCS 240-481531/55
 Matrix: Water
 Analysis Batch: 481531

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity	217	211		mg/L		97	86 - 123

Eurofins TestAmerica, Canton

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR Wells

Job ID: 240-147310-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-481955/3
 Matrix: Water
 Analysis Batch: 481955

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.28	mg/L			04/20/21 12:24	1
Fluoride	0.050	U	0.050	0.024	mg/L			04/20/21 12:24	1
Sulfate	1.0	U	1.0	0.35	mg/L			04/20/21 12:24	1

Lab Sample ID: LCS 240-481955/4
 Matrix: Water
 Analysis Batch: 481955

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.9		mg/L		102	90 - 110
Fluoride	2.50	2.59		mg/L		104	90 - 110
Sulfate	50.0	51.0		mg/L		102	90 - 110

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

Lab Sample ID: MB 240-481096/1
 Matrix: Water
 Analysis Batch: 481096

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	10	U	10	7.8	mg/L			04/14/21 09:37	1

Lab Sample ID: LCS 240-481096/2
 Matrix: Water
 Analysis Batch: 481096

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	683	681		mg/L		100	80 - 120

QC Association Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR Wells

Job ID: 240-147310-1

Metals

Prep Batch: 480735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-147310-1	2018-02	Total Recoverable	Water	3005A	
240-147310-2	2018-03	Total Recoverable	Water	3005A	
240-147310-3	2018-04	Total Recoverable	Water	3005A	
MB 240-480735/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-480735/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-480735/3-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 481069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-147310-1	2018-02	Total Recoverable	Water	6020	480735
240-147310-2	2018-03	Total Recoverable	Water	6020	480735
240-147310-3	2018-04	Total Recoverable	Water	6020	480735
MB 240-480735/1-A	Method Blank	Total Recoverable	Water	6020	480735
LCS 240-480735/3-A	Lab Control Sample	Total Recoverable	Water	6020	480735

Analysis Batch: 481083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-147310-1	2018-02	Total Recoverable	Water	6010B	480735
240-147310-2	2018-03	Total Recoverable	Water	6010B	480735
240-147310-3	2018-04	Total Recoverable	Water	6010B	480735
MB 240-480735/1-A	Method Blank	Total Recoverable	Water	6010B	480735
LCS 240-480735/2-A	Lab Control Sample	Total Recoverable	Water	6010B	480735

Analysis Batch: 481260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-147310-1	2018-02	Total Recoverable	Water	6020	480735
240-147310-2	2018-03	Total Recoverable	Water	6020	480735

General Chemistry

Analysis Batch: 481096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-147310-1	2018-02	Total/NA	Water	SM 2540C	
240-147310-2	2018-03	Total/NA	Water	SM 2540C	
240-147310-3	2018-04	Total/NA	Water	SM 2540C	
MB 240-481096/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-481096/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 481531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-147310-1	2018-02	Total/NA	Water	2320B-1997	
240-147310-2	2018-03	Total/NA	Water	2320B-1997	
240-147310-3	2018-04	Total/NA	Water	2320B-1997	
MB 240-481531/56	Method Blank	Total/NA	Water	2320B-1997	
LCS 240-481531/55	Lab Control Sample	Total/NA	Water	2320B-1997	

Analysis Batch: 481955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-147310-1	2018-02	Total/NA	Water	300.0	
240-147310-1	2018-02	Total/NA	Water	300.0	
240-147310-2	2018-03	Total/NA	Water	300.0	

Eurofins TestAmerica, Canton

QC Association Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR Wells

Job ID: 240-147310-1

General Chemistry (Continued)

Analysis Batch: 481955 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-147310-2	2018-03	Total/NA	Water	300.0	
240-147310-3	2018-04	Total/NA	Water	300.0	
240-147310-3	2018-04	Total/NA	Water	300.0	
MB 240-481955/3	Method Blank	Total/NA	Water	300.0	
LCS 240-481955/4	Lab Control Sample	Total/NA	Water	300.0	

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Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR Wells

Job ID: 240-147310-1

Client Sample ID: 2018-02
Date Collected: 04/08/21 09:40
Date Received: 04/09/21 13:15

Lab Sample ID: 240-147310-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			480735	04/12/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	481083	04/14/21 01:23	DSH	TAL CAN
Total Recoverable	Prep	3005A			480735	04/12/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	481069	04/13/21 16:00	RKT	TAL CAN
Total Recoverable	Prep	3005A			480735	04/12/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		10	481260	04/14/21 19:48	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	481531	04/15/21 19:21	JMR	TAL CAN
Total/NA	Analysis	300.0		5	481955	04/20/21 14:45	AGC	TAL CAN
Total/NA	Analysis	300.0		50	481955	04/20/21 15:05	AGC	TAL CAN
Total/NA	Analysis	SM 2540C		1	481096	04/14/21 09:37	AJ	TAL CAN

Client Sample ID: 2018-03
Date Collected: 04/08/21 11:00
Date Received: 04/09/21 13:15

Lab Sample ID: 240-147310-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			480735	04/12/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	481083	04/14/21 01:27	DSH	TAL CAN
Total Recoverable	Prep	3005A			480735	04/12/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	481069	04/13/21 16:04	RKT	TAL CAN
Total Recoverable	Prep	3005A			480735	04/12/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		5	481260	04/14/21 19:51	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	481531	04/15/21 19:27	JMR	TAL CAN
Total/NA	Analysis	300.0		2	481955	04/20/21 15:25	AGC	TAL CAN
Total/NA	Analysis	300.0		20	481955	04/20/21 16:25	AGC	TAL CAN
Total/NA	Analysis	SM 2540C		1	481096	04/14/21 09:37	AJ	TAL CAN

Client Sample ID: 2018-04
Date Collected: 04/08/21 11:15
Date Received: 04/09/21 13:15

Lab Sample ID: 240-147310-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			480735	04/12/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	481083	04/14/21 01:32	DSH	TAL CAN
Total Recoverable	Prep	3005A			480735	04/12/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	481069	04/13/21 16:09	RKT	TAL CAN
Total/NA	Analysis	2320B-1997		1	481531	04/15/21 19:31	JMR	TAL CAN
Total/NA	Analysis	300.0		1	481955	04/20/21 16:45	AGC	TAL CAN
Total/NA	Analysis	300.0		10	481955	04/20/21 17:05	AGC	TAL CAN
Total/NA	Analysis	SM 2540C		1	481096	04/14/21 09:37	AJ	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR Wells

Job ID: 240-147310-1

Laboratory: Eurofins TestAmerica, Canton

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-22
Illinois	NELAP	004498	07-31-21
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21 *
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

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

Chain of Custody Record

Client Information Client Contact: Taylor Huffman Phone: 740-925-3171 E-Mail: john.mcfadden@testamericainc.com		Lab PM: McFadden John Carrier Tracking No(s): 088		COC No: Page of Job #	
Company: Lightsstone Generation Gavin Power LLC Address: 7397 OH-7 City: Cheshire State, Zip: OH 45620 Phone: 740-925-3171 (Tel) Email: Taylor.Huffman@lightsstone-gp.com Project #: CCR WELLS Site: GAVIN LLC		Analysis Requested 2540C_Calcd 300.0_28D(Cr...) 2320B(Carbonat Alka...) 6010B_6020(Ca um Mag es m Sod...) Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No)		Preservation Codes A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other:	
Sample Identification 2018-02 2018-03 2018-04		Sample Date 4-8-21 4-8-21 4-8-21	Sample Time 0940 1100 1115	Sample Type (C-comp, G-grab) G G G	Matrix (W/water, S-solid, O-waste/soil, BT-tissue, A-Air) W W W
Total Number of Containers: <input checked="" type="checkbox"/>					
Barcode: 240-147310 Chain of Custody					
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Irritant <input type="checkbox"/> Corrosive <input type="checkbox"/> Other (specify)					
Deliverable Requested I II III IV Other (specify)					
Empty Kit Relinquished by:					
Relinquished by: [Signature] Date/Time: 4-9-21 0940 Company: [Signature]		Relinquished by: Tom Edwards Date/Time: 4-9-21 1305 Company: [Signature]		Relinquished by: [Signature] Date/Time: 4-9-21 1315 Company: [Signature]	
Custody Seals Intact: <input checked="" type="checkbox"/>					
Cooler Temperature(s) °C and Other Remarks:					



Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # 240-147310

Client Lightstone Site Name _____
 Cooler Received on 4-9-21 Opened on 4-9-21
 FedEx 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Cooler unpacked by
Matts

Receipt After-hours Drop-off Date/Time _____ Storage Location _____


TestAmerica Cooler # NA Foam Box _____ Client Cooler _____ Box _____ Other _____
 Packing material used Bubble Wrap Foam Plastic Bag _____ None _____ Other _____
 COOLANT: Wet Ice Blue Ice _____ Dry Ice _____ Water _____ None _____

1 Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-11 (CF +0.1 °C) Observed Cooler Temp 4.2 °C Corrected Cooler Temp 4.7 °C
 IR GUN #IR-12 (CF +0.2°C) Observed Cooler Temp _____ °C Corrected Cooler Temp _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
 -Were tamper/custody seals intact and uncompromised? Yes No NA

Tests that are not checked for pH by Receiving:
 VOAs
 Oil and Grease
 TOC

3 Shippers' packing slip attached to the cooler(s)? Yes No
 4 Did custody papers accompany the sample(s)? Yes No
 5 Were the custody papers relinquished & signed in the appropriate place? Yes No
 6 Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
 7 Did all bottles arrive in good condition (Unbroken)? Yes No
 8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
 9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N)?
 10 Were correct bottle(s) used for the test(s) indicated? Yes No
 11 Sufficient quantity received to perform indicated analyses? Yes No
 12 Are these work share samples and all listed on the COC? Yes No

If yes, Questions 13-17 have been checked at the originating laboratory
 13 Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC022887
 14 Were VOAs on the COC? Yes No
 15 Were air bubbles >6 mm in any VOA vials? Yes No NA  ← Larger than this.
 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
 17 Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
 Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by _____

19. SAMPLE CONDITION
 Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container
 Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION
 Sample(s) _____ were further preserved in the laboratory
 Time preserved _____ Preservative(s) added/Lot number(s). _____
 VOA Sample Preservation - Date/Time VOAs Frozen. _____

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Temperature readings. _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>		<u>Preservative</u>	
			<u>pH</u>	<u>Temp</u>	<u>Added (mls)</u>	<u>Lot #</u>
2018-02	240-147310-B-1	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2018-03	240-147310-B-2	Plastic 500ml with Nitric Acid	<2	_____	_____	_____
2018-04	240-147310-B-3	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-147747-1
Client Project/Site: Gavin CCR

For:

Lightstone Generation Gavin Power LLC
7397 OH-7
Cheshire, Ohio 45620

Attn: Taylor Huffman

Roxanne Cisneros

*Authorized for release by:
4/26/2021 11:08:40 AM*

Roxanne Cisneros, Senior Project Manager
(615)301-5761
roxanne.cisneros@Eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-147747-1

Qualifiers

Metals

Qualifier	Qualifier Description
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.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Case Narrative

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-147747-1

Job ID: 240-147747-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative
240-147747-1

Comments

No additional comments.

Receipt

The samples were received on 4/17/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0° C.

Metals

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

General Chemistry

Method 300.0: The following sample was diluted due to the nature of the sample matrix: 2002 (240-147747-4). 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.

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Method Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-147747-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL CAN
6020	Metals (ICP/MS)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-147747-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-147747-1	2019-03	Water	04/15/21 09:32	04/17/21 08:00	
240-147747-2	2016-04	Water	04/15/21 10:13	04/17/21 08:00	
240-147747-3	2003	Water	04/15/21 13:48	04/17/21 08:00	
240-147747-4	2002	Water	04/15/21 14:26	04/17/21 08:00	

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Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-147747-1

Client Sample ID: 2019-03

Lab Sample ID: 240-147747-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	150		100	23	ug/L	1		6010B	Total Recoverable
Calcium	25000		1000	580	ug/L	1		6020	Total Recoverable
Potassium	100000		1000	220	ug/L	1		6020	Total Recoverable
Sodium	2200000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	2300		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	250		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	2600		50	14	mg/L	50		300.0	Total/NA
Fluoride	2.7		0.50	0.24	mg/L	10		300.0	Total/NA
Sulfate	140		10	3.5	mg/L	10		300.0	Total/NA
Total Dissolved Solids	6500		100	78	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 2016-04

Lab Sample ID: 240-147747-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	2300	B	100	23	ug/L	1		6010B	Total Recoverable
Calcium	520000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	110000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	9300		1000	220	ug/L	1		6020	Total Recoverable
Sodium	100000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	300		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	300		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	46		2.0	0.57	mg/L	2		300.0	Total/NA
Fluoride	0.15		0.10	0.048	mg/L	2		300.0	Total/NA
Sulfate	1800		10	3.5	mg/L	10		300.0	Total/NA
Total Dissolved Solids	2600		40	31	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 2003

Lab Sample ID: 240-147747-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	450	B	100	23	ug/L	1		6010B	Total Recoverable
Calcium	9000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	4200		1000	200	ug/L	1		6020	Total Recoverable
Potassium	5100		1000	220	ug/L	1		6020	Total Recoverable
Sodium	630000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	780		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	740		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	34		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	440		10	2.8	mg/L	10		300.0	Total/NA
Fluoride	3.3		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	76		1.0	0.35	mg/L	1		300.0	Total/NA
Total Dissolved Solids	1800		20	16	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-147747-1

Client Sample ID: 2002

Lab Sample ID: 240-147747-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	420	B	100	23	ug/L	1		6010B	Total Recoverable
Calcium	790000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	240000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	19000		1000	220	ug/L	1		6020	Total Recoverable
Sodium	9200000		20000	6600	ug/L	20		6020	Total Recoverable
Total Alkalinity	180		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	180		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	18000		100	28	mg/L	100		300.0	Total/NA
Sulfate	18	J	50	17	mg/L	50		300.0	Total/NA
Total Dissolved Solids	30000		1000	780	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton



Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-147747-1

Client Sample ID: 2019-03

Lab Sample ID: 240-147747-1

Date Collected: 04/15/21 09:32

Matrix: Water

Date Received: 04/17/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	150		100	23	ug/L		04/20/21 15:00	04/21/21 20:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	25000		1000	580	ug/L		04/20/21 15:00	04/21/21 15:48	1
Magnesium	1000	U	1000	200	ug/L		04/20/21 15:00	04/21/21 15:48	1
Potassium	100000		1000	220	ug/L		04/20/21 15:00	04/21/21 15:48	1
Sodium	2200000		1000	330	ug/L		04/20/21 15:00	04/21/21 15:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	2300		5.0	2.6	mg/L			04/24/21 19:34	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			04/24/21 19:34	1
Carbonate Alkalinity as CaCO3	250		5.0	2.6	mg/L			04/24/21 19:34	1
Chloride	2600		50	14	mg/L			04/23/21 00:55	50
Fluoride	2.7		0.50	0.24	mg/L			04/23/21 00:35	10
Sulfate	140		10	3.5	mg/L			04/23/21 00:35	10
Total Dissolved Solids	6500		100	78	mg/L			04/22/21 08:24	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-147747-1

Client Sample ID: 2016-04
 Date Collected: 04/15/21 10:13
 Date Received: 04/17/21 08:00

Lab Sample ID: 240-147747-2
 Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2300	B	100	23	ug/L		04/19/21 14:00	04/21/21 04:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	520000		1000	580	ug/L		04/19/21 14:00	04/20/21 20:58	1
Magnesium	110000		1000	200	ug/L		04/19/21 14:00	04/20/21 20:58	1
Potassium	9300		1000	220	ug/L		04/19/21 14:00	04/20/21 20:58	1
Sodium	100000		1000	330	ug/L		04/19/21 14:00	04/21/21 12:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	300		5.0	2.6	mg/L			04/24/21 19:46	1
Bicarbonate Alkalinity as CaCO3	300		5.0	2.6	mg/L			04/24/21 19:46	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			04/24/21 19:46	1
Chloride	46		2.0	0.57	mg/L			04/23/21 01:15	2
Fluoride	0.15		0.10	0.048	mg/L			04/23/21 01:15	2
Sulfate	1800		10	3.5	mg/L			04/23/21 01:35	10
Total Dissolved Solids	2600		40	31	mg/L			04/22/21 08:24	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-147747-1

Client Sample ID: 2003

Lab Sample ID: 240-147747-3

Date Collected: 04/15/21 13:48

Matrix: Water

Date Received: 04/17/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	450	B	100	23	ug/L		04/19/21 14:00	04/21/21 04:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	9000		1000	580	ug/L		04/19/21 14:00	04/20/21 21:01	1
Magnesium	4200		1000	200	ug/L		04/19/21 14:00	04/20/21 21:01	1
Potassium	5100		1000	220	ug/L		04/19/21 14:00	04/20/21 21:01	1
Sodium	630000		1000	330	ug/L		04/19/21 14:00	04/21/21 12:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	780		5.0	2.6	mg/L			04/24/21 19:57	1
Bicarbonate Alkalinity as CaCO3	740		5.0	2.6	mg/L			04/24/21 19:57	1
Carbonate Alkalinity as CaCO3	34		5.0	2.6	mg/L			04/24/21 19:57	1
Chloride	440		10	2.8	mg/L			04/23/21 02:16	10
Fluoride	3.3		0.050	0.024	mg/L			04/23/21 01:56	1
Sulfate	76		1.0	0.35	mg/L			04/23/21 01:56	1
Total Dissolved Solids	1800		20	16	mg/L			04/22/21 08:24	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-147747-1

Client Sample ID: 2002

Lab Sample ID: 240-147747-4

Date Collected: 04/15/21 14:26

Matrix: Water

Date Received: 04/17/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	420	B	100	23	ug/L		04/19/21 14:00	04/21/21 05:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	790000		1000	580	ug/L		04/19/21 14:00	04/20/21 21:03	1
Magnesium	240000		1000	200	ug/L		04/19/21 14:00	04/20/21 21:03	1
Potassium	19000		1000	220	ug/L		04/19/21 14:00	04/20/21 21:03	1
Sodium	9200000		20000	6600	ug/L		04/19/21 14:00	04/21/21 12:46	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	180		5.0	2.6	mg/L			04/24/21 20:02	1
Bicarbonate Alkalinity as CaCO3	180		5.0	2.6	mg/L			04/24/21 20:02	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			04/24/21 20:02	1
Chloride	18000		100	28	mg/L			04/23/21 03:36	100
Fluoride	2.5	U	2.5	1.2	mg/L			04/23/21 03:16	50
Sulfate	18	J	50	17	mg/L			04/23/21 03:16	50
Total Dissolved Solids	30000		1000	780	mg/L			04/22/21 08:24	1

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-147747-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-481729/1-A
 Matrix: Water
 Analysis Batch: 482002

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 481729

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	49.8	J	100	23	ug/L		04/19/21 14:00	04/21/21 03:04	1

Lab Sample ID: LCS 240-481729/2-A
 Matrix: Water
 Analysis Batch: 482002

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 481729

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1000	1040		ug/L		104	80 - 120

Lab Sample ID: MB 240-481988/1-A
 Matrix: Water
 Analysis Batch: 482189

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 481988

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100	23	ug/L		04/20/21 15:00	04/21/21 20:27	1

Lab Sample ID: LCS 240-481988/2-A
 Matrix: Water
 Analysis Batch: 482189

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 481988

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1000	938		ug/L		94	80 - 120

Lab Sample ID: 240-147747-1 MS
 Matrix: Water
 Analysis Batch: 482189

Client Sample ID: 2019-03
 Prep Type: Total Recoverable
 Prep Batch: 481988

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	150		1000	1080		ug/L		93	75 - 125

Lab Sample ID: 240-147747-1 MSD
 Matrix: Water
 Analysis Batch: 482189

Client Sample ID: 2019-03
 Prep Type: Total Recoverable
 Prep Batch: 481988

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	150		1000	1100		ug/L		95	75 - 125	2	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-481729/1-A
 Matrix: Water
 Analysis Batch: 481962

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 481729

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000	580	ug/L		04/19/21 14:00	04/20/21 19:56	1
Magnesium	1000	U	1000	200	ug/L		04/19/21 14:00	04/20/21 19:56	1
Potassium	1000	U	1000	220	ug/L		04/19/21 14:00	04/20/21 19:56	1
Sodium	1000	U	1000	330	ug/L		04/19/21 14:00	04/20/21 19:56	1

Eurofins TestAmerica, Canton

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-147747-1

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

Lab Sample ID: LCS 240-481729/3-A
Matrix: Water
Analysis Batch: 481962

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 481729

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	25000	24300		ug/L		97	80 - 120
Magnesium	25000	23500		ug/L		94	80 - 120
Potassium	25000	23500		ug/L		94	80 - 120
Sodium	25000	23200		ug/L		93	80 - 120

Lab Sample ID: MB 240-481988/1-A
Matrix: Water
Analysis Batch: 482275

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 481988

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000	580	ug/L		04/20/21 15:00	04/21/21 15:43	1
Magnesium	1000	U	1000	200	ug/L		04/20/21 15:00	04/21/21 15:43	1
Potassium	1000	U	1000	220	ug/L		04/20/21 15:00	04/21/21 15:43	1
Sodium	1000	U	1000	330	ug/L		04/20/21 15:00	04/21/21 15:43	1

Lab Sample ID: LCS 240-481988/3-A
Matrix: Water
Analysis Batch: 482275

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 481988

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	25000	23200		ug/L		93	80 - 120
Magnesium	25000	23200		ug/L		93	80 - 120
Potassium	25000	23000		ug/L		92	80 - 120
Sodium	25000	23300		ug/L		93	80 - 120

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-482707/30
Matrix: Water
Analysis Batch: 482707

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	5.0	U	5.0	2.6	mg/L			04/24/21 19:42	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			04/24/21 19:42	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			04/24/21 19:42	1

Lab Sample ID: MB 240-482707/4
Matrix: Water
Analysis Batch: 482707

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	5.0	U	5.0	2.6	mg/L			04/24/21 17:44	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			04/24/21 17:44	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			04/24/21 17:44	1

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-147747-1

Method: 2320B-1997 - Alkalinity, Total (Continued)

Lab Sample ID: LCS 240-482707/29
 Matrix: Water
 Analysis Batch: 482707

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity	217	218		mg/L		100	86 - 123

Lab Sample ID: LCS 240-482707/3
 Matrix: Water
 Analysis Batch: 482707

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity	217	211		mg/L		97	86 - 123

Lab Sample ID: 240-147747-2 DU
 Matrix: Water
 Analysis Batch: 482707

Client Sample ID: 2016-04
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	300		301		mg/L		0.9	20
Bicarbonate Alkalinity as CaCO3	300		301		mg/L		0.9	20
Carbonate Alkalinity as CaCO3	5.0	U	5.0	U	mg/L		NC	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-482387/3
 Matrix: Water
 Analysis Batch: 482387

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.28	mg/L			04/22/21 19:13	1
Fluoride	0.050	U	0.050	0.024	mg/L			04/22/21 19:13	1
Sulfate	1.0	U	1.0	0.35	mg/L			04/22/21 19:13	1

Lab Sample ID: LCS 240-482387/4
 Matrix: Water
 Analysis Batch: 482387

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.9		mg/L		102	90 - 110
Fluoride	2.50	2.60		mg/L		104	90 - 110
Sulfate	50.0	51.1		mg/L		102	90 - 110

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

Lab Sample ID: MB 240-482290/1
 Matrix: Water
 Analysis Batch: 482290

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	10	U	10	7.8	mg/L			04/22/21 08:24	1

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-147747-1

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

Lab Sample ID: LCS 240-482290/2
Matrix: Water
Analysis Batch: 482290

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	683	693		mg/L		101	80 - 120

Lab Sample ID: 240-147747-3 DU
Matrix: Water
Analysis Batch: 482290

Client Sample ID: 2003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1800		1800		mg/L		2	20



QC Association Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-147747-1

Metals

Prep Batch: 481729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-147747-2	2016-04	Total Recoverable	Water	3005A	
240-147747-3	2003	Total Recoverable	Water	3005A	
240-147747-4	2002	Total Recoverable	Water	3005A	
MB 240-481729/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-481729/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-481729/3-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 481962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-147747-2	2016-04	Total Recoverable	Water	6020	481729
240-147747-3	2003	Total Recoverable	Water	6020	481729
240-147747-4	2002	Total Recoverable	Water	6020	481729
MB 240-481729/1-A	Method Blank	Total Recoverable	Water	6020	481729
LCS 240-481729/3-A	Lab Control Sample	Total Recoverable	Water	6020	481729

Prep Batch: 481988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-147747-1	2019-03	Total Recoverable	Water	3005A	
MB 240-481988/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-481988/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-481988/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-147747-1 MS	2019-03	Total Recoverable	Water	3005A	
240-147747-1 MSD	2019-03	Total Recoverable	Water	3005A	

Analysis Batch: 482002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-147747-2	2016-04	Total Recoverable	Water	6010B	481729
240-147747-3	2003	Total Recoverable	Water	6010B	481729
240-147747-4	2002	Total Recoverable	Water	6010B	481729
MB 240-481729/1-A	Method Blank	Total Recoverable	Water	6010B	481729
LCS 240-481729/2-A	Lab Control Sample	Total Recoverable	Water	6010B	481729

Analysis Batch: 482189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-147747-1	2019-03	Total Recoverable	Water	6010B	481988
MB 240-481988/1-A	Method Blank	Total Recoverable	Water	6010B	481988
LCS 240-481988/2-A	Lab Control Sample	Total Recoverable	Water	6010B	481988
240-147747-1 MS	2019-03	Total Recoverable	Water	6010B	481988
240-147747-1 MSD	2019-03	Total Recoverable	Water	6010B	481988

Analysis Batch: 482275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-147747-1	2019-03	Total Recoverable	Water	6020	481988
240-147747-2	2016-04	Total Recoverable	Water	6020	481729
240-147747-3	2003	Total Recoverable	Water	6020	481729
240-147747-4	2002	Total Recoverable	Water	6020	481729
MB 240-481988/1-A	Method Blank	Total Recoverable	Water	6020	481988
LCS 240-481988/3-A	Lab Control Sample	Total Recoverable	Water	6020	481988

QC Association Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-147747-1

General Chemistry

Analysis Batch: 482290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-147747-1	2019-03	Total/NA	Water	SM 2540C	
240-147747-2	2016-04	Total/NA	Water	SM 2540C	
240-147747-3	2003	Total/NA	Water	SM 2540C	
240-147747-4	2002	Total/NA	Water	SM 2540C	
MB 240-482290/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-482290/2	Lab Control Sample	Total/NA	Water	SM 2540C	
240-147747-3 DU	2003	Total/NA	Water	SM 2540C	

Analysis Batch: 482387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-147747-1	2019-03	Total/NA	Water	300.0	
240-147747-1	2019-03	Total/NA	Water	300.0	
240-147747-2	2016-04	Total/NA	Water	300.0	
240-147747-2	2016-04	Total/NA	Water	300.0	
240-147747-3	2003	Total/NA	Water	300.0	
240-147747-3	2003	Total/NA	Water	300.0	
240-147747-4	2002	Total/NA	Water	300.0	
240-147747-4	2002	Total/NA	Water	300.0	
MB 240-482387/3	Method Blank	Total/NA	Water	300.0	
LCS 240-482387/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 482707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-147747-1	2019-03	Total/NA	Water	2320B-1997	
240-147747-2	2016-04	Total/NA	Water	2320B-1997	
240-147747-3	2003	Total/NA	Water	2320B-1997	
240-147747-4	2002	Total/NA	Water	2320B-1997	
MB 240-482707/30	Method Blank	Total/NA	Water	2320B-1997	
MB 240-482707/4	Method Blank	Total/NA	Water	2320B-1997	
LCS 240-482707/29	Lab Control Sample	Total/NA	Water	2320B-1997	
LCS 240-482707/3	Lab Control Sample	Total/NA	Water	2320B-1997	
240-147747-2 DU	2016-04	Total/NA	Water	2320B-1997	

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-147747-1

Client Sample ID: 2019-03

Date Collected: 04/15/21 09:32

Date Received: 04/17/21 08:00

Lab Sample ID: 240-147747-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			481988	04/20/21 15:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	482189	04/21/21 20:36	DSH	TAL CAN
Total Recoverable	Prep	3005A			481988	04/20/21 15:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	482275	04/21/21 15:48	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	482707	04/24/21 19:34	JMB	TAL CAN
Total/NA	Analysis	300.0		10	482387	04/23/21 00:35	JWW	TAL CAN
Total/NA	Analysis	300.0		50	482387	04/23/21 00:55	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	482290	04/22/21 08:24	AJ	TAL CAN

Client Sample ID: 2016-04

Date Collected: 04/15/21 10:13

Date Received: 04/17/21 08:00

Lab Sample ID: 240-147747-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			481729	04/19/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	482002	04/21/21 04:52	DSH	TAL CAN
Total Recoverable	Prep	3005A			481729	04/19/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	481962	04/20/21 20:58	DTN	TAL CAN
Total Recoverable	Prep	3005A			481729	04/19/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	482275	04/21/21 12:41	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	482707	04/24/21 19:46	JMB	TAL CAN
Total/NA	Analysis	300.0		2	482387	04/23/21 01:15	JWW	TAL CAN
Total/NA	Analysis	300.0		10	482387	04/23/21 01:35	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	482290	04/22/21 08:24	AJ	TAL CAN

Client Sample ID: 2003

Date Collected: 04/15/21 13:48

Date Received: 04/17/21 08:00

Lab Sample ID: 240-147747-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			481729	04/19/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	482002	04/21/21 04:56	DSH	TAL CAN
Total Recoverable	Prep	3005A			481729	04/19/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	481962	04/20/21 21:01	DTN	TAL CAN
Total Recoverable	Prep	3005A			481729	04/19/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	482275	04/21/21 12:44	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	482707	04/24/21 19:57	JMB	TAL CAN
Total/NA	Analysis	300.0		1	482387	04/23/21 01:56	JWW	TAL CAN
Total/NA	Analysis	300.0		10	482387	04/23/21 02:16	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	482290	04/22/21 08:24	AJ	TAL CAN

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-147747-1

Client Sample ID: 2002

Lab Sample ID: 240-147747-4

Date Collected: 04/15/21 14:26

Matrix: Water

Date Received: 04/17/21 08:00

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total Recoverable	Prep	3005A			481729	04/19/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6010B		1	482002	04/21/21 05:01	DSH	TAL CAN
Total Recoverable	Prep	3005A			481729	04/19/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		1	481962	04/20/21 21:03	DTN	TAL CAN
Total Recoverable	Prep	3005A			481729	04/19/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020		20	482275	04/21/21 12:46	DTN	TAL CAN
Total/NA	Analysis	2320B-1997		1	482707	04/24/21 20:02	JMB	TAL CAN
Total/NA	Analysis	300.0		50	482387	04/23/21 03:16	JWW	TAL CAN
Total/NA	Analysis	300.0		100	482387	04/23/21 03:36	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	482290	04/22/21 08:24	AJ	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-147747-1

Laboratory: Eurofins TestAmerica, Canton

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-22
Illinois	NELAP	004498	07-31-21
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21 *
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

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

Client Information
 Sampler: *Shawn* Lab PM: Cisneros, Roxanne Carrier Tracking No(s): **208**
 Phone: roxanne.cisneros@Eurofins.com E-Mail: roxanne.cisneros@Eurofins.com Page 3 of 5
 Job #: *093*

Company: Lightstone Generation Gavin Power LLC
 Address: 7397 OH-7
 City: Cheshire
 State, Zip: OH, 45620
 Phone: PO #: 2928210
 WO #: Project #: 24019633
 Email: taylor.huffman@lightstonegen.com
 Project Name: Gavin CCR
 Site: SSOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Sealed, On-water/oil, BT-Issue, Ar-Mat)	Field Filtered Sample (Yes or No)		Performs MSD (Type or No)		2320B - Alkalinity	Total Number of Containers	Special Instructions/Note:
					Field Filtered Sample (Yes or No)	Performs MSD (Type or No)	D	N			
<i>2019-03</i>	<i>4-15-21</i>	<i>0933</i>	<i>G-</i>	Water							
<i>2016-04</i>	<i>4-15-21</i>	<i>10:13</i>	<i>G-</i>	Water							
<i>2003</i>	<i>4-15-21</i>	<i>13:48</i>	<i>G-</i>	Water							
<i>2002</i>	<i>4-15-21</i>	<i>14:26</i>	<i>G-</i>	Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: *Shawn* Date: *4-16-21* Time: *0800*
 Relinquished by: *Shawn* Company: *ETA*
 Relinquished by: *Shawn* Company: *ETA*
 Relinquished by: *Shawn* Company: *ETA*

Custody Seals Intact: Yes No **Custody Seal No.:**

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:



Cambridge
208

Cambridge
208

Eurofins TestAmerica Canton Sample Receipt Form/Narrative

Login # : 147747

Canton Facility

Client Lightstone Generation Site Name Gavin CCR

Cooler unpacked by: JMD

Cooler Received on 4-17-21 Opened on 4-17-21

FedEx: 1st Grd Exp UPS FAS (Clipper) Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # TA Foam Box Client Cooler Box _____ Other _____
Packing material used: Bubble Wrap _____ Foam Plastic Bag None _____ Other _____
COOLANT: Wet Ice Blue Ice _____ Dry Ice _____ Water _____ None _____

- 1. Cooler temperature upon receipt See Multiple Cooler Form
IR GUN# IR-11 (CF +0.1 °C) Observed Cooler Temp. 0.9 °C Corrected Cooler Temp. 1.0 °C
IR GUN #IR-12 (CF +0.2°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
- 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
-Were tamper/custody seals intact and uncompromised? Yes No NA
- 3. Shippers' packing slip attached to the cooler(s)? Yes No
- 4. Did custody papers accompany the sample(s)? Yes No
- 5. Were the custody papers relinquished & signed in the appropriate place? Yes No
- 6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
- 7. Did all bottles arrive in good condition (Unbroken)? Yes No
- 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
- 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?
- 10. Were correct bottle(s) used for the test(s) indicated? Yes No
- 11. Sufficient quantity received to perform indicated analyses? Yes No
- 12. Are these work share samples and all listed on the COC? Yes No
If yes, Questions 13-17 have been checked at the originating laboratory.
- 13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC022887
- 14. Were VOAs on the COC? Yes No
- 15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
- 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
- 17. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page

Samples processed by: _____

2019-03 metals bottle
rec'd @ pH 12. Sticker placed for lab to
preserve JMD 4-17-21
All other metals L2

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>		<u>Preservative</u>	
			<u>pH</u>	<u>Temp</u>	<u>Added (mls)</u>	<u>Lot #</u>
2016-04	240-147747-C-2	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2003	240-147747-B-3	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2002	240-147747-C-4	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____

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

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-156536-1
Client Project/Site: Gavin CCR

For:

Lightstone Generation Gavin Power LLC
7397 OH-7
Cheshire, Ohio 45620

Attn: Taylor Huffman

Roxanne Cisneros

*Authorized for release by:
10/12/2021 9:45:53 AM*

Roxanne Cisneros, Senior Project Manager
(615)301-5761
roxanne.cisneros@Eurofinset.com

LINKS

Review your project
results through
Total Access

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**Ask
The
Expert**

Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-156536-1

Qualifiers

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Case Narrative

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-156536-1

Job ID: 240-156536-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

**Job Narrative
240-156536-1**

Comments

No additional comments.

Receipt

The samples were received on 9/22/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 1.5° C, 2.2° C, 3.3° C, 3.7° C, 3.8° C, 4.1° C and 4.8° C.

Metals

Method 6020: The continuing calibration blank (CCB) for samples: 2016-09 (240-156536-1), DUPLICATE #2 (240-156536-2), 96154R (240-156536-3), 96153R (240-156536-4), MW-20 (240-156536-5), 93108 (240-156536-7), MW-1 (240-156536-8), RIVER (240-156536-9), BAC-02 (240-156536-14), BAC-05 (240-156536-15) and BAC-04 (240-156536-16) contained Sodium above the requested reporting limit (RL). Associated samples were not re-analyzed because results were greater than 10X the value found in the CCB.

Method 6020: The following sample was diluted due to the nature of the sample matrix: 2016-10 (240-156536-6). Elevated reporting limits (RLs) are provided.

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

General Chemistry

Method SM 2320B: The following sample was analyzed outside of analytical holding time due to lab oversight: 96154R (240-156536-3).

Method 300.0: The following sample was diluted due to the nature of the sample matrix: 2016-10 (240-156536-6). 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.

Method Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-156536-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL CAN
6020	Metals (ICP/MS)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-156536-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-156536-1	2016-09	Water	09/20/21 09:38	09/22/21 08:00
240-156536-2	DUPLICATE #2	Water	09/20/21 09:38	09/22/21 08:00
240-156536-3	96154R	Water	09/20/21 10:03	09/22/21 08:00
240-156536-4	96153R	Water	09/20/21 10:44	09/22/21 08:00
240-156536-5	MW-20	Water	09/20/21 11:13	09/22/21 08:00
240-156536-6	2016-10	Water	09/20/21 13:23	09/22/21 08:00
240-156536-7	93108	Water	09/20/21 14:27	09/22/21 08:00
240-156536-8	MW-1	Water	09/20/21 15:33	09/22/21 08:00
240-156536-9	RIVER	Water	09/20/21 15:54	09/22/21 08:00
240-156536-10	BAC-1	Water	09/18/21 09:39	09/22/21 08:00
240-156536-11	MW-6	Water	09/18/21 10:13	09/22/21 08:00
240-156536-12	BAC-07	Water	09/18/21 10:51	09/22/21 08:00
240-156536-13	BAC-06	Water	09/18/21 12:47	09/22/21 08:00
240-156536-14	BAC-02	Water	09/18/21 13:24	09/22/21 08:00
240-156536-15	BAC-05	Water	09/18/21 13:55	09/22/21 08:00
240-156536-16	BAC-04	Water	09/18/21 15:11	09/22/21 08:00
240-156536-17	BAC-03	Water	09/18/21 15:44	09/22/21 08:00
240-156536-18	DUPLICATE #1 (BAC-03)	Water	09/18/21 15:44	09/22/21 08:00
240-156536-19	94136	Water	09/19/21 08:59	09/22/21 08:00
240-156536-20	94137	Water	09/19/21 09:22	09/22/21 08:00
240-156536-21	2000	Water	09/19/21 09:57	09/22/21 08:00
240-156536-22	MW-15	Water	09/19/21 12:06	09/22/21 08:00
240-156536-23	MW-17	Water	09/19/21 13:02	09/22/21 08:00
240-156536-24	B0903	Water	09/19/21 14:35	09/22/21 08:00
240-156536-25	BOTTOM ASH POND	Water	09/19/21 14:55	09/22/21 08:00
240-156536-26	RECLAIM POND	Water	09/19/21 15:08	09/22/21 08:00



Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: 2016-09

Lab Sample ID: 240-156536-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	120		100	57	ug/L	1		6010B	Total Recoverable
Calcium	52000		1000	580	ug/L	1		6020	Total Recoverable
Potassium	8800		1000	220	ug/L	1		6020	Total Recoverable
Sodium	1000000	^2	1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	1500		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	77		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	870		5.0	1.4	mg/L	5		300.0	Total/NA
Fluoride	1.1		0.25	0.12	mg/L	5		300.0	Total/NA
Sulfate	43		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	2200		50	39	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUPLICATE #2

Lab Sample ID: 240-156536-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	130		100	57	ug/L	1		6010B	Total Recoverable
Calcium	56000		1000	580	ug/L	1		6020	Total Recoverable
Potassium	9600		1000	220	ug/L	1		6020	Total Recoverable
Sodium	1100000	^2	1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	1500		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	75		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	860		5.0	1.4	mg/L	5		300.0	Total/NA
Fluoride	1.0		0.25	0.12	mg/L	5		300.0	Total/NA
Sulfate	42		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	2700		50	39	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 96154R

Lab Sample ID: 240-156536-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	530		100	57	ug/L	1		6010B	Total Recoverable
Calcium	14000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	1500		1000	200	ug/L	1		6020	Total Recoverable
Potassium	3800		1000	220	ug/L	1		6020	Total Recoverable
Sodium	570000	^2	1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	550	H	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	500	H	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	48	H	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	520		10	2.8	mg/L	10		300.0	Total/NA
Fluoride	4.4		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	41		1.0	0.35	mg/L	1		300.0	Total/NA
Total Dissolved Solids	1300		20	16	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: 96153R

Lab Sample ID: 240-156536-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	510		100	57	ug/L	1		6010B	Total Recoverable
Calcium	120000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	23000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	5800		1000	220	ug/L	1		6020	Total Recoverable
Sodium	320000	^2	1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	350		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	120		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	230		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	11		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.80		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	950		10	3.5	mg/L	10		300.0	Total/NA
Total Dissolved Solids	1500		20	16	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-20

Lab Sample ID: 240-156536-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	99	J	100	57	ug/L	1		6010B	Total Recoverable
Calcium	440000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	100000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	5400		1000	220	ug/L	1		6020	Total Recoverable
Sodium	24000	^2	1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	170		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	170		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	1.8		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	1.4		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	1600		10	3.5	mg/L	10		300.0	Total/NA
Total Dissolved Solids	2100		20	16	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 2016-10

Lab Sample ID: 240-156536-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	430		100	57	ug/L	1		6010B	Total Recoverable
Calcium	650000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	220000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	60000		1000	220	ug/L	1		6020	Total Recoverable
Sodium	8000000		10000	3300	ug/L	10		6020	Total Recoverable
Total Alkalinity	110		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	110		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	15000		1000	280	mg/L	1000		300.0	Total/NA
Sulfate	300		50	17	mg/L	50		300.0	Total/NA
Total Dissolved Solids	22000		1000	780	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: 93108

Lab Sample ID: 240-156536-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	440		100	57	ug/L	1		6010B	Total Recoverable
Calcium	15000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	3800		1000	200	ug/L	1		6020	Total Recoverable
Potassium	1900		1000	220	ug/L	1		6020	Total Recoverable
Sodium	1100000	^2	1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	520		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	520		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	1500		20	5.7	mg/L	20		300.0	Total/NA
Fluoride	3.2		0.25	0.12	mg/L	5		300.0	Total/NA
Sulfate	39		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	2800		50	39	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-1

Lab Sample ID: 240-156536-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	69	J	100	57	ug/L	1		6010B	Total Recoverable
Calcium	130000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	15000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	1500		1000	220	ug/L	1		6020	Total Recoverable
Sodium	17000	^2	1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	240		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	240		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	41		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.11		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	140		1.0	0.35	mg/L	1		300.0	Total/NA
Total Dissolved Solids	490		10	7.8	mg/L	1		SM 2540C	Total/NA

Client Sample ID: RIVER

Lab Sample ID: 240-156536-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	65	J	100	57	ug/L	1		6010B	Total Recoverable
Calcium	33000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	8700		1000	200	ug/L	1		6020	Total Recoverable
Potassium	3000		1000	220	ug/L	1		6020	Total Recoverable
Sodium	23000	^2	1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	82		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	82		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	25		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.14		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	66		1.0	0.35	mg/L	1		300.0	Total/NA
Total Dissolved Solids	220		10	7.8	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: BAC-1

Lab Sample ID: 240-156536-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	100		100	57	ug/L	1		6010B	Total Recoverable
Calcium	100000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	13000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	1400		1000	220	ug/L	1		6020	Total Recoverable
Sodium	13000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	190	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	190	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	34		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.13		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	94		1.0	0.35	mg/L	1		300.0	Total/NA
Total Dissolved Solids	420		10	7.8	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 240-156536-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	110000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	14000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	1600		1000	220	ug/L	1		6020	Total Recoverable
Sodium	14000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	210	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	210	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	26		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.097		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	120		1.0	0.35	mg/L	1		300.0	Total/NA
Total Dissolved Solids	490		10	7.8	mg/L	1		SM 2540C	Total/NA

Client Sample ID: BAC-07

Lab Sample ID: 240-156536-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	1100		100	57	ug/L	1		6010B	Total Recoverable
Calcium	87000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	20000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	1300		1000	220	ug/L	1		6020	Total Recoverable
Sodium	16000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	110	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	110	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	27		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.082		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	180		1.0	0.35	mg/L	1		300.0	Total/NA
Total Dissolved Solids	510		10	7.8	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: BAC-06

Lab Sample ID: 240-156536-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	1700		100	57	ug/L	1		6010B	Total Recoverable
Calcium	120000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	28000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	1500		1000	220	ug/L	1		6020	Total Recoverable
Sodium	17000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	170	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	170	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	25		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.11		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	220		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	570		10	7.8	mg/L	1		SM 2540C	Total/NA

Client Sample ID: BAC-02

Lab Sample ID: 240-156536-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	1400		100	57	ug/L	1		6010B	Total Recoverable
Calcium	130000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	37000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	2800		1000	220	ug/L	1		6020	Total Recoverable
Sodium	65000	^2	1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	230	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	230	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	69		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.19		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	340		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	860		10	7.8	mg/L	1		SM 2540C	Total/NA

Client Sample ID: BAC-05

Lab Sample ID: 240-156536-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	3000		100	57	ug/L	1		6010B	Total Recoverable
Calcium	100000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	21000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	1400		1000	220	ug/L	1		6020	Total Recoverable
Sodium	21000	^2	1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	140	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	140	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	22		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.20		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	210		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	520		10	7.8	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: BAC-04

Lab Sample ID: 240-156536-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	2400		100	57	ug/L	1		6010B	Total Recoverable
Calcium	92000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	19000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	1800		1000	220	ug/L	1		6020	Total Recoverable
Sodium	26000	^2	1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	94	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	94	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	42		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.087		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	230		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	560		10	7.8	mg/L	1		SM 2540C	Total/NA

Client Sample ID: BAC-03

Lab Sample ID: 240-156536-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	1800		100	57	ug/L	1		6010B	Total Recoverable
Calcium	84000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	16000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	1900		1000	220	ug/L	1		6020	Total Recoverable
Sodium	34000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	86	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	86	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	64		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.065		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	180		1.0	0.35	mg/L	1		300.0	Total/NA
Total Dissolved Solids	470		10	7.8	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUPLICATE #1 (BAC-03)

Lab Sample ID: 240-156536-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	1800		100	57	ug/L	1		6010B	Total Recoverable
Calcium	84000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	17000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	1900		1000	220	ug/L	1		6020	Total Recoverable
Sodium	34000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	85	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	85	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	64		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.066		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	180		1.0	0.35	mg/L	1		300.0	Total/NA
Total Dissolved Solids	510		10	7.8	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: 94136

Lab Sample ID: 240-156536-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	350		100	57	ug/L	1		6010B	Total Recoverable
Calcium	14000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	3500		1000	200	ug/L	1		6020	Total Recoverable
Potassium	1700		1000	220	ug/L	1		6020	Total Recoverable
Sodium	650000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	300	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	300	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	930		10	2.8	mg/L	10		300.0	Total/NA
Fluoride	1.3		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	59		1.0	0.35	mg/L	1		300.0	Total/NA
Total Dissolved Solids	1800		20	16	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 94137

Lab Sample ID: 240-156536-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	140000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	46000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	1600		1000	220	ug/L	1		6020	Total Recoverable
Sodium	59000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	310	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	310	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	28		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.13		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	340		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	900		10	7.8	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 2000

Lab Sample ID: 240-156536-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	320		100	57	ug/L	1		6010B	Total Recoverable
Calcium	2700		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	700	J	1000	200	ug/L	1		6020	Total Recoverable
Potassium	780	J	1000	220	ug/L	1		6020	Total Recoverable
Sodium	460000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	360	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	320	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	38		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	110		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	2.5		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	530		10	3.5	mg/L	10		300.0	Total/NA
Total Dissolved Solids	1400		20	16	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: MW-15

Lab Sample ID: 240-156536-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	200		100	57	ug/L	1		6010B	Total Recoverable
Calcium	380000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	120000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	4200		1000	220	ug/L	1		6020	Total Recoverable
Sodium	190000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	400	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	400	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	22		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.18		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	1800		10	3.5	mg/L	10		300.0	Total/NA
Total Dissolved Solids	2900		40	31	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-17

Lab Sample ID: 240-156536-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	440		100	57	ug/L	1		6010B	Total Recoverable
Calcium	96000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	18000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	5500		1000	220	ug/L	1		6020	Total Recoverable
Sodium	2600000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	270	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	270	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	4500		50	14	mg/L	50		300.0	Total/NA
Fluoride	1.7		0.25	0.12	mg/L	5		300.0	Total/NA
Sulfate	47		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	7900		100	78	mg/L	1		SM 2540C	Total/NA

Client Sample ID: B0903

Lab Sample ID: 240-156536-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	23000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	11000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	2600		1000	220	ug/L	1		6020	Total Recoverable
Sodium	15000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	29	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	29	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	35		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.049	J	0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	53		1.0	0.35	mg/L	1		300.0	Total/NA
Total Dissolved Solids	270		10	7.8	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: BOTTOM ASH POND

Lab Sample ID: 240-156536-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	430		100	57	ug/L	1		6010B	Total Recoverable
Calcium	130000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	30000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	9700		1000	220	ug/L	1		6020	Total Recoverable
Sodium	81000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	69	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	69	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	100		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.59		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	440		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	890		10	7.8	mg/L	1		SM 2540C	Total/NA

Client Sample ID: RECLAIM POND

Lab Sample ID: 240-156536-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	420		100	57	ug/L	1		6010B	Total Recoverable
Calcium	130000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	29000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	9600		1000	220	ug/L	1		6020	Total Recoverable
Sodium	79000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	66	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	66	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	100		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.57		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	440		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	840		10	7.8	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: 2016-09

Lab Sample ID: 240-156536-1

Date Collected: 09/20/21 09:38

Matrix: Water

Date Received: 09/22/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	120		100	57	ug/L		09/23/21 14:00	10/04/21 21:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	52000		1000	580	ug/L		09/23/21 14:00	09/24/21 15:35	1
Magnesium	1000	U	1000	200	ug/L		09/23/21 14:00	09/24/21 15:35	1
Potassium	8800		1000	220	ug/L		09/23/21 14:00	09/24/21 15:35	1
Sodium	1000000	^2	1000	330	ug/L		09/23/21 14:00	09/24/21 15:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	1500		5.0	2.6	mg/L			10/04/21 12:48	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/04/21 12:48	1
Carbonate Alkalinity as CaCO3	77		5.0	2.6	mg/L			10/04/21 12:48	1
Chloride	870		5.0	1.4	mg/L			10/02/21 11:45	5
Fluoride	1.1		0.25	0.12	mg/L			10/02/21 11:45	5
Sulfate	43		5.0	1.7	mg/L			10/02/21 11:45	5
Total Dissolved Solids	2200		50	39	mg/L			09/24/21 09:38	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: DUPLICATE #2

Lab Sample ID: 240-156536-2

Date Collected: 09/20/21 09:38

Matrix: Water

Date Received: 09/22/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	130		100	57	ug/L		09/23/21 14:00	10/04/21 21:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	56000		1000	580	ug/L		09/23/21 14:00	09/24/21 15:38	1
Magnesium	1000	U	1000	200	ug/L		09/23/21 14:00	09/24/21 15:38	1
Potassium	9600		1000	220	ug/L		09/23/21 14:00	09/24/21 15:38	1
Sodium	1100000	^2	1000	330	ug/L		09/23/21 14:00	09/24/21 15:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	1500		5.0	2.6	mg/L			10/04/21 12:57	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/04/21 12:57	1
Carbonate Alkalinity as CaCO3	75		5.0	2.6	mg/L			10/04/21 12:57	1
Chloride	860		5.0	1.4	mg/L			10/02/21 12:26	5
Fluoride	1.0		0.25	0.12	mg/L			10/02/21 12:26	5
Sulfate	42		5.0	1.7	mg/L			10/02/21 12:26	5
Total Dissolved Solids	2700		50	39	mg/L			09/24/21 09:38	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: 96154R
Date Collected: 09/20/21 10:03
Date Received: 09/22/21 08:00

Lab Sample ID: 240-156536-3
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	530		100	57	ug/L		09/23/21 14:00	10/04/21 21:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	14000		1000	580	ug/L		09/23/21 14:00	09/24/21 15:40	1
Magnesium	1500		1000	200	ug/L		09/23/21 14:00	09/24/21 15:40	1
Potassium	3800		1000	220	ug/L		09/23/21 14:00	09/24/21 15:40	1
Sodium	570000	^2	1000	330	ug/L		09/23/21 14:00	09/24/21 15:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	550	H	5.0	2.6	mg/L			10/05/21 17:58	1
Bicarbonate Alkalinity as CaCO3	500	H	5.0	2.6	mg/L			10/05/21 17:58	1
Carbonate Alkalinity as CaCO3	48	H	5.0	2.6	mg/L			10/05/21 17:58	1
Chloride	520		10	2.8	mg/L			10/02/21 13:26	10
Fluoride	4.4		0.050	0.024	mg/L			10/02/21 13:06	1
Sulfate	41		1.0	0.35	mg/L			10/02/21 13:06	1
Total Dissolved Solids	1300		20	16	mg/L			09/24/21 09:38	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: 96153R
 Date Collected: 09/20/21 10:44
 Date Received: 09/22/21 08:00

Lab Sample ID: 240-156536-4
 Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	510		100	57	ug/L		09/23/21 14:00	10/04/21 21:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	120000		1000	580	ug/L		09/23/21 14:00	09/24/21 15:43	1
Magnesium	23000		1000	200	ug/L		09/23/21 14:00	09/24/21 15:43	1
Potassium	5800		1000	220	ug/L		09/23/21 14:00	09/24/21 15:43	1
Sodium	320000	^2	1000	330	ug/L		09/23/21 14:00	09/24/21 15:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	350		5.0	2.6	mg/L			10/04/21 13:12	1
Bicarbonate Alkalinity as CaCO3	120		5.0	2.6	mg/L			10/04/21 13:12	1
Carbonate Alkalinity as CaCO3	230		5.0	2.6	mg/L			10/04/21 13:12	1
Chloride	11		1.0	0.28	mg/L			10/02/21 13:46	1
Fluoride	0.80		0.050	0.024	mg/L			10/02/21 13:46	1
Sulfate	950		10	3.5	mg/L			10/02/21 14:06	10
Total Dissolved Solids	1500		20	16	mg/L			09/24/21 09:38	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: MW-20
Date Collected: 09/20/21 11:13
Date Received: 09/22/21 08:00

Lab Sample ID: 240-156536-5
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	99	J	100	57	ug/L		09/23/21 14:00	10/04/21 21:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	440000		1000	580	ug/L		09/23/21 14:00	09/24/21 15:45	1
Magnesium	100000		1000	200	ug/L		09/23/21 14:00	09/24/21 15:45	1
Potassium	5400		1000	220	ug/L		09/23/21 14:00	09/24/21 15:45	1
Sodium	24000	^2	1000	330	ug/L		09/23/21 14:00	09/24/21 15:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	170		5.0	2.6	mg/L			10/04/21 13:17	1
Bicarbonate Alkalinity as CaCO3	170		5.0	2.6	mg/L			10/04/21 13:17	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/04/21 13:17	1
Chloride	1.8		1.0	0.28	mg/L			10/02/21 15:07	1
Fluoride	1.4		0.050	0.024	mg/L			10/02/21 15:07	1
Sulfate	1600		10	3.5	mg/L			10/02/21 15:27	10
Total Dissolved Solids	2100		20	16	mg/L			09/24/21 09:38	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: 2016-10

Lab Sample ID: 240-156536-6

Date Collected: 09/20/21 13:23

Matrix: Water

Date Received: 09/22/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	430		100	57	ug/L		09/23/21 14:00	10/04/21 21:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	650000		1000	580	ug/L		09/23/21 14:00	09/24/21 15:48	1
Magnesium	220000		1000	200	ug/L		09/23/21 14:00	09/24/21 15:48	1
Potassium	60000		1000	220	ug/L		09/23/21 14:00	09/24/21 15:48	1
Sodium	8000000		10000	3300	ug/L		09/23/21 14:00	09/27/21 14:05	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	110		5.0	2.6	mg/L			10/04/21 13:21	1
Bicarbonate Alkalinity as CaCO3	110		5.0	2.6	mg/L			10/04/21 13:21	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/04/21 13:21	1
Chloride	15000		1000	280	mg/L			10/02/21 16:07	1000
Fluoride	2.5	U	2.5	1.2	mg/L			10/02/21 15:47	50
Sulfate	300		50	17	mg/L			10/02/21 15:47	50
Total Dissolved Solids	22000		1000	780	mg/L			09/24/21 09:38	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: 93108

Lab Sample ID: 240-156536-7

Date Collected: 09/20/21 14:27

Matrix: Water

Date Received: 09/22/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	440		100	57	ug/L		09/23/21 14:00	10/04/21 21:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	15000		1000	580	ug/L		09/23/21 14:00	09/24/21 15:55	1
Magnesium	3800		1000	200	ug/L		09/23/21 14:00	09/24/21 15:55	1
Potassium	1900		1000	220	ug/L		09/23/21 14:00	09/24/21 15:55	1
Sodium	1100000	^2	1000	330	ug/L		09/23/21 14:00	09/24/21 15:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	520		5.0	2.6	mg/L			10/04/21 13:27	1
Bicarbonate Alkalinity as CaCO3	520		5.0	2.6	mg/L			10/04/21 13:27	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/04/21 13:27	1
Chloride	1500		20	5.7	mg/L			10/02/21 16:47	20
Fluoride	3.2		0.25	0.12	mg/L			10/02/21 16:27	5
Sulfate	39		5.0	1.7	mg/L			10/02/21 16:27	5
Total Dissolved Solids	2800		50	39	mg/L			09/24/21 09:38	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: MW-1

Lab Sample ID: 240-156536-8

Date Collected: 09/20/21 15:33

Matrix: Water

Date Received: 09/22/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	69	J	100	57	ug/L		09/23/21 14:00	10/04/21 21:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	130000		1000	580	ug/L		09/23/21 14:00	09/24/21 15:58	1
Magnesium	15000		1000	200	ug/L		09/23/21 14:00	09/24/21 15:58	1
Potassium	1500		1000	220	ug/L		09/23/21 14:00	09/24/21 15:58	1
Sodium	17000	^2	1000	330	ug/L		09/23/21 14:00	09/24/21 15:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	240		5.0	2.6	mg/L			10/04/21 13:31	1
Bicarbonate Alkalinity as CaCO3	240		5.0	2.6	mg/L			10/04/21 13:31	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/04/21 13:31	1
Chloride	41		1.0	0.28	mg/L			10/02/21 17:08	1
Fluoride	0.11		0.050	0.024	mg/L			10/02/21 17:08	1
Sulfate	140		1.0	0.35	mg/L			10/02/21 17:08	1
Total Dissolved Solids	490		10	7.8	mg/L			09/24/21 09:38	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: RIVER

Lab Sample ID: 240-156536-9

Date Collected: 09/20/21 15:54

Matrix: Water

Date Received: 09/22/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	65	J	100	57	ug/L		09/23/21 14:00	10/04/21 22:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	33000		1000	580	ug/L		09/23/21 14:00	09/24/21 16:01	1
Magnesium	8700		1000	200	ug/L		09/23/21 14:00	09/24/21 16:01	1
Potassium	3000		1000	220	ug/L		09/23/21 14:00	09/24/21 16:01	1
Sodium	23000	^2	1000	330	ug/L		09/23/21 14:00	09/24/21 16:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	82		5.0	2.6	mg/L			10/04/21 13:39	1
Bicarbonate Alkalinity as CaCO3	82		5.0	2.6	mg/L			10/04/21 13:39	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/04/21 13:39	1
Chloride	25		1.0	0.28	mg/L			10/02/21 17:48	1
Fluoride	0.14		0.050	0.024	mg/L			10/02/21 17:48	1
Sulfate	66		1.0	0.35	mg/L			10/02/21 17:48	1
Total Dissolved Solids	220		10	7.8	mg/L			09/24/21 09:38	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: BAC-1

Lab Sample ID: 240-156536-10

Date Collected: 09/18/21 09:39

Matrix: Water

Date Received: 09/22/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100		100	57	ug/L		09/23/21 14:00	10/04/21 22:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	100000		1000	580	ug/L		09/23/21 14:00	09/24/21 16:03	1
Magnesium	13000		1000	200	ug/L		09/23/21 14:00	09/24/21 16:03	1
Potassium	1400		1000	220	ug/L		09/23/21 14:00	09/24/21 16:03	1
Sodium	13000		1000	330	ug/L		09/23/21 14:00	09/27/21 14:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	190	B	5.0	2.6	mg/L			09/26/21 19:17	1
Bicarbonate Alkalinity as CaCO3	190	B	5.0	2.6	mg/L			09/26/21 19:17	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			09/26/21 19:17	1
Chloride	34		1.0	0.28	mg/L			10/02/21 19:28	1
Fluoride	0.13		0.050	0.024	mg/L			10/02/21 19:28	1
Sulfate	94		1.0	0.35	mg/L			10/02/21 19:28	1
Total Dissolved Solids	420		10	7.8	mg/L			09/23/21 16:57	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: MW-6

Lab Sample ID: 240-156536-11

Date Collected: 09/18/21 10:13

Matrix: Water

Date Received: 09/22/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100	57	ug/L		09/23/21 14:00	10/04/21 22:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	110000		1000	580	ug/L		09/23/21 14:00	09/24/21 16:05	1
Magnesium	14000		1000	200	ug/L		09/23/21 14:00	09/24/21 16:05	1
Potassium	1600		1000	220	ug/L		09/23/21 14:00	09/24/21 16:05	1
Sodium	14000		1000	330	ug/L		09/23/21 14:00	09/27/21 14:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	210	B	5.0	2.6	mg/L			09/26/21 19:21	1
Bicarbonate Alkalinity as CaCO3	210	B	5.0	2.6	mg/L			09/26/21 19:21	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			09/26/21 19:21	1
Chloride	26		1.0	0.28	mg/L			10/02/21 20:09	1
Fluoride	0.097		0.050	0.024	mg/L			10/02/21 20:09	1
Sulfate	120		1.0	0.35	mg/L			10/02/21 20:09	1
Total Dissolved Solids	490		10	7.8	mg/L			09/23/21 16:57	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: BAC-07
 Date Collected: 09/18/21 10:51
 Date Received: 09/22/21 08:00

Lab Sample ID: 240-156536-12
 Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1100		100	57	ug/L		09/23/21 14:00	10/04/21 22:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	87000		1000	580	ug/L		09/23/21 14:00	09/24/21 16:08	1
Magnesium	20000		1000	200	ug/L		09/23/21 14:00	09/24/21 16:08	1
Potassium	1300		1000	220	ug/L		09/23/21 14:00	09/24/21 16:08	1
Sodium	16000		1000	330	ug/L		09/23/21 14:00	09/27/21 14:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	110	B	5.0	2.6	mg/L			09/26/21 19:25	1
Bicarbonate Alkalinity as CaCO3	110	B	5.0	2.6	mg/L			09/26/21 19:25	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			09/26/21 19:25	1
Chloride	27		1.0	0.28	mg/L			10/02/21 20:29	1
Fluoride	0.082		0.050	0.024	mg/L			10/02/21 20:29	1
Sulfate	180		1.0	0.35	mg/L			10/02/21 20:29	1
Total Dissolved Solids	510		10	7.8	mg/L			09/23/21 16:57	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: BAC-06

Lab Sample ID: 240-156536-13

Date Collected: 09/18/21 12:47

Matrix: Water

Date Received: 09/22/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1700		100	57	ug/L		09/23/21 14:00	10/04/21 22:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	120000		1000	580	ug/L		09/23/21 14:00	09/24/21 16:11	1
Magnesium	28000		1000	200	ug/L		09/23/21 14:00	09/24/21 16:11	1
Potassium	1500		1000	220	ug/L		09/23/21 14:00	09/24/21 16:11	1
Sodium	17000		1000	330	ug/L		09/23/21 14:00	09/27/21 14:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	170	B	5.0	2.6	mg/L			09/26/21 19:29	1
Bicarbonate Alkalinity as CaCO3	170	B	5.0	2.6	mg/L			09/26/21 19:29	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			09/26/21 19:29	1
Chloride	25		1.0	0.28	mg/L			10/02/21 21:29	1
Fluoride	0.11		0.050	0.024	mg/L			10/02/21 21:29	1
Sulfate	220		5.0	1.7	mg/L			10/11/21 15:53	5
Total Dissolved Solids	570		10	7.8	mg/L			09/23/21 16:57	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: BAC-02

Lab Sample ID: 240-156536-14

Date Collected: 09/18/21 13:24

Matrix: Water

Date Received: 09/22/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1400		100	57	ug/L		09/23/21 14:00	10/04/21 22:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	130000		1000	580	ug/L		09/23/21 14:00	09/24/21 16:13	1
Magnesium	37000		1000	200	ug/L		09/23/21 14:00	09/24/21 16:13	1
Potassium	2800		1000	220	ug/L		09/23/21 14:00	09/24/21 16:13	1
Sodium	65000	^2	1000	330	ug/L		09/23/21 14:00	09/24/21 16:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	230	B	5.0	2.6	mg/L			09/26/21 19:33	1
Bicarbonate Alkalinity as CaCO3	230	B	5.0	2.6	mg/L			09/26/21 19:33	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			09/26/21 19:33	1
Chloride	69		1.0	0.28	mg/L			10/02/21 21:49	1
Fluoride	0.19		0.050	0.024	mg/L			10/02/21 21:49	1
Sulfate	340		5.0	1.7	mg/L			10/02/21 22:09	5
Total Dissolved Solids	860		10	7.8	mg/L			09/23/21 16:57	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: BAC-05

Lab Sample ID: 240-156536-15

Date Collected: 09/18/21 13:55

Matrix: Water

Date Received: 09/22/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3000		100	57	ug/L		09/23/21 14:00	10/04/21 22:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	100000		1000	580	ug/L		09/23/21 14:00	09/24/21 16:15	1
Magnesium	21000		1000	200	ug/L		09/23/21 14:00	09/24/21 16:15	1
Potassium	1400		1000	220	ug/L		09/23/21 14:00	09/24/21 16:15	1
Sodium	21000	^2	1000	330	ug/L		09/23/21 14:00	09/24/21 16:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	140	B	5.0	2.6	mg/L			09/26/21 19:36	1
Bicarbonate Alkalinity as CaCO3	140	B	5.0	2.6	mg/L			09/26/21 19:36	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			09/26/21 19:36	1
Chloride	22		1.0	0.28	mg/L			10/02/21 23:10	1
Fluoride	0.20		0.050	0.024	mg/L			10/02/21 23:10	1
Sulfate	210		5.0	1.7	mg/L			10/02/21 23:30	5
Total Dissolved Solids	520		10	7.8	mg/L			09/23/21 16:57	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: BAC-04

Lab Sample ID: 240-156536-16

Date Collected: 09/18/21 15:11

Matrix: Water

Date Received: 09/22/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2400		100	57	ug/L		09/23/21 14:00	10/04/21 22:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	92000		1000	580	ug/L		09/23/21 14:00	09/24/21 16:18	1
Magnesium	19000		1000	200	ug/L		09/23/21 14:00	09/24/21 16:18	1
Potassium	1800		1000	220	ug/L		09/23/21 14:00	09/24/21 16:18	1
Sodium	26000	^2	1000	330	ug/L		09/23/21 14:00	09/24/21 16:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	94	B	5.0	2.6	mg/L			09/26/21 19:40	1
Bicarbonate Alkalinity as CaCO3	94	B	5.0	2.6	mg/L			09/26/21 19:40	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			09/26/21 19:40	1
Chloride	42		1.0	0.28	mg/L			10/02/21 23:50	1
Fluoride	0.087		0.050	0.024	mg/L			10/02/21 23:50	1
Sulfate	230		5.0	1.7	mg/L			10/11/21 17:11	5
Total Dissolved Solids	560		10	7.8	mg/L			09/23/21 16:57	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: BAC-03

Lab Sample ID: 240-156536-17

Date Collected: 09/18/21 15:44

Matrix: Water

Date Received: 09/22/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1800		100	57	ug/L		09/23/21 14:00	10/04/21 22:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	84000		1000	580	ug/L		09/23/21 14:00	09/24/21 16:25	1
Magnesium	16000		1000	200	ug/L		09/23/21 14:00	09/24/21 16:25	1
Potassium	1900		1000	220	ug/L		09/23/21 14:00	09/24/21 16:25	1
Sodium	34000		1000	330	ug/L		09/23/21 14:00	09/24/21 16:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	86	B	5.0	2.6	mg/L			09/26/21 19:44	1
Bicarbonate Alkalinity as CaCO3	86	B	5.0	2.6	mg/L			09/26/21 19:44	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			09/26/21 19:44	1
Chloride	64		1.0	0.28	mg/L			10/03/21 00:10	1
Fluoride	0.065		0.050	0.024	mg/L			10/03/21 00:10	1
Sulfate	180		1.0	0.35	mg/L			10/03/21 00:10	1
Total Dissolved Solids	470		10	7.8	mg/L			09/23/21 16:57	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: DUPLICATE #1 (BAC-03)

Lab Sample ID: 240-156536-18

Date Collected: 09/18/21 15:44

Matrix: Water

Date Received: 09/22/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1800		100	57	ug/L		09/23/21 14:00	10/04/21 22:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	84000		1000	580	ug/L		09/23/21 14:00	09/24/21 16:28	1
Magnesium	17000		1000	200	ug/L		09/23/21 14:00	09/24/21 16:28	1
Potassium	1900		1000	220	ug/L		09/23/21 14:00	09/24/21 16:28	1
Sodium	34000		1000	330	ug/L		09/23/21 14:00	09/24/21 16:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	85	B	5.0	2.6	mg/L			09/26/21 19:51	1
Bicarbonate Alkalinity as CaCO3	85	B	5.0	2.6	mg/L			09/26/21 19:51	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			09/26/21 19:51	1
Chloride	64		1.0	0.28	mg/L			10/03/21 00:30	1
Fluoride	0.066		0.050	0.024	mg/L			10/03/21 00:30	1
Sulfate	180		1.0	0.35	mg/L			10/03/21 00:30	1
Total Dissolved Solids	510		10	7.8	mg/L			09/23/21 16:57	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: 94136

Lab Sample ID: 240-156536-19

Date Collected: 09/19/21 08:59

Matrix: Water

Date Received: 09/22/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	350		100	57	ug/L		09/23/21 14:00	10/04/21 22:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	14000		1000	580	ug/L		09/23/21 14:00	09/24/21 16:30	1
Magnesium	3500		1000	200	ug/L		09/23/21 14:00	09/24/21 16:30	1
Potassium	1700		1000	220	ug/L		09/23/21 14:00	09/24/21 16:30	1
Sodium	650000		1000	330	ug/L		09/23/21 14:00	09/24/21 16:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	300	B	5.0	2.6	mg/L			09/26/21 19:57	1
Bicarbonate Alkalinity as CaCO3	300	B	5.0	2.6	mg/L			09/26/21 19:57	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			09/26/21 19:57	1
Chloride	930		10	2.8	mg/L			10/03/21 01:10	10
Fluoride	1.3		0.050	0.024	mg/L			10/03/21 00:50	1
Sulfate	59		1.0	0.35	mg/L			10/03/21 00:50	1
Total Dissolved Solids	1800		20	16	mg/L			09/23/21 16:57	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: 94137

Lab Sample ID: 240-156536-20

Date Collected: 09/19/21 09:22

Matrix: Water

Date Received: 09/22/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100	57	ug/L		09/23/21 14:00	10/04/21 20:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	140000		1000	580	ug/L		09/23/21 14:00	09/24/21 14:26	1
Magnesium	46000		1000	200	ug/L		09/23/21 14:00	09/24/21 14:26	1
Potassium	1600		1000	220	ug/L		09/23/21 14:00	09/24/21 14:26	1
Sodium	59000		1000	330	ug/L		09/23/21 14:00	09/24/21 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	310	B	5.0	2.6	mg/L			09/26/21 20:02	1
Bicarbonate Alkalinity as CaCO3	310	B	5.0	2.6	mg/L			09/26/21 20:02	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			09/26/21 20:02	1
Chloride	28		1.0	0.28	mg/L			10/03/21 01:31	1
Fluoride	0.13		0.050	0.024	mg/L			10/03/21 01:31	1
Sulfate	340		5.0	1.7	mg/L			10/03/21 01:51	5
Total Dissolved Solids	900		10	7.8	mg/L			09/23/21 16:57	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: 2000

Lab Sample ID: 240-156536-21

Date Collected: 09/19/21 09:57

Matrix: Water

Date Received: 09/22/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	320		100	57	ug/L		09/23/21 14:00	10/04/21 20:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	2700		1000	580	ug/L		09/23/21 14:00	09/24/21 14:28	1
Magnesium	700	J	1000	200	ug/L		09/23/21 14:00	09/24/21 14:28	1
Potassium	780	J	1000	220	ug/L		09/23/21 14:00	09/24/21 14:28	1
Sodium	460000		1000	330	ug/L		09/23/21 14:00	09/24/21 14:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	360	B	5.0	2.6	mg/L			09/26/21 20:07	1
Bicarbonate Alkalinity as CaCO3	320	B	5.0	2.6	mg/L			09/26/21 20:07	1
Carbonate Alkalinity as CaCO3	38		5.0	2.6	mg/L			09/26/21 20:07	1
Chloride	110		1.0	0.28	mg/L			10/03/21 03:31	1
Fluoride	2.5		0.050	0.024	mg/L			10/03/21 03:31	1
Sulfate	530		10	3.5	mg/L			10/03/21 03:51	10
Total Dissolved Solids	1400		20	16	mg/L			09/23/21 16:57	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: MW-15

Lab Sample ID: 240-156536-22

Date Collected: 09/19/21 12:06

Matrix: Water

Date Received: 09/22/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	200		100	57	ug/L		09/23/21 14:00	10/04/21 20:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	380000		1000	580	ug/L		09/23/21 14:00	09/24/21 14:31	1
Magnesium	120000		1000	200	ug/L		09/23/21 14:00	09/24/21 14:31	1
Potassium	4200		1000	220	ug/L		09/23/21 14:00	09/24/21 14:31	1
Sodium	190000		1000	330	ug/L		09/23/21 14:00	09/24/21 14:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	400	B	5.0	2.6	mg/L			09/26/21 20:11	1
Bicarbonate Alkalinity as CaCO3	400	B	5.0	2.6	mg/L			09/26/21 20:11	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			09/26/21 20:11	1
Chloride	22		1.0	0.28	mg/L			10/03/21 04:12	1
Fluoride	0.18		0.050	0.024	mg/L			10/03/21 04:12	1
Sulfate	1800		10	3.5	mg/L			10/03/21 04:32	10
Total Dissolved Solids	2900		40	31	mg/L			09/23/21 16:57	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: MW-17

Lab Sample ID: 240-156536-23

Date Collected: 09/19/21 13:02

Matrix: Water

Date Received: 09/22/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	440		100	57	ug/L		09/23/21 14:00	10/04/21 20:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	96000		1000	580	ug/L		09/23/21 14:00	09/24/21 15:16	1
Magnesium	18000		1000	200	ug/L		09/23/21 14:00	09/24/21 15:16	1
Potassium	5500		1000	220	ug/L		09/23/21 14:00	09/24/21 15:16	1
Sodium	2600000		1000	330	ug/L		09/23/21 14:00	09/24/21 15:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	270	B	5.0	2.6	mg/L			09/26/21 20:16	1
Bicarbonate Alkalinity as CaCO3	270	B	5.0	2.6	mg/L			09/26/21 20:16	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			09/26/21 20:16	1
Chloride	4500		50	14	mg/L			10/03/21 05:52	50
Fluoride	1.7		0.25	0.12	mg/L			10/03/21 04:52	5
Sulfate	47		5.0	1.7	mg/L			10/03/21 04:52	5
Total Dissolved Solids	7900		100	78	mg/L			09/23/21 16:57	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: B0903

Lab Sample ID: 240-156536-24

Date Collected: 09/19/21 14:35

Matrix: Water

Date Received: 09/22/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100	57	ug/L		09/23/21 14:00	10/04/21 20:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	23000		1000	580	ug/L		09/23/21 14:00	09/24/21 14:33	1
Magnesium	11000		1000	200	ug/L		09/23/21 14:00	09/24/21 14:33	1
Potassium	2600		1000	220	ug/L		09/23/21 14:00	09/24/21 14:33	1
Sodium	15000		1000	330	ug/L		09/23/21 14:00	09/24/21 14:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	29	B	5.0	2.6	mg/L			09/26/21 20:20	1
Bicarbonate Alkalinity as CaCO3	29	B	5.0	2.6	mg/L			09/26/21 20:20	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			09/26/21 20:20	1
Chloride	35		1.0	0.28	mg/L			10/03/21 07:33	1
Fluoride	0.049	J	0.050	0.024	mg/L			10/03/21 07:33	1
Sulfate	53		1.0	0.35	mg/L			10/03/21 07:33	1
Total Dissolved Solids	270		10	7.8	mg/L			09/23/21 16:57	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: BOTTOM ASH POND

Lab Sample ID: 240-156536-25

Date Collected: 09/19/21 14:55

Matrix: Water

Date Received: 09/22/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	430		100	57	ug/L		09/23/21 14:00	10/04/21 20:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	130000		1000	580	ug/L		09/23/21 14:00	09/24/21 14:36	1
Magnesium	30000		1000	200	ug/L		09/23/21 14:00	09/24/21 14:36	1
Potassium	9700		1000	220	ug/L		09/23/21 14:00	09/24/21 14:36	1
Sodium	81000		1000	330	ug/L		09/23/21 14:00	09/24/21 14:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	69	B	5.0	2.6	mg/L			09/26/21 20:23	1
Bicarbonate Alkalinity as CaCO3	69	B	5.0	2.6	mg/L			09/26/21 20:23	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			09/26/21 20:23	1
Chloride	100		1.0	0.28	mg/L			10/03/21 07:53	1
Fluoride	0.59		0.050	0.024	mg/L			10/03/21 07:53	1
Sulfate	440		5.0	1.7	mg/L			10/03/21 08:13	5
Total Dissolved Solids	890		10	7.8	mg/L			09/24/21 09:38	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: RECLAIM POND

Lab Sample ID: 240-156536-26

Date Collected: 09/19/21 15:08

Matrix: Water

Date Received: 09/22/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	420		100	57	ug/L		09/23/21 14:00	10/04/21 20:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	130000		1000	580	ug/L		09/23/21 14:00	09/24/21 14:38	1
Magnesium	29000		1000	200	ug/L		09/23/21 14:00	09/24/21 14:38	1
Potassium	9600		1000	220	ug/L		09/23/21 14:00	09/24/21 14:38	1
Sodium	79000		1000	330	ug/L		09/23/21 14:00	09/24/21 14:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	66	B	5.0	2.6	mg/L			09/26/21 20:27	1
Bicarbonate Alkalinity as CaCO3	66	B	5.0	2.6	mg/L			09/26/21 20:27	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			09/26/21 20:27	1
Chloride	100		1.0	0.28	mg/L			10/03/21 08:33	1
Fluoride	0.57		0.050	0.024	mg/L			10/03/21 08:33	1
Sulfate	440		5.0	1.7	mg/L			10/03/21 08:53	5
Total Dissolved Solids	840		10	7.8	mg/L			09/24/21 09:38	1

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-505016/1-A
 Matrix: Water
 Analysis Batch: 506593

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 505016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100	57	ug/L		09/23/21 14:00	10/04/21 20:41	1

Lab Sample ID: LCS 240-505016/2-A
 Matrix: Water
 Analysis Batch: 506593

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 505016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	100	103		ug/L		103	80 - 120

Lab Sample ID: 240-156536-23 MS
 Matrix: Water
 Analysis Batch: 506593

Client Sample ID: MW-17
 Prep Type: Total Recoverable
 Prep Batch: 505016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	440		100	518	4	ug/L		78	75 - 125

Lab Sample ID: 240-156536-23 MSD
 Matrix: Water
 Analysis Batch: 506593

Client Sample ID: MW-17
 Prep Type: Total Recoverable
 Prep Batch: 505016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	440		100	546	4	ug/L		106	75 - 125	5	20

Lab Sample ID: MB 240-505017/1-A
 Matrix: Water
 Analysis Batch: 506593

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 505017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100	57	ug/L		09/23/21 14:00	10/04/21 19:49	1

Lab Sample ID: LCS 240-505017/2-A
 Matrix: Water
 Analysis Batch: 506593

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 505017

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	100	108		ug/L		108	80 - 120

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-505016/1-A
 Matrix: Water
 Analysis Batch: 505474

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 505016

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000	580	ug/L		09/23/21 14:00	09/24/21 15:11	1
Magnesium	1000	U	1000	200	ug/L		09/23/21 14:00	09/24/21 15:11	1
Potassium	1000	U	1000	220	ug/L		09/23/21 14:00	09/24/21 15:11	1
Sodium	1000	U	1000	330	ug/L		09/23/21 14:00	09/24/21 15:11	1

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QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

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

Lab Sample ID: LCS 240-505016/2-A
Matrix: Water
Analysis Batch: 505474

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 505016

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Calcium	25000	24000		ug/L		96	80 - 120
Magnesium	25000	23800		ug/L		95	80 - 120
Potassium	25000	23500		ug/L		94	80 - 120
Sodium	25000	24100		ug/L		96	80 - 120

Lab Sample ID: 240-156536-23 MS
Matrix: Water
Analysis Batch: 505474

Client Sample ID: MW-17
Prep Type: Total Recoverable
Prep Batch: 505016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Calcium	96000		25000	117000		ug/L		85	75 - 125
Magnesium	18000		25000	41900		ug/L		95	75 - 125
Potassium	5500		25000	29000		ug/L		94	75 - 125
Sodium	2600000		25000	2590000	4	ug/L		-24	75 - 125

Lab Sample ID: 240-156536-23 MSD
Matrix: Water
Analysis Batch: 505474

Client Sample ID: MW-17
Prep Type: Total Recoverable
Prep Batch: 505016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Calcium	96000		25000	123000		ug/L		106	75 - 125	4	20
Magnesium	18000		25000	42500		ug/L		97	75 - 125	1	20
Potassium	5500		25000	29700		ug/L		97	75 - 125	3	20
Sodium	2600000		25000	2720000	4	ug/L		475	75 - 125	5	20

Lab Sample ID: MB 240-505017/1-A
Matrix: Water
Analysis Batch: 505474

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 505017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000	580	ug/L		09/23/21 14:00	09/24/21 13:59	1
Magnesium	1000	U	1000	200	ug/L		09/23/21 14:00	09/24/21 13:59	1
Potassium	1000	U	1000	220	ug/L		09/23/21 14:00	09/24/21 13:59	1
Sodium	1000	U	1000	330	ug/L		09/23/21 14:00	09/24/21 13:59	1

Lab Sample ID: LCS 240-505017/2-A
Matrix: Water
Analysis Batch: 505474

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 505017

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Calcium	25000	25700		ug/L		103	80 - 120
Magnesium	25000	25400		ug/L		102	80 - 120
Potassium	25000	25500		ug/L		102	80 - 120
Sodium	25000	25300		ug/L		101	80 - 120

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-505614/30
Matrix: Water
Analysis Batch: 505614

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Alkalinity	3.63	J	5.0	2.6	mg/L			09/26/21 18:57	1
Bicarbonate Alkalinity as CaCO3	3.63	J	5.0	2.6	mg/L			09/26/21 18:57	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			09/26/21 18:57	1

Lab Sample ID: MB 240-505614/4
Matrix: Water
Analysis Batch: 505614

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Alkalinity	5.0	U	5.0	2.6	mg/L			09/26/21 17:21	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			09/26/21 17:21	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			09/26/21 17:21	1

Lab Sample ID: LCS 240-505614/29
Matrix: Water
Analysis Batch: 505614

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: 240-156536-17 DU
Matrix: Water
Analysis Batch: 505614

Client Sample ID: BAC-03
Prep Type: Total/NA

Analyte	Sample Sample		DU DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Alkalinity	86	B	84.9		mg/L		2	20
Bicarbonate Alkalinity as CaCO3	86	B	84.9		mg/L		2	20
Carbonate Alkalinity as CaCO3	5.0	U	5.0	U	mg/L		NC	20

Lab Sample ID: MB 240-506646/4
Matrix: Water
Analysis Batch: 506646

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Alkalinity	5.0	U	5.0	2.6	mg/L			10/04/21 12:24	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/04/21 12:24	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/04/21 12:24	1

Lab Sample ID: LCS 240-506646/3
Matrix: Water
Analysis Batch: 506646

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Method: 2320B-1997 - Alkalinity, Total (Continued)

Lab Sample ID: 240-156536-8 DU
Matrix: Water
Analysis Batch: 506646

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

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Alkalinity	240		242		mg/L		0.3	20
Bicarbonate Alkalinity as CaCO3	240		242		mg/L		0.3	20
Carbonate Alkalinity as CaCO3	5.0	U	5.0	U	mg/L		NC	20

Lab Sample ID: MB 240-506981/4
Matrix: Water
Analysis Batch: 506981

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Alkalinity	5.0	U	5.0	2.6	mg/L			10/05/21 17:52	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/05/21 17:52	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/05/21 17:52	1

Lab Sample ID: LCS 240-506981/3
Matrix: Water
Analysis Batch: 506981

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: 240-156536-3 DU
Matrix: Water
Analysis Batch: 506981

Client Sample ID: 96154R
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Alkalinity	550	H	551		mg/L		0.9	20
Bicarbonate Alkalinity as CaCO3	500	H	503		mg/L		0.9	20
Carbonate Alkalinity as CaCO3	48	H	48.2		mg/L		0.2	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-506429/3
Matrix: Water
Analysis Batch: 506429

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	1.0	U	1.0	0.28	mg/L			10/02/21 11:05	1
Fluoride	0.050	U	0.050	0.024	mg/L			10/02/21 11:05	1
Sulfate	1.0	U	1.0	0.35	mg/L			10/02/21 11:05	1

Lab Sample ID: MB 240-506429/48
Matrix: Water
Analysis Batch: 506429

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	1.0	U	1.0	0.28	mg/L			10/03/21 02:11	1
Fluoride	0.050	U	0.050	0.024	mg/L			10/03/21 02:11	1
Sulfate	1.0	U	1.0	0.35	mg/L			10/03/21 02:11	1

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QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 240-506429/4
Matrix: Water
Analysis Batch: 506429

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.1		mg/L		102	90 - 110
Fluoride	2.50	2.63		mg/L		105	90 - 110
Sulfate	50.0	51.5		mg/L		103	90 - 110

Lab Sample ID: LCS 240-506429/51
Matrix: Water
Analysis Batch: 506429

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.1		mg/L		102	90 - 110
Fluoride	2.50	2.62		mg/L		105	90 - 110
Sulfate	50.0	51.3		mg/L		103	90 - 110

Lab Sample ID: 240-156536-9 MS
Matrix: Water
Analysis Batch: 506429

Client Sample ID: RIVER
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25		50.0	77.0		mg/L		104	80 - 120
Fluoride	0.14		2.50	2.87		mg/L		109	80 - 120
Sulfate	66		50.0	116		mg/L		101	80 - 120

Lab Sample ID: 240-156536-9 MSD
Matrix: Water
Analysis Batch: 506429

Client Sample ID: RIVER
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	25		50.0	78.8		mg/L		107	80 - 120	2	15
Fluoride	0.14		2.50	2.97		mg/L		113	80 - 120	3	15
Sulfate	66		50.0	118		mg/L		104	80 - 120	2	15

Lab Sample ID: 240-156536-12 MS
Matrix: Water
Analysis Batch: 506429

Client Sample ID: BAC-07
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	27		50.0	79.4		mg/L		105	80 - 120
Fluoride	0.082		2.50	2.79		mg/L		108	80 - 120
Sulfate	180		50.0	228		mg/L		93	80 - 120

Lab Sample ID: 240-156536-12 MSD
Matrix: Water
Analysis Batch: 506429

Client Sample ID: BAC-07
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	27		50.0	80.6		mg/L		107	80 - 120	1	15
Fluoride	0.082		2.50	2.84		mg/L		110	80 - 120	2	15
Sulfate	180		50.0	228		mg/L		92	80 - 120	0	15

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 240-156536-23 MS
Matrix: Water
Analysis Batch: 506429

Client Sample ID: MW-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	1.7		12.5	15.1		mg/L		108	80 - 120
Sulfate	47		250	306		mg/L		104	80 - 120

Lab Sample ID: 240-156536-23 MS
Matrix: Water
Analysis Batch: 506429

Client Sample ID: MW-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	4500		2500	6880		mg/L		94	80 - 120

Lab Sample ID: 240-156536-23 MSD
Matrix: Water
Analysis Batch: 506429

Client Sample ID: MW-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	1.7		12.5	15.0		mg/L		107	80 - 120	1	15
Sulfate	47		250	303		mg/L		102	80 - 120	1	15

Lab Sample ID: 240-156536-23 MSD
Matrix: Water
Analysis Batch: 506429

Client Sample ID: MW-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	4500		2500	6840		mg/L		92	80 - 120	1	15

Lab Sample ID: MB 240-507659/3
Matrix: Water
Analysis Batch: 507659

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.28	mg/L			10/11/21 14:10	1
Fluoride	0.050	U	0.050	0.024	mg/L			10/11/21 14:10	1
Sulfate	1.0	U	1.0	0.35	mg/L			10/11/21 14:10	1

Lab Sample ID: LCS 240-507659/4
Matrix: Water
Analysis Batch: 507659

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.5		mg/L		101	90 - 110
Fluoride	2.50	2.57		mg/L		103	90 - 110
Sulfate	50.0	50.8		mg/L		102	90 - 110

Lab Sample ID: 240-156536-13 MS
Matrix: Water
Analysis Batch: 507659

Client Sample ID: BAC-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	220		250	483		mg/L		104	80 - 120

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 240-156536-13 MSD
 Matrix: Water
 Analysis Batch: 507659

Client Sample ID: BAC-06
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	220		250	473		mg/L		100	80 - 120	2	15

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

Lab Sample ID: MB 240-505126/1
 Matrix: Water
 Analysis Batch: 505126

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	10	U	10	7.8	mg/L			09/23/21 16:57	1

Lab Sample ID: LCS 240-505126/2
 Matrix: Water
 Analysis Batch: 505126

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	422	424		mg/L		100	80 - 120

Lab Sample ID: 240-156536-23 DU
 Matrix: Water
 Analysis Batch: 505126

Client Sample ID: MW-17
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	7900		7520		mg/L		5	20

Lab Sample ID: MB 240-505246/1
 Matrix: Water
 Analysis Batch: 505246

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	10	U	10	7.8	mg/L			09/24/21 09:38	1

Lab Sample ID: LCS 240-505246/2
 Matrix: Water
 Analysis Batch: 505246

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	422	418		mg/L		99	80 - 120

Lab Sample ID: 240-156536-9 DU
 Matrix: Water
 Analysis Batch: 505246

Client Sample ID: RIVER
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	220		212		mg/L		3	20

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-156536-1

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

Lab Sample ID: 240-156536-26 DU

Matrix: Water

Analysis Batch: 505246

Client Sample ID: RECLAIM POND

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	840		858		mg/L		2	20

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

QC Association Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Metals

Prep Batch: 505016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-156536-1	2016-09	Total Recoverable	Water	3005A	
240-156536-2	DUPLICATE #2	Total Recoverable	Water	3005A	
240-156536-3	96154R	Total Recoverable	Water	3005A	
240-156536-4	96153R	Total Recoverable	Water	3005A	
240-156536-5	MW-20	Total Recoverable	Water	3005A	
240-156536-6	2016-10	Total Recoverable	Water	3005A	
240-156536-7	93108	Total Recoverable	Water	3005A	
240-156536-8	MW-1	Total Recoverable	Water	3005A	
240-156536-9	RIVER	Total Recoverable	Water	3005A	
240-156536-10	BAC-1	Total Recoverable	Water	3005A	
240-156536-11	MW-6	Total Recoverable	Water	3005A	
240-156536-12	BAC-07	Total Recoverable	Water	3005A	
240-156536-13	BAC-06	Total Recoverable	Water	3005A	
240-156536-14	BAC-02	Total Recoverable	Water	3005A	
240-156536-15	BAC-05	Total Recoverable	Water	3005A	
240-156536-16	BAC-04	Total Recoverable	Water	3005A	
240-156536-17	BAC-03	Total Recoverable	Water	3005A	
240-156536-18	DUPLICATE #1 (BAC-03)	Total Recoverable	Water	3005A	
240-156536-19	94136	Total Recoverable	Water	3005A	
240-156536-23	MW-17	Total Recoverable	Water	3005A	
MB 240-505016/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-505016/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-156536-23 MS	MW-17	Total Recoverable	Water	3005A	
240-156536-23 MSD	MW-17	Total Recoverable	Water	3005A	

Prep Batch: 505017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-156536-20	94137	Total Recoverable	Water	3005A	
240-156536-21	2000	Total Recoverable	Water	3005A	
240-156536-22	MW-15	Total Recoverable	Water	3005A	
240-156536-24	B0903	Total Recoverable	Water	3005A	
240-156536-25	BOTTOM ASH POND	Total Recoverable	Water	3005A	
240-156536-26	RECLAIM POND	Total Recoverable	Water	3005A	
MB 240-505017/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-505017/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 505474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-156536-1	2016-09	Total Recoverable	Water	6020	505016
240-156536-2	DUPLICATE #2	Total Recoverable	Water	6020	505016
240-156536-3	96154R	Total Recoverable	Water	6020	505016
240-156536-4	96153R	Total Recoverable	Water	6020	505016
240-156536-5	MW-20	Total Recoverable	Water	6020	505016
240-156536-6	2016-10	Total Recoverable	Water	6020	505016
240-156536-7	93108	Total Recoverable	Water	6020	505016
240-156536-8	MW-1	Total Recoverable	Water	6020	505016
240-156536-9	RIVER	Total Recoverable	Water	6020	505016
240-156536-10	BAC-1	Total Recoverable	Water	6020	505016
240-156536-11	MW-6	Total Recoverable	Water	6020	505016
240-156536-12	BAC-07	Total Recoverable	Water	6020	505016
240-156536-13	BAC-06	Total Recoverable	Water	6020	505016

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QC Association Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Metals (Continued)

Analysis Batch: 505474 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-156536-14	BAC-02	Total Recoverable	Water	6020	505016
240-156536-15	BAC-05	Total Recoverable	Water	6020	505016
240-156536-16	BAC-04	Total Recoverable	Water	6020	505016
240-156536-17	BAC-03	Total Recoverable	Water	6020	505016
240-156536-18	DUPLICATE #1 (BAC-03)	Total Recoverable	Water	6020	505016
240-156536-19	94136	Total Recoverable	Water	6020	505016
240-156536-20	94137	Total Recoverable	Water	6020	505017
240-156536-21	2000	Total Recoverable	Water	6020	505017
240-156536-22	MW-15	Total Recoverable	Water	6020	505017
240-156536-23	MW-17	Total Recoverable	Water	6020	505016
240-156536-24	B0903	Total Recoverable	Water	6020	505017
240-156536-25	BOTTOM ASH POND	Total Recoverable	Water	6020	505017
240-156536-26	RECLAIM POND	Total Recoverable	Water	6020	505017
MB 240-505016/1-A	Method Blank	Total Recoverable	Water	6020	505016
MB 240-505017/1-A	Method Blank	Total Recoverable	Water	6020	505017
LCS 240-505016/2-A	Lab Control Sample	Total Recoverable	Water	6020	505016
LCS 240-505017/2-A	Lab Control Sample	Total Recoverable	Water	6020	505017
240-156536-23 MS	MW-17	Total Recoverable	Water	6020	505016
240-156536-23 MSD	MW-17	Total Recoverable	Water	6020	505016

Analysis Batch: 505655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-156536-6	2016-10	Total Recoverable	Water	6020	505016
240-156536-10	BAC-1	Total Recoverable	Water	6020	505016
240-156536-11	MW-6	Total Recoverable	Water	6020	505016
240-156536-12	BAC-07	Total Recoverable	Water	6020	505016
240-156536-13	BAC-06	Total Recoverable	Water	6020	505016

Analysis Batch: 506593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-156536-1	2016-09	Total Recoverable	Water	6010B	505016
240-156536-2	DUPLICATE #2	Total Recoverable	Water	6010B	505016
240-156536-3	96154R	Total Recoverable	Water	6010B	505016
240-156536-4	96153R	Total Recoverable	Water	6010B	505016
240-156536-5	MW-20	Total Recoverable	Water	6010B	505016
240-156536-6	2016-10	Total Recoverable	Water	6010B	505016
240-156536-7	93108	Total Recoverable	Water	6010B	505016
240-156536-8	MW-1	Total Recoverable	Water	6010B	505016
240-156536-9	RIVER	Total Recoverable	Water	6010B	505016
240-156536-10	BAC-1	Total Recoverable	Water	6010B	505016
240-156536-11	MW-6	Total Recoverable	Water	6010B	505016
240-156536-12	BAC-07	Total Recoverable	Water	6010B	505016
240-156536-13	BAC-06	Total Recoverable	Water	6010B	505016
240-156536-14	BAC-02	Total Recoverable	Water	6010B	505016
240-156536-15	BAC-05	Total Recoverable	Water	6010B	505016
240-156536-16	BAC-04	Total Recoverable	Water	6010B	505016
240-156536-17	BAC-03	Total Recoverable	Water	6010B	505016
240-156536-18	DUPLICATE #1 (BAC-03)	Total Recoverable	Water	6010B	505016
240-156536-19	94136	Total Recoverable	Water	6010B	505016
240-156536-20	94137	Total Recoverable	Water	6010B	505017
240-156536-21	2000	Total Recoverable	Water	6010B	505017

Eurofins TestAmerica, Canton

QC Association Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

Metals (Continued)

Analysis Batch: 506593 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-156536-22	MW-15	Total Recoverable	Water	6010B	505017
240-156536-23	MW-17	Total Recoverable	Water	6010B	505016
240-156536-24	B0903	Total Recoverable	Water	6010B	505017
240-156536-25	BOTTOM ASH POND	Total Recoverable	Water	6010B	505017
240-156536-26	RECLAIM POND	Total Recoverable	Water	6010B	505017
MB 240-505016/1-A	Method Blank	Total Recoverable	Water	6010B	505016
MB 240-505017/1-A	Method Blank	Total Recoverable	Water	6010B	505017
LCS 240-505016/2-A	Lab Control Sample	Total Recoverable	Water	6010B	505016
LCS 240-505017/2-A	Lab Control Sample	Total Recoverable	Water	6010B	505017
240-156536-23 MS	MW-17	Total Recoverable	Water	6010B	505016
240-156536-23 MSD	MW-17	Total Recoverable	Water	6010B	505016

General Chemistry

Analysis Batch: 505126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-156536-10	BAC-1	Total/NA	Water	SM 2540C	
240-156536-11	MW-6	Total/NA	Water	SM 2540C	
240-156536-12	BAC-07	Total/NA	Water	SM 2540C	
240-156536-13	BAC-06	Total/NA	Water	SM 2540C	
240-156536-14	BAC-02	Total/NA	Water	SM 2540C	
240-156536-15	BAC-05	Total/NA	Water	SM 2540C	
240-156536-16	BAC-04	Total/NA	Water	SM 2540C	
240-156536-17	BAC-03	Total/NA	Water	SM 2540C	
240-156536-18	DUPLICATE #1 (BAC-03)	Total/NA	Water	SM 2540C	
240-156536-19	94136	Total/NA	Water	SM 2540C	
240-156536-20	94137	Total/NA	Water	SM 2540C	
240-156536-21	2000	Total/NA	Water	SM 2540C	
240-156536-22	MW-15	Total/NA	Water	SM 2540C	
240-156536-23	MW-17	Total/NA	Water	SM 2540C	
240-156536-24	B0903	Total/NA	Water	SM 2540C	
MB 240-505126/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-505126/2	Lab Control Sample	Total/NA	Water	SM 2540C	
240-156536-23 DU	MW-17	Total/NA	Water	SM 2540C	

Analysis Batch: 505246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-156536-1	2016-09	Total/NA	Water	SM 2540C	
240-156536-2	DUPLICATE #2	Total/NA	Water	SM 2540C	
240-156536-3	96154R	Total/NA	Water	SM 2540C	
240-156536-4	96153R	Total/NA	Water	SM 2540C	
240-156536-5	MW-20	Total/NA	Water	SM 2540C	
240-156536-6	2016-10	Total/NA	Water	SM 2540C	
240-156536-7	93108	Total/NA	Water	SM 2540C	
240-156536-8	MW-1	Total/NA	Water	SM 2540C	
240-156536-9	RIVER	Total/NA	Water	SM 2540C	
240-156536-25	BOTTOM ASH POND	Total/NA	Water	SM 2540C	
240-156536-26	RECLAIM POND	Total/NA	Water	SM 2540C	
MB 240-505246/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-505246/2	Lab Control Sample	Total/NA	Water	SM 2540C	
240-156536-9 DU	RIVER	Total/NA	Water	SM 2540C	

Eurofins TestAmerica, Canton

QC Association Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

General Chemistry (Continued)

Analysis Batch: 505246 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-156536-26 DU	RECLAIM POND	Total/NA	Water	SM 2540C	

Analysis Batch: 505614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-156536-10	BAC-1	Total/NA	Water	2320B-1997	
240-156536-11	MW-6	Total/NA	Water	2320B-1997	
240-156536-12	BAC-07	Total/NA	Water	2320B-1997	
240-156536-13	BAC-06	Total/NA	Water	2320B-1997	
240-156536-14	BAC-02	Total/NA	Water	2320B-1997	
240-156536-15	BAC-05	Total/NA	Water	2320B-1997	
240-156536-16	BAC-04	Total/NA	Water	2320B-1997	
240-156536-17	BAC-03	Total/NA	Water	2320B-1997	
240-156536-18	DUPLICATE #1 (BAC-03)	Total/NA	Water	2320B-1997	
240-156536-19	94136	Total/NA	Water	2320B-1997	
240-156536-20	94137	Total/NA	Water	2320B-1997	
240-156536-21	2000	Total/NA	Water	2320B-1997	
240-156536-22	MW-15	Total/NA	Water	2320B-1997	
240-156536-23	MW-17	Total/NA	Water	2320B-1997	
240-156536-24	B0903	Total/NA	Water	2320B-1997	
240-156536-25	BOTTOM ASH POND	Total/NA	Water	2320B-1997	
240-156536-26	RECLAIM POND	Total/NA	Water	2320B-1997	
MB 240-505614/30	Method Blank	Total/NA	Water	2320B-1997	
MB 240-505614/4	Method Blank	Total/NA	Water	2320B-1997	
LCS 240-505614/29	Lab Control Sample	Total/NA	Water	2320B-1997	
240-156536-17 DU	BAC-03	Total/NA	Water	2320B-1997	

Analysis Batch: 506429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-156536-1	2016-09	Total/NA	Water	300.0	
240-156536-2	DUPLICATE #2	Total/NA	Water	300.0	
240-156536-3	96154R	Total/NA	Water	300.0	
240-156536-3	96154R	Total/NA	Water	300.0	
240-156536-4	96153R	Total/NA	Water	300.0	
240-156536-4	96153R	Total/NA	Water	300.0	
240-156536-5	MW-20	Total/NA	Water	300.0	
240-156536-5	MW-20	Total/NA	Water	300.0	
240-156536-6	2016-10	Total/NA	Water	300.0	
240-156536-6	2016-10	Total/NA	Water	300.0	
240-156536-7	93108	Total/NA	Water	300.0	
240-156536-7	93108	Total/NA	Water	300.0	
240-156536-8	MW-1	Total/NA	Water	300.0	
240-156536-9	RIVER	Total/NA	Water	300.0	
240-156536-10	BAC-1	Total/NA	Water	300.0	
240-156536-11	MW-6	Total/NA	Water	300.0	
240-156536-12	BAC-07	Total/NA	Water	300.0	
240-156536-13	BAC-06	Total/NA	Water	300.0	
240-156536-14	BAC-02	Total/NA	Water	300.0	
240-156536-14	BAC-02	Total/NA	Water	300.0	
240-156536-15	BAC-05	Total/NA	Water	300.0	
240-156536-15	BAC-05	Total/NA	Water	300.0	
240-156536-16	BAC-04	Total/NA	Water	300.0	

Eurofins TestAmerica, Canton

QC Association Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-156536-1

General Chemistry (Continued)

Analysis Batch: 506429 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-156536-17	BAC-03	Total/NA	Water	300.0	
240-156536-18	DUPLICATE #1 (BAC-03)	Total/NA	Water	300.0	
240-156536-19	94136	Total/NA	Water	300.0	
240-156536-19	94136	Total/NA	Water	300.0	
240-156536-20	94137	Total/NA	Water	300.0	
240-156536-20	94137	Total/NA	Water	300.0	
240-156536-21	2000	Total/NA	Water	300.0	
240-156536-21	2000	Total/NA	Water	300.0	
240-156536-22	MW-15	Total/NA	Water	300.0	
240-156536-22	MW-15	Total/NA	Water	300.0	
240-156536-23	MW-17	Total/NA	Water	300.0	
240-156536-23	MW-17	Total/NA	Water	300.0	
240-156536-24	B0903	Total/NA	Water	300.0	
240-156536-25	BOTTOM ASH POND	Total/NA	Water	300.0	
240-156536-25	BOTTOM ASH POND	Total/NA	Water	300.0	
240-156536-26	RECLAIM POND	Total/NA	Water	300.0	
240-156536-26	RECLAIM POND	Total/NA	Water	300.0	
MB 240-506429/3	Method Blank	Total/NA	Water	300.0	
MB 240-506429/48	Method Blank	Total/NA	Water	300.0	
LCS 240-506429/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 240-506429/51	Lab Control Sample	Total/NA	Water	300.0	
240-156536-9 MS	RIVER	Total/NA	Water	300.0	
240-156536-9 MSD	RIVER	Total/NA	Water	300.0	
240-156536-12 MS	BAC-07	Total/NA	Water	300.0	
240-156536-12 MSD	BAC-07	Total/NA	Water	300.0	
240-156536-23 MS	MW-17	Total/NA	Water	300.0	
240-156536-23 MS	MW-17	Total/NA	Water	300.0	
240-156536-23 MSD	MW-17	Total/NA	Water	300.0	
240-156536-23 MSD	MW-17	Total/NA	Water	300.0	

Analysis Batch: 506646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-156536-1	2016-09	Total/NA	Water	2320B-1997	
240-156536-2	DUPLICATE #2	Total/NA	Water	2320B-1997	
240-156536-4	96153R	Total/NA	Water	2320B-1997	
240-156536-5	MW-20	Total/NA	Water	2320B-1997	
240-156536-6	2016-10	Total/NA	Water	2320B-1997	
240-156536-7	93108	Total/NA	Water	2320B-1997	
240-156536-8	MW-1	Total/NA	Water	2320B-1997	
240-156536-9	RIVER	Total/NA	Water	2320B-1997	
MB 240-506646/4	Method Blank	Total/NA	Water	2320B-1997	
LCS 240-506646/3	Lab Control Sample	Total/NA	Water	2320B-1997	
240-156536-8 DU	MW-1	Total/NA	Water	2320B-1997	

Analysis Batch: 506981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-156536-3	96154R	Total/NA	Water	2320B-1997	
MB 240-506981/4	Method Blank	Total/NA	Water	2320B-1997	
LCS 240-506981/3	Lab Control Sample	Total/NA	Water	2320B-1997	
240-156536-3 DU	96154R	Total/NA	Water	2320B-1997	

QC Association Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-156536-1

General Chemistry

Analysis Batch: 507659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-156536-13	BAC-06	Total/NA	Water	300.0	
240-156536-16	BAC-04	Total/NA	Water	300.0	
MB 240-507659/3	Method Blank	Total/NA	Water	300.0	
LCS 240-507659/4	Lab Control Sample	Total/NA	Water	300.0	
240-156536-13 MS	BAC-06	Total/NA	Water	300.0	
240-156536-13 MSD	BAC-06	Total/NA	Water	300.0	

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Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: 2016-09

Lab Sample ID: 240-156536-1

Date Collected: 09/20/21 09:38

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 21:15	RKT	TAL CAN
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 15:35	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	506646	10/04/21 12:48	JMB	TAL CAN
Total/NA	Analysis	300.0		5	506429	10/02/21 11:45	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	505246	09/24/21 09:38	JMR	TAL CAN

Client Sample ID: DUPLICATE #2

Lab Sample ID: 240-156536-2

Date Collected: 09/20/21 09:38

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 21:20	RKT	TAL CAN
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 15:38	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	506646	10/04/21 12:57	JMB	TAL CAN
Total/NA	Analysis	300.0		5	506429	10/02/21 12:26	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	505246	09/24/21 09:38	JMR	TAL CAN

Client Sample ID: 96154R

Lab Sample ID: 240-156536-3

Date Collected: 09/20/21 10:03

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 21:24	RKT	TAL CAN
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 15:40	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	506981	10/05/21 17:58	JMR	TAL CAN
Total/NA	Analysis	300.0		1	506429	10/02/21 13:06	JWW	TAL CAN
Total/NA	Analysis	300.0		10	506429	10/02/21 13:26	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	505246	09/24/21 09:38	JMR	TAL CAN

Client Sample ID: 96153R

Lab Sample ID: 240-156536-4

Date Collected: 09/20/21 10:44

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 21:29	RKT	TAL CAN
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 15:43	AJC	TAL CAN

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Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: 96153R

Lab Sample ID: 240-156536-4

Date Collected: 09/20/21 10:44

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2320B-1997		1	506646	10/04/21 13:12	JMB	TAL CAN
Total/NA	Analysis	300.0		1	506429	10/02/21 13:46	JWW	TAL CAN
Total/NA	Analysis	300.0		10	506429	10/02/21 14:06	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	505246	09/24/21 09:38	JMR	TAL CAN

Client Sample ID: MW-20

Lab Sample ID: 240-156536-5

Date Collected: 09/20/21 11:13

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 21:33	RKT	TAL CAN
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 15:45	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	506646	10/04/21 13:17	JMB	TAL CAN
Total/NA	Analysis	300.0		1	506429	10/02/21 15:07	JWW	TAL CAN
Total/NA	Analysis	300.0		10	506429	10/02/21 15:27	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	505246	09/24/21 09:38	JMR	TAL CAN

Client Sample ID: 2016-10

Lab Sample ID: 240-156536-6

Date Collected: 09/20/21 13:23

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 21:46	RKT	TAL CAN
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 15:48	AJC	TAL CAN
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		10	505655	09/27/21 14:05	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	506646	10/04/21 13:21	JMB	TAL CAN
Total/NA	Analysis	300.0		50	506429	10/02/21 15:47	JWW	TAL CAN
Total/NA	Analysis	300.0		1000	506429	10/02/21 16:07	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	505246	09/24/21 09:38	JMR	TAL CAN

Client Sample ID: 93108

Lab Sample ID: 240-156536-7

Date Collected: 09/20/21 14:27

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 21:51	RKT	TAL CAN
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 15:55	AJC	TAL CAN

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Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: 93108

Lab Sample ID: 240-156536-7

Date Collected: 09/20/21 14:27

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2320B-1997		1	506646	10/04/21 13:27	JMB	TAL CAN
Total/NA	Analysis	300.0		5	506429	10/02/21 16:27	JWW	TAL CAN
Total/NA	Analysis	300.0		20	506429	10/02/21 16:47	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	505246	09/24/21 09:38	JMR	TAL CAN

Client Sample ID: MW-1

Lab Sample ID: 240-156536-8

Date Collected: 09/20/21 15:33

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 21:55	RKT	TAL CAN
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 15:58	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	506646	10/04/21 13:31	JMB	TAL CAN
Total/NA	Analysis	300.0		1	506429	10/02/21 17:08	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	505246	09/24/21 09:38	JMR	TAL CAN

Client Sample ID: RIVER

Lab Sample ID: 240-156536-9

Date Collected: 09/20/21 15:54

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 22:00	RKT	TAL CAN
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 16:01	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	506646	10/04/21 13:39	JMB	TAL CAN
Total/NA	Analysis	300.0		1	506429	10/02/21 17:48	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	505246	09/24/21 09:38	JMR	TAL CAN

Client Sample ID: BAC-1

Lab Sample ID: 240-156536-10

Date Collected: 09/18/21 09:39

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 22:04	RKT	TAL CAN
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 16:03	AJC	TAL CAN
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505655	09/27/21 14:07	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	505614	09/26/21 19:17	JWW	TAL CAN
Total/NA	Analysis	300.0		1	506429	10/02/21 19:28	JWW	TAL CAN

Eurofins TestAmerica, Canton

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: BAC-1

Date Collected: 09/18/21 09:39

Date Received: 09/22/21 08:00

Lab Sample ID: 240-156536-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	505126	09/23/21 16:57	JWW	TAL CAN

Client Sample ID: MW-6

Date Collected: 09/18/21 10:13

Date Received: 09/22/21 08:00

Lab Sample ID: 240-156536-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 22:08	RKT	TAL CAN
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 16:05	AJC	TAL CAN
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505655	09/27/21 14:10	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	505614	09/26/21 19:21	JWW	TAL CAN
Total/NA	Analysis	300.0		1	506429	10/02/21 20:09	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	505126	09/23/21 16:57	JWW	TAL CAN

Client Sample ID: BAC-07

Date Collected: 09/18/21 10:51

Date Received: 09/22/21 08:00

Lab Sample ID: 240-156536-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 22:13	RKT	TAL CAN
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 16:08	AJC	TAL CAN
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505655	09/27/21 14:12	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	505614	09/26/21 19:25	JWW	TAL CAN
Total/NA	Analysis	300.0		1	506429	10/02/21 20:29	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	505126	09/23/21 16:57	JWW	TAL CAN

Client Sample ID: BAC-06

Date Collected: 09/18/21 12:47

Date Received: 09/22/21 08:00

Lab Sample ID: 240-156536-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 22:17	RKT	TAL CAN
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 16:11	AJC	TAL CAN
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505655	09/27/21 14:15	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	505614	09/26/21 19:29	JWW	TAL CAN

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: BAC-06

Lab Sample ID: 240-156536-13

Date Collected: 09/18/21 12:47

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	506429	10/02/21 21:29	JWW	TAL CAN
Total/NA	Analysis	300.0		5	507659	10/11/21 15:53	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	505126	09/23/21 16:57	JWW	TAL CAN

Client Sample ID: BAC-02

Lab Sample ID: 240-156536-14

Date Collected: 09/18/21 13:24

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 22:21	RKT	TAL CAN
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 16:13	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	505614	09/26/21 19:33	JWW	TAL CAN
Total/NA	Analysis	300.0		1	506429	10/02/21 21:49	JWW	TAL CAN
Total/NA	Analysis	300.0		5	506429	10/02/21 22:09	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	505126	09/23/21 16:57	JWW	TAL CAN

Client Sample ID: BAC-05

Lab Sample ID: 240-156536-15

Date Collected: 09/18/21 13:55

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 22:26	RKT	TAL CAN
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 16:15	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	505614	09/26/21 19:36	JWW	TAL CAN
Total/NA	Analysis	300.0		1	506429	10/02/21 23:10	JWW	TAL CAN
Total/NA	Analysis	300.0		5	506429	10/02/21 23:30	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	505126	09/23/21 16:57	JWW	TAL CAN

Client Sample ID: BAC-04

Lab Sample ID: 240-156536-16

Date Collected: 09/18/21 15:11

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 22:38	RKT	TAL CAN
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 16:18	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	505614	09/26/21 19:40	JWW	TAL CAN
Total/NA	Analysis	300.0		1	506429	10/02/21 23:50	JWW	TAL CAN
Total/NA	Analysis	300.0		5	507659	10/11/21 17:11	JWW	TAL CAN

Eurofins TestAmerica, Canton

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: BAC-04

Lab Sample ID: 240-156536-16

Date Collected: 09/18/21 15:11

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	505126	09/23/21 16:57	JWW	TAL CAN

Client Sample ID: BAC-03

Lab Sample ID: 240-156536-17

Date Collected: 09/18/21 15:44

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 22:43	RKT	TAL CAN
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 16:25	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	505614	09/26/21 19:44	JWW	TAL CAN
Total/NA	Analysis	300.0		1	506429	10/03/21 00:10	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	505126	09/23/21 16:57	JWW	TAL CAN

Client Sample ID: DUPLICATE #1 (BAC-03)

Lab Sample ID: 240-156536-18

Date Collected: 09/18/21 15:44

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 22:47	RKT	TAL CAN
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 16:28	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	505614	09/26/21 19:51	JWW	TAL CAN
Total/NA	Analysis	300.0		1	506429	10/03/21 00:30	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	505126	09/23/21 16:57	JWW	TAL CAN

Client Sample ID: 94136

Lab Sample ID: 240-156536-19

Date Collected: 09/19/21 08:59

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 22:51	RKT	TAL CAN
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 16:30	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	505614	09/26/21 19:57	JWW	TAL CAN
Total/NA	Analysis	300.0		1	506429	10/03/21 00:50	JWW	TAL CAN
Total/NA	Analysis	300.0		10	506429	10/03/21 01:10	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	505126	09/23/21 16:57	JWW	TAL CAN

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: 94137

Lab Sample ID: 240-156536-20

Date Collected: 09/19/21 09:22

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505017	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 20:11	RKT	TAL CAN
Total Recoverable	Prep	3005A			505017	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 14:26	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	505614	09/26/21 20:02	JWW	TAL CAN
Total/NA	Analysis	300.0		1	506429	10/03/21 01:31	JWW	TAL CAN
Total/NA	Analysis	300.0		5	506429	10/03/21 01:51	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	505126	09/23/21 16:57	JWW	TAL CAN

Client Sample ID: 2000

Lab Sample ID: 240-156536-21

Date Collected: 09/19/21 09:57

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505017	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 20:19	RKT	TAL CAN
Total Recoverable	Prep	3005A			505017	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 14:28	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	505614	09/26/21 20:07	JWW	TAL CAN
Total/NA	Analysis	300.0		1	506429	10/03/21 03:31	JWW	TAL CAN
Total/NA	Analysis	300.0		10	506429	10/03/21 03:51	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	505126	09/23/21 16:57	JWW	TAL CAN

Client Sample ID: MW-15

Lab Sample ID: 240-156536-22

Date Collected: 09/19/21 12:06

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505017	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 20:24	RKT	TAL CAN
Total Recoverable	Prep	3005A			505017	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 14:31	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	505614	09/26/21 20:11	JWW	TAL CAN
Total/NA	Analysis	300.0		1	506429	10/03/21 04:12	JWW	TAL CAN
Total/NA	Analysis	300.0		10	506429	10/03/21 04:32	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	505126	09/23/21 16:57	JWW	TAL CAN

Client Sample ID: MW-17

Lab Sample ID: 240-156536-23

Date Collected: 09/19/21 13:02

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 20:58	RKT	TAL CAN

Eurofins TestAmerica, Canton

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: MW-17

Lab Sample ID: 240-156536-23

Date Collected: 09/19/21 13:02

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505016	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 15:16	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	505614	09/26/21 20:16	JWW	TAL CAN
Total/NA	Analysis	300.0		5	506429	10/03/21 04:52	JWW	TAL CAN
Total/NA	Analysis	300.0		50	506429	10/03/21 05:52	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	505126	09/23/21 16:57	JWW	TAL CAN

Client Sample ID: B0903

Lab Sample ID: 240-156536-24

Date Collected: 09/19/21 14:35

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505017	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 20:28	RKT	TAL CAN
Total Recoverable	Prep	3005A			505017	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 14:33	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	505614	09/26/21 20:20	JWW	TAL CAN
Total/NA	Analysis	300.0		1	506429	10/03/21 07:33	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	505126	09/23/21 16:57	JWW	TAL CAN

Client Sample ID: BOTTOM ASH POND

Lab Sample ID: 240-156536-25

Date Collected: 09/19/21 14:55

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505017	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 20:33	RKT	TAL CAN
Total Recoverable	Prep	3005A			505017	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 14:36	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	505614	09/26/21 20:23	JWW	TAL CAN
Total/NA	Analysis	300.0		1	506429	10/03/21 07:53	JWW	TAL CAN
Total/NA	Analysis	300.0		5	506429	10/03/21 08:13	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	505246	09/24/21 09:38	JMR	TAL CAN

Client Sample ID: RECLAIM POND

Lab Sample ID: 240-156536-26

Date Collected: 09/19/21 15:08

Matrix: Water

Date Received: 09/22/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			505017	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506593	10/04/21 20:37	RKT	TAL CAN
Total Recoverable	Prep	3005A			505017	09/23/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	505474	09/24/21 14:38	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	505614	09/26/21 20:27	JWW	TAL CAN

Eurofins TestAmerica, Canton

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-156536-1

Client Sample ID: RECLAIM POND

Lab Sample ID: 240-156536-26

Date Collected: 09/19/21 15:08

Matrix: Water

Date Received: 09/22/21 08:00

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Analysis	300.0		1	506429	10/03/21 08:33	JWW	TAL CAN
Total/NA	Analysis	300.0		5	506429	10/03/21 08:53	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	505246	09/24/21 09:38	JMR	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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Accreditation/Certification Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-156536-1

Laboratory: Eurofins TestAmerica, Canton

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-22
Georgia	State	4062	02-23-22
Illinois	NELAP	200004	07-31-22
Iowa	State	421	06-01-23
Kansas	NELAP	E-10336	04-30-22
Kentucky (UST)	State	112225	02-23-22
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-22
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-18-10	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

Columbus TestAmerica

209 Chain of Custody Record

TestAmerica Canton
 4101 Shuffel Street NW
 North Canton, OH 44720
 Phone: (330) 497-9396 Fax (330) 497-0772

Client Information
 Client Contact: Taylor Huffman
 Phone: 740-925-3171
 E-Mail: john.mcfadden@testamericainc.com

Lab PM: McFadden, John
 E-Mail: john.mcfadden@testamericainc.com

Carrier Tracking No(s): 229
 Page: _____ of _____
 Job #: _____

Company: Lightstone Generation Gavin Power LLC
 Address: 7397 OH-7
 City: Cheshire
 State, Zip: OH, 45620
 Phone: 740-925-3171 (Tel)
 Email: Taylor.Huffman@lightstonesgen.com

Project Name: CCR WELLS
 Project #: 24019633
 SSOW#: _____

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Preservation Code:	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd, 300.0_28D(Cl, F, S, SO ₄)	2320B(Carbonate Alkalinity/Bi-Carbonate Alkalinity)	Total Number of Containers	Preservation Codes:
2016-09	9-20-21	0938	G	W	W	X	X			3	A - HCL M - Hexane N - None B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO ₄ F - MeOH G - Ammonia H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:
Duplicate #2 (2016-09)	9-20-21	0938	G	W	W	X	X			3	
96154 R	9-20-21	1003	G	W	W	X	X			3	
96153 R	9-20-21	1044	G	W	W	X	X			3	
MW-20	9-20-21	1113	G	W	W	X	X			3	
2016-10	9-20-21	1323	G	W	W	X	X			3	
93108	9-20-21	1427	G	W	W	X	X			3	
MW-1	9-20-21	1533	G	W	W	X	X			3	
River	9-20-21	1554	G	W	W	X	X			3	



Possible Hazard Identification
 Non-Hazard Flammable Irritant Biological

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

Empty Kill Relinquished by: _____ Date: _____

Relinquished by: _____ Date/Time: 9-21-21 0900
 Company: Columbus Company

Relinquished by: _____ Date/Time: 9/21/21 1700
 Company: ETA Company

Relinquished by: _____ Date/Time: _____
 Company: _____

Custody Seals Intact: Custody Seal No.: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archival _____ Months: _____

Special Instructions/QC Requirements: _____

Method of Shipment: _____

Received by: _____ Date/Time: 9-21-21 1100
 Company: ETA Company

Received by: _____ Date/Time: 9/21/21 0800
 Company: ETA Company



Chain of Custody Record

THE LEADER IN ENVIRONMENTAL TESTING

Client Information
 Client Contact: Taylor Huffman
 Phone: 740-925-3171
 E-Mail: john.mcfadden@testamericainc.com
 Lab PM: McFadden, John
 Carrier Tracking No(s): 229
 COC No: _____
 Page of _____
 Job #: _____

Address: Lightstone Generation Gavin Power LLC
7397 OH-7
City: Cheshire
State, Zip: OH, 45620
Phone: 740-925-3171(Tel)
PO #: 2911431
WO #: _____
Project #: 24019633
SSOW#: _____
Project Name: CCR WELLS
Email: GAVIN LLC
Site: GAVIN LLC

Sample Identification	Sample Date	Sample Time	Sample Type (C-comp, G-grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calc'd, 300.0_28D(Cl, Fluoride, Sulfate)	2320B(Carbonate Alkalinity/Bi-Carbonate Alkalinity)	Total Number of Containers	Preservation Codes: A - HCL M - Hexane N - None 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:
BAC-01	9-18-21	0939	G	W	X	X	N	1	3	
MW-6	9-18-21	1013	G	W	X	X	N	1	3	
BAC-07	9-18-21	1051	G	W	X	X	N	1	3	
BAC-06	9-18-21	1247	G	W	X	X	N	1	3	
BAC-02	9-18-21	1324	G	W	X	X	N	1	3	
BAC-05	9-18-21	1355	G	W	X	X	N	1	3	
BAC-04	9-18-21	1511	G	W	X	X	N	1	3	
BAC-03	9-18-21	1524	G	W	X	X	N	1	3	
Duplicate #1 (BAC-03)	9-18-21	1544	G	W	X	X	N	1	3	

Possible Hazard Identification
 Non-Hazard Flammable Irritant Son B Down Biological
 Deliverable Requested: I, II, III, IV, Other (specify _____)
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposed By Lab Arch or Months

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: Taylor Huffman Date/Time: 9-21-21 0800 Company: TestAmerica
 Relinquished by: John M. Fadden Date/Time: 9-21-21 1700 Company: TestAmerica
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: _____



TestAmerica Canton
 4101 Shuffel Street NW
 North Canton, OH 44720
 Phone (330) 497-9396 Fax (330) 497-0772

3.6/3.7 Columbus
 Chain of Custody Record 209
 TestAmerica

THE LEADER IN WATER TESTING

Client Information
 Client Contact: Taylor Huffman
 Phone: 740-925-3171
 E-Mail: john.mcfadden@testamericainc.com
 Lab PM: McFadden, John
 Carrier Tracking No(s): 229
 COC No: []
 Page: []
 Page of []
 Job #: []

Company: Lightstone Generation Gavin Power LLC
 Address: 7397 OH-7
 City: Cheshire
 State, Zip: OH, 45620
 Phone: 740-925-3171(Tel)
 Email: Taylor.Huffman@lightstonegen.com
 Project Name: CCR WELLS
 Project #: 24019633
 SSOW#: []
 Due Date Requested: []
 TAT Requested (days): []
 PO #: 2911431
 WO #: []

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		2540C, Calcd, 300.0_28D (Chloride, Fluoride, Sulfate)		2320B (Carbonate Alkalinity/Bi-Carbonate Alkalinity)		Analysis Requested	Total Number of Containers	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:
					D	N	D	N	D	N	D	N			
94136	9-19-21	0859	G	W	X		X		1	1	1		3		
94137	9-19-21	0922	G	W	X		X		1	1	1		3		
2000	9-19-21	0957	G	W	X		X		1	1	1		3		
MW-15	9-19-21	1206	G	W	X		X		1	1	1		3		
MW-17	9-19-21	1302	G	W	X		X		1	1	1		3		
ms/msd (mw-17)	9-19-21	1304	G	W	X		X		3	3	3		3		
B0903	9-19-21	1435	G	W	X		X		1	1	1		3		
Bottom Ash Pond	9-19-21	1455	G	W	X		X		1	1	1		3		
Reclaim Pond	9-19-21	1508	G	W	X		X		1	1	1		3		

Possible Hazard Identification
 Non-Hazard Flammable Irritant
 Deliverable Requested: I, II, III, IV, Other (specify [])
 son B town biological
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposed By Lab
 Special Instructions/QC Requirements:
 Empty Kit Relinquished by: [] Date: []
 Relinquished by: Shari Shami Date/Time: 9-21-21 0900 Company: Gavin
 Relinquished by: [] Date/Time: 9/21/21 1700 Company: []
 Relinquished by: [] Date/Time: [] Company: []
 Custody Seals Intact: Custody Seal No.: []
 Cooler Temperature(s) °C and Other Remarks: []

1
2
3
4
5
6
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9
0
1
2
13

Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility


Login # : 156536

Client Lightstone Gen Galin Site Name _____
 Cooler Received on 9/22/21 Opened on 9/22/21
 FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Cooler unpacked by:
Trent

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # RA Foam Box Client Cooler Box Other _____
 Packing material used: Bubble Wrap Foam Elastic Bag None Other _____
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-11 (CF +0.1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN #IR-12 (CF +0.2°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
 -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
 If yes, Questions 13-17 have been checked at the originating laboratory.
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC157842
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials?  ← Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
17. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Tests that are not checked for pH by Receiving:
 VOAs
 Oil and Grease
 TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page

Samples processed by: _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>		<u>Preservative</u>	
			<u>pH</u>	<u>Temp</u>	<u>Added (mls)</u>	<u>Lot #</u>
2016-09	240-156536-C-1	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
DUPLICATE #2	240-156536-C-2	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
96154R	240-156536-C-3	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
96153R	240-156536-C-4	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
MW-20	240-156536-C-5	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2016-10	240-156536-C-6	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
93108	240-156536-C-7	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
MW-1	240-156536-C-8	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
RIVER	240-156536-C-9	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
BAC-1	240-156536-C-10	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
MW-6	240-156536-C-11	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
BAC-07	240-156536-C-12	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
BAC-06	240-156536-C-13	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
BAC-02	240-156536-C-14	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
BAC-05	240-156536-C-15	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
BAC-04	240-156536-C-16	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
BAC-03	240-156536-C-17	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
DUPCIATE #1 (BAC-03)	240-156536-C-18	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
94136	240-156536-C-19	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
94137	240-156536-C-20	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2000	240-156536-C-21	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
MW-15	240-156536-C-22	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
MW-17	240-156536-I-23	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
MW-17	240-156536-J-23	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
MW-17	240-156536-K-23	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
MW-17	240-156536-L-23	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
B0903	240-156536-C-24	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
BOTTOM ASH POND	240-156536-C-25	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
RECLAIM POND	240-156536-C-26	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-157000-1
Client Project/Site: Gavin CCR

For:

Lightstone Generation Gavin Power LLC
7397 OH-7
Cheshire, Ohio 45620

Attn: Taylor Huffman

Roxanne Cisneros

*Authorized for release by:
10/13/2021 8:09:23 AM*

Roxanne Cisneros, Senior Project Manager
(615)301-5761
roxanne.cisneros@Eurofinset.com

LINKS

Review your project
results through
Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-157000-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
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.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Case Narrative

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-157000-1

Job ID: 240-157000-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

**Job Narrative
240-157000-1**

Comments

No additional comments.

Receipt

The samples were received on 9/29/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 1.5° C, 1.6° C, 2.3° C, 3.2° C and 3.7° C.

Metals

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

General Chemistry

Method 300.0: The following samples were diluted due to the nature of the sample matrix: 2019-02 (240-157000-6), 2019-07 (240-157000-8), 2019-09 (240-157000-9), 9801 (240-157000-10), DUPLICATE # 3 (9801) (240-157000-11) and 9631 (240-157000-13). 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.

Method Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-157000-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL CAN
6020	Metals (ICP/MS)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-157000-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-157000-1	2016-03	Water	09/24/21 10:02	09/29/21 08:00
240-157000-2	2016-06	Water	09/24/21 10:56	09/29/21 08:00
240-157000-3	2016-07	Water	09/24/21 13:08	09/29/21 08:00
240-157000-4	2016-08	Water	09/24/21 13:36	09/29/21 08:00
240-157000-5	9910	Water	09/24/21 14:14	09/29/21 08:00
240-157000-6	2019-02	Water	09/25/21 09:42	09/29/21 08:00
240-157000-7	2019-06	Water	09/25/21 10:34	09/29/21 08:00
240-157000-8	2019-07	Water	09/25/21 11:09	09/29/21 08:00
240-157000-9	2019-09	Water	09/25/21 13:15	09/29/21 08:00
240-157000-10	9801	Water	09/27/21 10:13	09/29/21 08:00
240-157000-11	DUPLICATE # 3 (9801)	Water	09/27/21 10:13	09/29/21 08:00
240-157000-12	9806	Water	09/27/21 10:52	09/29/21 08:00
240-157000-13	9631	Water	09/27/21 12:46	09/29/21 08:00
240-157000-14	2018-01	Water	09/27/21 13:22	09/29/21 08:00



Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Client Sample ID: 2016-03

Lab Sample ID: 240-157000-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	2100		100	57	ug/L	1		6010B	Total Recoverable
Calcium	450000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	110000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	6900		1000	220	ug/L	1		6020	Total Recoverable
Sodium	130000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	320	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	320	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	30		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.19		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	1500		10	3.5	mg/L	10		300.0	Total/NA
Total Dissolved Solids	2300		20	16	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 2016-06

Lab Sample ID: 240-157000-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	460		100	57	ug/L	1		6010B	Total Recoverable
Calcium	4800		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	1300		1000	200	ug/L	1		6020	Total Recoverable
Potassium	3700		1000	220	ug/L	1		6020	Total Recoverable
Sodium	630000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	510	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	470	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	47		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	630		10	2.8	mg/L	10		300.0	Total/NA
Fluoride	5.4		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	99		1.0	0.35	mg/L	1		300.0	Total/NA
Total Dissolved Solids	1400		40	31	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 2016-07

Lab Sample ID: 240-157000-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	420		100	57	ug/L	1		6010B	Total Recoverable
Calcium	15000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	4100		1000	200	ug/L	1		6020	Total Recoverable
Potassium	3300		1000	220	ug/L	1		6020	Total Recoverable
Sodium	860000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	310	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	290	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	24		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	1200		20	5.7	mg/L	20		300.0	Total/NA
Fluoride	3.1		0.25	0.12	mg/L	5		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Client Sample ID: 2016-07 (Continued)

Lab Sample ID: 240-157000-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	25		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	2000		40	31	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 2016-08

Lab Sample ID: 240-157000-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	170		100	57	ug/L	1		6010B	Total Recoverable
Calcium	240000		1000	580	ug/L	1		6020	Total Recoverable
Potassium	15000		1000	220	ug/L	1		6020	Total Recoverable
Sodium	990000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	1000	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	45		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	860		5.0	1.4	mg/L	5		300.0	Total/NA
Fluoride	0.96		0.25	0.12	mg/L	5		300.0	Total/NA
Sulfate	15		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	1700		50	39	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 9910

Lab Sample ID: 240-157000-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	520		100	57	ug/L	1		6010B	Total Recoverable
Calcium	15000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	4700		1000	200	ug/L	1		6020	Total Recoverable
Potassium	2900		1000	220	ug/L	1		6020	Total Recoverable
Sodium	1100000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	870	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	850	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	15		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	870		5.0	1.4	mg/L	5		300.0	Total/NA
Fluoride	1.9		0.25	0.12	mg/L	5		300.0	Total/NA
Sulfate	96		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	2400		50	39	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 2019-02

Lab Sample ID: 240-157000-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	230000		1000	580	ug/L	1		6020	Total Recoverable
Potassium	16000		1000	220	ug/L	1		6020	Total Recoverable
Sodium	550000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	1600	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	54		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	180		5.0	1.4	mg/L	5		300.0	Total/NA
Fluoride	0.71		0.25	0.12	mg/L	5		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Client Sample ID: 2019-02 (Continued)

Lab Sample ID: 240-157000-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	2.7	J	5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	1800		50	39	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 2019-06

Lab Sample ID: 240-157000-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	250		100	57	ug/L	1		6010B	Total Recoverable
Calcium	160000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	52000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	15000		1000	220	ug/L	1		6020	Total Recoverable
Sodium	3900000		10000	3300	ug/L	10		6020	Total Recoverable
Total Alkalinity	310	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	310	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	6500		50	14	mg/L	50		300.0	Total/NA
Fluoride	0.83		0.50	0.24	mg/L	10		300.0	Total/NA
Sulfate	410		10	3.5	mg/L	10		300.0	Total/NA
Total Dissolved Solids	9400		100	78	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 2019-07

Lab Sample ID: 240-157000-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	420		100	57	ug/L	1		6010B	Total Recoverable
Calcium	740000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	200000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	21000		1000	220	ug/L	1		6020	Total Recoverable
Sodium	8700000		100000	33000	ug/L	100		6020	Total Recoverable
Total Alkalinity	160	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	160	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	16000		1000	280	mg/L	1000		300.0	Total/NA
Sulfate	530		50	17	mg/L	50		300.0	Total/NA
Total Dissolved Solids	2900		1000	780	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 2019-09

Lab Sample ID: 240-157000-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	290		100	57	ug/L	1		6010B	Total Recoverable
Calcium	690000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	220000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	26000		1000	220	ug/L	1		6020	Total Recoverable
Sodium	7600000		100000	33000	ug/L	100		6020	Total Recoverable
Total Alkalinity	170	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Client Sample ID: 2019-09 (Continued)

Lab Sample ID: 240-157000-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bicarbonate Alkalinity as CaCO3	170	B	5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	16000		1000	280	mg/L	1000		300.0	Total/NA
Total Dissolved Solids	5500		1000	780	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 9801

Lab Sample ID: 240-157000-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	400		100	57	ug/L	1		6010B	Total Recoverable
Calcium	190000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	53000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	8900		1000	220	ug/L	1		6020	Total Recoverable
Sodium	4400000		10000	3300	ug/L	10		6020	Total Recoverable
Total Alkalinity	150		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	150		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	7700		50	14	mg/L	50		300.0	Total/NA
Fluoride	0.85		0.50	0.24	mg/L	10		300.0	Total/NA
Sulfate	5.9	J	10	3.5	mg/L	10		300.0	Total/NA
Total Dissolved Solids	9300		100	78	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUPLICATE # 3 (9801)

Lab Sample ID: 240-157000-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	430		100	57	ug/L	1		6010B	Total Recoverable
Calcium	200000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	56000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	9500		1000	220	ug/L	1		6020	Total Recoverable
Sodium	4400000		10000	3300	ug/L	10		6020	Total Recoverable
Total Alkalinity	150		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	150		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	7600		50	14	mg/L	50		300.0	Total/NA
Fluoride	0.90		0.50	0.24	mg/L	10		300.0	Total/NA
Sulfate	5.9	J	10	3.5	mg/L	10		300.0	Total/NA
Total Dissolved Solids	8100		100	78	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 9806

Lab Sample ID: 240-157000-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	250		100	57	ug/L	1		6010B	Total Recoverable
Calcium	8900		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	3900		1000	200	ug/L	1		6020	Total Recoverable
Potassium	1700		1000	220	ug/L	1		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Client Sample ID: 9806 (Continued)

Lab Sample ID: 240-157000-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	330000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	330		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	300		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	25		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	160		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	1.0		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	230		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	950		20	16	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 9631

Lab Sample ID: 240-157000-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	380		100	57	ug/L	1		6010B	Total Recoverable
Calcium	310000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	87000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	10000		1000	220	ug/L	1		6020	Total Recoverable
Sodium	5900000		10000	3300	ug/L	10		6020	Total Recoverable
Total Alkalinity	290		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	290		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	9700		50	14	mg/L	50		300.0	Total/NA
Sulfate	34 J		50	17	mg/L	50		300.0	Total/NA
Total Dissolved Solids	2900		1000	780	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 2018-01

Lab Sample ID: 240-157000-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	450		100	57	ug/L	1		6010B	Total Recoverable
Calcium	37000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	470 J		1000	200	ug/L	1		6020	Total Recoverable
Potassium	3500		1000	220	ug/L	1		6020	Total Recoverable
Sodium	1900000		10000	3300	ug/L	10		6020	Total Recoverable
Total Alkalinity	290		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	290		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	3100		25	7.1	mg/L	25		300.0	Total/NA
Fluoride	2.8		0.25	0.12	mg/L	5		300.0	Total/NA
Sulfate	36		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	4400		50	39	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Client Sample ID: 2016-03

Lab Sample ID: 240-157000-1

Date Collected: 09/24/21 10:02

Matrix: Water

Date Received: 09/29/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2100		100	57	ug/L		09/30/21 14:00	10/01/21 19:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	450000		1000	580	ug/L		09/30/21 14:00	10/01/21 13:36	1
Magnesium	110000		1000	200	ug/L		09/30/21 14:00	10/01/21 13:36	1
Potassium	6900		1000	220	ug/L		09/30/21 14:00	10/01/21 13:36	1
Sodium	130000		1000	330	ug/L		09/30/21 14:00	10/01/21 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	320	B	5.0	2.6	mg/L			10/07/21 03:49	1
Bicarbonate Alkalinity as CaCO3	320	B	5.0	2.6	mg/L			10/07/21 03:49	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/07/21 03:49	1
Chloride	30		1.0	0.28	mg/L			10/11/21 21:13	1
Fluoride	0.19		0.050	0.024	mg/L			10/11/21 21:13	1
Sulfate	1500		10	3.5	mg/L			10/11/21 21:33	10
Total Dissolved Solids	2300		20	16	mg/L			10/01/21 11:25	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Client Sample ID: 2016-06

Lab Sample ID: 240-157000-2

Date Collected: 09/24/21 10:56

Matrix: Water

Date Received: 09/29/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	460		100	57	ug/L		09/30/21 14:00	10/01/21 19:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	4800		1000	580	ug/L		09/30/21 14:00	10/01/21 13:38	1
Magnesium	1300		1000	200	ug/L		09/30/21 14:00	10/01/21 13:38	1
Potassium	3700		1000	220	ug/L		09/30/21 14:00	10/01/21 13:38	1
Sodium	630000		1000	330	ug/L		09/30/21 14:00	10/01/21 13:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	510	B	5.0	2.6	mg/L			10/07/21 04:20	1
Bicarbonate Alkalinity as CaCO3	470	B	5.0	2.6	mg/L			10/07/21 04:20	1
Carbonate Alkalinity as CaCO3	47		5.0	2.6	mg/L			10/07/21 04:20	1
Chloride	630		10	2.8	mg/L			10/11/21 22:13	10
Fluoride	5.4		0.050	0.024	mg/L			10/11/21 21:53	1
Sulfate	99		1.0	0.35	mg/L			10/11/21 21:53	1
Total Dissolved Solids	1400		40	31	mg/L			10/01/21 11:25	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Client Sample ID: 2016-07
 Date Collected: 09/24/21 13:08
 Date Received: 09/29/21 08:00

Lab Sample ID: 240-157000-3
 Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	420		100	57	ug/L		09/30/21 14:00	10/01/21 20:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	15000		1000	580	ug/L		09/30/21 14:00	10/01/21 13:41	1
Magnesium	4100		1000	200	ug/L		09/30/21 14:00	10/01/21 13:41	1
Potassium	3300		1000	220	ug/L		09/30/21 14:00	10/01/21 13:41	1
Sodium	860000		1000	330	ug/L		09/30/21 14:00	10/01/21 13:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	310	B	5.0	2.6	mg/L			10/07/21 04:24	1
Bicarbonate Alkalinity as CaCO3	290	B	5.0	2.6	mg/L			10/07/21 04:24	1
Carbonate Alkalinity as CaCO3	24		5.0	2.6	mg/L			10/07/21 04:24	1
Chloride	1200		20	5.7	mg/L			10/11/21 22:53	20
Fluoride	3.1		0.25	0.12	mg/L			10/11/21 22:33	5
Sulfate	25		5.0	1.7	mg/L			10/11/21 22:33	5
Total Dissolved Solids	2000		40	31	mg/L			10/01/21 11:25	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Client Sample ID: 2016-08
Date Collected: 09/24/21 13:36
Date Received: 09/29/21 08:00

Lab Sample ID: 240-157000-4
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	170		100	57	ug/L		09/30/21 14:00	10/01/21 20:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	240000		1000	580	ug/L		09/30/21 14:00	10/01/21 13:51	1
Magnesium	1000	U	1000	200	ug/L		09/30/21 14:00	10/01/21 13:51	1
Potassium	15000		1000	220	ug/L		09/30/21 14:00	10/01/21 13:51	1
Sodium	990000		1000	330	ug/L		09/30/21 14:00	10/04/21 18:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	1000	B	5.0	2.6	mg/L			10/07/21 04:34	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/07/21 04:34	1
Carbonate Alkalinity as CaCO3	45		5.0	2.6	mg/L			10/07/21 04:34	1
Chloride	860		5.0	1.4	mg/L			10/11/21 23:13	5
Fluoride	0.96		0.25	0.12	mg/L			10/11/21 23:13	5
Sulfate	15		5.0	1.7	mg/L			10/11/21 23:13	5
Total Dissolved Solids	1700		50	39	mg/L			10/01/21 11:25	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Client Sample ID: 9910

Lab Sample ID: 240-157000-5

Date Collected: 09/24/21 14:14

Matrix: Water

Date Received: 09/29/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	520		100	57	ug/L		09/30/21 14:00	10/01/21 20:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	15000		1000	580	ug/L		09/30/21 14:00	10/01/21 13:53	1
Magnesium	4700		1000	200	ug/L		09/30/21 14:00	10/01/21 13:53	1
Potassium	2900		1000	220	ug/L		09/30/21 14:00	10/01/21 13:53	1
Sodium	1100000		1000	330	ug/L		09/30/21 14:00	10/04/21 18:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	870	B	5.0	2.6	mg/L			10/07/21 04:40	1
Bicarbonate Alkalinity as CaCO3	850	B	5.0	2.6	mg/L			10/07/21 04:40	1
Carbonate Alkalinity as CaCO3	15		5.0	2.6	mg/L			10/07/21 04:40	1
Chloride	870		5.0	1.4	mg/L			10/12/21 00:34	5
Fluoride	1.9		0.25	0.12	mg/L			10/12/21 00:34	5
Sulfate	96		5.0	1.7	mg/L			10/12/21 00:34	5
Total Dissolved Solids	2400		50	39	mg/L			10/01/21 11:25	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Client Sample ID: 2019-02
Date Collected: 09/25/21 09:42
Date Received: 09/29/21 08:00

Lab Sample ID: 240-157000-6
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100	57	ug/L		09/30/21 14:00	10/01/21 19:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	230000		1000	580	ug/L		09/30/21 14:00	10/01/21 13:24	1
Magnesium	1000	U	1000	200	ug/L		09/30/21 14:00	10/01/21 13:24	1
Potassium	16000		1000	220	ug/L		09/30/21 14:00	10/01/21 13:24	1
Sodium	550000		1000	330	ug/L		09/30/21 14:00	10/01/21 13:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	1600	B	5.0	2.6	mg/L			10/07/21 04:14	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/07/21 04:14	1
Carbonate Alkalinity as CaCO3	54		5.0	2.6	mg/L			10/07/21 04:14	1
Chloride	180		5.0	1.4	mg/L			10/12/21 01:14	5
Fluoride	0.71		0.25	0.12	mg/L			10/12/21 01:14	5
Sulfate	2.7	J	5.0	1.7	mg/L			10/12/21 01:14	5
Total Dissolved Solids	1800		50	39	mg/L			10/01/21 11:25	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Client Sample ID: 2019-06

Lab Sample ID: 240-157000-7

Date Collected: 09/25/21 10:34

Matrix: Water

Date Received: 09/29/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	250		100	57	ug/L		09/30/21 14:00	10/01/21 20:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	160000		1000	580	ug/L		09/30/21 14:00	10/01/21 13:56	1
Magnesium	52000		1000	200	ug/L		09/30/21 14:00	10/01/21 13:56	1
Potassium	15000		1000	220	ug/L		09/30/21 14:00	10/01/21 13:56	1
Sodium	3900000		10000	3300	ug/L		09/30/21 14:00	10/04/21 18:28	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	310	B	5.0	2.6	mg/L			10/07/21 04:45	1
Bicarbonate Alkalinity as CaCO3	310	B	5.0	2.6	mg/L			10/07/21 04:45	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/07/21 04:45	1
Chloride	6500		50	14	mg/L			10/12/21 03:35	50
Fluoride	0.83		0.50	0.24	mg/L			10/12/21 03:15	10
Sulfate	410		10	3.5	mg/L			10/12/21 03:15	10
Total Dissolved Solids	9400		100	78	mg/L			10/01/21 11:25	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Client Sample ID: 2019-07
 Date Collected: 09/25/21 11:09
 Date Received: 09/29/21 08:00

Lab Sample ID: 240-157000-8
 Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	420		100	57	ug/L		09/30/21 14:00	10/01/21 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	740000		1000	580	ug/L		09/30/21 14:00	10/01/21 13:58	1
Magnesium	200000		1000	200	ug/L		09/30/21 14:00	10/01/21 13:58	1
Potassium	21000		1000	220	ug/L		09/30/21 14:00	10/01/21 13:58	1
Sodium	8700000		100000	33000	ug/L		09/30/21 14:00	10/04/21 18:31	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	160	B	5.0	2.6	mg/L			10/07/21 04:48	1
Bicarbonate Alkalinity as CaCO3	160	B	5.0	2.6	mg/L			10/07/21 04:48	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/07/21 04:48	1
Chloride	16000		1000	280	mg/L			10/12/21 04:56	1000
Fluoride	2.5	U	2.5	1.2	mg/L			10/12/21 04:36	50
Sulfate	530		50	17	mg/L			10/12/21 04:36	50
Total Dissolved Solids	2900		1000	780	mg/L			10/01/21 11:25	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Client Sample ID: 2019-09
 Date Collected: 09/25/21 13:15
 Date Received: 09/29/21 08:00

Lab Sample ID: 240-157000-9
 Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	290		100	57	ug/L		09/30/21 14:00	10/01/21 20:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	690000		1000	580	ug/L		09/30/21 14:00	10/01/21 14:01	1
Magnesium	220000		1000	200	ug/L		09/30/21 14:00	10/01/21 14:01	1
Potassium	26000		1000	220	ug/L		09/30/21 14:00	10/01/21 14:01	1
Sodium	7600000		100000	33000	ug/L		09/30/21 14:00	10/04/21 18:33	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	170	B	5.0	2.6	mg/L			10/07/21 04:53	1
Bicarbonate Alkalinity as CaCO3	170	B	5.0	2.6	mg/L			10/07/21 04:53	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/07/21 04:53	1
Chloride	16000		1000	280	mg/L			10/12/21 05:36	1000
Fluoride	2.5	U	2.5	1.2	mg/L			10/12/21 05:16	50
Sulfate	50	U	50	17	mg/L			10/12/21 05:16	50
Total Dissolved Solids	5500		1000	780	mg/L			10/01/21 11:25	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Client Sample ID: 9801

Lab Sample ID: 240-157000-10

Date Collected: 09/27/21 10:13

Matrix: Water

Date Received: 09/29/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	400		100	57	ug/L		09/30/21 14:00	10/01/21 20:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	190000		1000	580	ug/L		09/30/21 14:00	10/01/21 14:04	1
Magnesium	53000		1000	200	ug/L		09/30/21 14:00	10/01/21 14:04	1
Potassium	8900		1000	220	ug/L		09/30/21 14:00	10/01/21 14:04	1
Sodium	4400000		10000	3300	ug/L		09/30/21 14:00	10/04/21 18:36	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	150		5.0	2.6	mg/L			10/08/21 00:54	1
Bicarbonate Alkalinity as CaCO3	150		5.0	2.6	mg/L			10/08/21 00:54	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/08/21 00:54	1
Chloride	7700		50	14	mg/L			10/12/21 06:16	50
Fluoride	0.85		0.50	0.24	mg/L			10/12/21 05:56	10
Sulfate	5.9	J	10	3.5	mg/L			10/12/21 05:56	10
Total Dissolved Solids	9300		100	78	mg/L			10/01/21 11:25	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Client Sample ID: DUPLICATE # 3 (9801)

Lab Sample ID: 240-157000-11

Date Collected: 09/27/21 10:13

Matrix: Water

Date Received: 09/29/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	430		100	57	ug/L		09/30/21 14:00	10/01/21 20:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	200000		1000	580	ug/L		09/30/21 14:00	10/01/21 14:06	1
Magnesium	56000		1000	200	ug/L		09/30/21 14:00	10/01/21 14:06	1
Potassium	9500		1000	220	ug/L		09/30/21 14:00	10/01/21 14:06	1
Sodium	4400000		10000	3300	ug/L		09/30/21 14:00	10/04/21 18:38	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	150		5.0	2.6	mg/L			10/08/21 01:06	1
Bicarbonate Alkalinity as CaCO3	150		5.0	2.6	mg/L			10/08/21 01:06	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/08/21 01:06	1
Chloride	7600		50	14	mg/L			10/12/21 06:57	50
Fluoride	0.90		0.50	0.24	mg/L			10/12/21 06:36	10
Sulfate	5.9	J	10	3.5	mg/L			10/12/21 06:36	10
Total Dissolved Solids	8100		100	78	mg/L			10/01/21 11:25	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Client Sample ID: 9806

Lab Sample ID: 240-157000-12

Date Collected: 09/27/21 10:52

Matrix: Water

Date Received: 09/29/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	250		100	57	ug/L		09/30/21 14:00	10/01/21 20:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	8900		1000	580	ug/L		09/30/21 14:00	10/01/21 14:09	1
Magnesium	3900		1000	200	ug/L		09/30/21 14:00	10/01/21 14:09	1
Potassium	1700		1000	220	ug/L		09/30/21 14:00	10/01/21 14:09	1
Sodium	330000		1000	330	ug/L		09/30/21 14:00	10/04/21 18:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	330		5.0	2.6	mg/L			10/08/21 01:10	1
Bicarbonate Alkalinity as CaCO3	300		5.0	2.6	mg/L			10/08/21 01:10	1
Carbonate Alkalinity as CaCO3	25		5.0	2.6	mg/L			10/08/21 01:10	1
Chloride	160		1.0	0.28	mg/L			10/12/21 07:17	1
Fluoride	1.0		0.050	0.024	mg/L			10/12/21 07:17	1
Sulfate	230		5.0	1.7	mg/L			10/12/21 07:37	5
Total Dissolved Solids	950		20	16	mg/L			10/01/21 15:43	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Client Sample ID: 9631

Lab Sample ID: 240-157000-13

Date Collected: 09/27/21 12:46

Matrix: Water

Date Received: 09/29/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	380		100	57	ug/L		09/30/21 14:00	10/01/21 20:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	310000		1000	580	ug/L		09/30/21 14:00	10/01/21 14:11	1
Magnesium	87000		1000	200	ug/L		09/30/21 14:00	10/01/21 14:11	1
Potassium	10000		1000	220	ug/L		09/30/21 14:00	10/01/21 14:11	1
Sodium	5900000		10000	3300	ug/L		09/30/21 14:00	10/04/21 18:48	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	290		5.0	2.6	mg/L			10/08/21 01:14	1
Bicarbonate Alkalinity as CaCO3	290		5.0	2.6	mg/L			10/08/21 01:14	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/08/21 01:14	1
Chloride	9700		50	14	mg/L			10/12/21 08:37	50
Fluoride	2.5	U	2.5	1.2	mg/L			10/12/21 08:37	50
Sulfate	34	J	50	17	mg/L			10/12/21 08:37	50
Total Dissolved Solids	2900		1000	780	mg/L			10/01/21 11:25	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Client Sample ID: 2018-01

Lab Sample ID: 240-157000-14

Date Collected: 09/27/21 13:22

Matrix: Water

Date Received: 09/29/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	450		100	57	ug/L		09/30/21 14:00	10/01/21 20:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	37000		1000	580	ug/L		09/30/21 14:00	10/01/21 14:19	1
Magnesium	470	J	1000	200	ug/L		09/30/21 14:00	10/01/21 14:19	1
Potassium	3500		1000	220	ug/L		09/30/21 14:00	10/01/21 14:19	1
Sodium	1900000		10000	3300	ug/L		09/30/21 14:00	10/04/21 18:51	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	290		5.0	2.6	mg/L			10/08/21 01:20	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/08/21 01:20	1
Carbonate Alkalinity as CaCO3	290		5.0	2.6	mg/L			10/08/21 01:20	1
Chloride	3100		25	7.1	mg/L			10/12/21 09:38	25
Fluoride	2.8		0.25	0.12	mg/L			10/12/21 09:17	5
Sulfate	36		5.0	1.7	mg/L			10/12/21 09:17	5
Total Dissolved Solids	4400		50	39	mg/L			10/01/21 11:25	1

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-506121/1-A
Matrix: Water
Analysis Batch: 506311

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 506121

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100	57	ug/L		09/30/21 14:00	10/01/21 19:13	1

Lab Sample ID: LCS 240-506121/2-A
Matrix: Water
Analysis Batch: 506311

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 506121

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1000	989		ug/L		99	80 - 120

Lab Sample ID: 240-157000-6 MS
Matrix: Water
Analysis Batch: 506311

Client Sample ID: 2019-02
Prep Type: Total Recoverable
Prep Batch: 506121

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	100	U	1000	1080		ug/L		108	75 - 125

Lab Sample ID: 240-157000-6 MSD
Matrix: Water
Analysis Batch: 506311

Client Sample ID: 2019-02
Prep Type: Total Recoverable
Prep Batch: 506121

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Boron	100	U	1000	1050		ug/L		105	75 - 125	2	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-506121/1-A
Matrix: Water
Analysis Batch: 506505

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 506121

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000	580	ug/L		09/30/21 14:00	10/01/21 13:19	1
Magnesium	1000	U	1000	200	ug/L		09/30/21 14:00	10/01/21 13:19	1
Potassium	1000	U	1000	220	ug/L		09/30/21 14:00	10/01/21 13:19	1
Sodium	1000	U	1000	330	ug/L		09/30/21 14:00	10/01/21 13:19	1

Lab Sample ID: LCS 240-506121/3-A
Matrix: Water
Analysis Batch: 506505

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 506121

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	25000	26100		ug/L		105	80 - 120
Magnesium	25000	25600		ug/L		102	80 - 120
Potassium	25000	25300		ug/L		101	80 - 120
Sodium	25000	25700		ug/L		103	80 - 120

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

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

Lab Sample ID: 240-157000-6 MS
Matrix: Water
Analysis Batch: 506505

Client Sample ID: 2019-02
Prep Type: Total Recoverable
Prep Batch: 506121

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Calcium	230000		25000	251000	4	ug/L		78	75 - 125
Magnesium	1000	U	25000	24600		ug/L		99	75 - 125
Potassium	16000		25000	39900		ug/L		97	75 - 125
Sodium	550000		25000	573000	4	ug/L		78	75 - 125

Lab Sample ID: 240-157000-6 MSD
Matrix: Water
Analysis Batch: 506505

Client Sample ID: 2019-02
Prep Type: Total Recoverable
Prep Batch: 506121

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Calcium	230000		25000	257000	4	ug/L		104	75 - 125	2	20
Magnesium	1000	U	25000	25500		ug/L		102	75 - 125	3	20
Potassium	16000		25000	41400		ug/L		103	75 - 125	4	20
Sodium	550000		25000	583000	4	ug/L		120	75 - 125	2	20

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-507198/30
Matrix: Water
Analysis Batch: 507198

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	3.61	J	5.0	2.6	mg/L			10/07/21 03:56	1
Bicarbonate Alkalinity as CaCO3	3.61	J	5.0	2.6	mg/L			10/07/21 03:56	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/07/21 03:56	1

Lab Sample ID: MB 240-507198/4
Matrix: Water
Analysis Batch: 507198

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	2.73	J	5.0	2.6	mg/L			10/07/21 02:11	1
Bicarbonate Alkalinity as CaCO3	2.73	J	5.0	2.6	mg/L			10/07/21 02:11	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/07/21 02:11	1

Lab Sample ID: LCS 240-507198/29
Matrix: Water
Analysis Batch: 507198

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Alkalinity	66.8	71.1		mg/L		106	86 - 123

Lab Sample ID: LCS 240-507198/3
Matrix: Water
Analysis Batch: 507198

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Alkalinity	66.8	68.4		mg/L		102	86 - 123

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Method: 2320B-1997 - Alkalinity, Total (Continued)

Lab Sample ID: 240-157000-6 DU
Matrix: Water
Analysis Batch: 507198

Client Sample ID: 2019-02
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Alkalinity	1600	B	1580		mg/L		0.1	20
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	U	mg/L		NC	20
Carbonate Alkalinity as CaCO3	54		51.8		mg/L		4	20

Lab Sample ID: MB 240-507471/4
Matrix: Water
Analysis Batch: 507471

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Alkalinity	5.0	U	5.0	2.6	mg/L			10/08/21 00:47	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/08/21 00:47	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/08/21 00:47	1

Lab Sample ID: LCS 240-507471/3
Matrix: Water
Analysis Batch: 507471

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: 240-157000-10 DU
Matrix: Water
Analysis Batch: 507471

Client Sample ID: 9801
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Alkalinity	150		154		mg/L		0.2	20
Bicarbonate Alkalinity as CaCO3	150		154		mg/L		0.2	20
Carbonate Alkalinity as CaCO3	5.0	U	5.0	U	mg/L		NC	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-507723/3
Matrix: Water
Analysis Batch: 507723

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	1.0	U	1.0	0.28	mg/L			10/11/21 20:32	1
Fluoride	0.050	U	0.050	0.024	mg/L			10/11/21 20:32	1
Sulfate	1.0	U	1.0	0.35	mg/L			10/11/21 20:32	1

Lab Sample ID: LCS 240-507723/4
Matrix: Water
Analysis Batch: 507723

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	2.50	2.53		mg/L		101	90 - 110
Sulfate	50.0	50.8		mg/L		102	90 - 110

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 240-157000-6 MS
Matrix: Water
Analysis Batch: 507723

Client Sample ID: 2019-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	180		250	431		mg/L		100	80 - 120
Fluoride	0.71		12.5	13.4		mg/L		102	80 - 120
Sulfate	2.7	J	250	261		mg/L		103	80 - 120

Lab Sample ID: 240-157000-6 MSD
Matrix: Water
Analysis Batch: 507723

Client Sample ID: 2019-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	180		250	429		mg/L		99	80 - 120	0	15
Fluoride	0.71		12.5	13.5		mg/L		102	80 - 120	0	15
Sulfate	2.7	J	250	258		mg/L		102	80 - 120	1	15

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

Lab Sample ID: MB 240-506330/1
Matrix: Water
Analysis Batch: 506330

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	10	U	10	7.8	mg/L			10/01/21 11:25	1

Lab Sample ID: LCS 240-506330/2
Matrix: Water
Analysis Batch: 506330

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	422	401		mg/L		95	80 - 120

Lab Sample ID: 240-157000-6 DU
Matrix: Water
Analysis Batch: 506330

Client Sample ID: 2019-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1800		1650		mg/L		9	20

Lab Sample ID: MB 240-506393/1
Matrix: Water
Analysis Batch: 506393

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	10	U	10	7.8	mg/L			10/01/21 15:43	1

Lab Sample ID: LCS 240-506393/2
Matrix: Water
Analysis Batch: 506393

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	422	401		mg/L		95	80 - 120

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QC Association Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Metals

Prep Batch: 506121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-157000-1	2016-03	Total Recoverable	Water	3005A	
240-157000-2	2016-06	Total Recoverable	Water	3005A	
240-157000-3	2016-07	Total Recoverable	Water	3005A	
240-157000-4	2016-08	Total Recoverable	Water	3005A	
240-157000-5	9910	Total Recoverable	Water	3005A	
240-157000-6	2019-02	Total Recoverable	Water	3005A	
240-157000-7	2019-06	Total Recoverable	Water	3005A	
240-157000-8	2019-07	Total Recoverable	Water	3005A	
240-157000-9	2019-09	Total Recoverable	Water	3005A	
240-157000-10	9801	Total Recoverable	Water	3005A	
240-157000-11	DUPLICATE # 3 (9801)	Total Recoverable	Water	3005A	
240-157000-12	9806	Total Recoverable	Water	3005A	
240-157000-13	9631	Total Recoverable	Water	3005A	
240-157000-14	2018-01	Total Recoverable	Water	3005A	
MB 240-506121/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-506121/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-506121/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-157000-6 MS	2019-02	Total Recoverable	Water	3005A	
240-157000-6 MS	2019-02	Total Recoverable	Water	3005A	
240-157000-6 MSD	2019-02	Total Recoverable	Water	3005A	
240-157000-6 MSD	2019-02	Total Recoverable	Water	3005A	

Analysis Batch: 506311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-157000-1	2016-03	Total Recoverable	Water	6010B	506121
240-157000-2	2016-06	Total Recoverable	Water	6010B	506121
240-157000-3	2016-07	Total Recoverable	Water	6010B	506121
240-157000-4	2016-08	Total Recoverable	Water	6010B	506121
240-157000-5	9910	Total Recoverable	Water	6010B	506121
240-157000-6	2019-02	Total Recoverable	Water	6010B	506121
240-157000-7	2019-06	Total Recoverable	Water	6010B	506121
240-157000-8	2019-07	Total Recoverable	Water	6010B	506121
240-157000-9	2019-09	Total Recoverable	Water	6010B	506121
240-157000-10	9801	Total Recoverable	Water	6010B	506121
240-157000-11	DUPLICATE # 3 (9801)	Total Recoverable	Water	6010B	506121
240-157000-12	9806	Total Recoverable	Water	6010B	506121
240-157000-13	9631	Total Recoverable	Water	6010B	506121
240-157000-14	2018-01	Total Recoverable	Water	6010B	506121
MB 240-506121/1-A	Method Blank	Total Recoverable	Water	6010B	506121
LCS 240-506121/2-A	Lab Control Sample	Total Recoverable	Water	6010B	506121
240-157000-6 MS	2019-02	Total Recoverable	Water	6010B	506121
240-157000-6 MSD	2019-02	Total Recoverable	Water	6010B	506121

Analysis Batch: 506505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-157000-1	2016-03	Total Recoverable	Water	6020	506121
240-157000-2	2016-06	Total Recoverable	Water	6020	506121
240-157000-3	2016-07	Total Recoverable	Water	6020	506121
240-157000-4	2016-08	Total Recoverable	Water	6020	506121
240-157000-5	9910	Total Recoverable	Water	6020	506121
240-157000-6	2019-02	Total Recoverable	Water	6020	506121

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QC Association Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-157000-1

Metals (Continued)

Analysis Batch: 506505 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-157000-7	2019-06	Total Recoverable	Water	6020	506121
240-157000-8	2019-07	Total Recoverable	Water	6020	506121
240-157000-9	2019-09	Total Recoverable	Water	6020	506121
240-157000-10	9801	Total Recoverable	Water	6020	506121
240-157000-11	DUPLICATE # 3 (9801)	Total Recoverable	Water	6020	506121
240-157000-12	9806	Total Recoverable	Water	6020	506121
240-157000-13	9631	Total Recoverable	Water	6020	506121
240-157000-14	2018-01	Total Recoverable	Water	6020	506121
MB 240-506121/1-A	Method Blank	Total Recoverable	Water	6020	506121
LCS 240-506121/3-A	Lab Control Sample	Total Recoverable	Water	6020	506121
240-157000-6 MS	2019-02	Total Recoverable	Water	6020	506121
240-157000-6 MSD	2019-02	Total Recoverable	Water	6020	506121

Analysis Batch: 506709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-157000-4	2016-08	Total Recoverable	Water	6020	506121
240-157000-5	9910	Total Recoverable	Water	6020	506121
240-157000-7	2019-06	Total Recoverable	Water	6020	506121
240-157000-8	2019-07	Total Recoverable	Water	6020	506121
240-157000-9	2019-09	Total Recoverable	Water	6020	506121
240-157000-10	9801	Total Recoverable	Water	6020	506121
240-157000-11	DUPLICATE # 3 (9801)	Total Recoverable	Water	6020	506121
240-157000-12	9806	Total Recoverable	Water	6020	506121
240-157000-13	9631	Total Recoverable	Water	6020	506121
240-157000-14	2018-01	Total Recoverable	Water	6020	506121

General Chemistry

Analysis Batch: 506330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-157000-1	2016-03	Total/NA	Water	SM 2540C	
240-157000-2	2016-06	Total/NA	Water	SM 2540C	
240-157000-3	2016-07	Total/NA	Water	SM 2540C	
240-157000-4	2016-08	Total/NA	Water	SM 2540C	
240-157000-5	9910	Total/NA	Water	SM 2540C	
240-157000-6	2019-02	Total/NA	Water	SM 2540C	
240-157000-7	2019-06	Total/NA	Water	SM 2540C	
240-157000-8	2019-07	Total/NA	Water	SM 2540C	
240-157000-9	2019-09	Total/NA	Water	SM 2540C	
240-157000-10	9801	Total/NA	Water	SM 2540C	
240-157000-11	DUPLICATE # 3 (9801)	Total/NA	Water	SM 2540C	
240-157000-13	9631	Total/NA	Water	SM 2540C	
240-157000-14	2018-01	Total/NA	Water	SM 2540C	
MB 240-506330/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-506330/2	Lab Control Sample	Total/NA	Water	SM 2540C	
240-157000-6 DU	2019-02	Total/NA	Water	SM 2540C	

Analysis Batch: 506393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-157000-12	9806	Total/NA	Water	SM 2540C	
MB 240-506393/1	Method Blank	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

General Chemistry (Continued)

Analysis Batch: 506393 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-506393/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 507198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-157000-1	2016-03	Total/NA	Water	2320B-1997	
240-157000-2	2016-06	Total/NA	Water	2320B-1997	
240-157000-3	2016-07	Total/NA	Water	2320B-1997	
240-157000-4	2016-08	Total/NA	Water	2320B-1997	
240-157000-5	9910	Total/NA	Water	2320B-1997	
240-157000-6	2019-02	Total/NA	Water	2320B-1997	
240-157000-7	2019-06	Total/NA	Water	2320B-1997	
240-157000-8	2019-07	Total/NA	Water	2320B-1997	
240-157000-9	2019-09	Total/NA	Water	2320B-1997	
MB 240-507198/30	Method Blank	Total/NA	Water	2320B-1997	
MB 240-507198/4	Method Blank	Total/NA	Water	2320B-1997	
LCS 240-507198/29	Lab Control Sample	Total/NA	Water	2320B-1997	
LCS 240-507198/3	Lab Control Sample	Total/NA	Water	2320B-1997	
240-157000-6 DU	2019-02	Total/NA	Water	2320B-1997	

Analysis Batch: 507471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-157000-10	9801	Total/NA	Water	2320B-1997	
240-157000-11	DUPLICATE # 3 (9801)	Total/NA	Water	2320B-1997	
240-157000-12	9806	Total/NA	Water	2320B-1997	
240-157000-13	9631	Total/NA	Water	2320B-1997	
240-157000-14	2018-01	Total/NA	Water	2320B-1997	
MB 240-507471/4	Method Blank	Total/NA	Water	2320B-1997	
LCS 240-507471/3	Lab Control Sample	Total/NA	Water	2320B-1997	
240-157000-10 DU	9801	Total/NA	Water	2320B-1997	

Analysis Batch: 507723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-157000-1	2016-03	Total/NA	Water	300.0	
240-157000-1	2016-03	Total/NA	Water	300.0	
240-157000-2	2016-06	Total/NA	Water	300.0	
240-157000-2	2016-06	Total/NA	Water	300.0	
240-157000-3	2016-07	Total/NA	Water	300.0	
240-157000-3	2016-07	Total/NA	Water	300.0	
240-157000-4	2016-08	Total/NA	Water	300.0	
240-157000-5	9910	Total/NA	Water	300.0	
240-157000-6	2019-02	Total/NA	Water	300.0	
240-157000-7	2019-06	Total/NA	Water	300.0	
240-157000-7	2019-06	Total/NA	Water	300.0	
240-157000-8	2019-07	Total/NA	Water	300.0	
240-157000-8	2019-07	Total/NA	Water	300.0	
240-157000-9	2019-09	Total/NA	Water	300.0	
240-157000-9	2019-09	Total/NA	Water	300.0	
240-157000-10	9801	Total/NA	Water	300.0	
240-157000-10	9801	Total/NA	Water	300.0	
240-157000-11	DUPLICATE # 3 (9801)	Total/NA	Water	300.0	
240-157000-11	DUPLICATE # 3 (9801)	Total/NA	Water	300.0	

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QC Association Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-157000-1

General Chemistry (Continued)

Analysis Batch: 507723 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-157000-12	9806	Total/NA	Water	300.0	
240-157000-12	9806	Total/NA	Water	300.0	
240-157000-13	9631	Total/NA	Water	300.0	
240-157000-14	2018-01	Total/NA	Water	300.0	
240-157000-14	2018-01	Total/NA	Water	300.0	
MB 240-507723/3	Method Blank	Total/NA	Water	300.0	
LCS 240-507723/4	Lab Control Sample	Total/NA	Water	300.0	
240-157000-6 MS	2019-02	Total/NA	Water	300.0	
240-157000-6 MSD	2019-02	Total/NA	Water	300.0	



Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-157000-1

Client Sample ID: 2016-03

Lab Sample ID: 240-157000-1

Date Collected: 09/24/21 10:02

Matrix: Water

Date Received: 09/29/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506311	10/01/21 19:51	KLC	TAL CAN
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	506505	10/01/21 13:36	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	507198	10/07/21 03:49	JWW	TAL CAN
Total/NA	Analysis	300.0		1	507723	10/11/21 21:13	JWW	TAL CAN
Total/NA	Analysis	300.0		10	507723	10/11/21 21:33	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	506330	10/01/21 11:25	JMR	TAL CAN

Client Sample ID: 2016-06

Lab Sample ID: 240-157000-2

Date Collected: 09/24/21 10:56

Matrix: Water

Date Received: 09/29/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506311	10/01/21 19:56	KLC	TAL CAN
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	506505	10/01/21 13:38	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	507198	10/07/21 04:20	JWW	TAL CAN
Total/NA	Analysis	300.0		1	507723	10/11/21 21:53	JWW	TAL CAN
Total/NA	Analysis	300.0		10	507723	10/11/21 22:13	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	506330	10/01/21 11:25	JMR	TAL CAN

Client Sample ID: 2016-07

Lab Sample ID: 240-157000-3

Date Collected: 09/24/21 13:08

Matrix: Water

Date Received: 09/29/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506311	10/01/21 20:00	KLC	TAL CAN
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	506505	10/01/21 13:41	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	507198	10/07/21 04:24	JWW	TAL CAN
Total/NA	Analysis	300.0		5	507723	10/11/21 22:33	JWW	TAL CAN
Total/NA	Analysis	300.0		20	507723	10/11/21 22:53	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	506330	10/01/21 11:25	JMR	TAL CAN

Client Sample ID: 2016-08

Lab Sample ID: 240-157000-4

Date Collected: 09/24/21 13:36

Matrix: Water

Date Received: 09/29/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506311	10/01/21 20:04	KLC	TAL CAN

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Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Client Sample ID: 2016-08

Lab Sample ID: 240-157000-4

Date Collected: 09/24/21 13:36

Matrix: Water

Date Received: 09/29/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	506505	10/01/21 13:51	AJC	TAL CAN
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	506709	10/04/21 18:23	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	507198	10/07/21 04:34	JWW	TAL CAN
Total/NA	Analysis	300.0		5	507723	10/11/21 23:13	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	506330	10/01/21 11:25	JMR	TAL CAN

Client Sample ID: 9910

Lab Sample ID: 240-157000-5

Date Collected: 09/24/21 14:14

Matrix: Water

Date Received: 09/29/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506311	10/01/21 20:09	KLC	TAL CAN
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	506505	10/01/21 13:53	AJC	TAL CAN
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	506709	10/04/21 18:26	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	507198	10/07/21 04:40	JWW	TAL CAN
Total/NA	Analysis	300.0		5	507723	10/12/21 00:34	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	506330	10/01/21 11:25	JMR	TAL CAN

Client Sample ID: 2019-02

Lab Sample ID: 240-157000-6

Date Collected: 09/25/21 09:42

Matrix: Water

Date Received: 09/29/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506311	10/01/21 19:29	KLC	TAL CAN
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	506505	10/01/21 13:24	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	507198	10/07/21 04:14	JWW	TAL CAN
Total/NA	Analysis	300.0		5	507723	10/12/21 01:14	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	506330	10/01/21 11:25	JMR	TAL CAN

Client Sample ID: 2019-06

Lab Sample ID: 240-157000-7

Date Collected: 09/25/21 10:34

Matrix: Water

Date Received: 09/29/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506311	10/01/21 20:22	KLC	TAL CAN

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Client Sample ID: 2019-06
Date Collected: 09/25/21 10:34
Date Received: 09/29/21 08:00

Lab Sample ID: 240-157000-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	506505	10/01/21 13:56	AJC	TAL CAN
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		10	506709	10/04/21 18:28	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	507198	10/07/21 04:45	JWW	TAL CAN
Total/NA	Analysis	300.0		10	507723	10/12/21 03:15	JWW	TAL CAN
Total/NA	Analysis	300.0		50	507723	10/12/21 03:35	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	506330	10/01/21 11:25	JMR	TAL CAN

Client Sample ID: 2019-07
Date Collected: 09/25/21 11:09
Date Received: 09/29/21 08:00

Lab Sample ID: 240-157000-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506311	10/01/21 20:26	KLC	TAL CAN
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	506505	10/01/21 13:58	AJC	TAL CAN
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		100	506709	10/04/21 18:31	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	507198	10/07/21 04:48	JWW	TAL CAN
Total/NA	Analysis	300.0		50	507723	10/12/21 04:36	JWW	TAL CAN
Total/NA	Analysis	300.0		1000	507723	10/12/21 04:56	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	506330	10/01/21 11:25	JMR	TAL CAN

Client Sample ID: 2019-09
Date Collected: 09/25/21 13:15
Date Received: 09/29/21 08:00

Lab Sample ID: 240-157000-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506311	10/01/21 20:31	KLC	TAL CAN
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	506505	10/01/21 14:01	AJC	TAL CAN
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		100	506709	10/04/21 18:33	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	507198	10/07/21 04:53	JWW	TAL CAN
Total/NA	Analysis	300.0		50	507723	10/12/21 05:16	JWW	TAL CAN
Total/NA	Analysis	300.0		1000	507723	10/12/21 05:36	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	506330	10/01/21 11:25	JMR	TAL CAN

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Client Sample ID: 9801

Lab Sample ID: 240-157000-10

Date Collected: 09/27/21 10:13

Matrix: Water

Date Received: 09/29/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506311	10/01/21 20:35	KLC	TAL CAN
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	506505	10/01/21 14:04	AJC	TAL CAN
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		10	506709	10/04/21 18:36	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	507471	10/08/21 00:54	JMB	TAL CAN
Total/NA	Analysis	300.0		10	507723	10/12/21 05:56	JWW	TAL CAN
Total/NA	Analysis	300.0		50	507723	10/12/21 06:16	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	506330	10/01/21 11:25	JMR	TAL CAN

Client Sample ID: DUPLICATE # 3 (9801)

Lab Sample ID: 240-157000-11

Date Collected: 09/27/21 10:13

Matrix: Water

Date Received: 09/29/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506311	10/01/21 20:40	KLC	TAL CAN
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	506505	10/01/21 14:06	AJC	TAL CAN
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		10	506709	10/04/21 18:38	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	507471	10/08/21 01:06	JMB	TAL CAN
Total/NA	Analysis	300.0		10	507723	10/12/21 06:36	JWW	TAL CAN
Total/NA	Analysis	300.0		50	507723	10/12/21 06:57	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	506330	10/01/21 11:25	JMR	TAL CAN

Client Sample ID: 9806

Lab Sample ID: 240-157000-12

Date Collected: 09/27/21 10:52

Matrix: Water

Date Received: 09/29/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506311	10/01/21 20:44	KLC	TAL CAN
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	506505	10/01/21 14:09	AJC	TAL CAN
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	506709	10/04/21 18:41	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	507471	10/08/21 01:10	JMB	TAL CAN
Total/NA	Analysis	300.0		1	507723	10/12/21 07:17	JWW	TAL CAN
Total/NA	Analysis	300.0		5	507723	10/12/21 07:37	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	506393	10/01/21 15:43	JMR	TAL CAN

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157000-1

Client Sample ID: 9631

Lab Sample ID: 240-157000-13

Date Collected: 09/27/21 12:46

Matrix: Water

Date Received: 09/29/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506311	10/01/21 20:48	KLC	TAL CAN
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	506505	10/01/21 14:11	AJC	TAL CAN
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		10	506709	10/04/21 18:48	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	507471	10/08/21 01:14	JMB	TAL CAN
Total/NA	Analysis	300.0		50	507723	10/12/21 08:37	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	506330	10/01/21 11:25	JMR	TAL CAN

Client Sample ID: 2018-01

Lab Sample ID: 240-157000-14

Date Collected: 09/27/21 13:22

Matrix: Water

Date Received: 09/29/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	506311	10/01/21 20:53	KLC	TAL CAN
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	506505	10/01/21 14:19	AJC	TAL CAN
Total Recoverable	Prep	3005A			506121	09/30/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		10	506709	10/04/21 18:51	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	507471	10/08/21 01:20	JMB	TAL CAN
Total/NA	Analysis	300.0		5	507723	10/12/21 09:17	JWW	TAL CAN
Total/NA	Analysis	300.0		25	507723	10/12/21 09:38	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	506330	10/01/21 11:25	JMR	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-157000-1

Laboratory: Eurofins TestAmerica, Canton

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-22
Georgia	State	4062	02-23-22
Illinois	NELAP	200004	07-31-22
Iowa	State	421	06-01-23
Kansas	NELAP	E-10336	04-30-22
Kentucky (UST)	State	112225	02-23-22
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-22
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-18-10	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

2.2/2.3

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

ColumbusTestAmerica
209

Chain of Custody Record

Sampler: Shain Lab PM: McFadden, John Carrier Tracking No(s): 231 COC No: _____

Client Contact: Taylor Huffman E-Mail: john.mcfadden@testamericainc.com Page: _____ Page of _____

Company: Lightsstone Generation Gavin Power LLC Job #: _____

Address: 7397 OH-7

City: Cheshire

State: OH Zip: 45620

Phone: 740-925-3171 (Tel)

Email: Taylor.Huffman@lightsstone.com

Project Name: CCR WELLS

Project #: 24019633

SSOW#: _____

Sample Date	Sample Time	Sample Type (C-comp, G-grab)	Matrix (W=water, S=solid, O=waste/oli, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perfm MS/MSD (Yes or No)	6010B,6020(Calcium, Magnesium, Sodium, Potassium)	2540C_Calcd, 300.0_28D(Chloride, Fluoride, Sulfate)	2320B(Carbonate Alkalinity/Bi-Carbonate Alkalinity)	Analysis Requested	Preservation Codes:
2016-03	9:24:21	G	W	X	X	1	1	1		A - HCL M - Hexane N - None B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - other
2016-06	9:24:21	G	W	X	X	1	1	1		
2016-07	9:24:21	G	W	X	X	1	1	1		
2016-08	9:24:21	G	W	X	X	1	1	1		
9910	9:24:21	G	W	X	X	1	1	1		
2019-02	9:25:21	G	W	X	X	1	1	1		
MS/MSD (2019-02)	9:25:21	G	W	X	X	3	3	3		
2019-06	9:25:21	G	W	X	X	1	1	1		
2019-07	9:25:21	G	W	X	X	1	1	1		
2019-09	9:25:21	G	W	X	X	1	1	1		



Sample Identification

Sample Date: _____ Sample Time: _____ Sample Type: _____ Matrix: _____

Field Filtered Sample (Yes or No): _____ Perfm MS/MSD (Yes or No): _____

6010B,6020(Calcium, Magnesium, Sodium, Potassium): _____

2540C_Calcd, 300.0_28D(Chloride, Fluoride, Sulfate): _____

2320B(Carbonate Alkalinity/Bi-Carbonate Alkalinity): _____

Analysis Requested: _____

Preservation Codes: _____

Due Date Requested: _____

TAT Requested (days): _____

PO #: _____

WO #: _____

Project #: _____

SSOW#: _____

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

Return To Client By Lab Archival Month:

Special Instructions/QC Requirements: _____

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: Shawn Date/Time: 9/28/21 0830 Company: Summa

Relinquished by: John Wells Date/Time: 9-28-21 1700 Company: ETA

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Custody Seal No.: _____

Cooler Temperature(s) °C and Other Remarks: _____



2.2/2.3

Chain of Custody Record

Client Information Client Contact: <u>Shawn</u> Phone: 740-925-3171 E-Mail: john.mcfadden@testamericainc.com		Lab PM: <u>McFadden, John</u> E-Mail: john.mcfadden@testamericainc.com		Carrier Tracking No(s): <u>231</u>		COC No: Page: Page of Job #:	
Company: <u>Lightstone Generation Gavin Power LLC</u> Address: <u>7397 OH-7</u> City: <u>Cheshire</u> State, Zip: <u>OH, 45620</u> Phone: <u>740-925-3171(Tel)</u> Email: <u>Taylor.Huffman@lightstones.com</u> Project Name: <u>CCR WELLS</u> SOW#:		Due Date Requested: TAT Requested (days): PO #: <u>2911431</u> WO #: Project #: <u>24019633</u> SOW#:		Analysis Requested 2540C_Calcd, 300.0_28D(Chloride, Fluoride, Sulfate) 2320B(Carbonate Alkalinity/Bi-Carbonate Alkalinity) 6010B_6020(Calcium, Magnesium, Sodium, Potassium)		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP I - Ice J - DI Water U - Acetone K - EDTA V - MCAA W - pH 4-5 L - EDTA Z - other	
Sample Identification 9801 Duplicate # 3 (9801) 9806 9031 2018-01		Sample Date 9-27-21 1013 9-27-21 1013 9-27-21 1052 9-27-21 1246 9-27-21 1322		Sample Time 6 6 6 6 6		Matrix (Wetwater, Solid, Onwaste/oi, BTATissue, A=Air) W W W W W	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Irritant Deliverable Requested: I, II, III, IV, Other (specify)		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> 2540C_Calcd, 300.0_28D(Chloride, Fluoride, Sulfate) <input checked="" type="checkbox"/> 2320B(Carbonate Alkalinity/Bi-Carbonate Alkalinity) <input checked="" type="checkbox"/> 6010B_6020(Calcium, Magnesium, Sodium, Potassium) <input checked="" type="checkbox"/>		Total Number of Containers 3 3 3 3 3		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> By Lab <input type="checkbox"/> Archi <input type="checkbox"/> or <input type="checkbox"/> Month:	
Empty Kit Relinquished by: Relinquished by: <u>Shawn Huffman</u> Date/Time: <u>9-28-21 1830</u> Relinquished by: <u>Shawn Huffman</u> Date/Time: <u>9-28-21 1800</u> Relinquished by:		Date: Date/Time: <u>9-28-21 1830</u> Date/Time: <u>9-28-21 1800</u>		Method of Shipment: Date/Time: <u>9-28-21 1105</u> Date/Time: <u>9/29/21 800</u> Date/Time:		Company: <u>ETA</u> Company: <u>ETA</u> Company:	
Custody Seals Intact: <input checked="" type="checkbox"/> Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Special Instructions/QC Requirements:		10/13/2021	

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Eurofins TestAmerica Canton Sample Receipt Form/Narrative Login # : 157000
Canton Facility

Client Lightstone Gavin Site Name _____ Cooler unpacked by: Trent
Cooler Received on 9/29/21 Opened on 9/29/21
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____


Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # TA Foam Box Client Cooler Box Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None _____

1. Cooler temperature upon receipt See Multiple Cooler Form
IR GUN# IR-14 (CF +0.1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
IR GUN #IR-15 (CF +0.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
-Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC157842
14. Were VOAs on the COC? Yes No NA
15. Were air bubbles >6 mm in any VOA vials? Yes No NA  ← Larger than this.
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No NA
17. Was a LL Hg or Me Hg trip blank present? Yes No NA

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
Concerning _____

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) All Nitrics for sample 2019-02 ns/msd were further preserved in the laboratory.
Time preserved: 935 Preservative(s) added/Lot number(s): 0000275002

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>		<u>Preservative</u>	
			<u>pH</u>	<u>Temp</u>	<u>Added (mls)</u>	<u>Lot #</u>
2016-03	240-157000-C-1	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2016-06	240-157000-C-2	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2016-07	240-157000-C-3	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2016-08	240-157000-C-4	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
9910	240-157000-C-5	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2019-02	240-157000-I-6	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2019-02	240-157000-J-6	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2019-02	240-157000-K-6	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2019-02	240-157000-L-6	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2019-06	240-157000-C-7	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2019-07	240-157000-C-8	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2019-09	240-157000-C-9	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
9801	240-157000-C-10	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
DUPLICATE # 3 (9801)	240-157000-C-11	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
9806	240-157000-C-12	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
9631	240-157000-C-13	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2018-01	240-157000-C-14	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____

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ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-157288-1
Client Project/Site: Gavin CCR

For:

Lightstone Generation Gavin Power LLC
7397 OH-7
Cheshire, Ohio 45620

Attn: Taylor Huffman

Roxanne Cisneros

*Authorized for release by:
10/18/2021 4:07:14 PM*

Roxanne Cisneros, Senior Project Manager
(615)301-5761
roxanne.cisneros@Eurofinset.com

LINKS

Review your project
results through
Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-157288-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Case Narrative

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-157288-1

Job ID: 240-157288-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

**Job Narrative
240-157288-1**

Comments

No additional comments.

Receipt

The samples were received on 10/2/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.9° C and 2.0° C.

Metals

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

General Chemistry

Method 300.0: The following samples were diluted due to the nature of the sample matrix: 93100 (240-157288-4) and 96152 (240-157288-7). Elevated reporting limits (RLs) are provided.

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

Method Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-157288-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL CAN
6020	Metals (ICP/MS)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-157288-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-157288-1	96157	Water	09/28/21 09:50	10/02/21 08:00
240-157288-2	96158	Water	09/28/21 10:21	10/02/21 08:00
240-157288-3	9802	Water	09/28/21 13:07	10/02/21 08:00
240-157288-4	93100	Water	09/28/21 13:56	10/02/21 08:00
240-157288-5	94139	Water	09/28/21 14:22	10/02/21 08:00
240-157288-6	2003	Water	09/29/21 09:56	10/02/21 08:00
240-157288-7	96152	Water	09/29/21 13:42	10/02/21 08:00

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Detection Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-157288-1

Client Sample ID: 96157

Lab Sample ID: 240-157288-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	150		100	57	ug/L	1		6010B	Total Recoverable
Calcium	55000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	12000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	1600		1000	220	ug/L	1		6020	Total Recoverable
Sodium	220000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	440		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	440		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	240		5.0	1.4	mg/L	5		300.0	Total/NA
Fluoride	0.93		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	4.3		1.0	0.35	mg/L	1		300.0	Total/NA
Total Dissolved Solids	740		10	7.8	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 96158

Lab Sample ID: 240-157288-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	400		100	57	ug/L	1		6010B	Total Recoverable
Calcium	64000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	13000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	3300		1000	220	ug/L	1		6020	Total Recoverable
Sodium	700000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	330		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	330		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	1100		10	2.8	mg/L	10		300.0	Total/NA
Fluoride	1.3		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	20		1.0	0.35	mg/L	1		300.0	Total/NA
Total Dissolved Solids	2000		40	31	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 9802

Lab Sample ID: 240-157288-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	200		100	57	ug/L	1		6010B	Total Recoverable
Calcium	28000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	7800		1000	200	ug/L	1		6020	Total Recoverable
Potassium	1500		1000	220	ug/L	1		6020	Total Recoverable
Sodium	280000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	590		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	590		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	42		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	1.1		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	71		1.0	0.35	mg/L	1		300.0	Total/NA
Total Dissolved Solids	780		10	7.8	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157288-1

Client Sample ID: 93100

Lab Sample ID: 240-157288-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	460		100	57	ug/L	1		6010B	Total Recoverable
Calcium	17000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	5300		1000	200	ug/L	1		6020	Total Recoverable
Potassium	2500		1000	220	ug/L	1		6020	Total Recoverable
Sodium	1400000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	330		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	330		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	2200		20	5.7	mg/L	20		300.0	Total/NA
Fluoride	2.7		0.25	0.12	mg/L	5		300.0	Total/NA
Sulfate	16		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	3300		50	39	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 94139

Lab Sample ID: 240-157288-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	530		100	57	ug/L	1		6010B	Total Recoverable
Calcium	6600		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	1900		1000	200	ug/L	1		6020	Total Recoverable
Potassium	1400		1000	220	ug/L	1		6020	Total Recoverable
Sodium	570000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	500		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	480		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	22		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	520		10	2.8	mg/L	10		300.0	Total/NA
Fluoride	4.8		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	61		1.0	0.35	mg/L	1		300.0	Total/NA
Total Dissolved Solids	1500		20	16	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 2003

Lab Sample ID: 240-157288-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	440		100	57	ug/L	1		6010B	Total Recoverable
Calcium	5800		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	1600		1000	200	ug/L	1		6020	Total Recoverable
Potassium	1800		1000	220	ug/L	1		6020	Total Recoverable
Sodium	640000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	770		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	750		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Carbonate Alkalinity as CaCO3	23		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	480		10	2.8	mg/L	10		300.0	Total/NA
Fluoride	3.5		0.050	0.024	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157288-1

Client Sample ID: 2003 (Continued)

Lab Sample ID: 240-157288-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	70		1.0	0.35	mg/L	1		300.0	Total/NA
Total Dissolved Solids	1700		20	16	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 96152

Lab Sample ID: 240-157288-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	480		100	57	ug/L	1		6010B	Total Recoverable
Calcium	41000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	14000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	8400		1000	220	ug/L	1		6020	Total Recoverable
Sodium	2000000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	590		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	590		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	3100		25	7.1	mg/L	25		300.0	Total/NA
Fluoride	1.0		0.25	0.12	mg/L	5		300.0	Total/NA
Sulfate	66		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	5000		50	39	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157288-1

Client Sample ID: 96157
 Date Collected: 09/28/21 09:50
 Date Received: 10/02/21 08:00

Lab Sample ID: 240-157288-1
 Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	150		100	57	ug/L		10/05/21 14:00	10/06/21 15:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	55000		1000	580	ug/L		10/05/21 14:00	10/06/21 21:13	1
Magnesium	12000		1000	200	ug/L		10/05/21 14:00	10/06/21 21:13	1
Potassium	1600		1000	220	ug/L		10/05/21 14:00	10/06/21 21:13	1
Sodium	220000		1000	330	ug/L		10/05/21 14:00	10/06/21 21:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	440		5.0	2.6	mg/L			10/08/21 20:44	1
Bicarbonate Alkalinity as CaCO3	440		5.0	2.6	mg/L			10/08/21 20:44	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/08/21 20:44	1
Chloride	240		5.0	1.4	mg/L			10/15/21 22:01	5
Fluoride	0.93		0.050	0.024	mg/L			10/15/21 21:39	1
Sulfate	4.3		1.0	0.35	mg/L			10/15/21 21:39	1
Total Dissolved Solids	740		10	7.8	mg/L			10/05/21 09:00	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157288-1

Client Sample ID: 96158

Lab Sample ID: 240-157288-2

Date Collected: 09/28/21 10:21

Matrix: Water

Date Received: 10/02/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	400		100	57	ug/L		10/05/21 14:00	10/06/21 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	64000		1000	580	ug/L		10/05/21 14:00	10/06/21 21:15	1
Magnesium	13000		1000	200	ug/L		10/05/21 14:00	10/06/21 21:15	1
Potassium	3300		1000	220	ug/L		10/05/21 14:00	10/06/21 21:15	1
Sodium	700000		1000	330	ug/L		10/05/21 14:00	10/06/21 21:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	330		5.0	2.6	mg/L			10/08/21 20:49	1
Bicarbonate Alkalinity as CaCO3	330		5.0	2.6	mg/L			10/08/21 20:49	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/08/21 20:49	1
Chloride	1100		10	2.8	mg/L			10/15/21 23:27	10
Fluoride	1.3		0.050	0.024	mg/L			10/15/21 23:06	1
Sulfate	20		1.0	0.35	mg/L			10/15/21 23:06	1
Total Dissolved Solids	2000		40	31	mg/L			10/05/21 09:36	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157288-1

Client Sample ID: 9802

Lab Sample ID: 240-157288-3

Date Collected: 09/28/21 13:07

Matrix: Water

Date Received: 10/02/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	200		100	57	ug/L		10/05/21 14:00	10/06/21 15:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	28000		1000	580	ug/L		10/05/21 14:00	10/06/21 21:28	1
Magnesium	7800		1000	200	ug/L		10/05/21 14:00	10/06/21 21:28	1
Potassium	1500		1000	220	ug/L		10/05/21 14:00	10/06/21 21:28	1
Sodium	280000		1000	330	ug/L		10/05/21 14:00	10/06/21 21:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	590		5.0	2.6	mg/L			10/08/21 20:54	1
Bicarbonate Alkalinity as CaCO3	590		5.0	2.6	mg/L			10/08/21 20:54	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/08/21 20:54	1
Chloride	42		1.0	0.28	mg/L			10/15/21 23:49	1
Fluoride	1.1		0.050	0.024	mg/L			10/15/21 23:49	1
Sulfate	71		1.0	0.35	mg/L			10/15/21 23:49	1
Total Dissolved Solids	780		10	7.8	mg/L			10/05/21 09:36	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157288-1

Client Sample ID: 93100

Lab Sample ID: 240-157288-4

Date Collected: 09/28/21 13:56

Matrix: Water

Date Received: 10/02/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	460		100	57	ug/L		10/05/21 14:00	10/06/21 15:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	17000		1000	580	ug/L		10/05/21 14:00	10/06/21 21:35	1
Magnesium	5300		1000	200	ug/L		10/05/21 14:00	10/06/21 21:35	1
Potassium	2500		1000	220	ug/L		10/05/21 14:00	10/06/21 21:35	1
Sodium	1400000		1000	330	ug/L		10/05/21 14:00	10/06/21 21:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	330		5.0	2.6	mg/L			10/08/21 20:59	1
Bicarbonate Alkalinity as CaCO3	330		5.0	2.6	mg/L			10/08/21 20:59	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/08/21 20:59	1
Chloride	2200		20	5.7	mg/L			10/16/21 00:54	20
Fluoride	2.7		0.25	0.12	mg/L			10/16/21 00:33	5
Sulfate	16		5.0	1.7	mg/L			10/16/21 00:33	5
Total Dissolved Solids	3300		50	39	mg/L			10/05/21 09:36	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157288-1

Client Sample ID: 94139

Lab Sample ID: 240-157288-5

Date Collected: 09/28/21 14:22

Matrix: Water

Date Received: 10/02/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	530		100	57	ug/L		10/05/21 14:00	10/06/21 16:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	6600		1000	580	ug/L		10/05/21 14:00	10/06/21 21:38	1
Magnesium	1900		1000	200	ug/L		10/05/21 14:00	10/06/21 21:38	1
Potassium	1400		1000	220	ug/L		10/05/21 14:00	10/06/21 21:38	1
Sodium	570000		1000	330	ug/L		10/05/21 14:00	10/06/21 21:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	500		5.0	2.6	mg/L			10/08/21 21:04	1
Bicarbonate Alkalinity as CaCO3	480		5.0	2.6	mg/L			10/08/21 21:04	1
Carbonate Alkalinity as CaCO3	22		5.0	2.6	mg/L			10/08/21 21:04	1
Chloride	520		10	2.8	mg/L			10/16/21 01:38	10
Fluoride	4.8		0.050	0.024	mg/L			10/16/21 01:16	1
Sulfate	61		1.0	0.35	mg/L			10/16/21 01:16	1
Total Dissolved Solids	1500		20	16	mg/L			10/05/21 09:36	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157288-1

Client Sample ID: 2003

Lab Sample ID: 240-157288-6

Date Collected: 09/29/21 09:56

Matrix: Water

Date Received: 10/02/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	440		100	57	ug/L		10/05/21 14:00	10/06/21 16:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	5800		1000	580	ug/L		10/05/21 14:00	10/06/21 21:40	1
Magnesium	1600		1000	200	ug/L		10/05/21 14:00	10/06/21 21:40	1
Potassium	1800		1000	220	ug/L		10/05/21 14:00	10/06/21 21:40	1
Sodium	640000		1000	330	ug/L		10/05/21 14:00	10/06/21 21:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	770		5.0	2.6	mg/L			10/08/21 21:12	1
Bicarbonate Alkalinity as CaCO3	750		5.0	2.6	mg/L			10/08/21 21:12	1
Carbonate Alkalinity as CaCO3	23		5.0	2.6	mg/L			10/08/21 21:12	1
Chloride	480		10	2.8	mg/L			10/16/21 02:21	10
Fluoride	3.5		0.050	0.024	mg/L			10/16/21 02:00	1
Sulfate	70		1.0	0.35	mg/L			10/16/21 02:00	1
Total Dissolved Solids	1700		20	16	mg/L			10/06/21 07:28	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157288-1

Client Sample ID: 96152

Lab Sample ID: 240-157288-7

Date Collected: 09/29/21 13:42

Matrix: Water

Date Received: 10/02/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	480		100	57	ug/L		10/05/21 14:00	10/06/21 16:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	41000		1000	580	ug/L		10/05/21 14:00	10/06/21 21:43	1
Magnesium	14000		1000	200	ug/L		10/05/21 14:00	10/06/21 21:43	1
Potassium	8400		1000	220	ug/L		10/05/21 14:00	10/06/21 21:43	1
Sodium	2000000		1000	330	ug/L		10/05/21 14:00	10/06/21 21:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	590		5.0	2.6	mg/L			10/08/21 21:17	1
Bicarbonate Alkalinity as CaCO3	590		5.0	2.6	mg/L			10/08/21 21:17	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/08/21 21:17	1
Chloride	3100		25	7.1	mg/L			10/16/21 03:48	25
Fluoride	1.0		0.25	0.12	mg/L			10/16/21 03:27	5
Sulfate	66		5.0	1.7	mg/L			10/16/21 03:27	5
Total Dissolved Solids	5000		50	39	mg/L			10/06/21 07:28	1

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157288-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-506763/1-A
Matrix: Water
Analysis Batch: 507115

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 506763

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100	57	ug/L		10/05/21 14:00	10/06/21 15:10	1

Lab Sample ID: LCS 240-506763/2-A
Matrix: Water
Analysis Batch: 507115

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 506763

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1000	1010		ug/L		101	80 - 120

Lab Sample ID: 240-157288-1 MS
Matrix: Water
Analysis Batch: 507115

Client Sample ID: 96157
Prep Type: Total Recoverable
Prep Batch: 506763

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	150		1000	1170		ug/L		102	75 - 125

Lab Sample ID: 240-157288-1 MSD
Matrix: Water
Analysis Batch: 507115

Client Sample ID: 96157
Prep Type: Total Recoverable
Prep Batch: 506763

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Boron	150		1000	1200		ug/L		104	75 - 125	2	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-506763/1-A
Matrix: Water
Analysis Batch: 507138

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 506763

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000	580	ug/L		10/05/21 14:00	10/06/21 21:08	1
Magnesium	1000	U	1000	200	ug/L		10/05/21 14:00	10/06/21 21:08	1
Potassium	1000	U	1000	220	ug/L		10/05/21 14:00	10/06/21 21:08	1
Sodium	1000	U	1000	330	ug/L		10/05/21 14:00	10/06/21 21:08	1

Lab Sample ID: LCS 240-506763/3-A
Matrix: Water
Analysis Batch: 507138

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 506763

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	25000	23800		ug/L		95	80 - 120
Magnesium	25000	24000		ug/L		96	80 - 120
Potassium	25000	24200		ug/L		97	80 - 120
Sodium	25000	24700		ug/L		99	80 - 120

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157288-1

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

Lab Sample ID: 240-157288-2 MS
 Matrix: Water
 Analysis Batch: 507138

Client Sample ID: 96158
 Prep Type: Total Recoverable
 Prep Batch: 506763

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Calcium	64000		25000	87500		ug/L		95	75 - 125	
Magnesium	13000		25000	37100		ug/L		96	75 - 125	
Potassium	3300		25000	27500		ug/L		97	75 - 125	
Sodium	700000		25000	732000	4	ug/L		134	75 - 125	

Lab Sample ID: 240-157288-2 MSD
 Matrix: Water
 Analysis Batch: 507138

Client Sample ID: 96158
 Prep Type: Total Recoverable
 Prep Batch: 506763

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Calcium	64000		25000	83600		ug/L		79	75 - 125	5	20
Magnesium	13000		25000	35100		ug/L		88	75 - 125	5	20
Potassium	3300		25000	26100		ug/L		91	75 - 125	5	20
Sodium	700000		25000	682000	4	ug/L		-66	75 - 125	7	20

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-507558/3
 Matrix: Water
 Analysis Batch: 507558

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Alkalinity	5.0	U	5.0	2.6	mg/L			10/08/21 20:25	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/08/21 20:25	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			10/08/21 20:25	1

Lab Sample ID: LCS 240-507558/2
 Matrix: Water
 Analysis Batch: 507558

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	
	Added	Result	Qualifier				Limits	
Total Alkalinity	66.8	66.4		mg/L		99	86 - 123	

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-508345/3
 Matrix: Water
 Analysis Batch: 508345

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	1.0	U	1.0	0.28	mg/L			10/15/21 10:03	1
Fluoride	0.050	U	0.050	0.024	mg/L			10/15/21 10:03	1
Sulfate	1.0	U	1.0	0.35	mg/L			10/15/21 10:03	1

Lab Sample ID: LCS 240-508345/4
 Matrix: Water
 Analysis Batch: 508345

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	
	Added	Result	Qualifier				Limits	
Chloride	50.0	52.3		mg/L		105	90 - 110	

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QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157288-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 240-508345/4
 Matrix: Water
 Analysis Batch: 508345

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	2.50	2.75		mg/L		110	90 - 110
Sulfate	50.0	53.6		mg/L		107	90 - 110

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

Lab Sample ID: MB 240-506724/1
 Matrix: Water
 Analysis Batch: 506724

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	10	U	10	7.8	mg/L			10/05/21 09:00	1

Lab Sample ID: LCS 240-506724/2
 Matrix: Water
 Analysis Batch: 506724

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	422	431		mg/L		102	80 - 120

Lab Sample ID: MB 240-506733/1
 Matrix: Water
 Analysis Batch: 506733

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	10	U	10	7.8	mg/L			10/05/21 09:36	1

Lab Sample ID: LCS 240-506733/2
 Matrix: Water
 Analysis Batch: 506733

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	422	415		mg/L		98	80 - 120

Lab Sample ID: MB 240-506929/1
 Matrix: Water
 Analysis Batch: 506929

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	10	U	10	7.8	mg/L			10/06/21 07:28	1

Lab Sample ID: LCS 240-506929/2
 Matrix: Water
 Analysis Batch: 506929

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	422	406		mg/L		96	80 - 120

QC Association Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-157288-1

Metals

Prep Batch: 506763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-157288-1	96157	Total Recoverable	Water	3005A	
240-157288-2	96158	Total Recoverable	Water	3005A	
240-157288-3	9802	Total Recoverable	Water	3005A	
240-157288-4	93100	Total Recoverable	Water	3005A	
240-157288-5	94139	Total Recoverable	Water	3005A	
240-157288-6	2003	Total Recoverable	Water	3005A	
240-157288-7	96152	Total Recoverable	Water	3005A	
MB 240-506763/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-506763/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-506763/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-157288-1 MS	96157	Total Recoverable	Water	3005A	
240-157288-1 MSD	96157	Total Recoverable	Water	3005A	
240-157288-2 MS	96158	Total Recoverable	Water	3005A	
240-157288-2 MSD	96158	Total Recoverable	Water	3005A	

Analysis Batch: 507115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-157288-1	96157	Total Recoverable	Water	6010B	506763
240-157288-2	96158	Total Recoverable	Water	6010B	506763
240-157288-3	9802	Total Recoverable	Water	6010B	506763
240-157288-4	93100	Total Recoverable	Water	6010B	506763
240-157288-5	94139	Total Recoverable	Water	6010B	506763
240-157288-6	2003	Total Recoverable	Water	6010B	506763
240-157288-7	96152	Total Recoverable	Water	6010B	506763
MB 240-506763/1-A	Method Blank	Total Recoverable	Water	6010B	506763
LCS 240-506763/2-A	Lab Control Sample	Total Recoverable	Water	6010B	506763
240-157288-1 MS	96157	Total Recoverable	Water	6010B	506763
240-157288-1 MSD	96157	Total Recoverable	Water	6010B	506763

Analysis Batch: 507138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-157288-1	96157	Total Recoverable	Water	6020	506763
240-157288-2	96158	Total Recoverable	Water	6020	506763
240-157288-3	9802	Total Recoverable	Water	6020	506763
240-157288-4	93100	Total Recoverable	Water	6020	506763
240-157288-5	94139	Total Recoverable	Water	6020	506763
240-157288-6	2003	Total Recoverable	Water	6020	506763
240-157288-7	96152	Total Recoverable	Water	6020	506763
MB 240-506763/1-A	Method Blank	Total Recoverable	Water	6020	506763
LCS 240-506763/3-A	Lab Control Sample	Total Recoverable	Water	6020	506763
240-157288-2 MS	96158	Total Recoverable	Water	6020	506763
240-157288-2 MSD	96158	Total Recoverable	Water	6020	506763

General Chemistry

Analysis Batch: 506724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-157288-1	96157	Total/NA	Water	SM 2540C	
MB 240-506724/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-506724/2	Lab Control Sample	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-157288-1

General Chemistry

Analysis Batch: 506733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-157288-2	96158	Total/NA	Water	SM 2540C	
240-157288-3	9802	Total/NA	Water	SM 2540C	
240-157288-4	93100	Total/NA	Water	SM 2540C	
240-157288-5	94139	Total/NA	Water	SM 2540C	
MB 240-506733/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-506733/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 506929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-157288-6	2003	Total/NA	Water	SM 2540C	
240-157288-7	96152	Total/NA	Water	SM 2540C	
MB 240-506929/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-506929/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 507558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-157288-1	96157	Total/NA	Water	2320B-1997	
240-157288-2	96158	Total/NA	Water	2320B-1997	
240-157288-3	9802	Total/NA	Water	2320B-1997	
240-157288-4	93100	Total/NA	Water	2320B-1997	
240-157288-5	94139	Total/NA	Water	2320B-1997	
240-157288-6	2003	Total/NA	Water	2320B-1997	
240-157288-7	96152	Total/NA	Water	2320B-1997	
MB 240-507558/3	Method Blank	Total/NA	Water	2320B-1997	
LCS 240-507558/2	Lab Control Sample	Total/NA	Water	2320B-1997	

Analysis Batch: 508345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-157288-1	96157	Total/NA	Water	300.0	
240-157288-1	96157	Total/NA	Water	300.0	
240-157288-2	96158	Total/NA	Water	300.0	
240-157288-2	96158	Total/NA	Water	300.0	
240-157288-3	9802	Total/NA	Water	300.0	
240-157288-4	93100	Total/NA	Water	300.0	
240-157288-4	93100	Total/NA	Water	300.0	
240-157288-5	94139	Total/NA	Water	300.0	
240-157288-5	94139	Total/NA	Water	300.0	
240-157288-6	2003	Total/NA	Water	300.0	
240-157288-6	2003	Total/NA	Water	300.0	
240-157288-7	96152	Total/NA	Water	300.0	
240-157288-7	96152	Total/NA	Water	300.0	
MB 240-508345/3	Method Blank	Total/NA	Water	300.0	
LCS 240-508345/4	Lab Control Sample	Total/NA	Water	300.0	

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-157288-1

Client Sample ID: 96157

Lab Sample ID: 240-157288-1

Date Collected: 09/28/21 09:50

Matrix: Water

Date Received: 10/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			506763	10/05/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	507115	10/06/21 15:18	DSH	TAL CAN
Total Recoverable	Prep	3005A			506763	10/05/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	507138	10/06/21 21:13	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	507558	10/08/21 20:44	JWW	TAL CAN
Total/NA	Analysis	300.0		1	508345	10/15/21 21:39	JMB	TAL CAN
Total/NA	Analysis	300.0		5	508345	10/15/21 22:01	JMB	TAL CAN
Total/NA	Analysis	SM 2540C		1	506724	10/05/21 09:00	AJ	TAL CAN

Client Sample ID: 96158

Lab Sample ID: 240-157288-2

Date Collected: 09/28/21 10:21

Matrix: Water

Date Received: 10/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			506763	10/05/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	507115	10/06/21 15:39	DSH	TAL CAN
Total Recoverable	Prep	3005A			506763	10/05/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	507138	10/06/21 21:15	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	507558	10/08/21 20:49	JWW	TAL CAN
Total/NA	Analysis	300.0		1	508345	10/15/21 23:06	JMB	TAL CAN
Total/NA	Analysis	300.0		10	508345	10/15/21 23:27	JMB	TAL CAN
Total/NA	Analysis	SM 2540C		1	506733	10/05/21 09:36	AJ	TAL CAN

Client Sample ID: 9802

Lab Sample ID: 240-157288-3

Date Collected: 09/28/21 13:07

Matrix: Water

Date Received: 10/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			506763	10/05/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	507115	10/06/21 15:52	DSH	TAL CAN
Total Recoverable	Prep	3005A			506763	10/05/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	507138	10/06/21 21:28	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	507558	10/08/21 20:54	JWW	TAL CAN
Total/NA	Analysis	300.0		1	508345	10/15/21 23:49	JMB	TAL CAN
Total/NA	Analysis	SM 2540C		1	506733	10/05/21 09:36	AJ	TAL CAN

Client Sample ID: 93100

Lab Sample ID: 240-157288-4

Date Collected: 09/28/21 13:56

Matrix: Water

Date Received: 10/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			506763	10/05/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	507115	10/06/21 15:57	DSH	TAL CAN

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-157288-1

Client Sample ID: 93100

Lab Sample ID: 240-157288-4

Date Collected: 09/28/21 13:56

Matrix: Water

Date Received: 10/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			506763	10/05/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	507138	10/06/21 21:35	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	507558	10/08/21 20:59	JWW	TAL CAN
Total/NA	Analysis	300.0		5	508345	10/16/21 00:33	JMB	TAL CAN
Total/NA	Analysis	300.0		20	508345	10/16/21 00:54	JMB	TAL CAN
Total/NA	Analysis	SM 2540C		1	506733	10/05/21 09:36	AJ	TAL CAN

Client Sample ID: 94139

Lab Sample ID: 240-157288-5

Date Collected: 09/28/21 14:22

Matrix: Water

Date Received: 10/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			506763	10/05/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	507115	10/06/21 16:01	DSH	TAL CAN
Total Recoverable	Prep	3005A			506763	10/05/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	507138	10/06/21 21:38	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	507558	10/08/21 21:04	JWW	TAL CAN
Total/NA	Analysis	300.0		1	508345	10/16/21 01:16	JMB	TAL CAN
Total/NA	Analysis	300.0		10	508345	10/16/21 01:38	JMB	TAL CAN
Total/NA	Analysis	SM 2540C		1	506733	10/05/21 09:36	AJ	TAL CAN

Client Sample ID: 2003

Lab Sample ID: 240-157288-6

Date Collected: 09/29/21 09:56

Matrix: Water

Date Received: 10/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			506763	10/05/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	507115	10/06/21 16:05	DSH	TAL CAN
Total Recoverable	Prep	3005A			506763	10/05/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	507138	10/06/21 21:40	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	507558	10/08/21 21:12	JWW	TAL CAN
Total/NA	Analysis	300.0		1	508345	10/16/21 02:00	JMB	TAL CAN
Total/NA	Analysis	300.0		10	508345	10/16/21 02:21	JMB	TAL CAN
Total/NA	Analysis	SM 2540C		1	506929	10/06/21 07:28	AJ	TAL CAN

Client Sample ID: 96152

Lab Sample ID: 240-157288-7

Date Collected: 09/29/21 13:42

Matrix: Water

Date Received: 10/02/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			506763	10/05/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	507115	10/06/21 16:10	DSH	TAL CAN
Total Recoverable	Prep	3005A			506763	10/05/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	507138	10/06/21 21:43	AJC	TAL CAN

Eurofins TestAmerica, Canton

Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-157288-1

Client Sample ID: 96152

Lab Sample ID: 240-157288-7

Date Collected: 09/29/21 13:42

Matrix: Water

Date Received: 10/02/21 08:00

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Analysis	2320B-1997		1	507558	10/08/21 21:17	JWW	TAL CAN
Total/NA	Analysis	300.0		5	508345	10/16/21 03:27	JMB	TAL CAN
Total/NA	Analysis	300.0		25	508345	10/16/21 03:48	JMB	TAL CAN
Total/NA	Analysis	SM 2540C		1	506929	10/06/21 07:28	AJ	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396



Accreditation/Certification Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-157288-1

Laboratory: Eurofins TestAmerica, Canton

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-22
Georgia	State	4062	02-23-22
Illinois	NELAP	200004	07-31-22
Iowa	State	421	06-01-23
Kansas	NELAP	E-10336	04-30-22
Kentucky (UST)	State	112225	02-23-22
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-22
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-18-10	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

19/20

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Chain of Custody Record
209

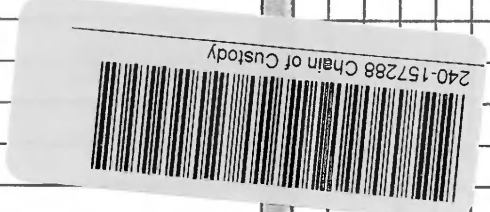
Columbus TestAmerica

Carrier Tracking No(s):

Lab PM: *Shari* McFadden, John
 E-Mail: john.mcfadden@testamericainc.com
 Phone: 740-925-3171
 Job #: 235

Client Information
 Client Contact: Taylor Huffman
 Company: Lightstone Generation Gavin Power LLC
 Address: 7397 OH-7
 City: Cheshire
 State: OH, Zip: 45620
 Phone: 740-925-3171 (Tel)
 Email: Taylor.Huffman@lightstonegen.com
 Project #: 24019633
 SSO#:
 Due Date Requested:
 TAT Requested (days):
 PO #: 2911431
 WO #:
 Matrix (W=water, S=solid, O=wastefl, BT=tissue, A=air)

Sample ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B, 6020 (Calcium, Magnesium, Sodium, Potassium)	2540C_Calcd, 300.0_28D (Chloride, Fluoride, Sulfate)	2320B (Carbonate Alkalinity/Bi-Carbonate Alkalinity)	Analysis Requested	Total Number of Containers
910157	9/28/21	0950	G	W	X	X	1	1	1		1
910158	9/28/21	1021	G	W	X	X	1	1	1		1
9802	9/28/21	1307	G	W	X	X	1	1	1		1
93100	9/28/21	1356	G	W	X	X	1	1	1		1
94139	9/28/21	1422	G	W	X	X	1	1	1		1
2003	9/28/21	0956	G	W	X	X	1	1	1		1
94152	9/28/21	1342	G	W	X	X	1	1	1		1



Possible Hazard Identification
 Inorganic-Hazard Flammable Irritant
 Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposed By Lab Archival Months:

Special Instructions/QC Requirements:

Empty Kit Relinquished by: *Shari* Date: 10/18/2021
 Relinquished by: *Shari* Date: 10/1/21 0900
 Relinquished by: *Shari* Date: 10/1/21 1700

Received by: *Shari* Date: 10-1-21
 Received by: *Shari* Date: 10/2/21
 Received by: *Shari* Date: 10/2/21

Company: *ETA*
 Company: *ETA*
 Company: *ETA*

Cooler Temperature(s) °C and Other Remarks:
 Custody Seals Intact: Custody Seal No.:
 Page 26 of 29

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Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility


Login # : 157233

Client Lightstone Gen Gavin Site Name _____
Cooler Received on 10/2/21 Opened on 10/2/21
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Cooler unpacked by:
Trent

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # 715 Foam Box Client Cooler Box _____ Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None _____ Other _____
COOLANT: Wet Ice Blue Ice _____ Dry Ice _____ Water _____ None _____

1. Cooler temperature upon receipt See Multiple Cooler Form
IR GUN# IR-14 (CF +0.1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
IR GUN #IR-15 (CF +0.2°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
-Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No No
7. Did all bottles arrive in good condition (Unbroken)? Yes No No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
10. Were correct bottle(s) used for the test(s) indicated? Yes No No
11. Sufficient quantity received to perform indicated analyses? Yes No No
12. Are these work share samples and all listed on the COC? Yes No
If yes, Questions 13-17 have been checked at the originating laboratory.
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC157842
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials?  ← Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
17. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page

Samples processed by: _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

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Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>		<u>Preservative</u>	
			<u>pH</u>	<u>Temp</u>	<u>Added (mls)</u>	<u>Lot #</u>
96157	240-157288-C-1	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
96158	240-157288-C-2	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
9802	240-157288-C-3	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
93100	240-157288-C-4	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
94139	240-157288-C-5	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2003	240-157288-C-6	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
96152	240-157288-C-7	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-159475-1
Client Project/Site: Gavin CCR

For:

Lightstone Generation Gavin Power LLC
7397 OH-7
Cheshire, Ohio 45620

Attn: Taylor Huffman

Roxanne Cisneros

*Authorized for release by:
11/26/2021 8:30:46 AM*

Roxanne Cisneros, Senior Project Manager
(615)301-5761
roxanne.cisneros@Eurofinset.com

LINKS

Review your project
results through
Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-159475-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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

Case Narrative

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-159475-1

Job ID: 240-159475-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative
240-159475-1

Comments

No additional comments.

Receipt

The samples were received on 11/6/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0° C.

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.

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Method Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-159475-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL CAN
6020	Metals (ICP/MS)	SW846	TAL CAN
2320B-1997	Alkalinity, Total	SM	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-159475-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-159475-1	2018-02	Water	11/03/21 09:00	11/06/21 08:00
240-159475-2	2018-03	Water	11/03/21 09:20	11/06/21 08:00
240-159475-3	2016-04	Water	11/03/21 12:52	11/06/21 08:00

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Detection Summary

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-159475-1

Client Sample ID: 2018-02

Lab Sample ID: 240-159475-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	370		100	57	ug/L	1		6010B	Total Recoverable
Calcium	56000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	18000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	5200		1000	220	ug/L	1		6020	Total Recoverable
Sodium	2300000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	250		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	250		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	4500		50	14	mg/L	50		300.0	Total/NA
Fluoride	1.5		0.25	0.12	mg/L	5		300.0	Total/NA
Sulfate	61		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	6400		100	78	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 2018-03

Lab Sample ID: 240-159475-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	380		100	57	ug/L	1		6010B	Total Recoverable
Calcium	140000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	30000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	5300		1000	220	ug/L	1		6020	Total Recoverable
Sodium	1200000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	530		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	530		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	1800		20	5.7	mg/L	20		300.0	Total/NA
Fluoride	1.0		0.25	0.12	mg/L	5		300.0	Total/NA
Sulfate	470		5.0	1.7	mg/L	5		300.0	Total/NA
Total Dissolved Solids	3600		50	39	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 2016-04

Lab Sample ID: 240-159475-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	3300		100	57	ug/L	1		6010B	Total Recoverable
Calcium	540000		1000	580	ug/L	1		6020	Total Recoverable
Magnesium	100000		1000	200	ug/L	1		6020	Total Recoverable
Potassium	8200		1000	220	ug/L	1		6020	Total Recoverable
Sodium	77000		1000	330	ug/L	1		6020	Total Recoverable
Total Alkalinity	280		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Bicarbonate Alkalinity as CaCO3	280		5.0	2.6	mg/L	1		2320B-1997	Total/NA
Chloride	29		1.0	0.28	mg/L	1		300.0	Total/NA
Fluoride	0.15		0.050	0.024	mg/L	1		300.0	Total/NA
Sulfate	1800		10	3.5	mg/L	10		300.0	Total/NA
Total Dissolved Solids	2700		20	16	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-159475-1

Client Sample ID: 2018-02
Date Collected: 11/03/21 09:00
Date Received: 11/06/21 08:00

Lab Sample ID: 240-159475-1
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	370		100	57	ug/L		11/09/21 14:00	11/12/21 12:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	56000		1000	580	ug/L		11/09/21 14:00	11/10/21 23:24	1
Magnesium	18000		1000	200	ug/L		11/09/21 14:00	11/10/21 23:24	1
Potassium	5200		1000	220	ug/L		11/09/21 14:00	11/10/21 23:24	1
Sodium	2300000		1000	330	ug/L		11/09/21 14:00	11/10/21 23:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	250		5.0	2.6	mg/L			11/13/21 08:20	1
Bicarbonate Alkalinity as CaCO3	250		5.0	2.6	mg/L			11/13/21 08:20	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			11/13/21 08:20	1
Chloride	4500		50	14	mg/L			11/23/21 01:40	50
Fluoride	1.5		0.25	0.12	mg/L			11/23/21 01:18	5
Sulfate	61		5.0	1.7	mg/L			11/23/21 01:18	5
Total Dissolved Solids	6400		100	78	mg/L			11/10/21 07:48	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-159475-1

Client Sample ID: 2018-03
 Date Collected: 11/03/21 09:20
 Date Received: 11/06/21 08:00

Lab Sample ID: 240-159475-2
 Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	380		100	57	ug/L		11/09/21 14:00	11/12/21 12:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	140000		1000	580	ug/L		11/09/21 14:00	11/10/21 23:27	1
Magnesium	30000		1000	200	ug/L		11/09/21 14:00	11/10/21 23:27	1
Potassium	5300		1000	220	ug/L		11/09/21 14:00	11/10/21 23:27	1
Sodium	1200000		1000	330	ug/L		11/09/21 14:00	11/10/21 23:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	530		5.0	2.6	mg/L			11/13/21 08:25	1
Bicarbonate Alkalinity as CaCO3	530		5.0	2.6	mg/L			11/13/21 08:25	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			11/13/21 08:25	1
Chloride	1800		20	5.7	mg/L			11/23/21 03:06	20
Fluoride	1.0		0.25	0.12	mg/L			11/23/21 02:45	5
Sulfate	470		5.0	1.7	mg/L			11/23/21 02:45	5
Total Dissolved Solids	3600		50	39	mg/L			11/10/21 07:48	1

Client Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-159475-1

Client Sample ID: 2016-04

Lab Sample ID: 240-159475-3

Date Collected: 11/03/21 12:52

Matrix: Water

Date Received: 11/06/21 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3300		100	57	ug/L		11/09/21 14:00	11/12/21 12:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	540000		1000	580	ug/L		11/09/21 14:00	11/10/21 23:29	1
Magnesium	100000		1000	200	ug/L		11/09/21 14:00	11/10/21 23:29	1
Potassium	8200		1000	220	ug/L		11/09/21 14:00	11/10/21 23:29	1
Sodium	77000		1000	330	ug/L		11/09/21 14:00	11/10/21 23:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	280		5.0	2.6	mg/L			11/13/21 08:30	1
Bicarbonate Alkalinity as CaCO3	280		5.0	2.6	mg/L			11/13/21 08:30	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			11/13/21 08:30	1
Chloride	29		1.0	0.28	mg/L			11/23/21 03:28	1
Fluoride	0.15		0.050	0.024	mg/L			11/23/21 03:28	1
Sulfate	1800		10	3.5	mg/L			11/23/21 03:50	10
Total Dissolved Solids	2700		20	16	mg/L			11/10/21 07:48	1

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-159475-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-512112/1-A
Matrix: Water
Analysis Batch: 512735

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 512112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100	57	ug/L		11/09/21 14:00	11/12/21 12:30	1

Lab Sample ID: LCS 240-512112/2-A
Matrix: Water
Analysis Batch: 512735

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 512112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1000	1070		ug/L		107	80 - 120

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-512112/1-A
Matrix: Water
Analysis Batch: 512444

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 512112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000	580	ug/L		11/09/21 14:00	11/10/21 22:50	1
Magnesium	1000	U	1000	200	ug/L		11/09/21 14:00	11/10/21 22:50	1
Potassium	1000	U	1000	220	ug/L		11/09/21 14:00	11/10/21 22:50	1
Sodium	1000	U	1000	330	ug/L		11/09/21 14:00	11/10/21 22:50	1

Lab Sample ID: LCS 240-512112/3-A
Matrix: Water
Analysis Batch: 512444

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 512112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	25000	25300		ug/L		101	80 - 120
Magnesium	25000	24500		ug/L		98	80 - 120
Potassium	25000	25200		ug/L		101	80 - 120
Sodium	25000	24500		ug/L		98	80 - 120

Method: 2320B-1997 - Alkalinity, Total

Lab Sample ID: MB 240-512992/109
Matrix: Water
Analysis Batch: 512992

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	5.0	U	5.0	2.6	mg/L			11/13/21 06:32	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			11/13/21 06:32	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			11/13/21 06:32	1

Lab Sample ID: MB 240-512992/133
Matrix: Water
Analysis Batch: 512992

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	5.0	U	5.0	2.6	mg/L			11/13/21 08:13	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			11/13/21 08:13	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			11/13/21 08:13	1

Eurofins TestAmerica, Canton

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-159475-1

Method: 2320B-1997 - Alkalinity, Total (Continued)

Lab Sample ID: MB 240-512992/83
 Matrix: Water
 Analysis Batch: 512992

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	5.0	U	5.0	2.6	mg/L			11/13/21 04:44	1
Bicarbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			11/13/21 04:44	1
Carbonate Alkalinity as CaCO3	5.0	U	5.0	2.6	mg/L			11/13/21 04:44	1

Lab Sample ID: LCS 240-512992/108
 Matrix: Water
 Analysis Batch: 512992

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity	66.8	65.3		mg/L		98	86 - 123

Lab Sample ID: LCS 240-512992/132
 Matrix: Water
 Analysis Batch: 512992

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity	66.8	66.2		mg/L		99	86 - 123

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-514202/3
 Matrix: Water
 Analysis Batch: 514202

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	0.28	mg/L			11/22/21 15:53	1
Fluoride	0.050	U	0.050	0.024	mg/L			11/22/21 15:53	1
Sulfate	1.0	U	1.0	0.35	mg/L			11/22/21 15:53	1

Lab Sample ID: LCS 240-514202/4
 Matrix: Water
 Analysis Batch: 514202

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	52.2		mg/L		104	90 - 110
Fluoride	2.50	2.66		mg/L		106	90 - 110
Sulfate	50.0	53.4		mg/L		107	90 - 110

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

Lab Sample ID: MB 240-512239/1
 Matrix: Water
 Analysis Batch: 512239

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	10	U	10	7.8	mg/L			11/10/21 07:48	1

QC Sample Results

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-159475-1

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

Lab Sample ID: LCS 240-512239/2
Matrix: Water
Analysis Batch: 512239

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	500	507		mg/L		101	80 - 120

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QC Association Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-159475-1

Metals

Prep Batch: 512112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-159475-1	2018-02	Total Recoverable	Water	3005A	
240-159475-2	2018-03	Total Recoverable	Water	3005A	
240-159475-3	2016-04	Total Recoverable	Water	3005A	
MB 240-512112/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-512112/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-512112/3-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 512444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-159475-1	2018-02	Total Recoverable	Water	6020	512112
240-159475-2	2018-03	Total Recoverable	Water	6020	512112
240-159475-3	2016-04	Total Recoverable	Water	6020	512112
MB 240-512112/1-A	Method Blank	Total Recoverable	Water	6020	512112
LCS 240-512112/3-A	Lab Control Sample	Total Recoverable	Water	6020	512112

Analysis Batch: 512735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-159475-1	2018-02	Total Recoverable	Water	6010B	512112
240-159475-2	2018-03	Total Recoverable	Water	6010B	512112
240-159475-3	2016-04	Total Recoverable	Water	6010B	512112
MB 240-512112/1-A	Method Blank	Total Recoverable	Water	6010B	512112
LCS 240-512112/2-A	Lab Control Sample	Total Recoverable	Water	6010B	512112

General Chemistry

Analysis Batch: 512239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-159475-1	2018-02	Total/NA	Water	SM 2540C	
240-159475-2	2018-03	Total/NA	Water	SM 2540C	
240-159475-3	2016-04	Total/NA	Water	SM 2540C	
MB 240-512239/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-512239/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 512992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-159475-1	2018-02	Total/NA	Water	2320B-1997	
240-159475-2	2018-03	Total/NA	Water	2320B-1997	
240-159475-3	2016-04	Total/NA	Water	2320B-1997	
MB 240-512992/109	Method Blank	Total/NA	Water	2320B-1997	
MB 240-512992/133	Method Blank	Total/NA	Water	2320B-1997	
MB 240-512992/83	Method Blank	Total/NA	Water	2320B-1997	
LCS 240-512992/108	Lab Control Sample	Total/NA	Water	2320B-1997	
LCS 240-512992/132	Lab Control Sample	Total/NA	Water	2320B-1997	

Analysis Batch: 514202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-159475-1	2018-02	Total/NA	Water	300.0	
240-159475-1	2018-02	Total/NA	Water	300.0	
240-159475-2	2018-03	Total/NA	Water	300.0	
240-159475-2	2018-03	Total/NA	Water	300.0	
240-159475-3	2016-04	Total/NA	Water	300.0	

Eurofins TestAmerica, Canton

QC Association Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-159475-1

General Chemistry (Continued)

Analysis Batch: 514202 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-159475-3	2016-04	Total/NA	Water	300.0	
MB 240-514202/3	Method Blank	Total/NA	Water	300.0	
LCS 240-514202/4	Lab Control Sample	Total/NA	Water	300.0	

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Lab Chronicle

Client: Lightstone Generation Gavin Power LLC
 Project/Site: Gavin CCR

Job ID: 240-159475-1

Client Sample ID: 2018-02

Lab Sample ID: 240-159475-1

Date Collected: 11/03/21 09:00

Matrix: Water

Date Received: 11/06/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			512112	11/09/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	512735	11/12/21 12:38	DSH	TAL CAN
Total Recoverable	Prep	3005A			512112	11/09/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	512444	11/10/21 23:24	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	512992	11/13/21 08:20	JMB	TAL CAN
Total/NA	Analysis	300.0		5	514202	11/23/21 01:18	JWW	TAL CAN
Total/NA	Analysis	300.0		50	514202	11/23/21 01:40	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	512239	11/10/21 07:48	AJ	TAL CAN

Client Sample ID: 2018-03

Lab Sample ID: 240-159475-2

Date Collected: 11/03/21 09:20

Matrix: Water

Date Received: 11/06/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			512112	11/09/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	512735	11/12/21 12:42	DSH	TAL CAN
Total Recoverable	Prep	3005A			512112	11/09/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	512444	11/10/21 23:27	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	512992	11/13/21 08:25	JMB	TAL CAN
Total/NA	Analysis	300.0		5	514202	11/23/21 02:45	JWW	TAL CAN
Total/NA	Analysis	300.0		20	514202	11/23/21 03:06	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	512239	11/10/21 07:48	AJ	TAL CAN

Client Sample ID: 2016-04

Lab Sample ID: 240-159475-3

Date Collected: 11/03/21 12:52

Matrix: Water

Date Received: 11/06/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			512112	11/09/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	512735	11/12/21 12:47	DSH	TAL CAN
Total Recoverable	Prep	3005A			512112	11/09/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	512444	11/10/21 23:29	AJC	TAL CAN
Total/NA	Analysis	2320B-1997		1	512992	11/13/21 08:30	JMB	TAL CAN
Total/NA	Analysis	300.0		1	514202	11/23/21 03:28	JWW	TAL CAN
Total/NA	Analysis	300.0		10	514202	11/23/21 03:50	JWW	TAL CAN
Total/NA	Analysis	SM 2540C		1	512239	11/10/21 07:48	AJ	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: Lightstone Generation Gavin Power LLC
Project/Site: Gavin CCR

Job ID: 240-159475-1

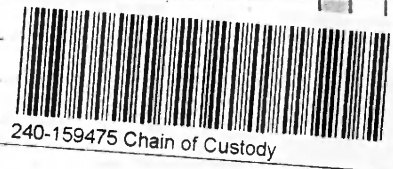
Laboratory: Eurofins TestAmerica, Canton

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-22
Georgia	State	4062	02-23-22
Illinois	NELAP	200004	07-31-22
Iowa	State	421	06-01-23
Kansas	NELAP	E-10336	04-30-22
Kentucky (UST)	State	112225	02-23-22
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-22
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-18-10	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

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Client Information Client Contact: <i>Shawn</i> Phone: 740-925-3171 E-Mail: john.mcfadden@testamericainc.com		Lab PM: McFadden, John E-Mail: john.mcfadden@testamericainc.com		Carrier Tracking No(s): 275 Page of _____ Job #/ #: _____		COC No: _____	
Company: Lightstone Generation Gavin Power LLC Address: 7397 OH-7 City: Cheshiro State Zip: OH, 45620 Phone: 740-925-3171(Tel) Email: Taylor.Huffman@lightstonegen.com		Due Date Requested: _____ TAT Requested (days): _____ PO #: 2911431 WO #: _____ Project #: 24019633 SSOW#: _____		Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> <input type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> <input type="checkbox"/> 6010B,6020(Calcium, Magnesium, Sodium, Potassium) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 2540C, Calcd, 300.0, 28D(Chloride, Fluoride, Sulfate) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 2320B(Carbonate Alkalinity/Bicarbonate Alkalinity) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Antichlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: _____ M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP U - Acetone V - MCAA W - pH 4.5 Z - other	
Sample Identification 2018-03 2018-03 2016-04		Sample Date 11-3-21 11-3-21 11-3-21	Sample Time 0900 0920 1853	Sample Type (C=comp, G=grab) G G G	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air) W W W	Total Number of containers 3 3 3	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> in Infant Deliverable Requested: I, II, III, IV, Other (specify) _____		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposed By Lab <input type="checkbox"/> Archival <input type="checkbox"/> for _____ Month: _____		Special Instructions/QC Requirements: _____		Method of Shipment: _____	
Empty Kit Relinquished by: <i>Shawn</i> Date/Time: 11-4-21 13:10 Company: Savann		Received by: <i>Shawn</i> Date/Time: 11-5-21 17:00 Company: ETA		Received by: <i>Shawn</i> Date/Time: 11-5-21 18:00 Company: ETA		Received by: <i>Shawn</i> Date/Time: 11-5-21 18:00 Company: ETA	
Custody Seals Intact: <input checked="" type="checkbox"/> <input type="checkbox"/> Custody Seal No.: _____		Cooler Temperature(s) °C and Other Remarks: _____		Date: 11/26/2021		Company: ETA	



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Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 159475

Client Lightstave Site Name _____
 Cooler Received on 11-6-21 Opened on 11-6-21 800
 FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Cooler unpacked by:
Kyan C

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # TA Foam Box _____ Client Cooler _____ Box _____ Other _____
 Packing material used: Bubble Wrap Foam _____ Plastic Bag _____ None _____ Other _____
 COOLANT: Wet Ice Blue Ice _____ Dry Ice _____ Water _____ None _____

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-14 (CF +0.1 °C) Observed Cooler Temp. 0.9 °C Corrected Cooler Temp. 1.0 °C
 IR GUN #IR-15 (CF +0.2°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

- 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
 -Were tamper/custody seals intact and uncompromised? Yes No NA
- 3. Shippers' packing slip attached to the cooler(s)? Yes No
- 4. Did custody papers accompany the sample(s)? Yes No
- 5. Were the custody papers relinquished & signed in the appropriate place? Yes No
- 6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
- 7. Did all bottles arrive in good condition (Unbroken)? Yes No
- 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
- 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
- 10. Were correct bottle(s) used for the test(s) indicated? Yes No
- 11. Sufficient quantity received to perform indicated analyses? Yes No
- 12. Are these work share samples and all listed on the COC? Yes No

Tests that are not checked for pH by Receiving:

 VOAs
 Oil and Grease
 TOC

- If yes, Questions 13-17 have been checked at the originating laboratory.
- 13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC157842
- 14. Were VOAs on the COC? Yes No
- 15. Were air bubbles >6 mm in any VOA vials? Yes No NA NA Larger than this. 11-6-21
- 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
- 17. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page

Samples processed by: _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>		<u>Preservative</u>	
			<u>pH</u>	<u>Temp</u>	<u>Added (mls)</u>	<u>Lot #</u>
2018-02	240-159475-C-1	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2018-03	240-159475-C-2	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
2016-04	240-159475-C-3	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____

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India	South Korea
Indonesia	Spain
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